

MOBILE PHONE

User Manual

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



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Section 1: Getting Started

This section explains how to get started with your phone by installing and charging the battery, installing the micro SIM card and optional memory card, and setting up your voicemail.

Before using your device for the first time, you'll need to install and charge the battery and install the micro SIM card.

The micro SIM card is loaded with your subscription details, such as your PIN, available optional services, and many other features. If desired, you can also install an SD card to store media for use with your phone.

Important! microSIM card support is dependant on your service provider.

Understanding this User Manual

The sections of this manual generally follow the features of your phone.

Also included is important safety information that you should know before using your phone. This information is available near the back of the online user manual.

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

Unless otherwise specified, all instructions in this manual assume you are starting from the Home screen and using the available keys.

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

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

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

Special Text

Throughout 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 submenu.
- Tips: Provides quick or innovative methods, or useful shortcuts.
- 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: From the Home screen, press (Menu) → Settings →
Bluetooth

Battery Cover

The battery, micro SIM card and SD card are installed under the battery cover.

Important! Before removing or replacing the battery cover, make sure the device is switched off. To turn the device off, hold down the key until the power-off image displays, then tap Power off.

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

To remove the battery cover:

- 1. Hold the device firmly and locate the cover release latch.
- Place your fingernail in the opening and firmly "pop" the cover off the device (similar to a soda can).



To replace the battery cover:

 Position the battery cover over the battery compartment and press down until you hear a click.

Installing the microSD Memory Card

Your device supports an optional (external) microSD™ memory cards for storage of media such as music, pictures, video and other files. The SD card is designed for use with this mobile device and other devices.

Note: microSD memory cards include capacities of up to 4GB.
microSDHC™ memory card types can range from 4GB to up to
32GB. microSDXC™ memory card types can include capacities
greater than 32GB.

Note: This device supports a memory card of up to a 64GB.

- 1. Remove the battery cover.
- 2. Locate the microSD card slot on the inside of the device.
- 3. Orient the card with the gold strips facing down.
- Carefully slide the microSD card into the card socket until it clicks into place.

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



Removing the microSD Memory Card

- 1. Remove the battery cover.
- Firmly press the card into the slot and release it. The card should pop partially out of the slot.
- 3. Remove the card from the slot.
- 4. Replace the battery cover.

Battery

Before using your device for the first time, install the battery and charge it fully.

Important! Before removing or replacing the battery, make sure the device is switched off. To turn the device off, hold down the key until the power-off image displays, then tap Power off.

Installing the Battery

- 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.
- 2. Gently press down to secure the battery (2).

Removing the Battery

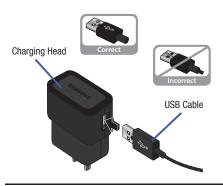
 Grip the battery at the top end (3) and lift it up and out of the battery compartment (4).



Charging the Battery

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

Before using your device 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 device to become damaged.

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

- 1. Connect the USB cable to the charging head.
- 2. Locate the Charger/Accessory jack.
- 3. Insert the USB cable into the device's Charger/Accessory jack.
- 4. 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.

Warning! 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.



Note: This illustration displays both the correct and incorrect orientation for connecting the charger. If the charger is incorrectly connected, damage to the accessory port will occur therefore voiding the phone's warranty.

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

Important! 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.

Low Battery Indicator

When the battery level is low and only a few minutes of talk time remain (~15% charge), a warning tone sounds and the

"Battery low" message repeats at regular intervals on the display. In this condition, your device conserves its remaining battery power, by dimming the backlight.

When the battery level becomes too low, the device automatically turns off.

The on-screen battery charge is represented (by default) as a colored battery icon. You can also choose to display a percentage value. Having a percentage value on-screen can provide a better idea of the remaining charge on the battery.

■ From the Home screen, press and then tap Settings → Display → Display battery percentage.

For more information, refer to "Display Settings" on page 351.

