Samsung GALAXY S4®

SCH-R970C
ANDROID SMARTPHONE

User Manual
Please read this manual before operating your
phone and keep it for future reference.

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Table of Contents

Section 1: Getting Started

This section allows you to quickly start using your Samsung SCH-R970C phone by installing the SIM and (optional) 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 248.

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 211.

This manual gives navigation instructions according to the default display settings. If you select other settings, navigation steps may be different.

Unless otherwise specified, all instructions in this manual assume that you are starting from the Home screen. To get to the Home screen, you may need to unlock the phone or keypad. (For more information, refer to *"Securing Your Phone"* on page 17.)

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.

Special Text

In this manual, you'll find text that is set apart from the rest. These are intended to point out important information, share quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

- **Notes**: Presents alternative options for the current feature, menu, or sub-menu.
- **Tips**: Provides quick or innovative methods, or useful shortcuts.
- **Example**: Gives an example of the feature or procedure.
- **Important**: Points out important information about the current feature that could affect performance.
- **Warning**: Brings to your attention important information to prevent loss of data or functionality, or even prevent damage to your phone.

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: "Press ⬜ **Home**, then touch ▤ **Menu** ➔ **Settings** ➔ 🔲 **Connections** ➔ **Wi-Fi**."

Setting Up Your Phone

Before using your phone, you need to install the SIM card, the optional microSD™ card, and the battery.

Important! Before removing or replacing the battery cover, make sure the phone is switched off.

Removing the battery cover

1. Locate the cover removal opening.

2. Place your fingernail in the opening and pry the cover away from the device.

Caution! Do not bend or twist the back cover excessively. Doing so may damage the cover.

Installing the battery cover

■ Align the cover and press it firmly into place, making sure it snaps into place at the corners.

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, such as your PIN, available optional services, and many others features. This SIM card will only work with this device.

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)

2. Locate the SIM card slot on the top inside of the phone.

3. Make sure the gold contacts of the SIM card face downward and that the notched corner of the card faces outward to the right (as shown).

4. Carefully slide the SIM card into the SIM card socket (as shown) until the card locks into place.
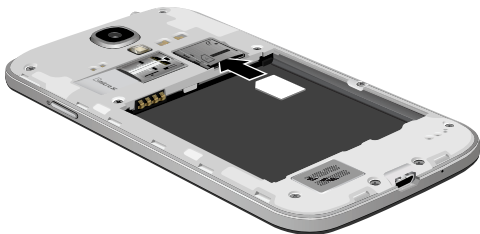
Note: If the SIM card is not inserted correctly, the phone cannot make a network connection.

Once the SIM card is inserted, do not remove it.

Removing the SIM Card

1. Remove the battery cover.

2. Remove the battery.

3. Firmly press the card into the slot and release it. The card should pop partially out of the slot.

4. Remove the card from the slot.

5. Replace the battery cover.

Installing a Memory Card

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

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)

2. Locate the microSD card slot on the top inside of the phone.

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

Important! Be sure to align the gold contact pins on the memory card with the phone's contacts.

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. Press ▭ **Home**, then touch ▤ **Menu →**
   Settings → More → Storage → Unmount SD card. (For
   more information, refer to *"Storage"* on page 207.)

2. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)

3. Firmly press the Memory card into the slot and carefully release it. The card should pop partially out of the slot.

4. Remove the card from the slot.

5. Replace the battery cover. For more information, refer to *"Installing the battery cover"* on page 6.

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.

Note: Failure to unplug the wall charger before you remove the battery, can cause damage to the phone.


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 your phone, the empty battery icon will flash and a tone will sound. If you continue to operate the phone without charging the battery, the phone will power off.

Installing the Battery

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)
2. Slide the battery into the compartment (1) so that the tabs on the end align with the slots at the bottom of the phone, making sure the connectors align.

3. Gently press down to secure the battery (2).
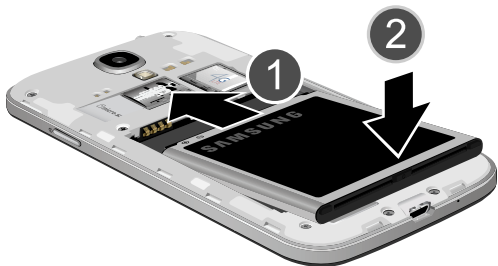
Removing the Battery

1. Remove the battery cover. (See *"Removing the battery cover"* on page 6.)

2. Lift the battery up by the slot provided (1).
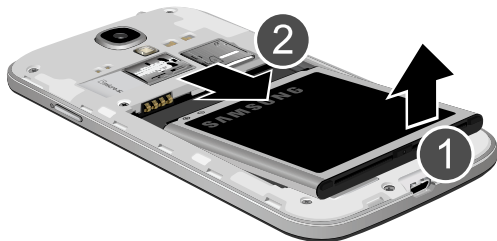
3. Lift the battery up and out of the phone (2).

Charging the Battery

Your phone is powered by a rechargeable Li-ion battery. A wall charger, which is used for charging the battery, is included with your phone. Use only approved batteries and chargers. Ask your local Samsung dealer for further details.

Before using your phone for the first time, you must fully charge the battery. A discharged battery recharges fully in approximately 4 hours.

Note: Verify that the battery is installed prior to connecting the wall charger. If both the wall charger is connected and the battery is not installed, the handset will power cycle continuously and prevent proper operation. Failure to unplug the wall charger before you remove the battery, can cause the phone to become damaged.

Important! It is recommended you fully charge the battery before using your device for the first time.

1. Insert the USB cable into the device's Charger/Accessory jack at the bottom of the device.

Caution! If the USB cable is incorrectly connected, damage to the accessory port will occur therefore voiding the phone's warranty.

2. Connect the USB cable to the charging head.

3. Plug the charging head into a standard AC power outlet. The device turns on with the screen locked and indicates both its charge state and percent of charge.

Caution! While the device is charging, if the touch screen does not function due to an unstable power supply unplug the USB power adapter from the power outlet or unplug the USB cable from the device.

4. When charging is finished, first unplug the charger's power plug from the AC wall outlet, then disconnect the USB cable connector from the device.

Caution! 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 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, refer to *"Standard Limited Warranty"* on page 235.

Turning Your Phone On

■ Press and hold the ⬛⬛⬛⬛ ⊙ **Power/Lock** key (on the upper right side of the phone) for three seconds. While powering on, the phone connects with the network, 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 Press ⬛⬛⬛ **Home** to wake the screen.

2. If there are no Notification alerts on your phone, swipe the screen in any direction to unlock it.
   If you purchased your phone online, the first time you power your phone on and unlock the screen, the Activation Wizard **Welcome** screen displays.

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3. Follow the prompts to activate and set-up your phone.

Note: You can choose to configure lock settings to prevent unauthorized use of your device. For more information, refer to *"Lock screen"* on page 167.

Turning Your Phone Off

1. Press and hold the ⬛⬛⬛⬛ ⊙ **Power/Lock Key** (on the upper right side of the device) for two seconds.

2. At the prompt, touch **Power off**. The **Power off** pop-up displays.

3. At the prompt, touch **OK**.

Initial Device Configuration

When you first turn on your device, you are asked to set up a few things. To complete setup, read and follow the instructions on the screen. You can touch Skip on some screens, while others require reading or other information (touch Next). Touch Back to re-display the information. Some screens display depending on the options you choose.

1. Select a language from the Select language pull down.
2. If required, touch **Accessibility** to change the accessibility settings and tap **Next**.
3. Touch **Next** when the Activate device screen displays.
4. Configure a Wi-Fi connection if you plan to use the device with Wi-Fi. For more information, refer to *"Scanning and Connecting to a Wi-Fi Network"* on page 139.
5. Sign in or create a Samsung account, or touch **Skip**.
6. Touch Yes when the **Got Google** screen displays if you have an account, or touch **No** to cancel.
7. Touch **Get an account** or **Not Now** when the **Make it Google** screen displays.

8. Select the appropriate check boxes on the Google and your location screen, then touch **Next**.
9. Enter your name on the **This phone belongs to...** screen to personalize the phone, and then touch **Done**.
10. Create a Dropbox account or touch **Sign in**, and read the disclaimer. Or touch **Skip**.

Important! If you skip setting up the free 50 GB Dropbox account, your Dropbox account space is limited to 10 GB after initial configuration.

11. Tap each item on the Learn about key features screen to learn more about the feature, then tap **Next**. Your Device name and model code display.
12. Enter a new device name in this field if you want to change the device name. This information displays when you use Bluetooth, Wi-Fi Direct, tethering, and other features.
13. Touch **Done → Finish**. The Home screen displays.

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 76.)

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**, then touch 📞 **Phone**, then touch and hold ⌜1 ∞⌝.
2. Follow the automated instructions to set up your new password and record a greeting.

Important! Always use a password to protect against unauthorized access.

Checking Voicemail

1. Press ⬜ **Home**, then touch 📞 **Phone**, then touch and hold ⌜1 ∞⌝.
2. Follow the automated instructions to create a password, greeting, and a display name.

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

Displaying Your Phone Number

■ Press ⬜ **Home**, then touch ☰ **Menu** ➔ **Settings** ➔ 📺 **More** ➔ **About device** ➔ **Status**. Your phone number displays under **My phone number**.

Your Google™ Account

Your new phone uses your Google account to fully utilize its Android features, including Gmail, Google Maps, Google Talk, and the Google™ Play apps. 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**, then touch [   ] **Applications ➔** [   ] **Gmail**.

   The **Add a Google Account** screen displays.

2. Touch **Existing** or **New** to continue.

3. Follow the on-screen instructions to sign in if you already have a Google account, or to create a Google Account.

Creating a Samsung Account

An active Samsung account is required to use applications such as AllShare Play and Media Hub.

1. From the Home screen, touch [   ] **Menu ➔ Settings**. The **Settings** screen displays.

2. Touch **Accounts ➔ Add account**.

3. Follow the on-screen instructions to complete your account.

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 ([   ]) displays in the Status Bar of the display. For more information, refer to *"Mobile networks"* on page 160.

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 *"Lock screen"* on page 167.

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 top right side of the phone.

Unlocking the phone

For information on unlocking your phone, see *"Unlocking Your Phone"* on page 13.

Unlocking with a Personal Screen Unlock Pattern

1. Press ▭▭ **Home** to wake the screen.

2. Draw your personal unlock pattern on the screen.

For more information, refer to *"Lock screen"* on page 167.

Unlocking with a Password

1. Press ▭▭ **Home** to wake the screen.

2. Enter your Password.

3. Press **OK**.

Section 2: Understanding Your Phone

Features

- 5.0-inch 1920x1080 Super AMOLED Full HD touch screen
- CDMA 1X/EV-DO Rev-A /LTE Wireless Technology
- 1.9 gigahertz quad-core processor
- Android® 4.3 platform
- Google Play™ Store, plus pre-loaded applications
- SAFE™ Certified
- Galaxy Gear™ compliant. For a list of compatible smartphones, please visit: www.samsung.com/us/galaxygearsupport.
- Smart Switch™ compliant. For more information, see www.samsungsmartswitch.com.
- Support for Air View® and Air Gestures®.

- Connections
  - Wi-Fi 802.11 a/b/g/n (2.4 GHz band or 5 GHz band)
  - Portable Wi-Fi Hotspot
  - Bluetooth 4.0
  - Tethering (USB and Bluetooth)
  - VPN
  - NFC
  - Android Beam
  - S Beam
  - Wi-Fi Direct
  - AllShare Cast
  - DLNA
  - USB 2.0
- WatchON® – Rich TV experience with Infrared (IR) remote
- Samsung Link™ to share your media content across connected devices. Cloud connectivity is enabled via the use of an external Web storage service.

- Messaging Services
  - Text Messaging
  - Picture Messaging
  - Video Messaging
  - Voice Messaging
  - Email
  - Gmail
  - Mobile Instant Messenger (IM)
  - Chat
- 13 Megapixel Camera-Camcorder with LED flash + 2 Megapixel Front Camera-Camcorder
- Picture Gallery
- Video Player (1080p — MP4 and 3GP)
- DivX Certified® to play DivX® video up to HD 720p, including premium content
- Music Player (AAC, AAC+, eAAC+, MP3, and WMA)
- Speakerphone
- Support for microSD™ and microSDHC™ Memory Cards up to 64GB capacity

Front View

1. **Earpiece**: Use during calls to listen to callers.
2. **LED Indicator**: Flashes or glows to alert you to alert notifications or phone status.
3. **Menu Key**: Press to display options for the current screen.
4. **Home Key**: Press to display the Home screen, or Lock screen if the phone is locked. Press and hold to display recent applications or to launch Task Manager.
5. **Microphone**: Use during calls to allow callers to hear your voice, and when recording.
6. **Back Key**: Press to return to the previous screen or option.
7. **2 Megapixel Front Camera**: Use for taking pictures and recording video.
8. **Proximity and Light Sensors**: Detect the presence of nearby objects to control device functions or blank the screen display, such as when you hold the phone to your ear during a phone call. Detect ambient light to determine screen brightness when **Brightness** is set to **Automatic brightness** (see *"Brightness"* on page 170), and when taking pictures with the Front camera.

Side Views
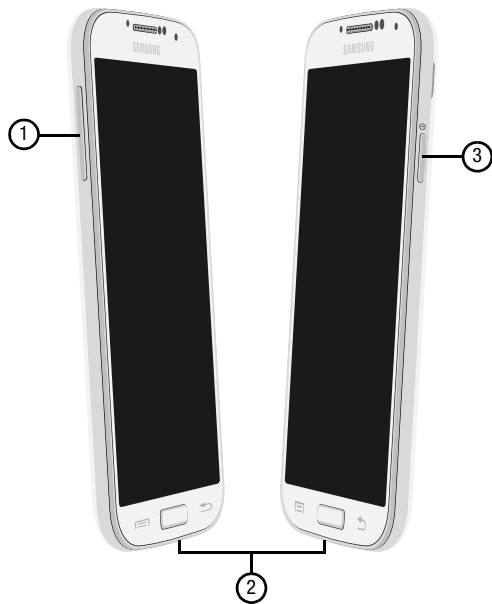
1. **Volume Key**: From the Home screen, touch to adjust Master Volume. During calls or music playback, press to adjust volume. Press to mute the ringtone of an incoming call.

2. **USB Power/Accessory Port**: Connect a USB cable for charging or to sync music and files.

3. **Power/Lock Key**: Press and hold to turn the phone on or off. Press to lock the phone, or to wake the screen for unlocking.

Back View

1. **Infrared Lens**: Use when controlling media devices remotely.

2. **13 Megapixel Camera Lens**: Use when taking photos or recording videos.

3. **Camera Flash**: Use when taking photos.

4. **External Speaker**: Play ringtones, call audio when in Speakerphone mode, media sounds (music and video), and other sounds.

5. **3.5mm Headset Jack**: Plug in an optional headset or TTY equipment.

6. **Noise cancelation microphone**: Captures background noise that the phone uses to produce a quiet background during calls and video chats.

Google Search Bar

The Google Search Bar provides you an on-screen Internet search engine powered by Google™.

1. From the main Home screen, tap the Google Search bar `Google       🎤`.

2. Use the on-screen keypad to enter the item you want to search for, then tap 🔍.

3. Tap 🎤 to use Google Voice Search and follow the prompts.

Navigation

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

Warning! 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, see *"Warranty Information"* on page 235.)

Command Keys

Menu Key

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

Home Key

Press the ▭ **Home Key** to display the Home screen.

Press and hold the ▭ **Home Key** to launch a menu of recent applications, or to launch Task Manager.

Back Key

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

Finger motions

Touch

Touch items to select or launch them. For example:

- Touch the on-screen keyboard to enter characters or text.
- Touch an item to select it.
- Touch an app 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 or icon on the Home screen to move it.
- Touch and hold on a field to display a pop-up menu of options.

Swipe

Swipe your finger vertically or horizontally across the screen. For example:

- Unlocking the screen
- Scrolling the Home screen or a menu
- Combine touch and hold with swipe to drag an item to a new location.

Pinch

Using two fingers, make a pinch motion on the screen. For example:

- Pinch in to zoom in on pictures or screens.
- Pinch out to zoom out on pictures or screens.

Swipe and Palm Swipe

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

- Unlocking the screen

- Scrolling through the Home screen or a menu

To palm swipe, swipe the side of your hand horizontally across the screen. Use palm swipe when:

- Capturing the screen

Motions and gestures

By activating the various motion and gesture features, you can access a variety of time saving functions.

Air gestures

Your phone recognizes motion near its screen. You can control several functions of your phone by moving your hand near the screen. (To enable Air gestures, see *"Motions and gestures"* on page 190.)

- **Quick glance**: When this option is set to On and your phone is lying on its back with the screen is off, you can see selected important information (such as the time and date, notification icons, missed calls, unread messages, battery charge level, and current music information) by reaching upward toward your phone's screen.

- **Air jump**: When this option is set to On, you can scroll web pages or email messages by moving the edge of your hand up or down near the screen.

- **Air browse**: When this option is set to On, you can browse pictures, pages, or music tracks by moving the edge of your hand left or right near the screen.

- **Air move**: When this option is set to On, you can move app shortcuts to other home screen panels or Apps screen panels by touching and holding a shortcut with one hand, then moving the edge of your hand left or right near the screen.

- **Air call-accept**: When this option is set to On, you can answer incoming calls by waving your hand left and right parallel to the screen.

Motions

Your phone can sense when you move it. You can navigate screens and access features by moving the phone in specific patterns.

To use motions to control your phone, enable the **Motion** settings. (For more information, see *"Motions and gestures"* on page 190.)

• **Pick up**:

  – **Direct call**: When this option is set to On, you can lift the phone to your ear to call a contact displayed in a Messaging, Contacts, or Call Log screen.

  – **Smart alert**: When this option is set to On, you can lift the phone to be automatically notified of missed calls, messages, and alerts that occurred while the phone was stationary.

• **Tilt**:

  – **Zoom**: When this option is set to On, touching and holding with your thumbs on the screen while in Gallery or Internet, then tilting the phone forward and back causes the screen to zoom in or out.

• **Pan**:

  – **Browse an image**: When this option is set to On, moving the phone in a panning motion while viewing an image moves focus around in the image.

• **Turn over**:

  – **Mute/pause**: When this option is set to On, turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds.

Palm motions

Use your hand to swipe across the screen, or cover the screen.

• **Capture screen**: When this option is set to On, swiping the screen with the side of your hand (left to right, or right to left) captures a screen shot.

• **Mute/pause**: When this option is set to On, covering the screen with your hand mutes or pauses media playback.

Using Multi window

This feature allows you to run multiple applications on the current screen at the same time. This feature works with the phone in portrait or landscape mode.

Note: Only applications found within the Multi window tray can be active atop or beside another application currently running on the screen.

When running two applications that play multimedia files (music/video), audio from both applications will be played at the same time.

Enabling Multi Window

1. Press ⬜ **Home**, then touch ▤ **Menu** ➔ **Settings**.
2. Touch the [icon] **My device** tab. The **My device** menu displays.
3. Under **Personalization**, touch **Display**, then touch **Multi window** to enable the feature. A check mark displays in the check box to indicate that the **Multi window** feature is enabled.

Displaying and hiding the Multi window tab

To display the Multi window tab and tray:

1. With Multi window enabled, touch and hold ⬅ **Back**. The Multi window tray displays briefly (by default) on the left side of the screen, then closes, leaving only the Multi window tab (⟩) showing.
2. To open the Multi window tray, touch the tab ⟩. You can now browse and launch the apps.
3. To browse the Multi window apps, Swipe the tray upwards.

To hide the Multi window tab:

■ With the Multi window tab showing, touch and hold ⬅ **Back**. This action hides the Multi window tab from view.

Using Multi Window to run multiple apps on the same screen

You can run any of the apps found in the Multi window tray on the screen at the same time as another app.

Once two apps are running on the same screen, you can then choose to swap their positions or to maximize a desired app.

Note: Only apps found in the Multi-window tray can be active on the screen at the same time as another app.

If you run two apps that play multimedia files (music/video), sound from both apps will play at the same time.

1. Launch an app.

   Example: From the Home screen, touch 🌐 **Internet**.

2. Position the phone in either portrait or landscape orientation.

3. Display the Multi window tab. (See *"To display the Multi window tab and tray:"* on page 27.)

4. Touch the Multi window tab 》 to display the apps tray.

5. Touch and hold the desired app, such as 🗺 **Maps**, until it detaches from the tray.

6. Drag the new Multi window app over the currently running app and drop the new app onto one of the following screen areas, depending on your phone's orientation:

   • Top or bottom area (portrait orientation)

   • Left or right area (landscape orientation)
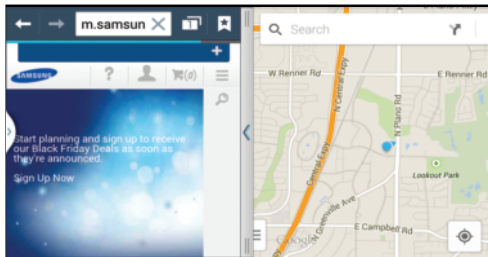
Note: Once two applications are running, the device displays a split screen view, containing both the initial app and the new Multi window app.

Each app runs independent of the other.

To swap the locations of the applications:

1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch 🔁 **Swap apps**. The current apps swap places.

To increase the size of a desired application window:

■ With the two applications shown in a split screen, touch and hold the Border bar, then drag it to resize the desired window.

App #1   Max

App #2 Border Swap Close
        bar   apps
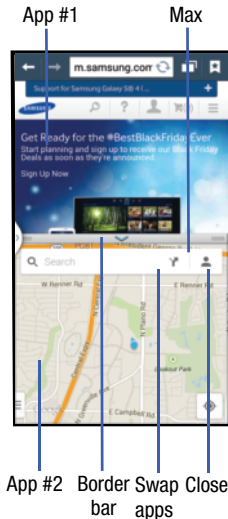
To seperate the current applications:

1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch ▢ **Maximize apps**. The current apps are the both maximized.

To close an application:

1. With the two applications shown in a split screen, touch the Border bar to show the on-screen icons.
2. Touch the desired application area (top or bottom).
3. Touch ✕ **Close app**. The current apps swap places.

Moving the Multi Window tab

The Multi window feature has two components: the tab and the apps tray. You can move the tab along a side or move the tab to any other side of the screen (top, bottom, left, or right). This lets you launch the apps tray (containing the scrollable apps) from any side of the screen.

To move the tab along a side:

1. Display the Multi window tab. (See *"To display the Multi window tab and tray:"* on page 27.)
2. Touch and hold the tab ◊ for approximately one-second, then slowly drag it to its new location **along the current** screen edge.

Tip: This can get the tab out of the way of a button or option behind it.
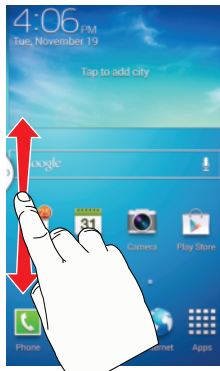
To move the tab and tray to another side:

1. Display the Multi window tab. (See *"To display the Multi window tab and tray:"* on page 27.)
2. Touch the tab ◊ to display the apps tray (containing the scrollable apps).

Note: Notice that when the apps are visible, touching and holding the tab turns it a dark grey. Its only then that you can move the Multi window tray to another side.

3. In a single motion, touch and hold the Multi window tab ⧽ for approximately one-second to detach it from the screen (1), then slowly drag it to its new location **along any other** available screen edge (2). You can move it to the top, bottom, or either side.

Customizing the Multi Window tray

The applications found within the Multi window tray can be organized by either being rearranged or removed.

To rearrange the Multi window applications:

1. Activate the Multi window feature.
2. Touch the tab to display the apps tray (containing the scrollable apps).
3. In a single motion, touch and hold a desired app until it detaches from the tray, then carefully drag it to a new location in the list of apps. Lift your finger or stylus off the screen to let go of the app and drop it into its new location.

To remove a Multi window application:

1. Activate the Multi window feature.
2. Touch the tab to display the Multi window tray (containing the scrollable apps).
3. Touch **Edit** (located at the bottom of the list).
4. Follow the prompt to remove apps from the Multi window tray to the revealed staging area.
5. Tap **Done** once you have completed the removal process.

To restore a Multi window application:

1. Activate the Multi window feature.
2. Tap the tab to display the apps panel (containing the scrollable apps).
3. Tap the **Edit** button (located at the bottom of the list) to reveal the staging area containing any previously removed apps.
4. Locate the desired application.
5. In a single motion, touch and hold a desired app until it detaches from the staging area, then carefully drag it to a new location in the current list of apps.

Notifications

Notifications shows information about connections, alerts and other items.
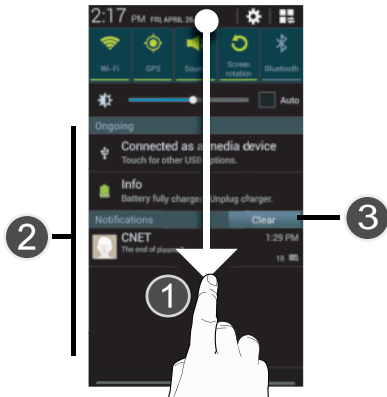
1. Touch and drag downward from the top of the screen to display notifications.
2. Touch an item to open that item, or to launch a related app or feature.
3. Touch **Clear** to clear all Notifications.

Quick Setting Bar

Touch the selected Quick Setting toggles at the top of the Notifications screen to enable or disable frequently used settings. The following toggles are the default Quick Setting toggles:

- **Wi-Fi**: Turn Wi-Fi On or Off. (For more information about using Wi-Fi, see *"Wi-Fi"* on page 138.)
- **GPS**: Turn Standalone GPS services on or off. (For more information, see *"Location services"* on page 202.)
- **Sound**: Touch to switch between your sound settings, and the two Silent modes, Mute and Vibrate. (For more information, see *"Volume"* on page 174.)
- **Screen rotation**: Enable or disable the Auto rotation setting, to control whether the screen automatically updates when you rotate the phone. (See *"Auto-rotate screen"* on page 171.)
- **Bluetooth**: Turn Bluetooth On or Off. (For more information about using Bluetooth, see *"Bluetooth"* on page 140.)
- **Reading mode**: allows you to activate an optimized reading mode for selected applications. This menu allows you to assign available applications (such as Calculator, Camera, Contacts, etc...) for enhancement using the Reader mode.

- **Mobile data**: Activate or deactivate your phone's access to mobile data. (For more information, see *"Mobile networks"* on page 160.)
- **Blocking mode**: Enable or disable the Blocking mode setting, to control which notifications you receive. (For more information, refer to *"Blocking mode"* on page 179.)
- **Power saving**: Enable or disable Power saving mode. (For more information, see *"Power saving mode"* on page 180.)
- **Multi window**: Enable or disable Multi window mode. (For more information, refer to *"Using Multi window"* on page 27.)

Changing Quick Settings Bar

You view and use all of the available Quick Setting buttons, and select which buttons appear at the top of the Notifications screen.

1. Display the notifications panel by touching and dragging downward from the top of the screen.
2. Touch ⊞. The Notifications screen is replaced by an array of the available Quick Setting buttons.
3. Touch ✐ **Edit**.
4. Follow the instructions under **Set the quick setting buttons**.

Clearing Notifications

1. Sweep your finger downward from the top of the screen to display Notifications.
2. Touch a notification to clear it, or to launch an app.

   – or –

   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.

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.

1. **Status Bar**: Presents icons to show network status, battery power, and connection details. (For a list of icons, see *"Status Bar Icons"* on page 36.)

2. **Home screen**: The starting point for using your phone. Place shortcut icons, widgets, and other items to customize your phone to your needs.

3. **Multi window tab**: Access Multi window tray. (See *"Using Multi window"* on page 27.)

4. **Primary Shortcuts**: Shortcuts to your phone's common apps. (See *"Primary Shortcuts"* on page 39.)

5. **Panel Indicator**: Shows what panel of 7 available Home screen panels displays.

6. **Shortcuts**: Shortcuts to common apps.These shortcuts are found on the Home screen by default, and you can add more shortcuts to your favorite apps. (See *"Shortcuts"* on page 39.)

7. **Widget**: Apps that run on the Home screen. This widget is found on the Home screen by default, and you can add your favorites. (See *"Widgets"* on page 40.)

Status Bar Icons

The Status Bar shows network and battery status and other details.

Airplane Mode Active: All wireless communications are disabled. See *"Airplane mode"* on page 160.

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

Voice Call: A voice call is in progress.

Speakerphone: Speakerphone is enabled.

Missed Call: Displays when there is a missed call.

Mute: Voice or playback volume is muted.

Battery Level: Shown fully charged.

Battery Charging: Battery is charging.

Device Power Critical: Battery has very little power remaining. Charge immediately.

GPS Location Active: One or more GPS location services are active. See *"Location services"* on page 202.

Missing SIM: No LTE SIM is installed.

No Network: No wireless network is available.

3G connection: Phone is active on a 3G system.

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

DLNA Active: Displays when your device is connected and being used to control streaming media. The device is connected to a Digital Living Network Alliance (DLNA) certified device using the Samsung Link application.

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

New Message: You have new message(s).

New Voicemail: You have new voicemail. A number indicates the number of new messages.

New Email Message: You have new email.

Silent mode: All sounds except media and alarms are silenced, and Vibrate is not active. See *"Volume"* on page 174.

Vibrate: All sounds are silenced, and Vibrate is active. See *"Vibrations"* on page 175.

SD Card Ready: A memory card scan is underway, to prepare the card for use.

SD Card Removed: A memory card was un-installed.

Bluetooth Active: Bluetooth is turned on.

Bluetooth Headset Connected: Your device is connected with a Bluetooth headset.

Wi-Fi Active: Wi-Fi is active, and connected to a Wi-Fi network.

Wi-Fi Action Needed: Action needed to connect to Wi-Fi network. For more information about configuring Wi-Fi, see *"Wi-Fi Settings"* on page 154.

TTY: TTY Mode is active.

Display settings

You can customize display settings to your preferences. For more information, see *"Display"* on page 169.

Extended Home Screen

The Home screen consists of the Home panel, plus up to 5 additional 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 bottom of the display shows your current position.

Customizing the Home Screen

Customize the Home screen to suit your preferences.

- **Add Shortcuts**: For more information, see *"Shortcuts"* on page 39.
- **Add Widgets**: For more information, see *"Widgets"* on page 40.
- **Add Folders**: For more information, see *"Folders"* on page 40.
- **Change the Wallpaper**: For more information, see *"Wallpaper"* on page 41.

Adding and removing Home screen panels

Your phone comes with 5 active Home screen panels. You can customize the Home screen to include up to the seven default panels, and set one panel as the Home panel.

1. From the Home screen, touch ▭ **Menu**, then touch **Edit page**.

   Tip: You can also "pinch" the Home screen to display Edit options.

2. Use these controls to configure panels:

   Remove: Touch and hold on a panel, then drag it to **Remove**.

   Add: Touch a previously-removed panel to add it, up to the maximum of seven.

   Home panel set: Touch to set an available panel as the Home panel.

3. To change the order the panels appear, touch and drag each panel you want moved in place of the panel in the desired sequence.

Primary Shortcuts

Primary Shortcuts appear at the bottom of the display. You can edit the Primary Shortcuts, except for ▦ **Apps**.

Editing the Primary Shortcuts

To add Primary Shortcuts:

1. To a Home screen panel, add a shortcut that you want to make a Primary Shortcut. (For more information, see *"Shortcuts"*.)

2. Touch and hold the added shortcut, then drag it from the Home screen to the Primary Shortcuts.

   If the Primary Shortcuts bar already holds five shortcuts, adding another shortcut automatically moves the closest existing Primary Shortcut to the Home screen.

To remove Primary Shortcuts:

■ Touch and hold the shortcut until 🔟 **Remove** displays, then drag the shortcut to the Home screen panel or to the **Remove** icon.

Shortcuts

Use App shortcuts to launch applications from the Home screen. Your phone comes with app shortcuts already placed on the Home screen, and you can add your favorites.

Adding Shortcuts to the Home Screen

Adding shortcuts from the Home screen

1. Press the ▭ **Home** key, swipe to the desired Home Screen panel, then touch and hold on the screen to display the **Home screen** menu.

2. Under **Add to Home screen**, touch **Apps and widgets ➔ Apps** tab.

3. Touch and hold on an app until it displays on the Home screen.

Adding Shortcuts from Apps

1. Press the ▭ **Home** key.

2. Touch ▦ **Apps**.

3. Touch and hold on an app until it displays on the Home screen.

Removing Shortcuts

■ Touch and hold the shortcut until 🔟 **Remove** displays, then drag the shortcut to the Remove icon.

Widgets

Widgets are self-contained applications that you can place on the Home screen for quick, direct access.

Adding Widgets to the Home screen

1. Press the ⬚ **Home** key, swipe to a Home screen panel, then touch and hold on the screen to display the **Home screen** menu.

2. Under **Add to Home screen**, touch **Apps and widgets → Widgets** tab.

3. Touch a widget and follow the prompts to place and configure the widget on the Home screen.

Adding Widgets from Apps

1. Press the ⬚ **Home** key, and swipe to a Home screen panel.

2. Touch ▦ **Apps**, then touch the **Widgets** tab.

3. Touch a widget and follow the prompts to place and configure the widget on the Home screen.

Removing Widgets

■ Touch and hold the widget until 🗑 **Remove** displays, then drag the widget to the **Remove** icon.

Folders

Place folders on the Home screen to organize items.

Adding Folders

1. Press the ⬚ **Home** key.

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. The folder displays on the Home screen. Touch the folder to name it.

Removing Folders

■ Touch and hold the folder until 🗑 **Remove** displays, then drag the folder to the Remove icon.

Wallpaper

Choose a picture to display in the background of the Home screen. You can choose from pre-loaded wallpaper images, or select a picture you've taken with the Camera or downloaded.

1. Press the ▢ **Home** key, touch and hold on the screen to display the **Home screen** menu, then select **Set wallpaper** ➔ **Home screen** / **Lock screen** / **Home and lock screens**.

2. Choose a source:
   • **Gallery**: Choose a picture stored on your phone or on an optional installed memory card. Touch a picture to select it, then use the crop tool to resize 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**.

Tip: You can also set Wallpaper in Settings. (For more information, see *"Wallpaper"* on page 169.)

Apps

Apps holds all applications installed on your phone. Applications that you download and install from the Google Play™ Store or from the web are also added to Apps.

The Apps screen is like the Home screen, it consists of panels that extend beyond the display width to provide more space. Slide your finger horizontally across the screen to scroll to the left or right side panels. As you scroll, the indicator at the bottom of the display shows your current position.

(For more information about applications, see *"Applications and Widgets"* on page 86.)

You can place shortcuts to apps on the Home screen, for quick access to the app. (For more information, see *"Adding Shortcuts from Apps"* on page 39.)

1. Press the ▢ **Home** key, then touch ▦ **Apps**.
2. Slide your finger left or right to scroll the Apps screens.
3. Touch an icon to launch the application.

Customizing the Apps Screens
Choosing a view

By default, app icons appear in Grid view. You can change the view to list view.

1. Press the ▭ **Home** key, then touch ▦▦ **Apps**.
2. Touch ▤ **Menu → View type**.
3. Choose an option:
   • **Customizable Grid**: The default view, which allows you to touch and hold on apps to move them from screen to screen.
   • **Alphabetical grid**: Icons are arranged in a grid, in A-Z order.
   • **Alphabetical list**: Icons display in a list, sorted from A-Z.

Apps screen options

1. Press the ▭ **Home** key, then touch ▦▦ **Apps**.
2. Touch ▤ **Menu** for options:
   • **Play Store**: Launch Google Play™ Store, to browse for new apps to download.
   • **Edit**: Touch and hold an app icon for these options:
     – Drag it to a new location.
     – Drag it to 🔂 to create a new folder to contain the icon.
     – Drag it to 🔂 to create a new apps screen and place the icon on it.
     – Drag it to 🔲 to launch Application manager to view information about the app. (For more information, refer to *"Application manager"* on page 206.)
     – Drag it to 🔳 (if available) to Uninstal the app.

     Note: The 🔳 **Uninstall** icon is only available for your downloaded apps. Pre-loaded apps cannot be uninstalled.

   • **Create folder**: Add folders in which to group your apps.

- **Uninstall**: Remove an app that you downloaded from your phone. Pre-loaded apps cannot be un-installed.

- **Downloaded applications**: Display all apps you've downloaded.

- **View type**: Configure the apps screen.

- **Share apps**: Select apps you've downloaded (not available for pre-loaded apps) to share via Bluetooth, ChatON, Dropbox, Email, Flipboard, Gmail, Google, Google+, Messaging, S Memo, Wi-Fi Direct.

- **Hide applications** / **Show hidden applications**: Control whether selected apps icons appear on Apps panels. Hiding an icon does not uninstall the app from your phone.

Entering Text

This sub-section describes how to enter words, letters, punctuation, and numbers when you need to enter text in a message, a note, or any other text entry field.

Keyboards and Input Methods

There are three text input methods available:

- **Google Voice typing**: Enter text by speaking.

- **Samsung keyboard** (default): Samsung's on-screen QWERTY keypad that can be used in both portrait and landscape orientation.

- **Swype**: Instead of touching each key, use your finger to trace over each letter of a word.

(To change the input method, see *"Keyboards and input methods"* on page 185.)

Using the Google Voice Typing Feature

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

1. Touch 🎤 on the keyboard.
2. At the **Speak now** prompt, speak clearly and distinctly into the microphone.
3. If the red microphone turns gray, the feature has timed out. To start again, touch the microphone icon.

   The text is displayed in the message as you are speaking.
4. Touch ⌨ to return to the keyboard.

Note: The feature works best when you break up your message into short segments.

Entering Text Using the Samsung Keyboard

From a screen where you can enter text, rotate your phone counterclockwise to a Landscape orientation. The on-screen QWERTY keypad will display.

Shift Key

Delete Key

Voice Typing and Settings

Space Bar

New Paragraph
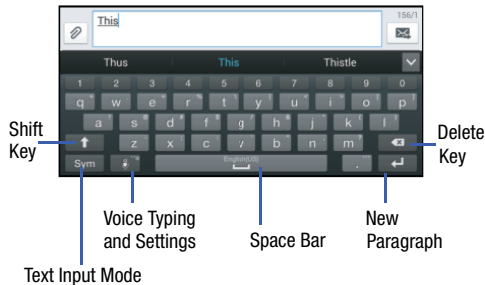
Text Input Mode

Changing the Text Input Mode - Keypad

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

The available Text Input modes are: **Symbol/Numeric** and **ABC**.

Sym **Symbol/Numeric Mode**: Activates the number, symbol, and emoticon keys.

ABC **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 **Sym** button displays. When in **Sym** mode, the **ABC** button displays.

Using ABC Mode

1. If desired, rotate your phone counterclockwise to a Landscape orientation.

2. When you touch a text entry field, such as the **Enter message** field for a new text message, the following keyboard image displays:

3. Touch the desired letter or number keys.

Note: The screen initially opens in Abc mode. After typing the first letter, the shift key (⬆) changes to ⬆ and succeeding letters are lower case.

4. Touch ⬆ once to input another upper-case letter or touch ⬆ twice to switch to ABC mode. The shift key will change to ⬆. All following letters will be upper case until you touch the shift key again.

Using Symbol/Numeric Mode

Use Symbol/Numeric Mode to add numbers or symbols.

1. Rotate your phone counterclockwise to a Landscape orientation.

2. Touch Sym at the bottom of the keyboard. The following keyboard displays:

3. Touch the desired number or symbol.

4. Touch the 1/2 button to access additional symbols.

5. Touch ABC to return to Abc mode.

Predictive Text

By using the Predictive Text option, you can have next-letter prediction and regional error correction, which compensates for pressing the wrong keys on the QWERTY keyboard.

Note: Predictive text is turned ON by default.

Turning Predictive Text ON:

1. Touch and hold 🖰 on the keyboard, then touch ⚙. The Samsung keyboard settings screen displays.

2. Touch the **Predictive text** ON/OFF slider OFF.

3. In the text portion of the message screen, 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 or scroll the line of words to the left for more word choices.
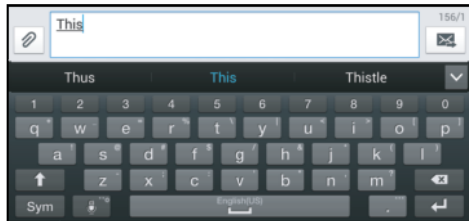
4. Continue typing your message. Touch ✉ to send the message or press ▤ **Menu** for more options. (For more information, refer to *"Creating and Sending Messages"* on page 77.)

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

Entering Text Using Handwriting

You can enter text simply by using your finger to handwrite letters on your screen.

1. Touch and hold 🎤 on the keyboard, then touch 🖉 .

2. Use your finger tip to write out each character. You can print or use cursive.

3. You can write out your entire message using the Handwriting feature or touch ⌨ to switch back to Samsung keyboard mode.
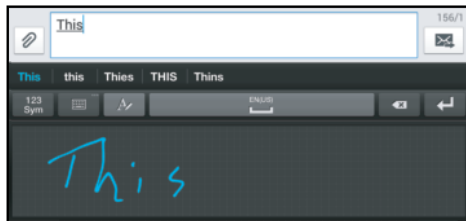
Samsung Keyboard Settings

For information on how you can configure your Samsung keyboard settings, see *"Keyboards and input methods"* on page 185.

Entering Text Using Swype

Swype™ is a text input method that allows you to enter a word by sliding your finger or stylus from letter to letter, lifting your finger between words. Swype uses error correcting algorithms and a language model to predict the next word. Swype also includes a predictive text system.

The following example shows how to enter the word "This". Put your finger down on the "T", and without lifting, glide it to the "h", then to the "i" then over to the "s".
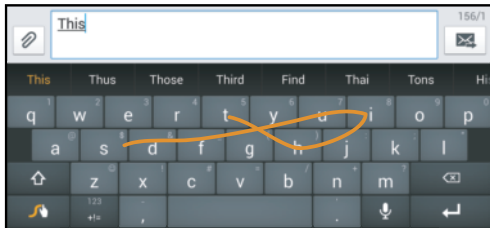
Swype Text Entry Tips

You can access the SwypeTips application and watch a video or tutorial on using Swype. You can also use the following Swype text entry tips.

• Create a squiggle (like an S shape) to create a double letter (such as pp in apple).

• Touch and hold a key to view the punctuation menu then make a selection.

• Move your finger or stylus over the apostrophe to enter contractions.

• Double-tap on the word you want to change to correct a misspelled word, then tap the delete key to erase one character. Touch and hold the delete key to erase an entire word.

Enabling and Configuring Swype

The Samsung keyboard is the default text input method, so to use Swype, you must first change the default keyboard setting.

To enable Swype:

1. From a screen where you can enter text, touch a text input field.
2. Touch the Status Bar and drag down the Notifications screen.
3. Touch ⌨ **Select input method**. The Select input method menu pops up.
4. Touch the **Swype** radio button, which turns green. The Swype keyboard displays.

Swype Settings

For information on how you can configure your Swype settings, see *"Keyboards and input methods"* on page 185.

Section 3: Accounts and Contacts

Accounts

Your phone provides the ability to synchronize information, from a variety of accounts, including Email, Facebook, Google, and your Samsung account. Depending on the account, you can choose to synchronize your calendar, contacts, and other types of content.

Contacts from your accounts appear in your phone's Contacts.

With synchronization, you can ensure that information on your phone is updated with any information that changes in your accounts.

Setting Up Your Accounts

Set up and manage your accounts with the **Accounts** settings.

(For information about setting up other, non-synchronized email accounts, see *"Configuring Email Accounts"* on page 82.)

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

Adding an account

1. From the Home screen, touch ▭ **Menu**, then touch **Settings** ➔ 🔑 **Accounts**.
2. Touch **Add account**.
3. Select an account type, then follow the prompts to enter your credentials and sign in.
4. The phone communicates with the provider's server to set up your account on the phone.

Controlling Synchronization

You can choose to have your phone automatically synchronize with your accounts, or manually synchronize each account when you want to check messages.

You may also choose to limit automatic or background synchronization to extend battery life.

1. From the Home screen, touch ▤ **Menu** ➔
    ⚙ **Settings** ➔ 🖳 **My device** ➔ **Accounts**.
2. Under **My accounts**, touch the desired account type. The related account type screen displays.
3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account displays listing some or all of the following synchronization settings:
    • **Sync Calendar**
    • **Sync Contacts**
    • **Sync Email**
    • **Sync Gmail**
    • **Sync Google Photos**
    • **Sync Google Play Books**
    • **Sync Google Play Magazines**

• **Sync Google Play Movies & TV**
• **Sync Google Play Music**
• **Sync Internet**
• **Sync Picasa Web Albums**
• **Sync Memos**
• **Sync Tasks**

4. Touch these settings to enable/disable synchronization of the associated file types. When enabled, a check mark displays in each setting check box.
    • With automatic synchronization enabled, your phone automatically synchronizes its related files with similar files on on-line file servers.
    • With automatic synchronization disabled, you can manually sync accounts by touching **Sync all** in the account type screen for each account.

Tip: You can control automatic synchronization using the **Sync** toggle in the Quick Settings menu on the Notifications screen. (For more information, refer to *"Quick Setting Bar"* on page 33.)

Google Account Privacy Settings

Personalize the Privacy settings for Google accounts:

1. From the Home screen, touch ▭ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **My device** ➔ **Accounts**.

2. Touch **Google**. The **Google** account type screen displays.

3. The following options are available:

   • **Search**: Manage Google accounts location histories and search histories.

   • **Location settings**: Choose whether Google apps can access location information for Google accounts.

   • **Google+**: Manage Google+ information for Google accounts.

   • **Ads**: Choose whether to personalize Google and AdMob advertisements for Google accounts.

Managing accounts

1. From the Home screen, touch ▭ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **My device** ➔ **Accounts**.

2. Under **My accounts**, touch the desired account type. The related account type screen displays.

3. Under **Accounts**, touch the desired account ID. The **Sync settings** screen for the selected account displays. (For more information, refer to *"Controlling Synchronization"* on page 51.)

4. To enable or disable a synchronization setting, touch it. When enabled, a check mark displays in the check box.

5. To invoke the enabled synchronization settings for the selected account, touch **Sync now**.

6. To remove the selected account from your phone, touch **Remove account**. A **Remove account?** pop-up prompts you to confirm the removal.
   To remove the selected account, touch **Remove account**.

Contents

To access Contacts:

■ From the Home screen, touch 📇 **Contacts**.

Contact tips:

• Swipe your finger left-to-right across a contact to make a call to the contact.

• Swipe right-to-left across a contact to create a message addressed to the contact.

Adding Contacts

1. From the Home screen, touch 📇 **Contacts** ➔ 👤 **Add contact**.

   • If you have defined accounts (Google, Samsung, and so on), the **Save contact to** pop-up displays. Select **Device** or the account to receive the new Contact entry.

   • If you have not defined any accounts, the **Save contact** pop-up displays. The following options are available:

   – **OK**: Saves your contacts in **"my device contacts"**.

   – **Add new account**: Lets you define an account to which your device will save your contacts. The **Add new account** screen displays. (For more information, refer to *"Setting Up Your Accounts"* on page 50.)

2. Touch contact fields to select or enter information:

   • Touch 👤 **Add photo ID** to choose a picture to identify the contact.

   • Touch **Name** to enter a name for the contact. Touch ⌄ to enter **Name prefix**, **First name**, **Middle name**, **Last name,** or **Name suffix**.

   • Touch **Phone number** to enter a phone number, then touch the **Label** button to choose a label, from **Mobile**, **Home**, **Work**, **Work Fax**, **Home Fax**, **Pager**, **Other**, **Custom**, or **Callback**. To add another number, touch ⊕.

   • Touch **Groups** to assign the contact to a group. (For more information about Groups, see *"Groups"* on page 59.)

   • Touch **Ringtone** to choose a ringtone for the contact.

   • Touch **Message alert** to select the alert tone to be played when you receive a message from this contact.

   • Touch **Vibration pattern** to choose a vibration pattern to play when you receive a call or message from this contact.

   • Touch **Add another field** to add more fields, including **Phonetic Name**, **Organization**, **Email** (displays after you set-up an Email account), **IM**, **Address**, **Notes**, **Nickname**, **Website**, **Events**, or **Relationship**.

3. When you finish selecting and entering information, touch **Save**.

Creating Contacts from Recent calls

Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, refer to *"Creating or Updating Contacts Using Recent calls"* on page 65.

Creating Contacts from the Phone Keypad

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

1. From the Home screen, touch 📞 **Phone**.

2. Touch the digits of the phone number on the **Keypad**.

3. Touch **Add to Contacts**, then select **Create contact** from the pop-up menu.

4. Continue entering contact information. (For more information, refer to *"Adding Contacts"* on page 53.)

Tip: While entering a phone number, you can add waits or pauses. Enter the number up to the pause or wait, then touch ☰ **Menu** to select **Add 2-sec pause** or **Add wait**.

Updating Contacts

Make changes to update an existing contact.

1. From the Home screen, touch 👤 **Contacts**.

2. Touch a contact to view its information, then touch ✏️ **Edit**.

– or –

Touch and hold a contact, then select **Edit** from the menu.

3. Continue entering contact information. (For more information, refer to *"Adding Contacts"* on page 53.)

Updating Contacts from the Phone Keypad

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

1. From the Home screen, touch 📞 **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 continue entering contact information. (For more information, refer to *"Adding Contacts"* on page 53.)

Updating Contacts from Recent calls

Save a phone number from a recent call to create a new contact, or update an existing contact.

For more information, refer to *"Creating or Updating Contacts Using Recent calls"* on page 65.

Choosing Contacts to Display

1. From the Home screen, touch 🔲 **Contacts**.

2. Touch 🔳 **Menu**, then touch **Contacts to display**:
   • Choose **All contacts** to show all contacts.
   • Touch **Device** to show only show contacts saved to the phone.
   • Choose an account to only display contacts from that account.
   • Choose **Customized list** to select contact types for each account, or the phone.

Contacts Settings

1. From the Home screen, touch 🔲 **Contacts**.

2. Touch 🔳 **Menu**, then touch **Settings**:
   • Select **Only contacts with phones** to show contacts with at least one stored phone number.
   • Touch **List by** to sort contacts by first or last name.
   • Touch **Display contacts by** to list contacts by first or last name.
   • Touch **Contact sharing settings** to set your preference for sending contacts namecards to other accounts or devices. (For more information about sending contacts, see *"Sending Namecards"* on page 58.)

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Other Contacts Options

1. From the Home screen, touch 🔲 **Contacts**.
2. Touch a contact to display it, then touch ☰ **Menu**:
   • **History**: View calls and messages to and from this contact.
   • **Edit**: Modify contact information. (For more information, refer to *"Updating Contacts"* on page 54.)
   • **Delete**: Erase the contact record.
   • **Join contact** / **Separate contact**: Manage multiple contacts as one. (For more information, refer to *"Joining Contacts"* on page 57.)
   • **Mark as default**: Set a default phone number or other field (such as IM or email address). Defaults are the contact method used when creating a message or calling a contact. You can also set a default by touching and holding on a contact field.
   • **Share namecard via**: Send the namecard. (For more information, refer to *"Sending Namecards"* on page 58.)
   • **Add to reject list**: Mark the contact so that calls or messages from the contact are rejected automatically. To remove a contact from the reject list, touch and hold on the contact in the main contacts screen, then choose **Remove from reject list**.

   • **Print contact info**: Print the namecard via Bluetooth to a compatible Samsung Bluetooth-enabled printer.
   • **Place to home screen**: Add shortcut to this contact to Home screen.

My Local Profile

My local profile is your own contact record, listed under **ME** in Contacts. You can send My local profile as a vCard via Bluetooth or as an attachment to messages.

Creating My Local Profile

1. From the Home screen, touch 🔲 **Contacts**.
2. Under **ME** touch your Google account name or **Set up profile**.
3. Enter your information in the contact fields. (For more information, refer to *"Adding Contacts"* on page 53.)

Sending My Local Profile

You can send your profile as a vCard via Bluetooth to other Bluetooth devices, or as an attachment.

1. From the Home screen, touch **Contacts**.
2. Touch your profile to display your contact information.
3. Touch **Menu**, then touch **Share namecard via**.
4. Choose a sending method or app from the **Share namecard via** pop-up, then follow the prompts to send the profile.

Joining Contacts

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

Joining contact records allows you to see all the contact's numbers and addresses together. Joining also helps you keep your contacts updated, because any changes to information in the respective accounts is automatically updated the next time you synchronize with the account.

Joining contacts

1. From the Home screen, touch **Contacts**.
2. Touch a contact to display its information.
3. Touch **Menu**, then touch **Join contact**. A list of available contacts displays.
4. Select a contact to join to the displayed contact. The joined contact displays.
5. To join another contact, touch the **Connection** field. The Joined contact screen displays.

   Touch **Join another contact**. A list of available contacts displays.

   Select a contact to join to the displayed contact. The joined contact displays.

Separating contacts

1. From the Home screen, touch **Contacts**.
2. Touch a contact to display its information.
3. Touch the **Connection** field to display joined contacts.
4. Touch ⊝ to the right of a contact to remove it from the selected joined contact.

Exporting and Importing Contacts

You can export your contact list to an installed memory card, or import a list of contacts (previously exported) from a memory card.