Extending Your Battery Life

Active applications, light levels, Bluetooth usage, and GPS functionality all act to drain your battery. The following is a list of helpful tips that can help conserve your battery power:

- · Reduce your backlight on time.
- Turn Bluetooth off when not in use.
- Turn Wi-Fi off when not in use.
- Deactivate the GPS when not needed. Most applications using this function will periodically query the GPS satellites for your current location; each query drains your battery.
- Do not wait until your battery is completely depleted before charging your device. Repeating this process of a complete discharge and recharge can over time reduce the storage capacity of any battery.
- Turn off Automatic application sync.
- Use the Power Saving feature to deactivate some hardware and interface functions.
- Check the Battery use screen to review what features or functions have been consuming your battery resources.
- Check the Running Services and close any unnecessary applications.

- Use the Task Manager feature to end/shutdown background applications that are still running. These minimized applications can, over time, cause your device to "slow down".
- Turn off any streaming services after use (see Running Services).
- Animated wallpapers use processing power, memory, and more power.
 Change your Live Wallpaper to a non-animated Wallpaper gallery or Gallery image.

Initial Device Configuration

- Select a language from the associated field. English is the default language.
- 2. Tap Start.
- At the Activate your phone screen, tap Activate to initiate the activation process.

Note: You may be prompted with a notification that your activation is completed.

- At the Activate mobile data servcie screen, tap Activate to initiate the data activation process.
- 5. If prompted, connect to an active Wi-Fi Access point.

- At the Got Google? screen, choose either Yes to log into your existing Google account or No to continue.
 - If you selected Yes, on the Sign in screen, enter your current Google Email and Password information and tap () Next.
 - Tap **OK** to agree to the Google legal agreements.
 - If prompted to enable purchases, tap Set up credit card and enter your credit card information and click Save.
 - Click **Skip** to continue without entering this information.
- If you indicated that you did not have a current Google account, then at the Make it Google screen, choose either Get an account to create a new account or Not now to continue.
- Select/deselect the desired Google location services and tap (Next).

Note: Enabling Google location services can drain battery power.

If prompted, enter a First and Last name then tap (Next).
 This will help to identify this as your device.

- **10.** Read the on-screen Google services disclaimer and then tap (Next). This will help to identify this as your device.
- 11. Tap Finish to complete the setup process.
- **12.** Go through the on-screen tutorial.

Switching the Device On or Off

Once the device has been configured, you will not be prompted with setup screens again.

To turn the device on:

 Press and hold (Power/End) until the device switches on.

The device searches for your network and after finding it, you can make or receive calls.

Note: The display language is preset to English at the factory. To change the language, use the Language menu. For more information, refer to "Language and Input Settings" on page 373.

To turn the device off:

- Press and hold (Power/End) until the Device options screen appears.
- 2. Tap Power off $(()) \rightarrow 0K$.

Restarting the Device

- Press and hold (Power/End) until the Device options screen appears.
- 2. Tap Restart ($) \rightarrow 0K$.

Locking and Unlocking the Device

By default, the device screen locks when the backlight turns off.

 Place your finger on the screen and swipe the glass in any of the directions shown unlock the device.

Note: You can choose to configure lock settings to prevent unauthorized use of your device. For more information, refer to "Security" on page 371.

Creating a New Google Account

You should create a Google[™] account when you first use your device in order to fully utilize available functionality. This account provides access to several device features such as Gmail[™], Google+[™], Hangouts[™], and Google Play[™] Store applications. Before you can access Google applications, you must enter your account information. These applications sync between your device and your online Google account.

To create a new Google Account from your device:

- From the Home screen, tap (Play Store).
- 2. Read the introduction and tap New to begin.
- 3. Follow the on-screen instructions to create a Google Account.
 - or -

If this is not the first time you are starting the device, tap \longrightarrow \bigcirc (Gmail).

Note: If you already have a Google account, you only need to sign in.