1. From the Home screen, touch 🔲 **Contacts**.
2. Touch ☰ **Menu**, then touch **Import/Export**.
3. Select an option, then follow the prompts to complete the operation:
   - **Import from USB storage**: Copy contacts that are saved in installed mass storage.
   - **Export to USB storage**: Copy contacts to installed mass storage.
   - **Import from SD card**: Copy contacts that are saved on an installed memory card.
   - **Export to SD card**: Copy contacts to an installed memory card.
   - **Share namecard via**: Share contacts as Namecards. (For more information, refer to *"Sending Namecards"* on page 58.)

Sending Namecards

You can send a contact entry as a namecard using a Bluetooth connection to another device, or as an attachment to a Gmail or Email message.

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

1. From the Home screen, touch 🔲 **Contacts**.
2. Touch ☰ **Menu**, then touch **Import/Export → Share namecard via**.
3. Touch contacts to mark them for sending, or touch **Select all** to mark all contacts. A check mark displays in the check box for marked contacts.
4. Touch **Done**.
5. Choose a sending method from the **Share namecard via** pop-up, then follow the prompts to send the profile.

Favorites

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

Favorites display on the **Favorites** tab in the **Phone** and **Contacts** screens for fast dialing or messaging, and are indicated by the ⭐.

Creating Favorites

1. From the Home screen, touch 📇 **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 ☆ at the top right of the screen, it changes color to ⭐.

Groups

Assign contacts to Groups to make searching for contacts faster, or to quickly call or send messages to group members. Your phone comes with pre-loaded groups you can use to add your contacts.

Adding a New Group

1. From the Home screen, touch 📇 **Contacts** ➔ 👥 **Groups**.
2. Touch ▤ **Menu** ➔ **Create**, then enter information:
   • Touch **Group name** to enter a Group Name.
   • Touch **Group ringtone** to choose a ringtone for calls from members of this group.
   • Touch **Message alert** to choose the tone to play for messages from members of this group.
   • Touch **Vibration pattern** to choose a vibration to play for calls from members of this group.
   • Touch **Add member** to select members from Contacts.
3. Touch **Save** to save the new group.

Editing a Group

1. From the Home screen, touch 🔲 **Contacts** →
   🔲 **Groups**.

2. Touch a Group to display it.

3. Touch 🔲 **Menu** → **Edit**, then update information for the group. For more information, see *"Adding a New Group"* on page 59.

Deleting a Group

Tip: You can only delete groups that you have created.

1. From the Home screen, touch 🔲 **Contacts** →
   🔲 **Groups**.

2. Touch 🔲 **Menu** → **Delete groups**.

3. Touch a Group to mark it for deletion, or touch **Select all** to mark all groups. When selected, a check mark displays in the check box. You cannot delete pre-loaded groups.

4. Touch **Delete**, then choose **Group only** or **Group and group members**.

Adding Contacts to a Group

1. From the Home screen, touch 🔲 **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 displays in the check box.

4. Touch **Done** to add the selected contact(s).

Removing Contacts from a Group

1. From the Home screen, touch 🔲 **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 displays in the check box.

5. Touch **Done** to remove the selected contact(s).

Sending a Message to Group Members

Create a new text or email message, addressed to the group's members.

1. From the Home screen, touch 🔲 **Contacts → Groups**.
2. Touch and hold a Group, then touch **Send message** or **Send email**.
3. Touch contacts to mark them as recipients for the new message, then touch **Done**.
4. 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 77, or *"Composing and Sending Email"* on page 82.)

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 about calling using speed dials, see *"Making Calls using Speed Dials"* on page 62.

Note: Speed dial 1 is reserved for Voicemail, and cannot be assigned.

Assigning Speed Dials

1. From the Home screen, touch 🔲 **Contacts**.
2. Touch ▤ **Menu**, then touch **Speed dial setting**.
3. A list of speed dials displays.Touch a speed dial, then touch a contact to assign the speed dial to the contact.

Removing or Reassigning a Speed Dial

1. From the Home screen, touch 🔲 **Contacts**.
2. Touch ▤ **Menu**, then touch **Speed dial setting**.
3. Touch and hold an assigned Speed dial setting, the following options pop-up:
   • **Replace**: Touch a new speed dial location to assign it to the contact.
   • **Remove**: Un-assign the speed dial from the contact.

Section 4: Calling

Making Calls

Your phone offers multiple ways to make calls:

- Use the touch screen **Phone Keypad** to enter the phone number or speed dial.
- Call a contact from **Contacts**.
- Call a contact from **Favorites**.
- Return a call, or call a recent caller, from **Recent**.
- Voice dial using **Voice Dialer**.

Making Calls Using the Phone Keypad

1. From the Home screen, touch **Phone**.
2. Touch the Keypad tab and then dial the digits of the telephone number on the **Keypad**.
3. Touch to place the call.

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 about setting speed dials, see *"Speed Dials"* on page 61.)

1. From the Home screen, touch **Phone**.
2. Touch the Keypad tab and then touch the digits of the speed dial number on the **Keypad**, 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, numbers, and other information for people or groups of interest.

(For more information, refer to *"Contacts"* on page 53.)

1. From the Home screen, touch 📞 **Phone**.
2. Touch the **Contacts** tab.
3. Locate the contact and touch it to open the Contact entry.
4. Touch 📞 next to the number to dial.

Making Calls using S Voice

Place a call by speaking the name or number.

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → 🎙 **S Voice**.

   – or –

   From the Home screen, press ▭ **Home** twice in quick succession.
2. Read and respond to the prompts.
3. Say "Hi Galaxy" to wake up S voice.
4. Follow the prompts to speak a command. You can say commands such as:
   • **Call <Name >**: Call an entry in your Contacts list.
   • **Dial <Phone number>**: Call a spoken phone number.
   • **Redial**: Repeat a recent call.

Making Calls using Favorites

Favorites are contacts that you designate as favorites by starring them. (For more information about creating favorites, see *"Favorites"* on page 59.)

1. From the Home screen, touch **Phone**.
2. Touch **Favorites** to display favorites.
3. Find the contact and touch it to open the Contact entry.
4. Touch next to the number to dial.

Recent Calls

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

Accessing Recent calls

■ From the Home screen, touch **Phone ➔**
 Recent to display recent calls.

Making Calls using Recent calls

1. From the Home screen, touch **Phone**.
2. Touch **Recent** to display recent calls.
3. Swipe your finger from left to right across the call to redial.

   – or –

4. Touch next to the number to dial.

Sending Messages using Recent calls

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. Swipe your finger from right to left across the call.

   – or –

   For a contact call, touch the picture ID icon, then touch ✉ to create a message to the number.

Creating or Updating Contacts Using Recent calls

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. Touch and hold on a call, 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, see *"Contacts"* on page 53.)

Managing Recent calls

Deleting records

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing the calls, touch **Menu**, then touch **Delete**.
3. Touch call records to mark them for deletion, or touch **Select all**. A check indicates marked records.
4. Touch **Delete** to delete marked records.

Filtering records

1. From the Home screen, touch **Phone** ➔ **Recent**.
2. While viewing the calls, touch **Menu**, then touch **View**.
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**.

Answering a Call

When somebody calls you, the phone rings and displays the incoming call image. The caller's phone number, picture, or name if stored in Contacts List, displays.

- At the incoming call screen:

  • Touch and slide 🔵 ▸▸▸ in any direction to answer the call.

  • Touch and slide ◂◂◂ 🔴 in any direction to reject the call.

  • Touch and drag the **Reject call with message** tab upward and tap a predefined rejection message or tap **Create new message** to create a new custom outgoing response.

Pressing the Volume down button mutes the ringer.

Answering a call with Air Gesture

1. Verify the Air Gestures feature is on and Air call-accept is active. For more information, refer to *"Motions and gestures"* on page 190.

2. At the incoming call screen, wave your hand over the screen to accept the incoming call.

Managing Reject Calls

This feature allows you to categorize both known and unknown callers as rejected contacts. These Contacts are then added to your Rejection list which can be managed for individual entries from within the Contacts list or as a whole from the Call rejection screen.

1. From the Home screen, touch 📞.

2. Press [☰] **Menu** and then tap **Call settings** ➔ **Call rejection**.

3. Tap the **Auto reject mode** field to configure your automatic rejection settings. Rejected calls are routed automatically to your voicemail. Choose from:
   - **Off**: disables the auto rejection feature.
   - **All numbers**: enables the features for all known and unknown numbers, including those contacts that are not assigned to the rejection list.
   - **Auto reject numbers**: automatically rejects all entries assigned to the Reject list/Blacklist.

Adding numbers to the rejection list

Entries can be added to the list via either the Contacts menu or via the Auto reject list menu. The Contacts menu option assigns all numbers for an individual as rejected. The Auto reject list allows to assign individual numbers.

To assign multiple numbers as rejected via Contacts:

1. From the Home screen, tap 👤 (**Contacts**).
2. Locate an entry and tap it to open the Contact Overview Screen (page 91).
3. Press ▤ **Menu** and then tap **Add to reject list**. All phone numbers associated with this entry are then added to the reject list.

Viewing call durations

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

1. From the Home screen, touch 📞 **Phone →** 📞 **Recent**.
2. While viewing calls, touch ▤ **Menu**, then touch **Call duration**.

International Calls

1. From the Home screen, touch 📞 and then touch and hold 0 + until the device displays "+" on the screen.
2. Use the keypad to enter the country code, area code, and phone number.
3. Touch ⌫ once to delete a single digit.
   – or –
   Touch and hold ⌫ to delete all digits.
4. Touch 📞.

Pause Dialing

You can dial or save phone numbers with pauses for use with automated systems, such as voicemail or financial phone numbers.

• **2-Second Pause** automatically sends the next set of numbers after a two-second pause. This is indicated in the number string as a comma (**,**).

1. From the Home screen, touch [phone icon] and then touch the **Keypad** tab.
2. Use the on-screen keypad to enter the phone number.
3. Press [menu icon] **Menu** and then tap **Add 2-sec pause**. This feature adds an automatic two-second pause.
4. Use the keypad to enter the additional numbers that will be dialed automatically after the second pause.

Tip: You can create pauses longer than two seconds by entering multiple 2 second pauses.

5. Tap [phone icon].

Wait Dialing

Inserting a Wait into your dialing sequence means that the phone waits until it hears a dial tone before proceeding with the next sequence of numbers.

• **Wait** sends the next set of numbers only after tapping **Yes**. This is indicated in the number string as a semicolon (**;**).

Note: Do not add multiple Waits (;) to a number string as this will continue to prompt you after each sequence.

1. From the Home screen, touch [phone icon] and then touch the **Keypad** tab.
1. Use the keypad to enter the phone number.
2. Press [menu icon] **Menu** and then tap **Add wait**. This feature causes the phone to require your acceptance before sending the next set of entered digits.
3. Tap [phone icon].
4. Once prompted to **Send the following tones?**, tap **Yes** to dial the remaining digits.

Multi-party Calling

Use multi-party call features to set up a call between multiple callers, such as for a conference call.

1. Establish the first call, by answering an incoming call or making a call.
2. Touch **Add call**. The first call is placed on hold.
3. Make the second call by touching the phone number digits, then press 📞.
4. Touch **Merge** to merge the calls into one conference call.
5. To end the call touch 📵.

Answering Calls

You can answer incoming calls when the phone is locked or unlocked.

■ Touch and drag the 📞 **Answer** icon to the right.

Tip: To silence the ringtone for an incoming call, press the **Volume** key Up or Down.

Sending Calls to Voicemail

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

Rejecting a call

■ Touch and drag the 📵 **Reject** icon to the left.

Rejecting a call with a message

■ Touch and drag **Reject call with message** toward the middle of the screen, then select an existing message, or **Create new message**.

Answering Call-Waiting Calls

When you receive a call while on a call:

● Touch and drag the (📞) **Answer** icon to the right 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.

Options During a Call

Personalize call sound

Noise reduction

Extra volume

While in a call, you can use these features:

● **Personalize call sound**: Apply a sound equalizer to the call audio, in cases where you might need the sound softer or clear, or optimized for your right or left ear.

● **Noise reduction**: Enable or disable noise reduction, to improve call audio quality in noisy environments.

● **Extra volume**: Enable or disable increased volume in the earpiece. Compensates for low sound from the other caller.

- **Add call**: Display the Dialer to set up a multi-party call.
- **Keypad**: Display a keypad to enter numbers.
- **End call**: End the phone call.
- **Speaker**: Enable or disable speakerphone.
- **Mute**: Mute or unmute your voice on the call.
- **Headset**: Switch the call's audio to a Bluetooth headset.
- Touch ▭ **Menu** for options:
  – **Contacts**: Launch Contacts.
  – **Message**: Launch Messaging to view or create messages.
  – **Memo**: Launch S Memo to take notes in text, or create a drawing.

Ending a Call

■ Touch 📵 .

Call Settings

Configure settings for calling with your phone.

■ To access Call settings, from the Home screen, touch
   📞 **Phone → ▭ Menu → Call Settings**.

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** for these options:

   • **Auto reject mode**: Choose Off, All numbers, or Auto reject numbers. When set to Auto reject numbers, calls from numbers on the Auto reject list will be rejected.

   • **Auto reject list**: Enter telephone numbers to be rejected when Auto reject mode is set to Auto reject numbers. Touch **Create**, then follow the prompts to enter numbers to reject, or select them from Contacts. Touch **Match criteria** to set options for using the reject number list. Enable **Unavailable** to reject calls with no caller ID (that is, Unknown callers).

Set up call rejection 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 up call rejection messages**.

  2. Touch **Create** then follow the prompts.

Answering/ending calls

Manage settings for answering and ending calls.

  1. From the **Call Settings** screen, touch **Answering/ending calls**. The following options are available:

    • **The home key answers calls**: When enabled, you can answer an incoming call by pressing   **Home**.

    • **Voice control**: When enabled, you can answer calls using the S Voice wake-up command.

    • **The power key ends calls**: When enabled, pressing   ⊙ **Power/Lock** ends a call.

Turn off screen during calls

When enabled, the screen automatically turns off during phone calls, and the proximity sensor on the front of the phone is used to turn the screen back on when the phone is moved or brought close to another surface, such as when you move the phone to your ear.

  ■ From the **Call Settings** screen, touch **Turn off screen during calls** to enable or disable this option.

    When this option is enabled, a check mark displays in the check box.

Call alerts

Set options for sounds and vibrations to occur during calls.

■ From the **Call Settings** screen, touch **Call alerts**. The following options are available:

• **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.

• **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 accessories

Configure headset options for calls.

■ From the **Call Settings** screen, touch **Call accessories**. The following options are available:

• **Headset settings for incoming calls**:

– **Automatic answering**: When enabled, and you have a headset connected to the Headset Jack, incoming calls are answered automatically after a delay, set at Automatic answering timer.

– **Automatic answering timer**: Choose a time period to delay before automatically answering an incoming call when Automatic answering is enabled and a headset is connected to the phone.

• **Bluetooth headset settings**:

– **Outgoing call conditions**: When the phone is paired with a Bluetooth headset, you can choose to make calls even when the phone is locked.

Ringtones and keypad tones

Select incoming call ringtone and vibration, and enable or disable call vibration and keypad tones.

■ From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Ringtones and keypad tones**. The following options are available:

• **Ringtones**: Select the ringtone your phone plays to alert you of incoming calls.

• **Vibrations**: Select the vibration pattern your phone uses to alert you of incoming calls.

• **Vibrate when ringing**: Touch to enable/disable use of your selected **Vibrations**. When enabled, a check mark displays in the check box.

• **Dialing Keypad tone**: Touch to enable/disable playing of DTMF tones when you enter numbers with the Phone keypad. When enabled, a check mark displays in the check box.

Personalize call sound

When enabled, you can select a sound profile for use during calls.

■ From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Personalize call sound** and select Adapt Sound, Soft sound, Clear sound, or Off (sound set with the Volume key).

Noise reduction

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

■ From the **Call Settings** screen, under **Ringtone and sound settings**, touch **Noise reduction** to enable or disable the option.

Increase volume in pocket

When enabled, the phone uses the proximity sensor to detect when the phone is in a pocket or other close-fitting location such as a purse or bag, and increases the volume for incoming call ringtones.

■ From the **Call Settings** screen, touch **Increase volume in pocket** to enable or disable the option.

Voicemail

Configure options for voicemail.

■ From the **Call Settings** screen, under **Voicemail**, the following options are available:

- **Voicemail service**: By default, your phone uses your wireless service provider's voicemail service. If you have another option for voicemail installed, select it here.

- **Voicemail settings**: By default, the speed dial for calling voicemail (speed dial 1) is set to your phone number. If you wish to use another Voicemail service, touch **Voicemail number** to set a new one.

- **Sound**: Choose sound to play for a voicemail notification.

- **Vibrate**: Choose an option for vibration to play for a voicemail notification.

Other call settings

■ From the **Call Settings** screen, under **Other call settings**, the following options are available:

- **Auto retry**: When enabled, the phone will automatically redial a call if it receives a busy signal from the network.

- **TTY mode**: Choose a TTY mode to enable TTY mode, for use with optional TTY equipment.

- **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.

Section 5: Messaging

This section describes how to send and receive messages, and 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 text messages with pictures, video, and/or sound to other mobile phones or email addresses (also known as MMS).

- **Mobile IMs**: Exchange Instant Messages with other users of popular messaging sites.

- **Email**: Send and receive email from your email accounts, including Corporate mail.

- **Gmail**: Send and receive Gmail from your Google account.

- **Hangouts**: Chat with other Hangout users.

- **ChatON**: Chat, share pictures, videos, animation messages (Scribbles), audio, Contacts, Calendar entries, and Location information.

Text and Multimedia Messaging

Your phone can send and receive text and multimedia messages.

Creating and Sending Messages

1. From the Home screen, touch **Messaging** ➔ **New message**.

2. Touch **Enter recipient** and enter a name, phone number or email address, or touch to add recipients from the following:

   - **Groups**: to select a recipient from the Group list.

   - **Favorites**: to select a recipient from the Favorites list.

   - **Contacts**: to select a recipient from your Contacts list (valid entries must have a wireless phone number or email address).

   - **Logs**: to select a recipient from a list of recently sent messages.

3. If adding a recipient from either Logs, Contacts, or Group, tap the contact to place a check mark then tap **Done**. The contact displays in the recipient field.

4. Touch **Enter message**, then enter the message text. The following options are available (which options are available depends on whether you include an attachment):

- Touch 🖉 **Attach** to add media (Image, Take a picture, Video, Record video, Audio, Record audio files) or content (S Memo text, Calendar events, Locations, Contacts) to the message (converts the message to MMS).

- Touch ▤ **Menu** for options:

  – **Insert smiley**: Add a text emoticon to the message.

  – **Add text**: Select text from S Memo, Calendar, Location, Contacts or Text templates to add.

  – **View contact**: Displays contact information.

  – **Add slide / Remove 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 (converts the message to MMS.)

  – **Scheduling**: Select a delivery date and time.

  – **Discard**: Erase this message.

  – **Translate**: Launches the Translator app.

5. Touch 🖂 to send the message.

Managing Messages

Messages you send and receive to the same contact, number or address are grouped together as a "conversation". Threads allow you to see all the messages you exchanged with a recipient in one place.

1. From the Home screen, touch ✉ **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 options, including:

  – **Delete**: Erase the entire message thread.

  – **View Contact / Add to Contacts**: View the contact record, or save the sender/recipient's information.

  – **Add to spam numbers**: Add this number to message reject list. Messages from this number are automatically placed in the Spam messages folder.

- Touch ▤ **Menu** for options, including:

  – **Search**: Enter characters to search messages and recipients.

- **Delete threads**: Touch message threads to mark them for erasure, or touch **Select all** to mark all message threads.
- **Draft messages**: Messages you have composed and saved for later reuse and/or to be sent to a recipient.
- **Locked messages**: Messages you have locked to protect them from accidental deletion.
- **Scheduled messages**: Messages you have set to be delivered at a selected date and time.
- **Spam messages**: Messages received from numbers you have registered as spam senders.
- **Settings**: Configure Messaging settings.

Messaging Settings

Configure settings for message storage, delivery, or alerts.

1. From the Home screen, touch 📧 **Messaging**.
2. Touch ☰ **Menu**, then touch **Settings** for options:
   - **General settings**:
     - **Delete old messages**: When enabled, messages are automatically erased when storage reaches default limits. When disabled, the phone will prompt you to delete old messages to make room.
     - **Text message limit**: Set the number of SMS messages per conversation.
     - **Multimedia message limit**: Set the number of MMS messages per thread.
     - **Text templates**: Text templates are phrases that you can add to your messages. Use a pre-loaded text template, or create your own.
   - **Text message (SMS) settings**:
     - **Delivery reports**: When enabled, you receive a delivery report for text messages you send.

- **Multimedia message (MMS) settings**:
  - **Group messaging**: When enabled, you can send a single message to multiple recipients.
  - **Delivery reports**: When enabled, you receive a delivery report for multimedia messages you send.
  - **Auto-retrieve**: When enabled, MMS messages download automatically. When disabled, the phone prompts for download.
  - **Roaming auto-retrieve**: When enabled, MMS messages download and display automatically when roaming. When disabled, the phone prompts you to download new MMS messages.
  - **MMS alert**: When enabled, alerts you when a message changes mode to MMS.
- **Display**:
  - **Bubble style**: Choose the appearance of messages in a message thread. Touch a bubble style for each side of the conversation, then touch **Save**.
  - **Background style**: Choose the appearance of the screen behind message threads. Touch a style, then touch **Save**.
  - **Use the volume key**: When enabled, you can change the size of message text while viewing by pressing the Volume Key.

- **Notification settings**:
  - **Notifications**: When enabled, message alerts display in the Status bar.
  - **Select ringtone**: Choose a sound for message alerts.
  - **Vibrate**: Configure vibration for message alerts.
  - **Message alert repetition**: Choose to have message alert repeat Once, Every 2 minutes, or Every 10 minutes.
  - **Preview message**: When enabled, a preview of a received message displays in the Status bar.
- **Emergency message settings**:
  - **Emergency alerts**: This device is designed to receive Wireless Emergency Alerts from the Commercial Mobile Alert Service (CMAS), including Presidential Alerts, Imminent Alerts (Severe or Extreme), and AMBER Alerts (missing persons). You may choose not to receive Imminent and AMBER alerts, but Presidential Alerts cannot be disabled. All alerts are enabled by default (check mark shown). For more information about Emergency Alerts see *"Emergency alerts"* on page 81.
  - **Emergency notification preview**: Listen to an example of a Emergency Alert tone (and vibration, if enabled). The Emergency Alert tone plays at the same volume as your call ringtone.

- **Vibrate**: Configure vibration for Emergency Alerts.
- **Alert sound**: When enabled, a sound plays for emergency alerts.
- **Alert reminder**: Choose whether, and at what interval, your phone plays a sound to notify you of a Emergency Alert after the Emergency Alert tone has stopped.

• **Signature settings**:

- **Add signature**: When enabled, adds your signature text to the end of your outgoing messages.
- **Signature text**: Enter text to be added to the end of your outgoing messages.

• **Spam message settings**:

- **Spam settings**: When enabled, the Spam message settings are activated.
- **Add to spam numbers**: Enter sender numbers whose messages are blocked automatically.
- **Add to spam phrases**: Enter message text phrases that will cause messages to be blocked automatically.
- **Block unknown senders**: When enabled, messages from "Unknown" senders are blocked automatically.

Emergency alerts

This device is designed to receive Wireless Emergency Alerts from the Commercial Mobile Alert Service (CMAS). Emergency Alerts are geographically-targeted, and alert customers of imminent threats to their safety within their area. There is no charge for receiving an Emergency Alert.

There are four types of Emergency Alerts:

• Presidential

• Extreme

• Severe

• AMBER Alerts (missing person alert)

You may choose not to receive Extreme Alerts, Sever Alerts, and AMBER Alerts. Presidential Alerts, however, cannot be disabled. To disable Extreme and Severe Threat Alerts and AMBER Alerts, do the following:

1. From the Home screen, touch **Messaging**.
2. Touch **Menu → Settings → Emergency alerts**.
3. All alerts except Emergency alert test message are enabled by default (check mark showing). To disable alerts, touch an alert to remove the check mark.

Email

Send and receive email using popular email services.

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 setting. (See *"Microsoft Exchange ActiveSync"*
on page 199.)

Configuring the first email account

1. From the Home screen, select ▦ **Apps** ➔ ◉ **Email**.
2. Touch **account@example.com** 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. (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**.

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

Adding More Email Accounts

For information on adding additional Email accounts, see
"Email" on page 195.

Composing and Sending Email

1. From the Home screen, select ▦ **Apps** ➔
   ◉ **Email** ➔ ✎ **Compose**.
2. Touch fields to enter recipients and the email text.
3. While composing a message, touch ▤ **Menu** for
   options.
4. Touch ⫯ **Attach** to add a file to the message.
5. Touch 🖫 to save this message as a Draft.
6. Touch ✉ **Send** to send the message.

Managing Emails

Refreshing Your Email Account

Refresh your account to update your phone from the servers.

1. From the Home screen, select ▦ **Apps** ➔ ◎ **Email**.
2. Touch ◯ **Refresh**.

Email Account Settings

Use Account settings to configure handling of your email.

Note: Available settings depend on the email provider.

1. From the Home screen, select ▦ **Apps** ➔ ◎ **Email**.
2. Touch an account to view it, then touch ▭ **Menu** ➔ **Settings** ➔ **General settings** for options.

Gmail

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

■ From the Home screen, select ▦ **Apps** ➔ ✉ **Gmail**.

Setting Up Your Gmail Account

The first time you launch Gmail, your phone will prompt you to set up your Google account.

1. From the Home screen, select ▦ **Apps** ➔ ✉ **Gmail**.
2. Follow the prompts to sign in, or create a new account.
3. Touch Sync now. The phone communicates with the Google server to set up your account and synchronize your email.

Note: You can use more than one Google account on your phone. To add another account, from within Gmail, touch ▭ **Menu** ➔ **Settings** ➔ **ADD ACCOUNT** option.

Refreshing Your Gmail Account

Refresh your account to update messages on your phone.

1. From the Home screen, touch ▦ **Apps** → ✉ **Gmail**.

2. Touch ↻ **Refresh**.

Managing Your Gmail Account

Use menu options to manage your Gmail.

1. From the Home screen, touch ▦ **Apps** → ✉ **Gmail**.

2. Touch ▤ **Menu** for options.

Composing and Sending Gmail

1. From the Home screen, touch ▦ **Apps** → ✉ **Gmail** → ✉ **New message**.

2. Touch fields and to compose the message. While composing, touch ▤ **Menu** for options.

3. When your message is complete, touch ➤ **Send**.

Hangouts

Previously known as Google Talk™, is an updated free web-based application for instant messaging offered by Google. Conversation logs are automatically saved to a Chats area in your Gmail account. This allows you to search a chat log and store them in your Gmail accounts.