Signing into Your Google Account

- Launch an application that requires a Google account (such as Play Store or Gmail).
- 2. Click Existing.
- Tap the Email and Password fields and enter your information. Choose to enable/disable the option to keep yourslef up to date with news and offers, then tap OK.
- 4. Tap (Next). Your device communicates with the Google servers to confirm your information.
- 5. From the Backup and restore screen, you can enable the option to stay up to date on news and offers, then tap (Next).

Retrieving your Google Account Password

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

- From your computer, use an Internet browser and navigate to http://google.com/accounts.
- 2. Click on the Can't access your account? link.
- **3.** Follow the on-screen password recovery procedure.

Confirming the Default Image and Video Storage Location

Although the device is configured to store new pictures and videos to the Memory card, it is a very good idea to confirm this location before using your device.

Important! Too many users can overlook this storage destination until something goes wrong. It is recommended that you verify this location or change it before initiating the use of the camera or camcorder features.

- From the Home screen, tap \longrightarrow (Apps) \rightarrow (Camera).
- From the viewfinder screen, tap (Settings) and scroll up to the Storage entry.
- 3. Tap this entry and select the desired default storage location for newly taken pictures or videos. Choose from: **Phone** or Memory card.

Note: It is recommended that you set the option to **Memory card**.

to return to the Home screen.

Creating a Samsung Account

Just as important as setting up and activating a Google account to help provide access to Play Store, etc.. An active Samsung account is required to begin accessing applications such as Media Hub.

Note: The Samsung account application will manage your access to the previously mentioned applications, and there is no longer a need to remember different passwords for each application.

In a single motion, touch and drag the Status bar down to the bottom of the screen to reveal the Notifications panel and tap
 (Samsung account).

— or —

Press → I and then tap Settings → Add account → Samsung account.

- 2. If you have previously created a Samsung account, tap Sign in.
 - or -

If this is your first time, tap Create new account.

- 3. Enter your the required information and tap Sign up.
- Tap Terms and conditions and Privacy policy to read the legal disclaimers and related information.
- If you agree to the terms, place a green check mark in the I accept all the terms above field and tap Agree.
- 6. Enter your the required information and tap Sign up.

Note: You may be prompted to confirm your credentials via email.

If prompted, follow the on-screen instructions to verify your account via the provided email address.

Note: Without confirming your email address and following the documented procedures, related applications will not function properly since it is Samsung account that is managing their username and password access.

Voicemail

Setting Up Your Voicemail

Your device automatically transfers all unanswered calls to voicemail, even if your device is in use or turned off. As soon as your battery is charged, activate your voicemail account.

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

For new users, follow the instructions below to set up voicemail:

Note: Voicemail setup may be different depending on your network.

- 1. From the Home screen, tap and then touch and hold the beginning the last several and then touch and hold the last several and the last several and then touch and hold the
- You may be prompted to enter a password.
- Follow the tutorial to create a password, a greeting, and a display name.

Accessing Your Voicemail

You can access your Voicemail by either pressing and holding on the keypad, or by using the phone's Application icon, then tapping the Voicemail application. To access Voicemail using the menu:

From the Home screen, tap and then touch and hold until the device dials voicemail.

Note: Touching and holding will launch Visual voicemail if it is already active on your device.

When connected, follow the voice prompts from the voicemail center.

Accessing Your Voicemail From Another Phone

- 1. Dial your wireless phone number.
- When you hear your voicemail greeting, press the asterisk key on the phone you are using.
- 3. Enter your passcode.

Task Manager

Your device can run applications simultaneously, with some applications running in the background.

Sometimes your device might seem to slow down over time, and the biggest reason for this are background applications. These are applications that were not properly closed or shutdown and are still active but minimized. The Task Manager not only lets you see which of these applications are still active in the background but also easily lets you choose which applications are left running and which are closed.

Note: The larger the number of applications running on your phone, the larger the energy drain on your battery.

Task Manger Overview

- Press and hold (Home) and then tap (Task manager). This screen contains the following tabs:
 - Active applications display those currently active applications running on your phone.
 - Downloaded displays any installed packages or applications from the Play Store that are taking up memory space. Tap Uninstall to remove them from your phone.
 - RAM, which displays the amount of current RAM (Random Access Memory) currently being used and allow you to Clear Memory.
 - Storage displays a visual graph indicating the available and used space within the System storage and external SD card.

 Help provides additional battery saving and RAM management techniques.

Shutting Down a Currently Active Application

- 1. Press and hold (Home) and then tap (Task manager).
- From the Active applications tab, tap End to close selected applications.

– or –

Tap End all to close all background running applications.

Google Now

Google Now[®] recognizes a users' repeated actions performed on the device (including access of common locations, repeated calendar appointments, search queries, etc.). This information is then used to display more relevant information to the user in the form of "cards". These scrollable on-screen cards are displayed when the Google Now application is launched.

These cards are not manually added.

The service uses your GPS, Google Search, and usage information to generate these cards automatically.

To initially set up Google Now:

- 1. Press and hold (Home) and then tap (Google Now).
- Follow the on-screen instructions to review the available information.
- When prompted, agree to launch the application. Some initial on-screen "cards" are shown. A default is the Weather card that provides updated weather information in your area.

To configure the Google Now settings:

- 1. Press and hold (Home) and then tap (Google Now).
- 2. Press and select Settings.
- 3. Access each desired Settings page and configure it as desired.

When these condition are met, new card information will begin to appear in the Google Now list of cards.

Section 2: Understanding Your Device

This section outlines key features of your device. It also describes the device's keys, screen and the icons that display when the device is in use.

Features of Your Device

Your device is lightweight, easy-to-use and offers many significant features. The following list outlines a few of the features included in your device.

- · Touch screen with virtual (on-screen) QWERTY keyboard
- Delivering data speeds faster than the current 3G network technology.

Note: 4G network connection is dependent on your service provider.

- 4.8" HD Super AMOLED® screen (1280x720)
- Android 4.1.2, Jelly Bean Platform
- Smart Switch™ compliant. For more information, see www.samsungsmartswitch.com
- Support for Gestures (Screen Shot, Quick pause, Quick Rotate, Tap to Top of List, Missed Event Alert, and Camera Quick Access)
- Wi-Fi ® Capability
- Apps available to download from the Google Play™ Store
- AllShare[®] Play to share your media content across DLNA certified device.
 AllShare Cloud connectivity enabled via the use of an external Web storage service
- Group Play[®] screen sharing

- Compliant with AllShare Cast Hub[®]
- 8 Megapixel Camera and Camcorder with autofocus and digital zoom
- 1.9 Megapixel Front Facing camera for Video Chat
- S-Beam and Android Beam file transfer technology
- Share Shot camera sharing-capable via multi-connect Wi-Fi Direct connection
- Bluetooth enabled
- NFC-compatible
- Full Integration of Google Mobile™ Services (Gmail, YouTube, Google Maps, Google Voice Search)
- Multiple Messaging Options: Text/Picture/Video Messaging, and Instant Messaging with Windows Live Messenger, Hangouts™ and Yahoo! Messenger
- Corporate and Personal Email
- Music Player with multitasking features
- Pre-loaded e-reader applications such as: Play Books™
- Assisted GPS (Google Navigation)
- Webkit-based browser
- Reader Mode can transform content-rich Web sites into easier to read pages. Located within the browser, this feature allows users to convert existing Web pages into a more accessibly readable source
- Expandable memory slot supports up to 64GB microSD
- Video Chat via Hangouts
- Google Play™ Music
- · Compatibility with a new micro SIM card

- . Wi-Fi Calling via the use of a micro SIM card
- Access to thousands of Movies and TV Shows with the Samsung Media Hub
- . HD Video Player 1080p
 - Codec: MPEG4, H.264, H.263, VC-1, WMV7/8, VP8, MP4/3GP
 - Format: 3GP (MP4), WMV (ASF), AVI, and DivX
- · Video Player support for PIP (Picture in Picture) viewing
- DivX Certified[®] to play DivX[®] video up to HD 720p, including premium content
- Kies Air to wirelessly sync your PC with your phone via a Wi-Fi[®] connection
- Contextual tags available within the Camera application
- Multi-Window functionality
- Pop-up Play (Picture in Picture) functionality available via the video player
- Starter mode functionality converts the current User Interface into larger and easier to use format

Front View

The following illustrations show the main elements of your device. The following list correlates to the illustrations.