1. Log on to your Google account if you have not already done so. (For more information, refer to *"Your Google™ Account"* on page 16.)

2. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → 💬 **Hangouts**.

3. Press ▤ → **Help** for more information on using Hangouts.

ChatON

Provides a global service where you can chat with more than 2 buddies using a group chat. Share things such as pictures, videos, animation messages (Scribbles), audio, Contacts, Calendar entries, and Location information.

Important! Your Samsung account manages the access information (username/password) to several applications, such as AllShare Play, ChatON, and Media Hub.

(For more information, visit: https://web.samsungchaton.com and see *"Accounts"* on page 50.)

■ From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🅲 **ChatON**.

Section 6: Applications and Widgets

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

This section contains a description of each application available in the Apps menu and how to launch it. For applications provided by Samsung, this section also describes functions and navigation.

If an application is described in another section of this user manual, a cross reference to that particular section is provided.

Note: This manual only addresses applications that have been loaded on your device as of the date of purchase. Information concerning third party applications that you may choose to download from the Google Play Store or other sources should be obtained from the application provider directly and not from Samsung.

Tip: To open applications quickly, add the icons of frequently-used applications to one of the Home screens. (For details, see *"Customizing the Home Screen"* on page 38.)

You can also add an application icon as a Primary Shortcut that will display on all Home screens. If you add an application as a primary shortcut, the application icon will not be displayed in the Apps menu. (For more information, refer to *"Editing the Primary Shortcuts"* on page 39.)

Accessing Applications

1. From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps**. The **Apps** screen displays.
2. Sweep your finger right or left to scroll the Apps screens.
3. To launch an application, touch the application's icon.

Customizing the Applications Screens

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.

1. From the Home screen, touch 🔲 **Menu** ➔ ▦ **Apps**.

2. 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 Home screen, touch 🔲 **Menu** ➔ ▦ **Apps**.

2. Touch 🔲 **Menu** ➔ **Edit**.

Note: The **Edit** option is not available with the **Apps** screen **View type** set to **Alphabetical list**.

3. Touch and hold an application icon, then drag it to a new location.

4. Touch **Save** when you are finished.

Filtering Application icons

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

1. From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps**.

2. 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 displays without the hidden applications.

Applications List

Calculator

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

1. From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps** ➔ 🖩 **Calculator**.

2. To clear the calculator history, touch ▤ **Menu** ➔ **Clear history**.

3. To change the text size, touch ▤ **Menu** ➔ **Text size**. Touch Small, Medium, or Large.

4. Rotate your phone to the landscape position to display the scientific 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 *"Widgets"* on page 40.)

1. From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps** ➔ 🗓 **Calendar**.

Important! You should add an account (Facebook, Microsoft Exchange ActiveSync, or Google) prior to using the Calendar.

2. 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.
- **List**: 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.
   - **Delete memo**: Removes a memo saved to a specific calendar date.
   - **Search**: Search for calendar events.
   - **Sync**: Synchronize your phones calendar with your account calendars. (For more information, refer to *"Setting Up Your Accounts"* on page 50.)
   - **Calendars**: Select calendars to display.
   - **Settings**: Customize the calendar.

Customizing the Calendar

1. From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 31 **Calendar**.

2. Touch ▭ **Menu** → **Settings** to configure these settings:
   - **View settings**:
     - **View styles**: Choose Month view styles (Calendar view + list, Calendar view +pop-up), or Week view (Timeline or Analog).
     - **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 **Sun**.
     - **Weather**: Displays an Accuweather forecast for the next 5 days (including the selected day).

- **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.

  – **Quick responses**: Pre-composed text to include with email notifications to meeting attendees, guests, and so on.

Sending Events

Send events as vCalendar files to other compatible devices.

1. From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps** ➔ 𝟛𝟙 **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 138.)
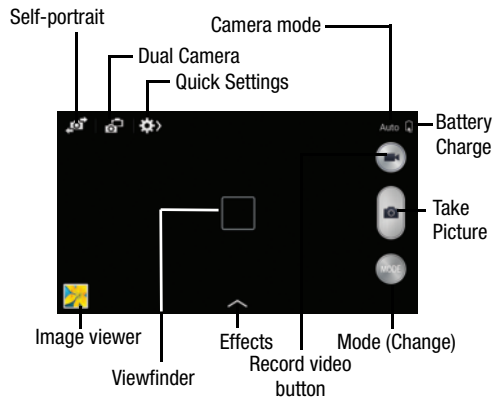
Camera

Use your 13.0 megapixel Camera feature to take photos and save them in JPEG format. Your phone also functions as a camcorder to record videos and save them in MPEG format.

Note: When taking a photo in direct sunlight or in bright conditions, shadows may appear on the photo.

1. From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps** ➔ ◉ **Camera**. The Camera view finder screen displays.

Note: On your initial activation of the camera, firmware configuration can take up to 1 minute. This is a one time process.

2. Before you take a picture, use the **Up** and **Down** Volume keys to zoom in or out. You can magnify the picture up to x4 (400 percent).

– or –

Pinch the screen to zoom out or pinch outwards to zoom in.

3. If desired, before taking the photo, touch on-screen icons to access various camera options and settings.

4. Touch the screen to move the focus to a desired area of interest.

5. Touch 📷 (**Camera**) until the shutter sounds.

Self-portrait

Dual Camera

Quick Settings

Camera mode

Battery Charge

Take Picture

Image viewer

Effects

Viewfinder

Record video button

Mode (Change)

Camera Options

Options are represented by icons across both sides of the screen.

1. From the Home screen, touch ☰ **Menu** ➔ ▦ **Apps** ➔ 🔘 **Camera**.

2. Touch the Mode button (MODE) to change the mode to one of the following:

   – **Auto**: Use this mode to automatically adjust the exposure, color, and brightness settings. This mode allows single image shots or burst shots.

   – **Beauty face**: Use this to take photos with lightened faces for gentler images.

   – **Best photo**: Use this to take multiple photos in a short time, and then choose the best photos among them. Press the Shutter button to take multiple photos. When Gallery opens, touch and hold thumbnails of photos to save, and then touch Done.

   – **Best face**: Use this to take multiple group shots at the same time and combine them to create the best possible image. Press the Shutter button to take multiple photos. When Gallery opens, touch the yellow frame on each face, and choose the best individual face for the subject. After choosing a pose for each individual, touch Done to merge the images into a single photo, and touch Save.

   – **Sound & shot**: Use this mode to enrich pictures by adding background sounds for a few seconds. The background sound is recorded up to 9 seconds after taking the photo.

   – **Drama**: Use this to take a series of photos of a moving object and then merge them together into one image.

   – **Animated photo**: Use this to create a picture in which a few selected static objects move by animating objects detected by the device.

   – **Rich tone (HDR)**: Use this to take photos with richer colors and contrasts by merging images taken at different exposure levels.

   – **Eraser**: Saves the best of 5 taken pictures and removes any passers by.

- **Panorama**: Use this to take wide panoramic photos. Press the Shutter button to take a photo, and then move the camera in any direction. When the blue frame aligns with the preview screen, the camera automatically takes another shot in the panoramic sequence. To stop shooting, press the Shutter button again.
- **Sports**: Use this to take fast action photos.
- **Night**: Use this to take brighter, clearer pictures in low light settings without the use of the flash.

3. From the top of the camera, the following shortcuts are available for the camera:

Focus area: displays the area of the image used as the main focus area. If the image is too close, the square will turn red.

Self portrait: allows you to set the front camera so you can take pictures of yourself.

Front Camera/Dual Camera: allows you to activate both the front and rear cameras simultaneously. For more information, refer to *"Taking Dual Camera Photos"* on page 94

Quick Settings: activates the Quick Settings menu bar from where you can select several additional settings.

Night detection: use this activate/deactivate night detection.

Image viewer: allows you to access the Image viewer and the various viewing options for a selected picture. The last picture you took, displays as a thumbnail in the Image viewer icon.

Effects/Downloads: provides access to pre-installed and downloaded effects. Default effects include: No effect, Vignette, Grayscale, Sepia, Vintage, Faded color, Turquoise, Tint, Cartoon, Moody, Rugged, Oil pastel, and Fisheye.

Camcorder button: shoots a video when pressed.

Camera button: takes a photo when pressed in Camera mode.

Mode button: allows you to select from different camera modes.

Taking Dual Camera Photos

With the Dual Camera feature, you can take a picture with both the front and rear cameras at the same time.

To take a Dual Camera picture:

1. From the Home screen, touch **Menu** → **Apps** → **Camera**.
2. Touch **Dual Camera** located at the top left side of the screen. The camera viewfinder displays an image from the front-facing camera within a mini picture frame on top of the main image displayed from the rear-facing camera.
3. Touch **Camera** until the shutter sounds.

To resize the front camera image:

■ Touch and hold the mini picture frame until the resize handles appear, then drag a corner to enlarge the image.

To reposition the front camera image:

■ Touch and hold the mini picture frame to detach it and then place it in a desired location.

Camera and Camcorder Settings

This section describes the different settings that you can configure on your camera. Not all of the following options are available in both still camera and video camera modes. The available options vary by mode.

1. From the Home screen, touch **Menu** → **Apps** → **Camera** → **Quick Settings** → **Camera Settings**.

2. The follow settings are located under the Camera, Camcorder, and General tabs. The settings that are displayed will depend on what camera mode you are in.

Camera:

- **Photo size**: Select a resolution for photos. Use higher resolution for higher quality. Higher resolution photos take up more memory.
- **Burst shot**: allows several photographs to be captured in quick succession by touching and holding the Camera button.
- **Face detection**: allows you to adjust the camera focus based on face detection technology.
- **Metering**: allows you to set how the camera measures or meters the light source: Center-weighted, Matrix, or Spot.
- **ISO**: determines how sensitive the light meter is on your digital camera. Choose from Auto, 100, 200, 400, or 800. Use a lower ISO number to make your camera less sensitive to light, a higher ISO number to take photos with less light, or Auto to let the camera automatically adjust the ISO for each of your shots.
- **Anti-shake**: compensates for camera movement.

- **Auto night detection**: activates or deactivates the night detection feature.
- **Save as**: allows you to assign rich tone usage to an image.

Camcorder:

- **Video size**: Select a resolution for videos. Use higher resolution for higher quality. Higher resolution videos take up more memory.
- **Video stabilization**: Activate or deactivate Optical Image Stabilization.

Settings:

- **Location tag**: attach a GPS location tag to the photo. To improve GPS signals, avoid shooting in locations where the signal may be obstructed, such as between buildings or in low-lying areas, or in poor weather conditions. Your location may appear on your photos when you upload them to the Internet. To avoid this, deactivate the GPS tag setting.
- **Review**: set this option if you want to view each picture after you take it. Select a time value.
- **Volume key**: assigns a function to the volume key. Choose from The zoom key, The camera key, or The record key.

- **Timer**: Use this for delayed-time shots. You can set the timer to Off, 2 sec, 5 sec, or 10 sec.

- **White balance**: Select an appropriate white balance, so images have a true-to-life color range. The settings are designed for specific lighting situations. These settings are similar to the heat range for white-balance exposure in professional cameras.

- **Exposure value**: allows you to adjust the brightness level by moving the slider.

- **Guidelines**: Display viewfinder guides to help composition when selecting subjects.

- **Flash**: activate or deactivate the flash.

- **Voice control**: activates/deactivates voice control feature that allows you to verbally take a photo.

- **Contextual filename**: allows you to have your location added as part of the filename. You must first activate GPS tag described above.

- **Save as flipped**: when set to On, this option allows you to take and save a mirror-image video when using self-recording mode.

- **Storage**: Select the memory location for storage.

- **Shutter sound**: Turn the shutter sound on or off.

- **Reset**: Reset the camera settings.

Launching the Camcorder

Tip: When shooting video in direct sunlight or in bright conditions, it is recommended that you provide your subject with sufficient light by having the light source behind you.

1. From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🔵 **Camera** → to activate the camera mode.

Note: The camera may not be able to properly record videos to a memory card with a slow transfer speed.

2. Using the camera's main display screen as a viewfinder, adjust the image by aiming the camcorder at the subject.

3. Before you take a video, use the Volume control buttons to zoom in or out. You can magnify the video up to x4 (400 percent).

Note: Use either the Up and Down volume keys or spread/
pinch the screen to zoom in or out. For more
information, refer to *"Navigating Through the Screens"*
on page 40

4. Touch the Video key ( ) to begin shooting video.
   The red light will blink while recording.

5. Touch anywhere on the screen to re-focus the camera
   on that object. The camcorder auto-focuses on the
   new target area.

6. To capture an image from the video while recording,
   touch . This feature is not available while the
   anti-shake feature is activated.

7. Touch the Stop key ( ) to stop the recording and
   save the video file to your Camera folder.
   – or –

   Touch the Pause key ( ) to pause the recording.

8. Once the file has been saved, touch the image viewer,
   then touch ( ) (**Play**) to playback your video for
   review.

9. Press to return to the viewer.

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Accessing Videos

When you shoot a video, the file is saved in the Camera
folder. You can view your videos immediately or view them
anytime in the Camera folder.

1. From the Home screen, touch **Menu →** **Apps**
   → **Gallery**.

2. Select a folder location and touch a video icon to begin
   video playback.

3. Touch ( ) (**Play**) to begin video playback.
   – or –

   Touch and hold the video icon from the main Gallery to
   select the video (indicated by a colored border) and
   display the following video menu context options:

   • **Share via** : allows you to share the video via ChatON,
     Add to Dropbox, Bluetooth, Email, Gmail, Google+, Messaging,
     Picasa, Wi-Fi Direct, or YouTube.

   • **Delete** : allows you to delete the current video.
     Choose either OK or Cancel.

   – or –

Touch and hold a listed video file to place a checkmark alongside and then press ▭ for additional options:

– **Slideshow**: allows you to see your files in a slideshow or access the slideshow settings.
– **Copy**: allows you to create a duplicate of the currently selected file.
– **Move**: allows you to move a selected file to a new location.
– **Hide items**: allows you to hide selected items.
– **Show hidden items**: allows you to show selected items that were previously hidden.
– **Rename**: allows you to rename the filename of the currently selected video.
– **Details**: displays video file information.

– or –

With the video displayed on-screen (but not playing), press ▭ for additional options:

– **Favorite**: tags the current video as a favorite file.
– **Slideshow**: allows you to see your files in a slideshow or access the slideshow settings.

– **Rename**: allows you to rename the filename of the currently selected video.
– **Details**: displays video file information.
– **Settings**: provide access to the Galley settings page. From this page you can configure the SNS data management, Tags, and Sound & shot.

Sharing Pictures

Pictures are the best way of remembering the moment, but an even better treat is to share them with others.

Two new features allow you to either instantly share a series of pictures as they are taken or quickly share a picture without using email or messaging.

• **Share Shot** is a great way to instantly share a series of pictures among a group of users. The best example for this feature is having multiple users instantly sharing each others pictures at a company or family gathering. As each person takes a separate picture with their own device, they are all pooled together and instantly appear in each user's Gallery.

No more "Email your pictures to me later". Each person walks out of the event with all the pictures taken by everyone.

This method of image transfer requires that both devices have Wi-Fi Direct active and be paired prior to use.

Note: You can only share a shot with other external users who also have their Wi-Fi Direct feature active.

Enabling Share Shot

Share shot is a Wi-Fi Direct group sharing feature where multiple users can Wi-Fi connect their devices and then all share each others pictures in real-time. This is really useful in group events (ex: family gathering or company party) where you don't want to have to email everyone later and make sure you all can share your pics at a later date.

For more information, refer to *"Wi-Fi Direct Setup and Settings"* on page 247

The general process is:

- • Enable Wi-Fi Direct communication
- • Pair your device with other users
- • Enable Share shot

To enable Wi-Fi Direct:

Important! The target device must already be connected to the same Wi-Fi and have its Wi-Fi Direct feature active and scanning before you can your pairing.

1. From the Home screen, touch ▤ **Menu →** ⚙ **Settings → Connections** tab.

2. Touch and slide the **Wi-Fi** slider to the right to turn it on. The slider color indicates the activation status.

3. Touch **Wi-Fi Direct**.

4. Touch **Scan** and select the single device name to begin the connection process to another Wi-Fi Direct compatible device.

– or –

Touch **Multi-connect ➔ Scan** and select all the device names to begin the connection process to these Wi-Fi Direct compatible devices.

Note: The target device must also have Wi-Fi Direct service active and running before it can be detected by your device.

5. Touch **Done**. The direct connection is then established. Confirm 📶 appears in the Status bar.

6. When prompted to complete the connection, the recipient should touch **OK**. Your status field now reads "Connected" and your connected device is listed within the Wi-Fi Direct devices listing.

7. Each partner (including yourself) must then touch **Accept** to consent to the new Wi-Fi Direct pairing.

To enable Share shot on Camera:

1. From the Home screen, touch ▤ **Menu ➔** ▦ **Apps ➔** 📷 **Camera ➔** ⚙ **Quick Settings ➔** ⤙_{OFF} **Share ➔** 🔗 **Share shot**.

2. If you are prompted to activate your Wi-Fi Direct connection, touch **OK** and follow the activation procedures for Wi-Fi Direct.

To configure your Share Shot options:

1. Confirm the Share Shot viewfinder is active (appears at the top of the screen).
2. Touch (**Devices for sharing with**) to display list of current share shot participants.
   • Stop sharing images with select participants by touching the entry and removing the green check mark.
3. Touch (**Shooting modes**) to regain access to the Share menu.
4. Touch → **Off** to disable share shot while maintaining a Wi-Fi Direct connection.

To take share shot images:

1. Touch (**Camera**) until the shutter sounds.
2. From the Home screen, touch **Apps** → (**Gallery**) to locate your newly shot images located in their default storage location.
   • External users will be able to locate their images in either a downloaded or **RECV** (received) folder.
3. Confirm (**Share shot images delivered/received**) appears in the Notifications area of the screen.

Using S Beam to Share Pictures

This feature (when activated via NFC) allows you to beam large files directly to another compatible device that is in direct contact. These files can be larger, such as Videos, HD pictures, and other large files.You can beam images and videos from your gallery, music files from your music player, and more.

1. From the Home screen, touch **Menu** → **Settings** → **Connections** tab.
2. If not already active, in a single motion touch and slide the **NFC** slider to the right to turn it on.
3. Touch **S Beam** and make sure the feature is turned on.
4. If not already active, in a single motion touch and slide the **S Beam** slider to the right to turn it on.
5. On the source device (containing the desired image or video), touch **Apps** → **Gallery**.
6. Locate and touch the selected image to open it in the preview window.

Important! Neither device must be in Lock mode or displaying the Lock screen. They must both be active and unlocked. It is recommended that the target device be on the Home screen.

7. Place the two active NFC-enabled devices back to back to begin.

Note: If the **Touch to beam** screen does not appear on the source device:
- Pull them apart
- Verify the image is visible in the preview window on the source device (providing the file)
- Place them together again

8. From the **Touch to beam** screen, touch the reduced image preview to begin the transfer. After a few seconds (depending on file size) the recipient with then see the transferred file displayed on their screen.

Taking a Screen Shot

Also known as a screen capture, this feature allows you to mimic the print screen function on most computers.

1. From the Home screen, touch ▭ **Menu →** ⚙ **Settings →** 🖳 **My device** tab → **Motions and gestures**.

2. In a single motion touch and slide the **Palm motion** slider to the right to turn it on.

3. Read the on-screen notification and touch **OK**.

Note: At least one feature must be activated before Palm motion can be activated.

4. In a single motion, slide a feature's activation slider to the on position.

5. With the current screen showing the desired image, in a single motion, place the side of your palm along the one side of the device and then slowly swipe it in the opposite direction over the screen.

ChatON

Provides a global service where you can chat with more than 2 buddies using a group chat. Share things such as pictures, videos, animation messages (Scribbles), audio, Contacts, Calendar entries, and Location information.

Important! Your Samsung account manages the access information (username/password) to several applications, such as AllShare Play, ChatON, and Media Hub.

(For more information, visit: https://web.samsungchaton.com and see *"Accounts"* on page 50.)

■ From the Home screen, touch **☰ Menu** → **▦ Apps** → **ⓒ ChatON**.

Chrome

■ From the Home screen, touch **☰ Menu** → **▦ Apps** → **◉ 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 displays, and what outputs are active, when you connect your phone to an optional dock.

■ From the Home screen, touch **☰ Menu** → **▦ Apps** → **🕙 Clock**.

Alarm

This feature lets you set an alarm to ring at a specific time.

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ◴ **Clock** → **Alarm** → **Create alarm**. The following options are available:

2. Use the arrow symbols to enter adjust the hour, and minutes, then touch **AM** or **PM** (toggles depending on which was last selected).

3. Touch the **Alarm repeat** field and touch the number of times you want this alarm to repeat. Selections are: day blocks or **Repeat Weekly**. Selected day blocks turn blue when active.

4. Tap the **Alarm type** field and select one of the following: **Melody**, **Vibration**, **Vibration and melody**, or **Briefing**.

5. Tap the **Alarm tone** field and either select an available tone or select **Add** to use locate a sound to use as an alarm ringtone. Tap **OK** to activate the ringtone.

6. Slide the slider bar left or right in the **Alarm volume** field to decrease or increase the alarm volume. A sample of the volume level plays.

7. Touch the slider next to one of the following options to activate the option:

   • **Location alarm**: When activated, the alarm only sounds when you are at a specific location. Touch and slide the slider to the right to turn it on ▭ ON then follow the on-screen instructions to enter a location.

   • **Snooze**: Use this option to set Snooze Interval (3, 5, 10, 15, or 30 Minutes) and Snooze repeat (1, 2, 3, 5, or 10 Times). Touch the ON/OFF slider to activate.

   • **Smart alarm**: Tracks body movements and calculates the best time for sounding the alarm. Place the phone somewhere on your bed then the phone's movement sensor (also known as accelerometer) is sensitive enough to work from any part of the bed. Set the Interval and the Tone. Touch the ON/OFF slider to activate.

8. Touch **Name** to set a specific name for the alarm. The name displays on the screen when the alarm activates.

Turning Off an Alarm

■ Touch and slide ⊗ ▸▸▸ any direction to stop an alarm when it sounds.

Setting the Snooze Feature

■ To activate the Snooze feature after an alarm sounds, touch and sweep the ◂◂◂ (zz) icon in any direction. Snooze must first be set in the Alarm settings. (For more information, refer to *"Alarm"* on page 104.)

Deleting Alarms

To delete multiple alarms, follow these steps:

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ⊘ **Clock** → **Alarm**.

2. Touch ▤ **Menu** → **Delete**.

World Clock

World Clock allows you to view the time of day or night in other parts of the world. World Clock displays time in hundreds of different cities, within all 24 time zones around the world.

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ⊘ **Clock** → **World Clock**. The clock for your time zone displays.

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2. Touch **Add city** to add another city to the World Clock.

3. Scroll through the list of cities to find the city to add, then touch the city name.

4. Press and hold a city, then touch **DST settings** to set Daylight Savings time.

5. Select **Automatic**, **Off**, or **1 hour**.

6. If Daylight Savings Time is selected, a sun symbol on the World Clock listing displays.

Stopwatch

You can use this option to measure intervals of time.

1. From the Clock screen, touch **Stopwatch**.

2. Touch **Start** to start the stopwatch and touch **Lap** to mark a unit of time per lap.

3. Touch **Stop** to stop the stopwatch.

4. Touch **Restart** to continue or touch **Reset** to erase all times recorded.

Timer

You can use this option to set a countdown timer. Use a timer to count down to an event based on a preset time length (hours, minutes, and seconds).

1. From the Home screen, touch ▭ **Menu** → ▦▦ **Apps** → ⏱ **Clock** → **Timer**.

2. Tap the **Hours**, **Minutes**, or **Seconds** field and use the on-screen keypad to enter the hour, minute, or seconds. The timer plays an alarm at the end of the countdown.

3. Tap **Start** to start the timer.

4. Tap **Stop** to stop the timer or **Reset** to reset the timer and start over.

5. Tap **Restart** to resume the timer counter.

Desk clock

You can use the Desk clock when you have a desk dock and you want your phone to display the time, day, date, location, and weather conditions when it is docked.

1. From the Home screen, touch ▭ **Menu** → ▦▦ **Apps** → ⏱ **Clock** → **Desk clock**.

   The default Desk clock displays.

Note: You might have to scroll across the tabs to locate the Desk clock tab at the far right.

2. Press ▭ **Menu** ➔ **Settings** to make changes. The following options are displayed while in full-screen mode:

   • **Calendar**: when this is checked, the calendar displays. Tap to uncheck.

   • **Weather**: when this is activated, the location, temperature, and weather condition displays. Touch and slide the slider to the right to turn it on.

   • **Dock**: allows you to set your Dock settings such as Dock sound, Audio output mode, Desk home screen display, Automatic unlock, and Audio output. For more information, refer to *"Accessory"* on page 282

3. Tap ⊞ to display the Desk clock in full-screen mode.

4. To make changes in full screen mode, press ▭ **Menu** and then touch:

   • **Edit shortcuts**: allows you to edit the shortcuts shown at the bottom of full screen mode.

   • **Hide/Show shortcuts**: allows you to hide or view the current on-screen shortcuts located along the bottom of the full screen mode.

   • **Settings**: provides access to the Desk clock settings menu from where you can alter the following: Hide status bar, Wallpaper, Calendar, Weather, and Dock.

Contacts

Contacts lets you access and manage your Contacts list, Contacts Groups, Favorites list, and Speed dial settings (see *"Contacts"* on page 53).

■ From the Home screen, touch ▭ **Menu** ➔ ▦ **Apps** ➔ 👤 **Contacts**.

For more information, refer to *"Accounts and Contacts"* on page 50.

Cricket Navigator

Subscribe to Cricket Navigator to access GPS navigation information with maps and traffic information. Find local places of interest, weather, and fuel prices. (For more information, go to http://www.mycricket.com/support/topic/how-to-use-cricket-navigator.)

■ From the Home screen, touch ▭ **Menu** ➔ ▦ **Apps** ➔ 🧭 **Cricket Navigator**.

Shop

Shop gives you secure, direct access to your Wireless Provider's web site where you can shop for games, ringback tones, ringtones, and graphics.

Note: If you are connected to a Wi-Fi network, Shop requires you to log in for access. If you use your Wireless Provider's data network, you are automatically logged in.

■ From the Home screen, touch ▭ **Menu** → ⊞ **Apps** → 🛒 **Shop**.

Cricket Data Connect

Data Connection Optimizer is a free service that runs in the background to automatically connect your phone to Wi-Fi hotspots.

■ From the Home screen, touch ▭ **Menu** → ⊞ **Apps** → ◉ **Data Connect**.

Downloads

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

1. From the Home screen, touch ▭ **Menu** → ⊞ **Apps** → ⬇ **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**.

Dropbox

Dropbox is a "cloud" file storage service. The Dropbox app lets you create an account with Dropbox or link with your existing Dropbox account. (For more information, refer to https://www.dropbox.com/.)