- Headset jack allows you to connect a hands-free headset so you can listen to music.
- Indicator light illuminates with a series of distinct colors and flashing patterns to indicate different notifications and statuses. Events include Charging, Low battery, and Missed event:
 - Powering on **blue** blinks/animates
 - . Battery Charging red remains on
 - Battery Fully Charged green remains on.
 - Low Battery or Charging Error- red blinks/animates
 - Missed Notification (Call or Messaging) blue blinks/animates
 For more information, refer to "LED Indicator" on page 353.
- Menu key displays a list of options available for the current screen. From the Home screen it displays Add apps and widgets, Create folder, Set wallpaper, Edit page, Search, and Settings options.
- Home key displays the Home screen when pressed. Press and hold to display your recent apps, Task manager, and Remove all option.

Double-press to activate S Voice.



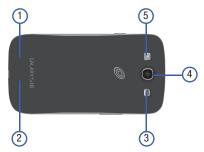
- USB Power/Accessory connector allows you to connect a power cable or optional accessories such as a USB/data cable.
- 6. Microphone is used during phone calls and allows other callers to hear you clearly when you are speaking to them. There are two microphones on the device:
 - Bottom microphone: used during handset mode.

- Top microphone: used while an active call is in the speakerphone mode and assists in noise cancellation (2 microphone solution).
- 7. Back key redisplays the previous screen or clears entries.
- Display shows all the information needed to operate your phone, such as the connection status, received signal strength, phone battery level, and time.
- Front Facing Camera allows you to take pictures while facing the screen and allows you to video conference.
- 10. Proximity Sensor detects how close an object is to the surface of the screen. This is typically used to detect when your face is pressed up against the screen, such as during a phone call.
 - While talking on the phone, the sensor detects talk activity and locks the keypad to prevent accidental key presses.
- 11. Light Sensor lets you use the ambient light level to adjust the screen brightness/contrast. This sensor decreases screen brightness in dim light.
 - In a bright light condition (outdoors), the sensors cause the device to increase the brightness and contrast for better viewing.
 - In dim light conditions, the device decreases the screen brightness to compensate.
- 12. Receiver allows you to hear the other caller and the different ring tones or sounds offered by your phone.

Back View

The following illustration shows the external elements of your Device:

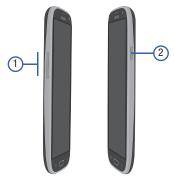
- microSD Card Slot (internal) allows you use a microSD card to expand the memory of your device.
- 2. micro SIM Card Slot (internal) Installation location for SIM card.



- External speaker allows you to hear ringers, music, and other sounds offered by your phone.
- 4. Camera lens is used to take photos.
- 5. Flash is used to take photos in low-light conditions.

Side Views

The following illustration shows the side elements of your device:



- Volume key allows you to adjust the ringer volume in standby mode (with the phone open) or adjust the voice volume during a call. When receiving an incoming call:
 - Pressing the volume key down mutes the ring tone.
- Power/End key ends a call or switches the phone off and on. Press and hold for two seconds to turn toggle the Silent mode or Airplane mode states, turn the device on or off, or Restart.

Device Display

Your display provides information about the device's status, and is the interface to manage features. The display indicates your connection status, signal strength, battery status and time. Icons display at the top of the device when an incoming call or message is received and also alerts you at a specified time when an alarm was set. The screen also displays notifications, and Application (or shortcut) bar with five primary shortcuts: Phone, Contacts, Messaging, Internet, and Apps.