■ From the Home screen, touch ▭ **Menu** → ⊞ **Apps** → 📦 **Dropbox**.

Email

Send and receive email using popular email services. (For more information, see *"Email"* on page 82.)

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

(For more information, go to http://flipboard.com/.)

1. From the Home screen, touch **Menu** → **Apps** → **Flipboard**.

2. Touch **Get started**, select some on-screen categories and touch **Done** to create a new profile.

   – or –

   Touch **Tap to sign in** to log into your previously created profile.

3. Follow the on-screen instructions.

Gallery

The Gallery is where you can view your photos and videos. You can also perform basic editing tasks, view your photos and/or videos as a slideshow, set photos as wallpaper or as contact images, and share your pictures and videos in multimedia messages.

Note: You can increase Gallery photo and video storage by installing a memory card. (For more information, refer to *"Installing a Memory Card"* on page 7.)

Tip: If your device indicates that memory is full when you access Gallery, use the **My files** app to delete some of the files, and try again. (For more information, refer to *"My Files"* on page 123.)

1. From the Home screen, touch **Menu** → **Apps** → **Gallery**.

   All of the **Albums** that hold your pictures and videos display with folder name(s) and number of files.

2. Touch an Album and thumbnails of the contents display.

3. Touch [icon] to change the Gallery view. The following options are available:

- **Albums**: Lists the Albums in your Gallery.
- **All**: Shows thumbnails of all the photos and videos in your Gallery.
- **Time**: Lists photo and video thumbnails in order of when they were take or recorded.
- **Locations**: Launches Maps app to show where all your photos and videos saved with location information were taken.
- **People**: Lets you take pictures and tag the people in them.
- **Favorites**: Lists thumbnails of photos and videos you've marked as your favorites.
- **Spiral**: Shows photo and video thumbnails in a spiral.

4. For additional options, touch [icon] **Menu**.

- **Select album**: Lets you mark an Album to Share it, attach it to a Message, Delete it, or view it as a Slideshow.
- **Slideshow**: View photo and video thumbnails as a slide show.
- **Content to display**: Choose whether to display All content, Content in your device, Content in your Dropbox account, Content in your Facebook account, and/or Content in your Picasa account.
- **Scan for nearby devices**: Scan for other devices with which you can share your Gallery contents.
- **Settings**: Configure your Accounts Sync settings, choose whether to sync pictures and videos only over a Wi-Fi connection, and/or configure Tags to include Weather information, Location information, Person information, Date information, and/or Face tag information.
- **Help**: View explanations of Gallery functions.

Viewing Pictures

1. From the Home screen, touch ▤ **Menu** ➔ ▦▦ **Apps** ➔ ☒ **Gallery**.

2. Select an album, then touch a picture to view it.

3. While viewing a picture, touch on the screen for options:

   • Touch ☒ **Gallery** to return to the album view.

   • Touch ▦ **Change player** to share this picture with Group Play.

   • Touch ◁ **Share** to send the picture using ChatON, Group Play, Bluetooth, Dropbox, Email, Flipboard, Gmail, Google+, Messaging, Picasa, S Memo, or Wi-Fi Direct.

   • Touch ▥ **Delete** to erase the picture.

   • Touch ▣ **Camera** to take additional pictures or videos.

   • Touch ▤ **Menu** for the following additional options:

   – **Edit**: Launches photo editor to Rotate, Crop, adjust the Color balance, apply a selected color Effect, apply a selected Portrait effect, Sticker, Drawing, or Frame.

   – **Favorite**: Add your photo as a favorite.

   – **Slideshow**: View all of your pictures as a slideshow.

   – **Photo frame**: Add a selected frame to your photo.

– **Photo note**: Add text note(s) to the 'back' of your photo.

– **Copy to clipboard**: Copy the picture to your device's clipboard memory for pasting into messages, notes, and so on.

– **Print**: Print the picture to a printer connected to your device over the same Wi-Fi hotspot, using Wi-Fi Direct, or using a USB connection.

– **Rename**: Change the picture's file name.

– **Buddy photo share**: Send the picture to the Contacts whose Contact photos match faces in the picture.

– **Rotate left / Rotate right**: Change the picture's orientation.

– **Crop**: Change the picture's size and/or remove portions of the picture.

– **Detect text**: Launches Optical Reader to recognize text in a photo. You can Share the resulting text.

– **Set as**: Assign the picture as a Contact photo, or as wallpaper.

– **Details**: View information about the picture.

– **Settings**: Configure your Accounts Sync settings, choose whether to sync pictures and videos only over a Wi-Fi connection, and/or configure Tags to include Weather information, Location information, Person information, Date information, and/or Face tag information.

Editing a Photo

You can edit your photos using the built-in Photo editor application on your device. The photo editor application provides basic editing functions for pictures that you take on your phone. Along with basic image tuning like brightness, contrast, and color it also provides a wide variety of effects used for editing the picture.

1. From the Home screen, touch ▦▦▦ **Apps** ➔ ⬙ **Gallery**.

2. Select a folder location and touch a file to open it.

3. With the image displayed, press ▭ and then touch **Edit**.

   • **Edit**: allows you to edit the current image. Launches the Photo Editor application.

Note: To select the picture area, touch and hold the current picture.

4. Select an image area by touching and holding the image and then selecting an available option:

   • **Selection mode**: provides several on-screen selection options such as: Select area, Inverse selection, Selection size, and Selection mode (Magnetic, Lasso, Brush, Round, and Square), Select all, and Clipboard.

   • **Select all**: select the entire area of the current image.

   • **Clipboard**: copies the currently selected are to your device's clipboard.

5. Use the following editor controls to edit your picture:

   � **Previous**: lets you undo the current operation.

   ↻ **Next**: lets you redo the previous operation.

   ✕ **Cancel/Delete**: exits the current photo editing session.

   ▤ **Save**: stores the currently edited photo.

Rotate: allows you to rotate a photo in all 4 directions. You can also mirror image a photo.

Crop: allows you to crop (cut-out) an area of a photo.

Color: allows you to Auto adjust color, Brightness, Contrast, Saturation, Adjust RGB, Temperature, Exposure, and Hue of a photo.

Effects: allows you to add various effects to your photo.

Portrait: allows you to apply various face correction effects such as: Red-eye fix, Airbrush face, Face brightness, Out-of-focus, Beauty face, Face reshaping, or Spot healing.

Sticker: allows you to place various pre-created on-screen stickers atop your current image.

Drawing: allows you to add draw directly on your current picture by using either a brush/pen or eraser.

Frame: places a pre-created border style atop your current image.

6. Press ▭ to access the following options:

• **Save as**: allows you to rename your current image and save it to your gallery.

• **Select image**: allows you to select a new image for editing.

• **Take picture**: allows you to activate the camera and take a new image for editing.

• **Share via**: allows you to share your saved photo via Add to Dropbox, Bluetooth, ChatON, Email, Flipboard, Gmail, Google+, Group Play, Hangouts, Messaging, Picasa, S Memo, or Wi-Fi Direct.

• **Set as**: assigns the currently saved image as either a: Contact photo, Home and lock screens, Home screen, or Lock screen.

Viewing Videos

1. From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps** ➔ ▨ **Gallery**.

2. Select an album. A matrix or list of available videos displays.

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

4. While viewing a video, touch on the screen for options:

   • Touch ▨ **Gallery** to return to the album view.

   • Touch ≤ **Share** to send the picture using ChatON, Bluetooth, Dropbox, Email, Gmail, Google+, Messaging, Picasa, Wi-Fi Direct, or YouTube.

   • Touch ✄ **Trim** to remove selected frames from the video.

   • Touch 🗑 **Delete** to erase the picture.

   • Touch ▤ **Menu** for the following additional options:

   – **Favorite**: Add this video to your Favorites.

   – **Rename**: Change the video's filename.

   – **Scan for nearby devices**: Scan for in-range devices that can be connected with and sent the current image.

   – **Details**: View information about the video.

   – **Settings**: Select an Account for synchronization, enable/disable Sync only via Wi-Fi, turn Tag Buddy ON or OFF; and/or enable/disable Face tag.

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 148.)

Gmail

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

(For more information, see *"Gmail"* on page 83.)

■ From the Home screen, touch ▤ **Menu** ➔ ▦ **Apps** ➔ ▨ **Gmail**.

Google

Use Google to search the Web.

Tip: The Google Search Widget is available by default on the Home screen. (For more information, see *"Adding Widgets to the Home screen"* on page 40.)

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1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → **⑧ Google**.

2. Enter search criteria. Search results display automatically. Touch a search result to display it in a browser window.

Google Settings

Google Settings lets you quickly and easily change shared settings to tailor a number of Google apps at the same time to suit your needs.

■ From the Home screen, touch ▤ **Menu** → ▦ **Apps** → **⑧° Google Settings**.

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 Home screen, touch ▤ **Menu** → ▦ **Apps** → **g+ Google+**.

Group Play

Using Group Play, you can share documents or photos you are viewing, or music you are listening to, with other devices connected to the same Wi-Fi network with your device.

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → **▤ Group Play**. The **Welcome to Group Play!** screen displays.

2. Touch **Next** for Group Play instructions.

Hangouts

Previously known as Google Talk™, is an updated free web-based application for instant messaging offered by Google. Conversation logs are automatically saved to a Chats area in your Gmail account. This allows you to search a chat log and store them in your Gmail accounts.

Note: You must sign up for and log in to a Gmail account before using this application.

■ From the Home screen, touch ▭ **Menu → ▦ Apps → 💬 Hangouts**.

Help

Use Help to read or view brief instructions or videos on how to use the features and settings available with your phone.

1. From the Home screen, touch ▭ **Menu → ▦ Apps → ❓ Help**.

   The **Help** screen displays.

2. Select a topic from the menu.

3. Read or view the selected topic information.

Internet

Your phone is equipped with a full HTML Browser, which lets you browse web sites on the internet.

Tip: Internet displays as a Primary Shortcut on the Home screen. (For more information, refer to *"Primary Shortcuts"* on page 39.)

■ From the Home screen, touch ▭ **Menu → ▦ Apps → 🌐 Internet**. Your Wireless Provider's mobile home page displays in the Internet screen.

Knox

Samsung KNOX is a comprehensive enterprise mobile solution for use with both work and play. With the increasing use of smartphones in businesses, Samsung KNOX addresses the mobile security needs of enterprise IT without invading the privacy of its employees. This application must be downloaded to the device before use.

For more information, go to: www.samsung.com/knox.

1. From the Home screen, touch ▦ **Apps → 🛡 KNOX**.

2. Tap **Install** and read the on-screen Terms and Conditions, agree to the terms and touch **Confirm**.

3. Follow the prompts.

Maps

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

Note: You must enable location services to use Maps, and some features require Standalone or Google location services. (For more information, see *"Location services"* on page 202.)

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → 🗺 **Maps**.

2. For more information, touch ▤ **Menu** → **Help**.

Messaging

Messaging lets you exchange text and multimedia messages with compatible device users. (For more information, refer to *"Messaging"* on page 77.)

■ From the Home screen, touch the ✉ **Messaging** shortcut.

– or –

From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ✉ **Messaging**.

Mobile Web

Mobile Web gives you secure, direct access to your Wireless Provider's portal web site to purchase content, access Mobile Web services, and review your account information.

Note: If you are connected to a Wi-Fi network, Mobile Web requires you to log in for access. If you use your Wireless Provider's data network, you are automatically logged in.

1. From the Home screen, touch ▭ **Menu** ➔ ▦ **Apps** ➔ 🌐 **Mobile Web**.

2. Follow the prompts to log in to your Mobile Web account.

Music

Music is an application that can play music files. Music supports files with extensions AAC, AAC+, eAAC+, MP3, WMA, 3GP, MP4, and M4A. Using Music you can navigate through your music library, play songs, and create playlists.

Categories — Song — Shuffle — Album Graphic — Playback Controls

Playing Music

1. From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🎵 **Music**. Music's **Songs** screen displays.

2. If desired, touch another music category tab at the top of the screen (Songs, 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.

Tip: When you return to the Home scree, Music playback continues in the background. Playback controls are available on the Notifications panel. (For more information, see *"Notifications"* on page 32.)

Music full-screen player

Music provides a full-screen player that allows you more control over your music playback.

1. From a Music listing screen (Songs/Playlists/Albums/Artists/Folders), touch a song to begin playback.

2. Touch the song's album graphic to launch the full-screen player.

Volume

Shuffle

Repeat
Favorite

Playback Controls

Music playback controls

■ Use any of the following Music player controls:

🔘 Pause the song.

▶️ Start the song after pausing.

⏮️ Press and hold to rewind the song. Tap to go to previous song.

⏭️ Press and hold to fast-forward the song. Tap to go to next song.

🔊 Volume control and SoundAlive.

🔇 Volume control showing volume muted.

🅰️ Plays the entire song list once.

🔁 Replays the current list when the list ends.

🔂 Repeats the currently playing song.

🔀 Shuffles the current list of songs randomly.

Songs play in order and are not shuffled.

Lists the current playlist songs.

˅ Returns the user to the music category screen.

⭐ Assign the current song as a Favorite.

📲 Streams the current music file to another device via Samsung Link.

To access additional options, follow these steps:

■ From a Music player screen, touch ▤ **Menu**. The follow options are available:

• **Via Bluetooth**: Scans for devices and pairs with a Bluetooth headset.

• **Delete**: Allows you to delete songs or albums.

• **Search**: Search the phone for music files.

• **Scan for nearby devices**: Search for nearby Wi-Fi devices for sharing your music (available when Wi-Fi is turned On). (For more information, refer to *"Turning Wi-Fi On"* on page 138.)

• **Settings**: Change your Music Player settings. For more information, refer to *"Music Player Settings"* on page 121.

• **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.

1. From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🎵 **Music**.
2. Touch a music file to play back.
3. While in Music playback, touch ▭ **Menu** → **Settings**. The follow settings are available:

    • **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.

    • **SoundAlive**: Set a type of equalization such as Normal, Pop, Rock, Jazz, Dance, Classic, etc.

    • **Adapt Sound**: Adjust the sound playback characteristics to match your headphones.

    • **Play speed**: Set the play speed anywhere between 0.5X and 2.0X using the slider.

    • **Music auto off**: When activated, music will automatically turn off after a set interval.

    • **Lyrics**: When activated, the lyrics of the song are displayed if available.

    • **Smart volume**: When enabled, automatically adjusts volume of each track to a common level.

    • **Voice control**: When enabled, you can use voice commands to control music playback.

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 via either the handset's Music Player options menu or from within a 3rd party music application (such as Windows Media Player) and then downloaded to the handset.

Creating a Playlist

1. From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🎵 **Music**.
2. Touch the **Playlists** tab.
3. Touch ▭ **Menu** → **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 Home screen, touch ▤ **Menu** → ⊞ **Apps**
   → ▶ **Music**.
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 Home screen, touch ▤ **Menu** → ⊞ **Apps**
   → ▶ **Music Player**.
2. Touch the **Playlists** tab.
3. Touch the playlist name in which to delete music.
4. Touch ▤ **Menu** → **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 Home screen, touch ▤ **Menu** → ⊞ **Apps**
   → ▶ **Music Player**.
2. Touch **Playlists**.
3. Touch ▤ **Menu** → **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 143.

Setting a Song as Options

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

- While in Music playback, touch ▤ **Menu** → **Set as** and choose from these options:
  - **From the beginning**: When enabled, your ringtone plays from the beginning.

- **Auto recommendations**: When enabled, only the best part of your ringtone plays.

- **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.

Muve Music

Create playlists, Ringtones and more, and edit them all right on the phone. Browse or download playlists and share music with your friends.

Songs are stored locally on your phone or memory card.

1. From the Home screen, touch ▤ **Menu** → ▦▦ **Apps** → 🎵 **Muve Music**.

2. Touch Accept to accept Google's terms of service.

3. Touch a category to get started and follow the prompts.

My Account

My Account gives you direct access to your wireless account. (For more information, go to http://www.mycricket.com/community/videos/list/How-To:-My-Account.)

1. From the Home screen, touch ▤ **Menu** → ▦▦ **Apps** → 💰 **My Account**.

2. Follow the prompts to sign in to your account.

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 Home screen, touch ▤ **Menu** → ▦▦ **Apps** → 📁 **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. Use these controls while browsing files:

   - Touch 🏠 **Home** to go back to the root directory.

   - Touch ⬆ **Up** to go back up to a higher directory.

   - Touch ▤ **Menu** for options.

My Backup

This is a fast and secure way to automatically back u all of your phone's important contact information. Access mybackup.mycricket.com to view and edit all of your contacts any time.

1. From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🔵 **My Backup**.

2. Follow the prompts to backup contacts.

Optical Reader

Use Optical Reader to scan printed text into a Note.

■ From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🔴 **Optical Reader**.

Phone

The Phone application allows you to access the dialer keypad, call logs, and favorites. (For more information, refer to *"Calling"* on page 62.)

■ From a Home screen, touch the 📞 **Phone** shortcut.

– or –

From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 📞 **Phone**.

Play Books

Google Books is now Google Play™ Books. Discovering your favorite books and authors has never been easier. With Google Play Books, you can shop the world's largest selection of ebooks and read them anywhere you like - on a tablet, phone, ereader, or the Web.

■ From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 📘 **Play Books**.

Play Games

This application takes you directly to the Play Store Games area from where you can make purchases.

■ From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 🎮 **Play Games**.

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.

■ From the Home screen, touch ▭ **Menu** → ▦ **Apps** → 📰 **Play Magazines**.

Play Movies & TV

With Google Play Movies, you can rent thousands of different movies. You can watch instantly, or download your movie for offline viewing at a later time.

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ▦ **Play Movies & TV**.

2. Log on to your Google account if you have not already done so.

3. Following the on-screen instructions for renting and viewing movies.

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 Home screen, touch ▤ **Menu** → ▦ **Apps** → ▦ **Play Music**.

2. Follow the on-screen instructions to locate and play music.

Play Store

Android Market is now Google Play™ Store, where all your favorite books, movies, apps, and games are all in one place that's accessible from the Web and your Android device. You'll need to have a Google account set up on your phone to download a new application.

1. From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ▦ **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.

Polaris Office 5.0

■ From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ▦ **Polaris Office 5.0**.

S Health

■ From the Home screen, touch ▤ **Menu** → ▦ **Apps** → ▦ **S Health**.

S Memo

The S Memo application allows you to create memos using the keypad, your finger, or both. You can add images, handwriting, voice recordings, and typewritten text all in one place.

1. From the Home screen, touch **Menu** → **Apps** → **S Memo**.
2. Touch **Menu** → **Help** to learn more about S Memo.

S Translator

Use S Translator to translate text speech composed of any of 9 written or spoken languages to or from UK English or US English.

■ From the Home screen, touch **Menu** → **Apps** → **S Translator**.

S Voice

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

1. From the Home screen, touch **Menu** → **Apps** → **S Voice**.

   – or –

   From the Home screen, press **Home** twice in quick succession.
2. Read and respond to the prompts.
3. Say "Hi Galaxy" to wake up S voice.
4. Speak the command into the phone and follow the on-screen instructions.

Samsung Apps

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

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

Samsung Hub

Browse and purchase Music, Video, Books, or Games using Samsung Hub.

Samsung Hub Notices

Any media item (Media Content) may be rented or purchased after you create an account in Samsung Hub.

You must have an active Samsung Account to purchase and rent content via Samsung Hub.

- Media Content that is purchased and downloaded may be viewed concurrently on up to five (5) devices with Samsung Hub (or "the service") that are also registered to the same account.
- You may remove a device from your account no more than once every 90 days.
- You may remove Media Content from a device as many times as you'd like. You will have the ability to re-download the Media Content later subject to content re-download availability and content provider permissions.
- You may need network coverage to access Media Content you have acquired through the Service.
- You can use 3G, 4G, or Wi-Fi connectivity to download Media Content.

- Unlike purchased Media Content, rented Media Content will be viewable on only 1 device in your account at a time.
- Media Content is downloaded and saved to your authorized device's SD card. No SD Card included out of box.
- Your Media Content may pause/stop or not download in networks where there is a weak signal.
- You may begin watching downloaded Media Content as soon as a) license acquisition has occurred and b) sufficient amount of the Media Content has been buffered.
- You must finish watching Media Content within the time limit set out for each piece of content (which may be as short as 24 consecutive hours).
- Stopping, pausing or restarting rented Media Content does not extend the available viewing time.

- In no event will rented Media Content be available for a period of more than thirty (30) days (or shorter on a title-by-title basis) after the Media Content has been rented (e.g., if you begin viewing rented Media Content on the 29th day after the rental transaction, but do not finish viewing the entire title, that rented Media Content may not be available for the entire twenty-four (24) consecutive hour period if such period would extend the viewable time beyond the thirty (30) day rental window).
- Unless otherwise restricted by the Content Providers, you can download Media Content to your TV using HDMI connections; otherwise, you cannot play Media Content downloaded from your mobile device output.

1. From the **Apps** screen, touch **Samsung Hub**.
2. Select Music, Video, Books, or Games from the Samsung Hub screen.
3. Select from the following available pages:
   - **MUSIC**: displays featured Music content available for purchase/ stream from the Music store & Radio. This page also allows you to search for new content, or navigate directly to the Music store page by clicking on the "Music" link at the top of the page.

- **MOVIES**: displays featured film and TV content available for purchase/rent from the video store. This page also allows you to search for new content, or navigate directly to the Movie & TV store page by clicking the "Video" link a the top of the page.

- **BOOKS**: displays featured Book content available for purchase from the Book store. This page also allows you to search for new content, or navigate directly to the Book store page by clicking the "Books" link a the top of the page.

- **GAMES**: displays featured Game content available from the Game store. This page also allows you to search for new content, or navigate directly to the Game store page by clicking the "Games" link a the top of the page.

4. Tap on content to purchase or view featured content in detail.

5. Purchase, rent, or stream the content directly from the product detail page, depending on the content.

6. Choose a payment method and follow the prompts.

7. Press ▭ **Menu** ➔ **Help** for more information.

Samsung Link

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

1. From the Home screen, touch ▭ **Menu** ➔ ▦ **Apps** ➔ 🔵 **Samsung Link**.

2. Touch **Sign in** to sign in to Samsung Link.

3. Touch **Sign in** again and sign in to your Samsung account.

4. Follow the on-screen instructions.

Settings

Configure your phone to your preferences. For more information, see *"Settings"* on page 151.

■ From the Home screen, touch ▭ **Menu** ➔ ▦ **Apps** ➔ ⚙ **Settings**.

Story Album

Create an album with your story on one timeline.

■ From the Home screen, touch ▭ **Menu** ➔ ▦ **Apps** ➔ 🖼 **Story Album**.

TripAdvisor

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

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

■ From the Home screen, touch **Menu** → **Apps** → **TripAdvisor**.

Video

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

1. From the Home screen, touch **Menu** → **Apps** → **Video**.

2. Select a video from those listed, if any. (For information on downloading videos from Samsung Hub, see *"Samsung Hub"* on page 127.)

3. Touch **Menu** for additional options.

Voice Recorder

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

■ From the Home screen, touch **Menu** → **Apps** → **Voice Recorder**.

Voice Search

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

■ From the Home screen, touch **Menu** → **Apps** → **Voice Search**.

VPN Client

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

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

WatchON

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

Important! Before initiating use, verify you have an active Internet connection available (either mobile network or Wi-Fi connection).

For more information, refer to www.samsungwatchon.com.

1. Turn off your television.
2. From the Home screen, touch **Menu** → **Apps** → **WatchON**.
3. Connect to a Wi-Fi connection. For more information, refer to *"Wi-Fi"* on page 138.

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4. Configure these options:
   • **Select a country** and touch **Next**.
   • **Enter your zip code**: The zip code must match your current location. Touch **Done**.
5. Select a service provider from the **Find your TV service** screen.
6. From the **Personalize** screen, you can either follow the on-screen prompts to personalize your desired content or touch **Skip** to continue without customizing your content.
7. Read the on-screen Peel Disclaimer agreement and touch **Agree** to complete the set up process.

Configure your Device as a Remote

1. Touch 📱 **Remote Control** ➔ **Continue**.

2. Touch **Set up now** at the prompt.

3. Select your TV's manufacturer name from the **Select your TV Brand** screen.

   – or –

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

4. Aim your device at the TV and touch 🔘 **Power** to turn on your TV with the remote.

5. Touch **Yes, this code works** if the TV is turned on.

   – or –

   Touch **No, text next code**, or **Send this code again** if the TV did not turn on.

6. Select your current channel control method:

   • **Set-top Box**: selected when changing channels through a receiver box. Channels are not changed using the TV remote but rather through the receiver/box.

   • **My XXX TV**: selected when a signal is fed directly into the TV without using a box. Channels are changed directly on the TV by using the TV remote.

Note: Try matching your current channel selection method.

7. Select the Satellite Box Brand from the available list. For example, DirectTV®.

8. Touch **Show other brands** if your brand does not display in the list, and follow the displayed instructions.

Important! You must configure your set top box for IR communication with your device. If you do not select **More info** below and follow the on-screen instructions you may not be able to properly use the application.

9. Touch **More info** at the prompt to learn how to configure your set top box to receive and respond to IR controls.

10. If prompted, place a check mark in the **Notification Panel** field and touch **Done**. This allows you to pin a shortcut to your remote on the Notification Panel.

11. Press ⬅ (**Back**).

Note: This IR programming is a one-time process and if successful, you should not be repeated.

12. Follow the displayed instructions (if prompted) to personalize your experience.

YouTube

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

■ From the Home screen, touch ▤ **Menu** → ▦ **Apps** → 📺 **YouTube**.

PEN.UP

This is a social network dedicated to sharing inspiring artworks created by clever people using the S Pen. Join the PEN.UP community through your Samsung, or Facebook account, or just enjoy the various artworks by browsing through the posts and view the artwork.

■ From the Home screen, touch ▤ **Menu** → ▦ **Apps** → △ **PEN.UP**.

Slacker

Slacker offers free, internet radio for mobile phones.

■ From the Home screen, touch ▤ **Menu** → ▦ **Apps** → 🅢 **Slacker**.

Important! You must register and create a free account prior to using this service.

Accessing Widgets

1. Press ☐ **Home**, then Sweep your finger right or left to scroll to a particular Home screen panel.

   – or –

   From the Home screen, touch ☰ **Menu** →
   ▦ **Apps**, then the **Widgets** tab. The **Widgets** screen displays.

   – or –

   Touch and hold on the displayed **Home screen** panel until the Home screen menu pops-up, then touch **Apps and widgets**, then the **Widgets** tab. The **Widgets** screen displays.

2. Sweep your finger right or left to scroll through the Widgets screens and find the desired widget.

3. 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.

4. If needed, follow any prompts to configure the widget.

Widgets List

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

- **Active Apps Manager 1 x 1**: Shows the number of active apps. Touch to launch the Apps Manager **Active applications** screen.
- **Adapt Sound 1 x 1**: Touch to adapt your phone's sound to suit a headset or headphones.
- **Alarm 4 x 1**: Add, view, and manage alarms you set using this widget or using the Clock application.
- **Assistive Light 2 x 1**: Use your phone's flash as a flashlight.
- **Book 1 x 1**: Directly access one of your downloaded electronic books from **Play Books**.
- **Bookmark 1 x 1**: Directly access a selected Internet browser bookmark.
- **Bookmarks 3 x 2**: Directly access any of four selected Internet browser bookmarks.
- **Briefing 4 x 2**: View and directly access events scheduled for today.
- **Calendar 2 x 3** View your Calendar events scheduled for today.
- **Calendar (mini today) 4 x 2**: View and access your Calendar events scheduled for today.

- **Calendar (month) 4 x 4**: View and access your scheduled Calendar events, one month at a time.
- **Clock (digital) 4 x 1**: View a digital clock-calendar.
- **Clock (digital) 2 x 1**: View a digital clock-calendar.
- **Contact 1 x 1**: Directly access a selected contact for calls or messaging.
- **Cricket Navigator 1 x 1**: Directly access directions to a selected destination.
- **Direct Dial 1 x 1**: Immediately call a selected contact.
- **Direct Message 1 x 1**: Immediately send a message to a selected contact.
- **Directions1 x 1**: Immediately obtain directions to a selected location.
- **Dropbox Folder 1 x 1**: Directly access one of your Dropbox folders.
- **Dual clock (digital) 2 x 2**: View digital clock-calendar displays for two selected locations.
- **Email 4 x 4**: View and directly access email messages in your Combined email box.
- **Exercise mate 4 x 1**: Set and track exercise goals with S Health.

- **Flipboard (Medium) 4 x 2**: View a medium image of your Flipboard "magazine".
- **Flipboard (Small) 4 x 1**: View a small image of your Flipboard "magazine".
- **Food tracker 4 x 1**: View your current caloric input today, and access your S Health food intake goal.
- **Gmail 3 x 3**: View and directly access your Gmail messages.
- **Gmail label 1 x 1**: Directly access Gmail messages with a selected Gmail label.
- **Google Now 4 x 4**: View and directly access the current version of your selected navigation, weather, and stock information.
- **Google Play Books 2 x 3**: Directly access your Google books.
- **Google Play Music 4 x 1**: Directly access and play a selected music playbook.
- **Google Search 4 x 1** (transparent background): Perform and manage Internet searches.
- **Google Search 4 x 1** (opaque background): Perform and manage Internet searches.
- **Google+ posts 4 x 2**: View the latest postings from your Circle of Friends.

- **Google+ User Location 4 x 2**: Creates a business page for each location.
- **Messaging 4 x 3**: View and access your latest messages.
- **Music 4 x 1**: Play your music purchased and downloaded from Music.
- **Music playlist 1 x 1**: Play a selected music playlist.
- **Muve Music 4 x 2**: Directly access Muve Music to create playlists, Ringtones and edit them on the phone.
- **Picture frame 2 x 2**: Directly access your photos and images.
- **Play - My Library 4 x 4**: Access your Google content (ebooks, music, magazines, and videos).
- **Play Recommendations 4 x 2**: View recommendations from Google Play Store.
- **Play Store 2 x 2**: View recommendations from and access Google Play Store.
- **S Bookmarks 2 x 2**: View selected bookmarks and directly access the related web sites.
- **S Memo 2 x 2**: View and access a stored memo.
- **Samsung Apps 4 x 4**: View and access recommended apps.

- **Samsung Hub 4 x 4**: View recommendations and directly access Samsung Music, Samsung Video, Samsung Books, and Samsung Games.
- **Samsung Music 4 x 1**: Directly access and play your music.
- **Settings Shortcut 1 x 1**: Directly access selected settings for your phone.
- **Slacker Radio 4 x 1**: Accesses internet radio for mobile phones.
- **Software update 1 x 1**: Directly access your device software status information and access **Software update**.
- **Story Album 4 x 3**: Directly access you albums according to your timeline.
- **Travel 4 x 2**: View travel recommendations.
- **Video 2 x 1**: Directly access and play one or more selected videos.
- **Walking mate 4 x 1**: Track and view how many steps you take each day.
- **Weather 4 x 2**: View current and forecast temperature and weather conditions for a selected location.

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

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 154.)

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.

   – or –

   3. From the Home screen, touch 📰 **Menu** ➔
   ⚙️ **Settings** ➔ 📇 **Connections** tab ➔ **Wi-Fi** OFF .

Turning Wi-Fi Off

   1. From the Home screen, touch 📰 **Menu** ➔
   ⚙️ **Settings** ➔ 📇 **Connections** tab ➔ **Wi-Fi** .

   2. Touch and slide the Wi-Fi slider ON to turn it Off.

Scanning and Connecting to a Wi-Fi Network

1. Turn Wi-Fi on (see *"Turning Wi-Fi On"* on page 138). Your phone scans for available hotspots and pops-up a list of any it finds.
2. To connect to a hotspot, touch it on the pop-up list.
   • If the Wi-Fi network is open, you will be automatically connected.
   • If the Wi-Fi network is secured, enter the password at the prompt to connect.

Adding a Wi-Fi Network Manually

1. From the Home screen, touch ▤ **Menu** → ⚙ **Settings** → 🔳 **Connections** tab → **Wi-Fi**.
2. The **Wi-Fi** options screen displays. (For more information, refer to *"Accessing Settings"* on page 151.)
3. Touch **Wi-Fi** **OFF** to turn on Wi-Fi.
4. Touch **Add Wi-Fi network**, then enter the following values:
   • **Network SSID**: Enter the name of the WAP (Wireless Access Point).
   • **Security**: Select the type of security used by the WAP.

   • **Password**: If the WAP is secured, enter the password or key.
5. Tap **Connect**.

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, some printers support Wi-Fi Direct, and you could print from your phone via Wi-Fi Direct.

Establishing Wi-Fi Direct Connections

1. From the Home screen, touch ▤ **Menu** ➔
   Settings ➔ 🗔 **Connections** tab ➔ **Wi-Fi**.

2. Touch **Wi-Fi Direct**.

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

3. To connect to a single Wi-Fi Direct device, touch its name in the list.

4. To connect to multiple Wi-Fi Direct devices, touch **Multi-connect**, next touch **Select all** or individual devices, then touch **Done**.

Bluetooth

Note: For Hearing Aid Compatibility Information, see page 211.

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 157.

Note: Bluetooth profiles are specifications for services supported by individual devices. For a list of profiles your phone supports, see *"Bluetooth profiles"* on page 156.

Turning Bluetooth On or Off

1. From the Home screen, touch ▭ **Menu** →
   ⚙ **Settings** → 🖵 **Connections** tab.

2. Touch and slide the **Bluetooth** OFF slider to turn it
   On.

   – or –

   From the Home screen, sweep your finger from the top
   of the screen downward to display Notifications.

   • 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. From the Bluetooth settings page, tap the **Visibility** field
   (shown by the device name).
   The device must be visible to pair with an external
   device.

3. Tap **Scan**. Your device displays a list of discovered in-
   range Bluetooth devices.

4. Tap a device from the list to initiate pairing.

5. Enter the passkey or PIN code, if needed, and tap **OK**.

6. The external device must accept the connection and
   enter your device's PIN code.

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.

Enable Downloading for Web Applications

Important! Before you can download a web application you must insert an SD into the phone and enable the **Unknown sources** feature (enables downloading).

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 🔗 **Connections** tab ➔ **More** ➔ **Security** ➔ **Unknown sources** check box.

2. Tap **OK** to allow install of non-Play Store applications. Tap again to remove the check mark and disable the installation of non-Play Store applications.

Warning! Not all web applications are safe to download. In order to protect your phone and data, use the Play Store to install web applications.

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 164.

Accessing a VPN

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 🔗 **Connections** tab ➔ **More networks** ➔ **VPN**.

2. Enter a password for credential storage.

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.

Media device (MTP): allows you to transfer media files in Windows, or using an Android file transfer on a Mac.

Camera (PTP): allows you to transfer photos using the camera software, and transfer any files onto a PC that does not support MTP.

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

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

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 displays on the PC.
2. Open the folder to view files.
3. Copy files from the PC to the memory card.

Tethering

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

1. From the Home screen, touch ▭ **Menu** ➔ **Settings** ➔ 🔲 Connections **Connections** tab ➔ **More networks** ➔ **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen displays.

2. Choose a tethering method:

   • **USB tethering**: Connect the computer to the phone via USB cable, then touch **USB Tethering** to turn tethering On or Off. When On, a check displays in the check box.

   • **Bluetooth tethering**: Pair your phone with the computer via Bluetooth. Consult the computer's documentation for more information about configuring your computer to pair via Bluetooth. Touch **Bluetooth Tethering** to turn tethering On or Off. When On, a check displays in the check box.

   • **Help**: Provides helpful Portable Wi-Fi hotspot, USB tethering, and Bluetooth tethering information.

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

To connect using USB Tethering:

1. From the Home screen, touch ▭ **Menu** ➔ **Settings** ➔ 🔲 Connections **Connections** tab ➔ **More networks** ➔ **Tethering and portable hotspot**.

2. Plug in the USB cable between your computer and your device.

3. Tap **USB tethering** from the Tethering menu. This places a green check mark next to the entry and activates the feature. A Tethering or HotSpot active notification briefly appears on the screen.

4. Read the on-screen notification regarding data use and tap **OK**.

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 161.)

Activating Portable Wi-Fi Hotspot

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

1. From the Home screen, touch **▤ Menu →**
   ⚙ Settings → ▤ Connections tab → More networks → Tethering and portable hotspot.

2. Touch **Portable Wi-Fi Hotspot** **OFF** and follow the prompts to turn Portable Wi-Fi Hotspot On.

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 145.)

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 162.)

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 162.)

Beaming

NFC

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

1. From the Home screen, touch 🔲 **Menu** → ⚙️ **Settings** → ⚏ **Connections** tab.

2. Touch the **NFC** `OFF` slider to enable or disable NFC.

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

Android Beam

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

Turning Android Beam On or Off

1. From the Home screen, touch ▤ **Menu** ➔
    🔘 **Settings** ➔ 🗐 **Connections** tab.

2. Turn **NFC** ON. (For more information, see *"NFC"*.)

3. Touch **NFC**.
    *   Touch the **Android Beam** slider `OFF` to turn Android Beam ON.
    *   Touch the **Android Beam** slider `ON` to turn Android Beam OFF.

Using Android Beam

1. Turn **Android Beam** ON. (See *"Turning Android Beam On or Off"* on page 147.)

2. Launch the desired feature or application or browse to the desired web page (See *"Applications and Widgets"* on page 86.)

3. Place your phone back-to-back with the device to receive your "beamed" content, then touch the screen on your phone. The receiving device prompts the user to accept your "beamed" content.

4. Once the user of the receiving device accepts your "beamed" content, it displays 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** ➔ ᩒ **Connections** tab.

2. Under **Connect and Share**, touch **NFC** OFF to enable NFC. NFC must be enabled to use S Beam. When enabled, a check mark displays in the check box.

3. Touch **S Beam** OFF to turn S Beam On, or touch **S Beam** ON to turn S Beam Off.

Using S Beam

1. Turn **S Beam** On. (See *"Turning S Beam On or Off"* .)

2. Launch 🔘 **Camera**, ▶ **Music**, or 🖼 **Gallery** (see *"Applications and Widgets"* on page 86). When using Gallery, you can select multiple files to S Beam.

3. Place your phone back-to-back with the device to receive your "beamed" content, then touch the screen on your phone. The receiving device prompts the user to accept your "beamed" content.

4. Once the user of the receiving device accepts your "beamed" content, it displays on the screen of that 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 166.)

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 138.)

2. On your phone press ⬜ **Home**, then touch ▤ **Menu → Settings →** 🔲 **Connections**.

3. Touch **Nearby devices**. The **Nearby devices** screen displays.

4. Touch **File sharing** to turn file sharing via DLNA On or Off. When On, a check mark displays in the check box.

Screen Mirroring

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

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

1. Connect your phone and another DLNA certified device to the same Wi-Fi network. (For more information, refer to *"Wi-Fi"* on page 138.)

2. On your phone press ⬜ **Home**, then touch ▤ **Menu → Settings →** 🔲 **Connections**.

3. If not already on, tap the **Screen Mirroring** and then move the slider to the right to turn it on. The slider color indicates the activation status.

4. Touch the desired device to establish a connection. You can now view the contents of your phone's display on the connected device.

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

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** ➔ ⬛ **More**.
2. Touch **Storage**.
3. Touch **Unmount SD card**.
4. After unmounting the SD card, touch **Format SD card**, then follow the prompts to confirm the deletion of information from the card.

Section 8: Settings

Accessing Settings

■ From the Home screen, touch ▤ **Menu** ➔
   ◉ **Settings**.

   – or –

   From the Home screen, touch ▦ **Apps** ➔
   ◉ **Settings**.

   – or –

   Pull down the Notifications screen, then touch
   ▣ **Settings**. (For more information, refer to
   "Notifications" on page 32.)

   The **Settings** menu displays.

Note: This section does not include information about Call
settings. (For Call settings information, see *"Call
Settings"* on page 71.)

Settings Tabs

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

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

   📱 **My device**: Lock screen, Display, LED indicator,
   My device   Sound, Home screen mode, Call, Blocking mode,
   Hands-free mode, Power saving mode, Accessory,
   Accessibility, Language and input, Motions and
   gestures, Smart screen, Air view, and Voice
   control.

   🔖 **Accounts**: My accounts (Dropbox, Google,
   Accounts   Samsung account, and Add account) and Backup
   options (Cloud and Backup and reset).

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

Using Setting Sliders

■ To enable or disable a setting, touch the setting slider as shown.
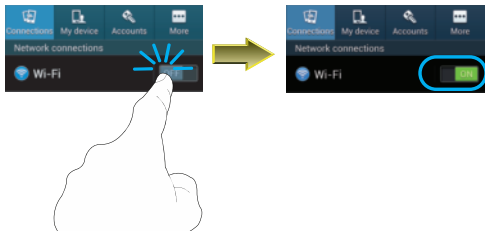
Accessing Additional Options

■ To access additional setting options, touch the setting label.
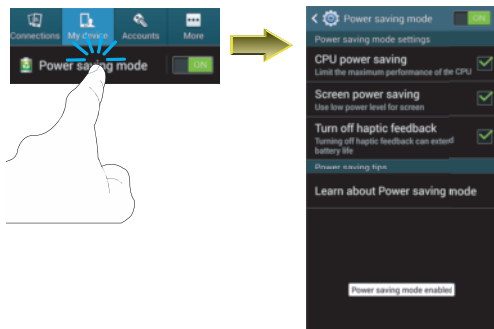
Connections

To access your phone's Connections settings:

■ From the Home screen, touch ▤ **Menu** →
 ⚙ **Settings** → 📇 **Connections** tab. The
 Connections screen displays.

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 138.)

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.

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Turn Wi-Fi On:

■ From the Home screen, touch ▤ **Menu** →
 ⚙ **Settings** → 📇 **Connections** tab → **Wi-Fi**
 OFF .

 – or –

 From the Home screen and others, touch and swipe the Status Bar downward, then touch 📶 **Wi-Fi**.

Turn Wi-Fi Off:

■ From the Home screen, touch ▤ **Menu** →
 ⚙ **Settings** → 📇 **Connections** tab →
 Wi-Fi ON .

 – 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 Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **Connections** tab ➔ **Wi-Fi**. The
   Wi-Fi options screen displays.

2. Touch options to configure:
   • **Add Wi-Fi network**: Connect to a new Wi-Fi network (see *"Adding a Wi-Fi Network Manually"* on page 139).
   • **Scan**: Search for available Wi-Fi networks.
   • **Wi-Fi Direct**: Access Wi-Fi Direct settings (see *"Wi-Fi Direct"* on page 155.)

3. Touch ▤ **Menu** to access the following additional options:
   • **Advanced**: View and configure your phone's Advanced Wi-Fi settings.
   • **WPS push button**: Record/send the signal from the Wi-Fi Protected Set-up push button on your Wi-Fi router.
   • **WPS PIN entry**: Record/send the Wi-Fi Protected Set-up Personal Identification Number for your Wi-Fi router.
   • **Help**: Provides on-line assistance to perform Wi-Fi interface tasks.

Advanced Wi-Fi settings

1. From the Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **Connections** tab, under
   Network connections ➔ **Wi-Fi** ➔ ▤ **Menu** ➔
   Advanced.

2. Configure settings:
   • **Network notification**: When enabled, your phone notifies you of nearby Wi-Fi networks when you launch a high data-usage application.
   • **Passpoint**: When set to ON, your phone automatically connects to passpoint-enabled hotspots.
   • **Sort by**: allows you to sort by alphabet or Signal strength.
   • **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.
   • **Always allow scanning**: Allows the Google location service and other apps to scan for networks, even when Wi-Fi is turned off.

- **Auto network switch**: Allows the device to automatically switch between a Wi-Fi network or a cellular network.
- **Install certificates**: Allows you to install security certificates
- that you have on a MicroSD card.
- **MAC address**: (Not configurable) View your phone's MAC address, needed for connecting to some secured networks (only shows when Wi-Fi is active).
- **IP address**: (Not configurable) View your phone's IP address (only shows when connected to a Wi-Fi network).

Wi-Fi Direct

Wi-Fi Direct allows devices to connect to each other directly via Wi-Fi, without a Wi-Fi network or hotspot, and without having to set up the connection. For example, some printers support Wi-Fi Direct, and you could print from your phone via Wi-Fi Direct.

Turning Wi-Fi Direct On or Off

■ From the Home screen, touch ▭ **Menu** ➔ **Settings** ➔ **Connections** tab ➔ **Wi-Fi** ➔ **Wi-Fi Direct**.

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

(For information on connecting your phone to other Wi-Fi Direct devices, see *"Establishing Wi-Fi Direct Connections"* on page 140.)

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 Home screen, touch 🔳 **Menu** → ⚙️ **Settings** → 🔌 **Connections** tab → **Bluetooth** OFF .

Turn Bluetooth Off:

■ From the Home screen, touch 🔳 **Menu** → ⚙️ **Settings** → 🔌 **Connections** tab → **Bluetooth** ON .

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 Home screen, touch ▥ **Menu** ➔ ◉ **Settings** ➔ 🔲 **Connections** tab ➔ **Bluetooth**.
2. Touch a setting to configure Bluetooth:
   • Touch **Bluetooth** OFF to turn Bluetooth On, or touch **Bluetooth** ON to turn Bluetooth Off.
   • Under **My device**, 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 141).

• Touch ▥ **Menu** to access the following options:
   – **Visibility timeout**: Select how long your phone will remain visible to other devices.
   – **Received files**: Lists files received from other devices over Bluetooth connections.
   – **Help**: Provides on-line instructions for using your phone's Bluetooth interface.

Data usage

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

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 Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **Connections** tab ➔
   Data usage. The **Data usage** screen displays.
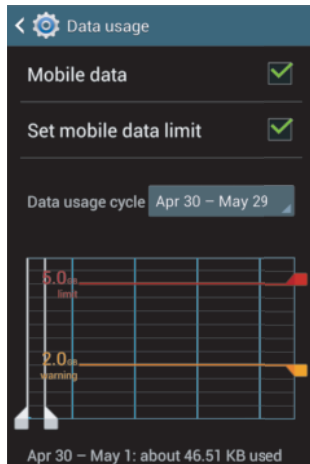
2. Touch **Mobile data** to enable it.

3. Touch **Set mobile data limit** to enable the limit. A red limit line displays in the **Data usage** screen.

4. Touch and drag the vertical usage cycle lines left or right on the graph to adjust the mobile **Data usage cycle**.

5. Touch and drag the horizontal **warning** line up or down on the graph to adjust the mobile data usage warning level.

6. Touch and drag the horizontal **limit** line up or down on the graph to adjust the mobile data usage limit level.

Viewing data usage by app or process

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 🔲 Connections **Connections** tab ➔ **Data usage**. The **Data usage** screen displays.

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.
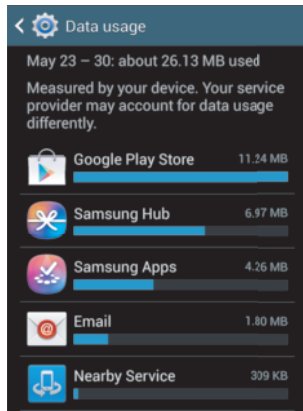
More Wireless and Network Settings

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.

■ From the Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ ▣ **Connections** tab ➔ **More networks** ➔ **Airplane mode** to enable or disable airplane mode.

Mobile networks

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

1. From the Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ ▣ **Connections** tab ➔ **More networks** ➔ **Mobile networks**. The **Mobile networks** screen displays.

2. Set these options:
   • **Mobile data**: Enable or disable your phone's connection to the mobile data network.

   Tip: You can also enable or disable **Mobile data** at the **Notifications** panel. (For more information, refer to *"Notifications"* on page 32.)

   • **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 16.)

- **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 145.)

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 Home screen, touch ▤ **Menu →** ⚙ **Settings →** 🔌 **Connections** tab **→ More networks → Tethering and portable hotspot → Portable Wi-Fi hotspot**.

2. Touch **Portable Wi-Fi hotspot** `OFF` and follow the prompts to turn Portable Wi-Fi Hotspot On, or touch **Portable Wi-Fi hotspot** `ON` 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 Home screen, touch ▤ **Menu →** ⚙ **Settings →** 🔌 **Connections** tab **→ More networks → Tethering and portable hotspot → Portable Wi-Fi hotspot**. The **Portable Wi-Fi hotspot** screen displays.

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 Device List

Control whether devices connect to your Portable Wi-Fi Hotspot with the Allowed device list. After you add devices to the list, they can scan for your device and connect using your device's Wi-Fi hotspot name (SSID) and password.

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

1. From the Home screen, touch **Menu** ➔ **Settings** ➔ **Connections** tab ➔ **More networks** ➔ **Tethering and portable hotspot** ➔ **Portable Wi-Fi hotspot**. The **Portable Wi-Fi hotspot** screen displays.

2. Touch **Allowed devices** ➔ **Add**, then enter the other device's Device name and MAC address.

3. Touch **OK** to add the device to the **Allowed devices** list.

Tip: For information about connecting to your Portable Wi-Fi Hotspot, see *"Connecting a Device via Portable Wi-Fi Hotspot"* on page 146.

Tethering

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

(For more information about connecting computers to your phone via Tethering, see *"Tethering"* on page 143.)

1. From the Home screen, touch **Menu** ➔ **Settings** ➔ **Connections** tab ➔ **More networks** ➔ **Tethering and portable hotspot**. The **Tethering and portable hotspot** screen displays.

2. Choose a tethering method:
   • **USB tethering**: Connect the computer to the phone via USB cable, then touch **USB Tethering** to turn tethering On or Off. When On, a check displays in the check box.

• **Bluetooth tethering**: Pair your phone with the computer via Bluetooth. Consult the computer's documentation for more information about configuring your computer to pair via Bluetooth. Touch **Bluetooth Tethering** to turn tethering On or Off. When On, a check displays in the check box.

• **Help**: Provides helpful Portable Wi-Fi hotspot, USB tethering, and Bluetooth tethering information.

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

VPN

Set up and manage Virtual Private Networks (VPNs). For more information about using VPNs, see *"VPN"* on page 142.

Adding a VPN

1. From the Home screen, touch 🔲 **Menu** ➔ 🔵 **Settings** ➔ 🔲 **Connections** tab ➔ **More networks** ➔ **VPN**.

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

2. 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.

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, *"S Beam"* on page 166.)

■ From the Home screen, touch **Menu** → **Settings** → **Connections** tab and touch the **NFC** slider OFF to turn NFC ON.

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

• Touch the **NFC** slider ON to turn NFC OFF.

Android beam

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

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

1. From the Home screen, touch **Menu** → **Settings** → **Connections** tab.

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

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

– or –

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

S Beam

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

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

Turning S Beam On or Off

1. From the Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **Connections** tab.

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

2. Touch 🔙 **Back**, to return to the **Connections** tab, then under **Connect and share**:

3. Touch the **S Beam** slider `OFF` to turn S Beam ON.

   – or –

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

Nearby devices

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

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

1. From the Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **Connections** tab. The **Nearby devices** screen displays.

2. Touch the **Nearby devices** slider `OFF` to turn Nearby devices ON.

3. Touch **OK** At the Nearby devices prompt.

4. Touch **Shared contents**, then check the media you would like to share and tap **OK**.

5. Touch **Allowed devices list**: Lists Wi-Fi devices allowed to access your phone.

6. Touch **Not-allowed devices list**: Lists Wi-Fi devices blocked from accessing your phone.

7. Touch **Download to**, Choose a location to save downloaded content, from USB storage or the SD card.

8. Touch **Upload from other devices**: Choose how to handle incoming files from other devices, from **Always accept**, **Always ask**, or **Always reject**.

Screen Mirroring

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

(For more information, refer to *"Screen Mirroring"* on page 149.)

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

1. From the Home screen, touch ▭ **Menu** → ⚙ **Settings** → 🔲 **Connections** tab → **Screen Mirroring**. The **Screen Mirroring** screen displays.

Note: This feature requires the optional AllShare Cast dongle which is available as an accessory. See your Customer Service Representative for more information.

2. Connect the dongle to the HDMI device using an HDMI A-to-A cable.

3. Press ▭ **Menu** → **Help** for information on using Screen Mirroring.

My device

■ From the Home screen, touch ▭ **Menu** → ⚙ **Settings** → 🔲 **My device**. The **My device** screen displays.

Lock screen

Choose settings for locking and unlocking your phone.

For more information about using the lock and unlock features, see *"Securing Your Phone"* on page 17.

■ From the Home screen, touch ▭ **Menu** → ⚙ **Settings** → 🔲 **My device** → **Lock screen**. 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 saying the S Voice wake up phrase. This option offers low security, because someone who looks similar to you and knows the S Voice wake up phrase could unlock your phone. Touch the option for more information, and to set up Face and voice unlock.

– **Pattern**: When enabled, you draw a pattern, which you create, on the screen to unlock the phone. Touch the option, then follow the prompts to create or change your screen unlock pattern.

– **PIN**: When enabled, you enter a numeric PIN (Personal Identification Number), which you create, to unlock the phone.

– **Password**: When enabled, you enter an alphanumeric password, which you create, to unlock the phone.

– **None**: Disable all custom screen lock settings, to use the default swipe unlock screen.

• **Lock screen widgets**: Touch this option and the **Lock screen widgets** screen displays with the following additional options available:

– **Favoirte apps or Camera**: Touch **Favoirte apps or Camera** OFF to enable the Favoirte apps widget or Camera shortcut on the Lock screen.

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

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

• **Shortcuts**: When enabled, application shortcuts appear on the lock screen. Swipe an icon to launch the associated application.
Touch **Shortcuts** OFF to enable lock screen shortcuts.
Touch **Shortcuts** ON to disable lock screen shortcuts.
Touch **Shortcuts** to add/remove lock screen shortcuts.

• **Unlock effect**: Touch this option to enable/disable showing a Ripple or Light effect on the lock screen, provided the lock screen wallpaper is not "live".

- **Help text**: Touch this option to enable/disable showing text explanations of lock screen features. When enabled, a check mark displays 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 displays in the check box. (For more information about S Voice, see *"S Voice"* on page 126.)
- **Set wake-up command**: Touch this option and to change the Wake up S Voice command, and to configure Wake-up functions 1 through 4. (For more information about S Voice, see *"S Voice"* on page 126.)

Display

■ From the Home screen, touch ▦ **Menu** ➔ ⚙ **Settings** ➔ ▣ **My device** ➔ **Personalization**, ➔ **Display**. The **Display** menu displays.

General

Wallpaper

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

1. From the Home screen, touch ▦ **Menu** ➔ ⚙ **Settings** ➔ ▣ **My device** ➔ **Personalization** ➔ **Display** ➔ **General** ➔**Wallpaper**.

2. Touch the screen for which you want to select wallpaper. (Options are: **Home screen**, **Lock screen**, and **Home and lock screens**.)

3. Touch the source of the wallpaper(s) you want to use. [Options are: **Gallery**, **Live wallpapers** (not for the Lock screen), and **Wallpapers**.)

4. Touch the desired image or wallpaper.

Notification panel

■ From the Home screen, touch ▭ **Menu** →
  Settings → [icon] **My device** → **Personalization** →
  Display → **General**, and touch **Notification panel**. The
  Notification panel screen displays. The following
  options are available:

  • **Brightness adjustment**: When enabled, a Brightness
    adjustment slider displays in the Notification panel, under the
    Quick Setting buttons.

  • **Set the quick setting buttons**: Follow the on-screen
    instructions to select the quick setting buttons you want to
    appear at the top of the Notification panel.

Multi window

■ From the Home screen, touch ▭ **Menu** →
  Settings → [icon] **My device** → **Personalization** →
  Display → **General**, and touch **Multi window** to enable or
  disable the Multi window tray. (For more information,
  refer to *"Using Multi window"* on page 27.)

Screen

Screen mode

Set the screen color balance and contrast mode.

1. From the Home screen, touch ▭ **Menu** →
   Settings → [icon] **My device** → **Personalization** →
   Display → **General** and touch **Screen mode**.

2. For automatic optimization of the screen, touch the
   Adapt display option to enable it. A check mark
   displays in the check box.

3. To manually select a screen mode, disable the **Adapt
   display** option, then touch **Dynamic**, **Standard**,
   Professional photo, or **Movie**.

4. Touch **Save**.

Brightness

Set the default screen brightness.

1. From the Home screen, touch ▭ **Menu** →
   Settings → [icon] **My device** → **Personalization** →
   Display, and touch **Brightness**.

2. Touch and drag the slider to set the brightness, or
   touch **Automatic brightness** to allow the phone to adjust
   brightness in response to light conditions.

3. Touch **OK** to save the setting.

Auto-rotate screen

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

■ From the Home screen, touch ▤ **Menu** →
   ⚙ Settings → 🖳 **My device** → **Personalization** →
   Display → and touch **Auto-rotate screen** to enable or disable the feature.

   When enabled, a check mark displays in the check box.

Tip: You can also set Auto rotate on the Notifications panel with the **Screen rotation** setting. (For more information, refer to *"Notifications"* on page 32 and *"Quick Setting Bar"* on page 33.)

Screen timeout

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

1. From the Home screen, touch ▤ **Menu** →
   ⚙ Settings → 🖳 **My device** → **Personalization** →
   Display, and touch **Screen timeout**.

2. Touch a setting to select it.

Daydream

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

1. From the Home screen, touch ▤ **Menu** →
   ⚙ Settings → 🖳 **My device** → **Personalization** →
   Display, and touch:

   • Touch the **Daydream** slider ⬚OFF to turn Daydream ON.
   • Touch the **Daydream** slider ON⬚ to turn Daydream OFF.

2. Touch **Daydream** to select Daydream wallpaper from Colors, Flipboard, Photo Frame, or Photo Table.

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

   • Touch **Start now** to preview the effects of your Daydream settings.

   • Touch **Enable daydream**, then select **While docked**, **While charging**, or **All**.

Font

Font style

Set the font for screen displays.

1. From the Home screen, touch 🔲 **Menu** ➔
   ⚙️ **Settings** ➔ 🔲 **My device** ➔ **Personalization** ➔
   Display, and touch **Font style**.

2. Select a font, or touch **Get fonts online** to browse and
   download a new font.

Font size

Set the font size for screen displays.

1. From the Home screen, touch 🔲 **Menu** ➔
   ⚙️ **Settings** ➔ 🔲 **My device** ➔ **Personalization** ➔
   Display, and touch **Font size**.

2. Select a font size (**Tiny**, **Small**, **Normal**, **Large**, or **Huge**).

More settings

Touch key light duration

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

1. From the Home screen, touch 🔲 **Menu** ➔
   ⚙️ **Settings** ➔ 🔲 **My device** ➔ **Personalization** ➔
   Display, and touch **Touch key light duration**.

2. Select **1.5 seconds**, **6 seconds**, **Always off**, or **Always on**.

Display battery percentage

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

■ From the Home screen, touch 🔲 **Menu** ➔
   ⚙️ **Settings** ➔ 🔲 **My device** ➔ **Personalization** ➔
   Display and touch **Display battery percentage** to enable/
   disable the setting.

Edit after screen capture

When enabled, after you capture a screen (by sweeping across the screen or by pressing Home and Power together), the Gallery Picture Editor automatically launches.

■ From the Home screen, touch 🔲 **Menu** → ⚙️ **Settings** → 🔲 **My device** → **Personalization** → **Display** and touch **Edit after screen capture** to enable/ disable the setting.

Auto adjust screen tone

When turned enabled, your phone automatically analyzes the screen and adjusts screen tone to save power.

■ From the Home screen, touch 🔲 **Menu** → ⚙️ **Settings** → 🔲 **My device** → **Personalization** → **Display** and touch **Auto adjust screen tone** to enable/ disable the setting.

High touch sensitivity

When enabled, your phone's screen sensitivity increases to let you interact with your phone while wearing gloves.

■ From the Home screen, touch 🔲 **Menu** → ⚙️ **Settings** → 🔲 **My device** → **Personalization** → **Display** and touch **High touch sensitivity** to enable/ disable the setting.

LED indicator

Select which alerts cause the LED indicator (upper left corner of your phone) to come on while your phone's screen is off.

■ From the Home screen, touch 🔲 **Menu** → ⚙️ **Settings** → 🔲 **My device** → **Personalization** → **Display** and touch **LED indicator**. The following options are available:

• **Charging**: When enabled, LED indicator lights red while your phone's battery is being charged.

• **Low battery**: When enabled, LED indicator lights red when your phone's battery charge level becomes low.

• **Notifications**: When enabled, LED indicator flashes blue when you have missed calls, new messages, or application events.

• **Voice recording**: When enabled, LED indicator lights blue when you are recording a voice note.

Sound

■ From the Home screen, touch **Menu** → **Settings** → **My device** → **Personalization** → **Display** and touch **Sound**. The **Sound** menu displays.

Volume

Set the system volume level, and set default volumes 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 Home screen, touch **Menu** → **Settings** → **My device** → **Personalization** → **Display** and touch **Sound**..
2. Touch **Volume**. The **Volume** menu pops-up.
3. Touch and drag the sliders for:
   • **Music, video, games, and other media**: Set the default volume level for audio playback. You can also adjust volume from this default inside the apps.
   • **Ringtone**: Set the volume for incoming call ringtones.
   • **Notifications**: Set the volume for notifications, such as new messages and event reminders.

   • **System**: Set the volume for all other system sounds, such as keytones played for screen touches. You can control whether tones play for screen touches with other sound settings.
4. Touch **OK** to save your settings.

Vibration intensity

Set the level for vibration to accompany ringtones and notifications.

1. From the Home screen, touch **Menu** → **Settings** → **My device** → **Personalization** → **Display** and touch **Sound**..
2. Touch **Vibration intensity**. The **Vibration intensity** menu pops-up.
3. Touch and drag the sliders for:
   • **Incoming call**: Set the vibration level for incoming call ringtones.
   • **Notification**: Set the vibration level for notifications, such as new messages and event reminders.
   • **Haptic feedback**: Set the vibration level vibrations to accompany screen touches.
4. Touch **OK** to save your settings.

Ringtones

Choose a ringtone for incoming calls.

1. From the Home screen, touch 🔳 **Menu** →
   ⚙️ **Settings** → 🔳 **My device** → **Personalization** →
   Display and touch **Sound**..

2. Touch **Ringtones**. The **Ringtones** menu pops-up.

3. Touch a ringtone to select it. When you touch a
   ringtone, a sample plays, unless you have a Silent
   mode enabled.

4. To add a sound or music file to the Ringtones list, touch
   Add.

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

Tip: You can also set songs as ringtones for all calls, or for a
selected contact. (For more information, refer to *"Music"*
on page 118.)

Vibrations

Choose a vibration pattern to use when vibration is enabled.

1. From the Home screen, touch 🔳 **Menu** →
   ⚙️ **Settings** → 🔳 **My device** → **Personalization** →
   Display and touch **Sound**.

2. Touch **Vibrations**. The **Vibrations** menu pops-up.

3. Touch a vibration pattern to select it. When you touch a
   pattern, a sample plays.

4. To create your own pattern, touch **Create**. Touch **Tap to
   create** in the pattern, then touch **Stop**. Touch **Save** to
   save your pattern.

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

Notifications

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

1. From the Home screen, touch ▭ **Menu** → ⚙ **Settings** → 🖳 **My device** → **Personalization** → **Display** and touch **Sound**..

2. Touch **Notifications**. The **Notifications** menu pops-up.

3. Touch a sound to select it. When you touch a sound, a sample plays.

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

Tip: You can also set songs as ringtones. (For more information, refer to *"Music"* on page 118.)

Vibrate when ringing

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

1. From the Home screen, touch ▭ **Menu** → ⚙ **Settings** → 🖳 **My device** → **Personalization** → **Display** and touch **Sound**..

2. Touch **Vibrate when ringing** to enable or disable the feature.

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

Dialing keypad tone

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

1. From the Home screen, touch ▭ **Menu** → ⚙ **Settings** → 🖳 **My device** → **Personalization** → **Display** and touch **Sound**.

2. Touch **Dialing keypad tones** to enable or disable key sounds.

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

Touch sounds

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

1. From the Home screen, touch ▤ **Menu** →
   ⚙ **Settings** → 🔲 **My device** → **Personalization** →
   Display and touch **Sound**.
2. Touch **Touch sounds** to enable or disable touch sounds.
   When **Touch sounds** is enabled, a check mark displays in the check box.

Screen lock sound

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

1. From the Home screen, touch ▤ **Menu** →
   ⚙ **Settings** → 🔲 **My device** → **Personalization** →
   Display and touch **Sound**.
2. Touch **Screen lock sound** to enable or disable the Screen lock sound.
   When **Screen lock sound** is enabled, a check mark displays in the check box.

Haptic feedback

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

1. From the Home screen, touch ▤ **Menu** →
   ⚙ **Settings** → 🔲 **My device** → **Personalization** →
   Display and touch **Sound**.
2. Touch **Haptic feedback** to turn touch vibrations On or Off.

Emergency tone

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

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

1. From the Home screen, touch ☰ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **My device** ➔ **Personalization** ➔
   Display and touch **Sound**.
2. Touch **Emergency tone**.
3. Touch **Alert** or **Vibrate**, or touch **Off** for no emergency tone.

Adapt Sound

You can select the sound most suitable to you for allerting you to calls while listening to music and video files.

1. From the **Sound** menu, under **More settings**, touch **Adapt Sound**.The **Adapt Sound** screen displays.
2. Read the instructions provided.
3. To begin selecting your personal sound, touch **Start**.

Home screen mode

Select the Home screen layout that best suits your needs.

1. From the Home screen, touch ☰ **Menu** ➔
   ⚙ **Settings** ➔ 🔲 **My device**.
2. Touch **Home screen mode**. The **Home screen mode** screen displays.
3. Select the desired Home screen mode (a preview image of your selection displays):
   • **Standard mode**: A conventional layout for apps and widgets on the Home screen panels.
   • **Easy mode**: A simplified apps and widgets layout for first time smartphone users.
4. To save your selection, touch **Apply**.

Call

Note: This section does not include information about Call settings. (For Call settings information, see *"Call Settings"* on page 71.)

Blocking mode

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

1. From the Home screen, touch 🔲 **Menu** ➔
   ⚙️ **Settings** ➔ 🗂 **My device**.
2. Touch **Blocking mode** `OFF` to enable this feature.
3. Touch the **Blocking mode** tab to access the following options:
   • **Features**:
     – **Disable incoming calls**: Blocks incoming calls from everyone except **Allowed contacts**.
     – **Disable notifications**: Blocks notifications from playing an alert tone.
     – **Disable alarm and timer**: Blocks notifications from Clock and Calendar alarms, and from timers.
     – **Disable LED indicator**: Stops LED indicator from lighting.
   • **Set time**:
     – **Always**: When enabled, Blocking mode stays active until you turn it off.
     – **From**: With **Always** disabled, select the time when Blocking mode will come on.

– **To**: With **Always** disabled, select the time when Blocking mode will go off.

   • **Allowed contacts**:
     – **Allowed contacts**: Select contacts from whom your phone is to accept incoming calls. [Options are: None, All contacts, Favorites, Custom (selecting this option enables **Allowed contact list**).]
     – **Allowed contact list**: Add and remove contacts from whom your phone accepts calls when Blocking mode is on.
4. Select the desired option to enable/disable it.

Hands-free mode

When Hands-free mode is enabled, incoming calls and notifications will be read out automatically.

1. From the Home screen, touch 🔲 **Menu** ➔
   ⚙️ **Settings** ➔ 🗂 **My device**.
2. Touch **Hands-free mode**.
3. Tap the **OFF / ON** icon next to **Driving mode** to the right to turn it on 🚗.
   Confirm that the Driving mode active icon ⊙ displays in the Status bar.

All incoming calls and notifications will be read out automatically.

4. The following options are available:
   • **Incoming call**: read out callers' information when receiving incoming calls.
   • **ChatON**: read out callers' information when receiving incoming ChatON messages.
   • **Air call-accept**: wave your hand over the screen to accept incoming calls.
   • **Message**: read out senders' information when receiving incoming calls.
   • **Alarm**: read out alarm information when alarms sound.
   • **Schedule**: read out scheduled alarm information when alarms sound.

5. You can disable Driving mode by saying "Driving mode off" while in S voice, or by accessing the Settings menu and sliding the Hands-free mode slider to the off position OFF or by using the Notification panel.

Power saving mode

Configure Power saving settings to conserve battery power.

1. From the Home screen, touch ▤ **Menu** →
   Settings → **My device**.

2. Touch **Power saving mode**. The **Power saving mode** screen displays.

3. Touch **Power saving mode** to enable or disable the option:
   • Touch **Power saving mode** OFF to enable Power saving.
   • Touch **Power saving mode** ON to disable Power saving.

   Power saving mode must be enabled (ON) to configure the **Power saving mode settings**.

4. Touch the following **Power saving mode settings** to enable or disable them. (When an option is enabled, a check mark displays in its check box.):

   • **CPU power saving**: When enabled, the phone's maximum performance is limited. This does not affect normal usage, such as browsing and video playback.

   • **Screen power saving**: When enabled, the screen uses reduced frame refresh rate and lower brightness.

   • **Turn off haptic feedback**: When enabled, no vibration plays when you touch the screen.

5. Under **Power saving tips**, touch **Learn about power saving mode** to read information about Power saving options.

Accessory

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

1. From the Home screen, touch ▭ **Menu** ➔ ⚙ **Settings** ➔ 🖳 **My device**.

2. Touch **Accessory**. The **Accessory** screen displays.

Dock

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

1. From the Home screen, touch ▭ **Menu** ➔ ⚙ **Settings** ➔ 🖳 **My device**.

2. Touch **Accessory** and touch the check box next to each of the following options to enable it: (When enabled, a check mark displays in the check box.)

   • **Dock sound**: When enabled, a sound plays when you insert and remove the phone from the Dock.

   • **Audio output mode**: When enabled, audio plays through the Dock speakers when the phone is docked.

   • **Desk home screen display**: When enabled, displays a special screen when the phone is docked.

S View Cover

1. From the Home screen, touch ▭ **Menu** →
   ⚙️ **Settings** → 🗂 **My device**.

2. Touch **Accessory** and touch the check box next to
   Automatic unlock to enable/disable unlocking your
   phone's screen by flipping the cover open, provided the
   secure lock is disabled: (When enabled, a check mark
   displays in the check box.)

HDMI

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

1. From the Home screen, touch ▭ **Menu** →
   ⚙️ **Settings** → 🗂 **My device**.

2. Touch **Accessory**. The following option is available:

   • **Audio output**: Select the quality of sound to be produced
     (Stereo or Surround).

Accessibility

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

1. From the Home screen, touch ▭ **Menu** →
   ⚙️ **Settings** → 🗂 **My device**.

2. Touch **Accessibility**. To enable/disable each of the
   following options, touch the check box next to it: (When
   enabled, a check mark displays 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.

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

   • **Speak passwords**: When enabled, your phone reads out your
     password entries.

   • **Answering/ending calls**: Touch this option to access the
     following call answering and ending settings:

– **The home key answers calls**: When enabled, you can answer calls by pressing [ ] **Home**.

– **Answers calls by tapping**: When enabled, you can answer calls by touching the Accept call button on the Incoming Call screen.

– **Voice control**: When enabled, you can use your voice to answer calls.

– **The power key ends calls**: Lets you can end voice calls by pressing the [ ] ⊙ **Power/Lock** key.

• **Show shortcuts**: Adds an **Accessibility settings** option to the **Device options** menu (displays when you press and hold the [ ] ⊙ **Power/Lock** key. This provides quick access to the **Accessibility** settings, to make changes as you use the phone.

• **Manage accessibility**: Save and update your accessibility settings, or share them with another device.

– **Export**: Save your accessibility settings in a file.

– **Update**: Update your accessibility settings by importing the saved file.

– **Share via**: Share your accessibility settings using Bluetooth, Dropbox, Email, Gmail, or Wi-Fi Direct.

– **Android Beam**: Send your accessibility settings to another device using Android Beam and NFC.

Services

Enable or disable accessibility services.

TalkBack

1. From the Home screen, touch [≡] **Menu** ➔ [⚙] **Settings** ➔ [🖪 My device] **My device**.

2. 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

1. From the Home screen, touch ▭ **Menu** ➔
   ⚙ **Settings** ➔ ▣ **My device**.

2. Touch the check box next to each of the following
   options to enable it: (When enabled, a check mark
   displays in the check box.)

   • **Font size**: Set the font size for screen displays (Tiny, Small,
     Normal, Large, Huge).

   • **Magnification gestures**: Touch
     Magnification gestures `OFF` to turn ON tripple-tap to
     zoom, tripple-tap and hold to zoom temporarily, pan, and adjust
     zoom level gestures.

   • **Negative colors**: Reverses the colors on the screen.

   • **Color adjustment**: `OFF` to turn ON and adjust screen
     colors for better readability.

   • **Accessibility shortcut**: Touch
     Accessibility shortcut `OFF` to turn ON quick access to
     the **Accessibility** settings, to make changes as you use the
     phone, by pressing and holding the ▭ **Power/
     Lock** key.

   • **Text-to-speech options**: Select Preferred TTS engine, Speech
     rate, and Driving mode.

• **Enhance web accessibility**: Does not allow / Allows apps to
  install scripts from Google that make their Web content more
  accessible.

Hearing

1. From the Home screen, touch ▭ **Menu** ➔
   ⚙ **Settings** ➔ ▣ **My device**.

2. Touch the check box next to each of the following
   options to enable it: (When enabled, a check mark
   displays in the check box.)

   • **Sound balance**: Lets you adjust media player sound balance
     when you are using a stereo headset or stereo headphones.

   • **Mono audio**: Delivers monophonic sound to support listening
     with a wired or Bluetooth headset with one earphone.

   • **Turn off all sounds**: Disables all sounds, including the voice
     portion of calls.

   • **Flash notification**: The Camera flash blinks when you receive
     a notification.

Mobility

1. From the Home screen, touch ☰ **Menu** → ⚙️ **Settings** → 🖼️ **My device**.

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

Recognition

1. From the Home screen, touch ☰ **Menu** → ⚙️ **Settings** → 🖼️ **My device**.

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

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Language and input

1. From the Home screen, touch ☰ **Menu** → ⚙️ **Settings** → 🖼️ **My device**.

2. Touch **Language and input**. The **Language and input** screen displays.

Language

Select the language used in your phone's screens.

1. From the Home screen, touch ☰ **Menu** → ⚙️ **Settings** → 🖼️ **My device** → **Language and input**.

2. Touch **Language** to select the language used in your phone's screens.

Keyboards and input methods

Configure text entry options to your preferences.

1. From the Home screen, touch ☰ **Menu** → ⚙️ **Settings** → 🖼️ **My device**.

2. Touch **Language and input**.

3. Under **Keyboards and input methods**, touch the check box next to each of the following options to enable it. (When enabled, a check mark displays 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:

  – **Choose input languages**: Select languages for Google voice typing. Select **Automatic** to use the Default language exclusively, or choose other language(s).
  – **Block offensive words**: When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).
  – **Download offline speech recognition**: Enables voice input using Google voice typing while your phone is offline.

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

Note: This option cannot be disabled.

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

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

  – **Predictive text**: When enabled, T9 suggests words matching your text entries and optionally, complete common words automatically. Touch **Predictive text** `OFF` to turn ON T9 predictive text, touch **Predictive text** `ON` to turn OFF T9 predictive text. Touch **Predictive text** to configure the following options:

  Personalized data: When enabled, Predictive text uses personal language data you have entered.
  Learn from Facebook: Log in to let your device learn from your Facebook entries.
  Learn from Gmail: Log in to let your device learn from your Gmail messages.

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

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

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

Clear remote data: Remove your anonymous data from the personalization server.

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

– **Continuous input**: When enabled, you can sweep your finger over keypad letters to enter words. When you lift your finger, a word matching your sweep is entered automatically. Available when Predictive text is turned On.

– **Cursor control**: When enabled, you can move the cursor by sliding your finger across the keyboard.

– **Handwriting**: When in Handwriting mode, Samsung keyboard recognizes on-screen tracing of words. Touch **Handwriting** to configure the following options:

Recognition type: Select Stroke recognition or Complete recognition.

Recognition time: Select 100 ms, 300 ms, 500 ms, 1000 ms, or 2000 ms.

Pen thickness: Select 1 pixel, 3 pixels, 5 pixels, 7 pixels, or 9 pixels.

Pen color: Select Black, Red, Blue, Green, or Brown.

About: Lists the Build, DHWR, and DioWord+ release versions.

– **Advanced**:

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

Auto spacing: When enabled, this option automatically inserts spaces between words.

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

Character preview: When enabled, characters available on the key you touch display briefly as you enter text.

Key-tap vibration: When enabled, a vibration plays for your key touches.

Key-tap sound: When enabled, a sound plays for your key touches.

– **Help**: View help information for using T9 predictive text.

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

- **Swype**: Touch ⚙ beside Swype to configure the following options.
  - **How to Swype**: Learn Swype through quick, easy-to-use steps.
  - **Gestures**: Learn about the gestures you can use to simplify accessing Swype features.
  - **Preferences**:

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

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

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

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

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

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

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

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

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

    Version: View the current Swype software version.

  - **Language Options**:

    English: Change current language.

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

    Download languages: Select and download languages besides US English.

    Active: Enable or disable installed languages.

  - **Swype Connect**:

    Register now: Register your Swype Backup & Sync account.

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

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

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

– **Personalization**:

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

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

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

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

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

Speech

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 🖳 My device **My device**.

2. Touch **Language and input**.

3. Under **Speech**, the following options are available:

　• **Voice search**: Configure how **Voice search** reacts to your speech.

　　– **Language**: Choose a language for voice searching.

　　– **Speech output**: Choose whether Speech is Always available or available with Hands-free only.

　　– **Block offensive words**: When enabled, words many people find offensive are not shown in results of Google voice searches. Offensive words are replaced in results with a placeholder (####).

　　– **Hot word detection**: When enabled, say "Google" to launch voice search.

　　– **Download offline speech recognition**: Enables voice input while off-line.

　　– **Personalized recognition**: Train **Voice search** to more accurately recognize your voice.

　　– **Google Account dashboard**: Manage data collected under your Google account.

– **Bluetooth headset**: Records audio through a Bluetooth headset, when available.

• **Text-to-speech options**: Provides audible readout of text, for example, the contents of text messages, and the Caller ID for incoming calls.

  – **Preferred TTS engine**: Select **Samsung text-to-speech engine** or **Google Text-to-speech Engine**.

  – **General**:

    Speech rate: Choose a rate at which text readouts are spoken.
    Listen to an example: Play a sample of speech synthesis.

Mouse/trackpad

Customize the response of your screen swipes.

1. From the Home screen, touch ▭ **Menu** ➔ ⚙ **Settings** ➔ 🔳 **My device**.
2. Touch **Language and input**.
3. Under **Mouse/trackpad**, touch **Pointer speed**, then touch and drag along the scale to set the pointer speed.

Motions and gestures

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

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

1. From the Home screen, touch ▭ **Menu** ➔ ⚙ **Settings** ➔ 🔳 **My device**.
2. Touch **Motions and gestures**. The following options are available (to enable your phone's ability to recognize each gesture, touch the related slider OFF :
3. Touch **Air gesture** for these options:
   – **Quick glance**: When set to ON and the screen is off, you can reach toward your phone to receive a quick display of selected information (Time & Date, Notification icons, Missed calls, Unread messages, Battery power, and/or Current music info).
   – **Air jump**: When set to ON, you can "page through" a web page by sweeping your hand up or down near the screen.

– **Air browse**: When set to ON, you can display previous or next web pages by sweeping your hand left or right near the screen.

– **Air move**: When set to ON, you can move a shortcut from one Home screen panel to another by sweeping your hand left or right near the screen.

– **Air call-accept**: When set to ON, you can moving your hand first left and then right near the front of your phone. (You can also elect to have your phone answer calls in Speakerphone mode.

4. Touch **Motion** for these options:

– **Direct call**: When enabled, you can lift the phone to your ear while viewing a contact to dial the contact's phone number.

– **Smart alert**: When enabled, the phone will automatically notify you to missed calls and alerts that occurred while the phone was stationary.

– **Zoom**: When enabled, tilting the phone while in Gallery or Internet causes the screen to zoom in or out.

– **Browse an image**: When enabled, moving the phone in a panning motion while viewing an image moves focus around in the image.

– **Mute/pause**: When enabled, turning the phone screen-down automatically mutes incoming call ringtones and alerts sounds and pauses media playback.

5. Touch **Palm motion** for these options:

– **Capture screen**: When enabled, swiping your hand left or right across the display captures an image of the current screen.

– **Mute/pause**: When enabled, covering the screen with your hand pauses media while playing or mutes sounds playing on your phone.

Smart screen

1. From the Home screen, touch ▭ **Menu** ➔
   ⚙ **Settings** ➔ 🔳 **My device**.

2. Touch **Smart screen**. The following options are available:

   • **Smart stay**: When enabled, this feature prevents screen timeout, if you are using the phone.

   Example: The phone uses the front camera to identify your eyes, and keeps the screen bright for continued viewing.

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

• **Smart pause**: When enabled, this feature pauses video playback when it detects your face turning away from the screen.

• **Smart scroll**: When set to ON, this feature detects your face with the front camera and scrolls web pages or email message content. By touching the Smart scroll tab, you can adjust the scrolling Speed, enable/disable Visual Feedback display, enable/disable Smart scrolling for web pages an/or for email messages content.

Air view

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

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

1. From the Home screen, touch ▤ **Menu** ➔ **Settings** ➔ **My device**.

2. Touch **Air view** OFF to set the **Air view** feature to ON.

Air view options

Use these options to choose what will appear when you hover your finger over areas of the display.

1. From the Home screen, touch ☰ **Menu** ➔ ⚙ **Settings** ➔ 🔲 **My device**.
2. Touch **Air view**. The **Air view** screen displays.
3. Touch the following option sliders to set them to ON:
   • **Information preview** `OFF` : When set to ON, you can preview extended text or enlarged images.
   • **Progress preview** `OFF` : When set to ON, you can preview a video scene or show elapsed time.
   • **Speed dial preview** `OFF` : When set to ON, you can preview Contact names assigned to Speed dial numbers by hovering over the Phone keypad keys.
   • **Webpage magnifier** `OFF` : When set to ON, you can view a portion of a web page magnified.
4. Touch **Sound and haptic feedback** to enable sound and vibration feedback when you hover your finger over areas of the display. (When enabled, a check mark displays in the check box.)

Voice control

This feature lets you control selected features of your phone using just your voice.

1. From the Home screen, touch ☰ **Menu** ➔ ⚙ **Settings** ➔ 🔲 **My device**.
2. Touch the **Voice control** `OFF` slider to turn on Voice control.
3. Touch **Voice control** then touch following options:
4. Touch the following options to enable/disable them:
   • **Incoming calls**: When enabled, you can answer or reject calls by saying "Answer" and "Reject". Your phone with answer the calls in Speakerphone mode.
   • **ChatON**: When enabled, you can answer or reject ChatON calls by saying "Answer" and "Reject". Your phone with answer the ChatON calls in Speakerphone mode.
   • **Alarm**: When enabled, you can stop an alarm or set it to snooze by saying "Stop" and "Snooze".
   • **Camera**: When enabled, you can take pictures by saying "Smile", "Cheese", "Capture" and "Shoot".

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

When these options are enabled, a check mark displays in each of their check boxes.

Accounts

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

■ From the Home screen, touch ▭ **Menu** → **Settings** → **My device** → **Accounts**, then, under **My accounts**, touch the desired account type. The related account type screen displays.

Samsung account

1. From the Home screen, touch ▭ **Menu** → **Settings** → **My device** → **Accounts** tab.

2. Touch **Add account** → **Samsung account**. The **Samsung account** screen displays.

3. Touch **Account settings**. The following options are available:

• **Profile** (password protected): Change password and view Email address, Date pf birth, Name prefix, First name, Lastname, Zip code, Nickname, and Receive newsletter status for your account.

• **Terms and conditions**: Review Country or region, Terms and conditions, and Privacy policy information.

• **Help**: Find your email address or password, Contact us with a text message, or review Customer support information [My questions, FAQ (Frequently Asked Questions), or Contact us].

4. Touch **Storage usage**. The following options are available:

• **Total used**: Indicates the total amount of storage used for files synchronized with your Samsung account.

• **Personal data management**: Lists current amounts of storage used by Memo, S Memo, S Note, Calendar, Internet, and Contacts apps and the amount of storage used for Backed up data.

5. Touch **Backup**. The following options are available:

– **Auto backup**: When enabled for at least an hour and connected to a Wi-Fi network and with the screen off and the device charging, your data is backed up automatically.

- **Logs**: When enabled, tracks device backup activity to your Samsung account.
- **Messages (Text message)**: When enabled, your Text messages (SMS) are backed up to your Samsung account.
- **Messages (Multimedia message)**: When enabled, your Multimedia messages (MMS) are backed up to your Samsung account.
- **Wallpaper**: When enabled, your Wallpaper images (not the pre-loaded images) are backed up to your Samsung account.
- **Back up now**: Touch to immediately back up the selected data to your Samsung account.

6. Touch **Restore** to immediately restore backed-up data to your device.

ChatON

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 📱 **My device** ➔ **Accounts**.
2. Touch **Add account** ➔ **ChatON**. The **ChatON** screen displays.
3. Follow the prompts to set up a ChatON account or a link to an existing account.

Dropbox

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 📱 **My device** ➔ **Accounts**.
2. Touch **Add account** ➔ **Dropbox**. The **Welcome to Dropbox!** screen displays.
3. Follow the prompts to set up a Dropbox account or a link to an existing account.

Email

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 📱 **My device** ➔ **Accounts**.
2. Touch <**Email account**>. The **Email** account screen displays.
3. Set up a new email account. For more information, refer to *"Email"* on page 82.
4. Configure the Common settings:
   • **Common settings**:
   – **Settings**: Touch an account to configure the account-specific settings. Settings vary depending on the Email account type.
5. Touch the email account name and configure the specific email account settings.

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Google

Adding Google account

1. From the Home screen, touch ▦ **Menu** ➔ ⚙ **Settings** ➔ 🔲 **My device** ➔ **Accounts**.
2. Touch **Add account** ➔ **Google**. The **Add a Google Account** screen displays.
3. Touch **Existing** or **New**.
4. Follow the prompts to set up a Google account link.

Account Synchronization settings

1. From the Home screen, touch ▦ **Menu** ➔ ⚙ **Settings** ➔ 🔲 **My device** ➔ **Accounts**.
2. Touch **Google**. The **Google** screen displays.
3. Under **Accounts**, touch the desired Google account. The **Sync settings** screen displays listing the following options:
   • **Sync App Data**: Synchronize your Google applications' data with your on-line Google account.
   • **Sync Calendar**: Synchronize your phone's calendar with your on-line calendar.
   • **Sync Contacts**: Synchronize your phone's contacts list with your on-line contacts list.

• **Sync Gmail**: Synchronize your phone's Gmail inbox with your on-line Gmail inbox.
• **Sync Google Photos**: Synchronize your phone's gallery photos with your on-line Google Photos.
• **Sync Google Play Books**: Synchronize your phone's ebooks library with your on-line ebooks library.
• **Sync Google Play Magazines**: Synchronize your phone's emagazines library with your on-line emagazines library.
• **Sync Google Play Movies & TV**: Synchronize your phone's movies & TV library with your on-line movies & TV library.
• **Sync Google+**: Synchronize your Google+ contacts.
• **Sync Google+ Photos**: Automatically synchronizes Google+ photos with your Google+ account.
• **Sync People details**: Synchronize all of your contact/people information from your various Google apps and Microsoft Exchange account(s) for use by Google People.
• **Sync Picasa Web albums**: Synchronize your phone's Gallery folders and files with your on-line Picasa Web albums.

General settings

1. Press ▭ **Home**, then touch ▦▦ **Apps**, and the **Apps** tab. The **Apps** screen displays.
2. Touch ✉ **Gmail**. The Gmail **Inbox** screen displays.
3. Touch ▤ **Menu → Settings → General settings**. The following options are available:

   • **Archive & delete actions**: Configures how to display archived or deleted email.

   • **Swipe to archive**: When enabled, swipe a conversation to archive it.

   • **Sender image**: When enabled, displays an image next to the name in the conversation list.

   • **Reply all**: When enabled, your message replies are automatically sent to all original message recipients.

   • **Auto-fit messages**: When enabled, messages are shrunk to fit your phone's screen. Zoom is also enabled.

   • **Auto-advance**: When enabled, the conversation list is automatically updated and displayed after you delete or archive messages or conversations.

• **Message actions**: Allows you to configure how display message actions. Choose from: Always show, Only show in portrait, and Don't show.

• **Confirm before deleting**: When enabled, prompts you to confirm deletions of conversations or messages.

• **Confirm before archiving**: When enabled, prompts you to confirm movement of conversations or messages to archive.

• **Confirm before sending**: When enabled, prompts you to confirm sending of messages.

• **Swiping conversation list**: Set Swiping conversation list as Has no effect on Gmail conversations, Archives or deletes Gmail conversations, or Always deletes Gmail conversations.

Account settings

1. Press ☐☐☐ **Home**, then touch ▦▦▦ **Apps**, and the **Apps** tab. The **Apps** screen displays.

2. Touch ☒ **Gmail**. The Gmail **Inbox** screen displays.

3. Touch ▤ **Menu → Settings** and select an account. The following options are available:

   • **Inbox type**: Select the inbox type: Default Inbox or Priority Inbox.

   • **Inbox categories**: Select and configure the categories of email to display in the Inbox. Primary (Person-to-person conversations), Social, Promotions, Updates, Forums. When Include starred in Primary is selected changes display after sychronization.

   • **Notifications**: When enabled, notifications for new email displays in the Notifications Panel.

   • **Inbox sound & vibrate**: Select Sound (ringtone) to play when new messages arrive, whether to Vibrate to alert you to new messages, and whether to Notify you once for new email messages.

   • **Signature**: Create a text signature to add to outgoing messages.

• **DATA USAGE**:

   – **Sync Gmail**: Enable or disable automatic synchronization, change synchronization settings for this account, remove this account (unless it is the only Gmail account), or add an account.

   – **Days of mail to sync**: Choose the number of days worth of Gmail messages to synchronize.

   – **Manage labels**: Choose which Gmail labels are synchronized, and access **Sound & vibrate** settings.

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

LDAP

1. From the Home screen, touch ▤ **Menu →** ⚙ **Settings →** ⌗ **My device → Accounts**.

2. Touch **Add account → LDAP**. The **Set up an LDAP account** screen displays.

3. Follow the prompts to set up an LDAP account link.

Microsoft Exchange ActiveSync

1. From the Home screen, touch **Menu** ➔
   Settings ➔ **My device** **My device** ➔ **Accounts**.

2. Touch **Microsoft Exchange ActiveSync**. The **Microsoft Exchange ActiveSync** screen displays.

3. Touch **Settings**. The **Settings** screen displays.

4. Touch an account. Options vary depending on the selected account:

   • **Sync settings**: Touch each option to synchronize.

   – **Sync Email** Synchronize email when you synchronize the account.

   – **Sync schedule** Choose your email automatic synchronization schedule.

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

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

   • **Signature**: Create an email signature.

   • **Out of office settings**: Enable/disable your account's out of office settings, choose the start/end dates, and enter/change your outgoing messages.

   • **Default account**: Sends email from this account by default.

   • **Password**: Update your password to match the email server.

   • **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.

   • **More settings**: Configure Common settings, Data usage, and Exchange ActiveSync settings.

   – **Account name**: Enter a name to identify the account.

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

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

- **Data usage**:

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

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

- **Exchange ActiveSync settings**:

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

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

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

  – **In case of Sync Conflict**: Choose whether your Device has priority or the Server has priority during automatic synchronization.

  – **Security options**: Configures advanced email security options.

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

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

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

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

Sync apps with Facebook

1. From the Home screen, touch ▭ **Menu** ➔ **Settings** ➔ **My device** ➔ **Accounts**.

2. Touch **Add account** ➔ **Sync apps with Facebook**. The **Setu up Facebook accout** screen displays.

3. Follow the prompts to set up a Facebook account or to add a link to an existing account.

Add a Twitter account

1. From the Home screen, touch ▭ **Menu** ➔ **Settings** ➔ **My device** ➔ **Accounts**.

2. Touch **Add account** ➔ **Twitter**. The Playstore launches the Twitter Install. Install Twitter and then follow the prompts to configure the account.

Backup options

Cloud

1. From the Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ 🖳 **My device** ➔ **Accounts**.

2. Touch **Cloud**. The **Cloud** screen displays. The following
   options are available:

   • **Personal data management**:

   – **Storage usage**: Lists Total used storage and provides Personal
     data management options to clear selected used storage for
     reuse.

   – **Sync settings**: Sync your phones Calendar, Contacts, Internet
     bookmarks, Internet opened pages, and Memos with your Cloud
     account.

   – **Backup**: Choose whether to enable Auto backup of your Logs,
     Messages (SMS), Messages (Multimedia message), and/or
     downloaded Wallpaper; or to touch Back up now for manual
     backup.

   – **Restore**: Restore your backed up information to your phone.

   • **Content sync (with Dropbox)**: Link to your Dropbox account to
     sync your pictures, videos, and documents.

Backup and reset

1. From the Home screen, touch ▤ **Menu** ➔
   ⚙ **Settings** ➔ 🖳 **My device** ➔ **Accounts**.

2. Touch **Backup and reset**. The **Backup and reset** screen
   displays. The following options are available [touch the
   check box next to each of the options to enable it
   (When enabled, a check mark displays in the check
   box.)]:

   • **Back up and restore**:

   – **Back up my data**: When enabled, backs up app data, Wi-Fi
     passwords, and other phone settings to the backup account
     server(s).

   – **Backup account**: Select or set-up an account your phone
     will use to backup your app data, Wi-Fi passwords, and
     other phone settings.

   – **Automatic restore**: When enabled, automatically restores
     app data, Wi-Fi passwords, and other phone settings from
     your automatic backup.

- **Personal data**:

  – **Factory data reset**: Returns all settings to their default values, and removes all data (yours and apps) 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.

More

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 Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ 🔲 **More**.

2. Touch **Locations services**. The **Location services** screen displays.

3. Touch **Access to my location** OFF to activate the **Location sources** settings.

4. Touch the following **Location sources** options to enable/disable them. (When an option is enabled, a check mark displays in its check box.):

Note: Use GPS satellites must be enabled to use some applications. You can also enable or disable **GPS** from the Notifications panel. (For more information, refer to *"Notifications"* on page 32.)

    • **Use GPS satellites**: When enabled, lets applications use GPS to pinpoint your location.

Important! By selecting **Use GPS satellites**, you are allowing access to all location information by any third party through web access or any software or peripheral components you choose to install, download, add, or attach to the device or any other means.

    • **Use wireless networks**: When enabled, lets applications use data from mobile networks and Wi-Fi to help determine your location.

    • **My places**: Save your favorite locations (**Home**, **Office**, and **Car**) for use with services that require location information.

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Security

■ From the Home screen, touch ▭ **Menu** ➔ ⚙ **Settings** ➔ ▦ **More** ➔**Security**. The **Security** screen displays.

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.

1. From the Home screen, touch ▭ **Menu** ➔ ⚙ **Settings** ➔ ▦ **More** ➔ **Security**.

2. Touch the following options to encrypt your information:

    • **Encrypt device**: Touch this option to encrypt accounts, settings, downloaded applications and data, media files, and more under a password you specify.

• **Encrypt external SD card**: Touch this option to encrypt selected information stored on a microSD memory card under a password you specify. The following additional **Encryption settings** are available:

– **Encrypt**: When enabled, new files on the memory card will be encrypted as they are added.

– **Full encryption**: When enabled, all files on the memory card will be encrypted.

– **Exclude multimedia files**: When enabled, multimedia files on the memory card will not be encrypted.

SIM card lock

Password protect access to your SIM card contents.

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ **More Security**.

2. Touch **Set up SIM card lock**. The following options are available:

• **Lock SIM card**: When enabled, you must enter a PIN (Personal ID Number) to use the information on your SIM card.

• **Change SIM PIN**: Touch this option and follow the prompts to change the PIN used to access the information on your SIM card.

Passwords

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

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ **More Security**.

2. Touch the following option to enable/disable it: (When the option is enabled, a check mark displays 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.

1. From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ **More Security**.

2. Touch the following options to enable/disable them:
(When an option is enabled, a check mark displays 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®.

> **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.

• **Verify apps**: When enabled, you are blocked or warned before
installing apps that may harm your phone's firmware, software,
and/or data.

• **Change security level**: Select **High** or **Normal (default)**.

Security update service

When you activate this feature, your phone will automatically
check for changes to the security policy and download any
updates to improve service.

1. From the Home screen, touch ▭ **Menu →**
 Settings → ▦ **More Security**.

2. Touch the following options to activate the feature:

• **Auto update security**: Automatically checks for changes to the
security policy and downloads any updates to improve security
and service.

• **Via Wi-Fi only**: Only updates the security policy automatically
when your device is connected to a Wi-Fi network.

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.

1. From the Home screen, touch ▭ **Menu** →
   ⚙ **Settings** → 🔲 **More Security**.
2. Touch **Storage type** and select a type.
3. Touch the following options to enable/disable them. (When an option is enabled, a check mark displays 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: To use this feature, you must first install a memory card containing encrypted certificates.

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

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

Application manager

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

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

1. From the Home screen, touch ▭ **Menu** →
   ⚙ **Settings** → 🔲 **More** →**Device manager** →
   Application manager. The **Application manager** screen displays.

2. Touch **DOWNLOADED**, **SD CARD**, **RUNNING**, or **ALL** to list the statuses of applications and services. The graph at the bottom of the **DOWNLOADED** tab displays used and free Device memory. The **SD CARD** tab displays used and free SD CARD memory. The graph at the bottom of the **RUNNING** tab shows used and free RAM.

Battery

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

1. From the Home screen, touch <img> **Menu** ➔ <img> **Settings** ➔ <img> **More** ➔ **Device manager** ➔ **Battery**. The **Battery** screen displays.

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**, **Android OS**, **Android System**, 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.

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4. Touch **Show battery percentage** to display the percentage on the battery status indicator.

Storage

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

1. From the Home screen, touch <img> **Menu** ➔ <img> **Settings** ➔ <img> **More** ➔ **Device manager** ➔ **Storage**. The **Storage** screen displays. 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.

 – **System memory**: Displays the minimum amount of storage space required to run the system.

 – **Used space**: Displays the amount of storage space currently being used.

– **Cached data**: Displays the amount of cached data in MB.

– **Miscellaneous files**: Displays the total device memory currently used to store various application data and system data files.

– **Available space**: Displays the total device memory available for use.

• **SD card**: View usage for, and manage, storage space on an optional memory card.

– **Mount SD Card**: Displays when the SD card is not inserted or mounted.

– **Total space**: Displays the total card memory.

– **Available space**: Displays 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 150.)

– **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 150.)

2. 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.

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.

■ From the Home screen, touch ▤ **Menu** ➔ ⚙ **Settings** ➔ ▥ **More** ➔ **Device manager** ➔ **Date and time**. The **Date and time** screen displays.

3. Touch a setting to configure:

• **Automatic date and time**: When enabled, the phone takes date and time updates from the wireless network (disables Set date, Set time, and Select time zone).

• **Set date**: 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.

About device

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

Software Update

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

1. From the Home screen, touch ▭ **Menu** ➔ **Settings** ➔ **More** ➔ **Device manager** ➔ **About device** ➔ **Software update**. You are prompted to select your current country.

2. Select a Country, then touch **OK**. A Terms and Conditions screen displays.

3. To proceed to Software Update, touch **I accept all the terms above**, then touch **Confirm**. Your device registers itself with your Wireless Provider's Software Update service, connects with your Wireless Provider's server, and scans for software updates.

4. At the **Software update** prompt, touch **OK** to continue.

5. The phone automatically updates the software (if available), otherwise, when the **The latest updates have already been installed** prompt is displayed, touch **OK**.

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

Details

- Touch options to view details:

  - **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, Serial number, Up time, and Device status.

  - **Legal information**: Display open source licenses, configure license settings, including your DivX VOD registration, and Google info.

  - **Device name**: View and/or change the device name you assigned to your device during inital set-up.

  - **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.

  - **SELinux status**: View the status of SELinux on your phone.

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

Section 9: Health and Safety Information

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

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

Exposure to Radio Frequency (RF) Signals

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

Do cell phones pose a health hazard?

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

Cell phones emit low levels of Radio Frequency (RF) energy. Over the past 15 years, scientists have conducted hundreds of studies looking at the biological effects of the radio frequency energy emitted by cell phones. While some researchers have reported biological changes associated with RF energy, these studies have failed to be replicated. The majority of studies published have failed to show an association between exposure to radio frequency from a cell phone and health problems.

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

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

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

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

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

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

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

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

Interphone Study

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

Results of this study did NOT show that cell phones caused brain cancer. In this study, most people had no increased risk of brain cancer from using cell phones. For people with the heaviest use of cell phones (an average of more than ½ hour per day, every day, for over 10 years) the study suggested a

slight increase in brain cancer. However, the authors determined that biases and errors prevented any conclusions being drawn from this data. Additional information about Interphone can be found at

http://www.iarc.fr/en/media-centre/pr/2010/pdfs/pr200_E.pdf.

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

International Cohort Study on Mobile Phone Users (COSMOS)

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

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

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

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

http://www.creal.cat/programes-recerca/en_projectes-creal/view.php?ID=39.

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

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

http://seer.cancer.gov/.

Cell Phone Industry Actions

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

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

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

Reducing Exposure: Hands-Free Kits and Other Accessories

Steps to Reduce Exposure to Radio Frequency Energy

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

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

Hands-Free Kits

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

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

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

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

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

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

Children and Cell Phones

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

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

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

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

- FCC RF Safety Program:
  http://www.fcc.gov/oet/rfsafety/.

- Environmental Protection Agency (EPA): http://www.epa.gov/radtown/wireless-tech.html.
- Occupational Safety and Health Administration (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/. (Note: This web address is case sensitive.)
- National Institute for Occupational Safety and Health (NIOSH): http://www.cdc.gov/niosh/.
- World Health Organization (WHO): http://www.who.int/peh-emf/en/.
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de.
- Health Protection Agency: http://www.hpa.org.uk/Topics/Radiation/.
- US Food and Drug Administration: http://www.fda.gov/Radiation-EmittingProducts/ RadiationEmittingProductsandProcedures/ HomeBusinessandEntertainment/CellPhones/default.htm.

Specific Absorption Rate (SAR) Certification Information

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

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

The RF exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg).

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

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

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the SAR limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. For body-worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the mobile device a minimum of 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines. The FCC has granted an Equipment Authorization for this mobile device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. This mobile phone has a FCC ID number: A3LSCHR970C [Model Number: SCH-R970C] and the specific SAR levels for this mobile phone can be found at the following FCC website:
http://www.fcc.gov/oet/ea/.

The SAR information for this device can also be found on Samsung's website:
http://www.samsung.com/sar.

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

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

FCC Part 15 Information to User

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

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

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

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

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

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Commercial Mobile Alerting System (CMAS)

This device is designed to receive wireless emergency alerts from 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 nonSamsung-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://fun.samsungmobileusa.com/recycling/index.jsp 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. From the Home screen, touch 📱 to launch the Phone Dialer.

3. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.

4. Touch 📞 to place the call.

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. If the mobile device has a retractable camera lens, do not use soap and water to clean the lens. Use a blower or brush or lens cleaning paper dampened in a lens cleaning 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 you 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

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. 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.

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.

M3 + M2 = 5

T3 + T2 = 5
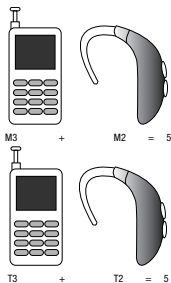
The HAC rating and measurement procedure are described in the American National Standards Institute (ANSI) C63.19 standard.

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.

Cautions

Any changes or modifications to your mobile device not expressly approved by Samsung 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]

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:

Device	1 Year
Battery(ies)*	1 Year
Case/Pouch/Holster*	90 Days
Other Device Accessories*	1 Year

*If applicable.

What is not covered?

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

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

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

What are SAMSUNG's obligations?

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

Repaired/replaced cases, pouches and holsters will be warranted for a period of ninety (90) days. All other repaired/replaced Products will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for ninety (90) days, whichever is longer. All replaced Products, parts, components, boards and equipment shall become the property of SAMSUNG. Except to any extent expressly allowed by applicable law, transfer or assignment of this Limited Warranty is prohibited.

What must you do to obtain warranty service?

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

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

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

What are the limits on SAMSUNG's liability?

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

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

SAMSUNG MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE OR SUITABILITY OF ANY THIRD-PARTY SOFTWARE OR EQUIPMENT USED IN CONJUNCTION WITH THE PRODUCT, OR THE ABILITY TO INTEGRATE ANY SUCH SOFTWARE OR EQUIPMENT WITH THE PRODUCT, WHETHER SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT IS INCLUDED WITH THE PRODUCT DISTRIBUTED BY SAMSUNG OR OTHERWISE. RESPONSIBILITY FOR THE QUALITY, CAPABILITIES, OPERATIONS, PERFORMANCE AND SUITABILITY OF ANY SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT RESTS SOLELY WITH THE USER AND THE DIRECT VENDOR, OWNER OR SUPPLIER OF SUCH THIRD-PARTY SOFTWARE OR EQUIPMENT.

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

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

What is the procedure for resolving disputes?

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

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

For any arbitration in which your total damage claims, exclusive of attorney fees and expert witness fees, are $5,000.00 or less ("Small Claim"), the arbitrator may, if you prevail, award your reasonable attorney fees, expert witness fees and costs as part of any award, but may not grant SAMSUNG its attorney fees, expert witness fees or costs unless it is determined that the claim was brought in bad faith. In a Small Claim case, you shall be required to pay no more than half of the total administrative, facility and arbitrator fees, or $50.00 of such fees, whichever is less, and SAMSUNG shall pay the remainder of such fees. Administrative, facility and arbitrator fees for arbitrations in which your total damage claims, exclusive of attorney fees and expert witness fees, exceed $5,000.00 ("Large Claim") shall be determined according to AAA rules. In a Large Claim case, the arbitrator may grant to the prevailing party, or apportion among the parties, reasonable attorney fees, expert witness fees and costs. Judgment may be entered on the arbitrator's award in any court of competent jurisdiction.

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

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

Severability

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

Precautions for Transfer and Disposal

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

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

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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