Display settings

In this menu, you can change various settings for the for the wallpaper, cube, brightness or backlight.

■ From the Home screen, tap (Apps) → (Settings) → Display. For more information, refer to "Display Settings" on page 351.

Status Bar

The Status Bar shows information about the connection status, signal strength, phone battery level, and time, and displays notifications about incoming messages, calls and other actions.

This list identifies the icons you see on your phone's display screen:

Indicator Icons

This list identifies the symbols you'll see on your device's display and Indicator area:

Note: Some Notification icons can be hidden manually by toggling the status of the Notification panel function. For more information, refer to "Accessing Additional Screen Functions" on page 48.



Displays your current signal strength. The greater the number of bars, the stronger the signal.



Indicates that the Airplane Mode is active. You cannot send or receive any calls or access online information.



Indicates there is no signal available.



Displays when there is no SIM card in the phone.



Displays when a call is in progress. Icon is displayed in the Status bar area.



Displays when a call is on hold. Icon is displayed in the Status bar area.



Displays when an active call is routed through a Bluetooth headset. Icon is displayed in the Status bar area.



Displays when you have missed an incoming call.



Displays when you device is set to automatically reject calls from your Reject list or all calls.



Displays when the speakerphone is on. Icon is displayed in the Status bar area.



Displays when the microphone is muted. Icon is displayed in the Status bar area.



Displays when Call forwarding is set to Always forward. Displayed in the Status bar when the current call is minimized. For more information, refer to "Configuring Additional Voice Call Settings" on page 343.



Displays your current battery charge level. Icon shown is fully charged.



Displays when the current battery is 100 percent charged and the Display battery percentage option is enabled within the **Settings → Display** menu.



Displays your battery is currently charging.



Displays your current battery charge level is low (Charge: ~28% - 15%).



Displays your current battery charge level is very low (Charge: $\sim 15\%$ - 5%).



Shows your current battery only has up to 4% power remaining and will soon shutdown. (Charge: ~4% - 1%).



Displays when connected to the 1X network.



Displays when your phone is communicating with the 1X network.



Displays when connected to the 3G network. 3G indicator is only seen when roaming.



Displays when your phone is communicating with the 3G network. 3G indicator is only seen when roaming.



Displays when the phone has detected an active USB connection and is in a USB Debugging mode.



Displays when there is a new text message.



Displays when an outgoing text message has failed to be delivered.



Displays when there is a new voicemail message.



Displays in the notifications window when there is a new Email message.



Displays in the notifications window when there is a new Gmail message.



Displays when a new Google+ notification has been received.



Displays when the time and date for a Calendar Event has arrived. For more information, refer to "Calendar" on page 250.



Displays when an alarm is set.

For more information, refer to "Setting an Alarm" on page 254.



Displays when the device is in Silent mode.

All sounds except media and alarms are silenced, and Silent mode is set to **Vibrate**. For more information, refer to "Silent mode via Device Options Screen" on page 347.



Displays when the device is in Silent mode.

All sounds are silenced, and Silent mode is set to Mute.



Displays when data synchronization and application sync is active and synchronization is in progress for Gmail, Calendar, and Contacts.



Displays when the Blocking mode feature is active.



Displays when Bluetooth technology is active and enabled.



Displays when the Bluetooth technology is active and communicating with an external device.



Displays when the an outbound file transfer is in progress.



Displays when a file or application download is in progress.



Displays when a file is being uploaded or sync'd between your device and an external Web storage location.



Displays when the uploaded or transferred file was successfully delivered.



Displays when the Share shot option is enabled from within the Camera Shooting mode menu and images and being shared via Wi-Fi Direct.



Displays when a screen capture has been taken and stored in the clipboard.

For more information, refer to "Using Gestures" on page 58.



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



Displays when your device is currently sharing/streaming media to paired device using the Samsung Link application.



Displays when AllShare Cast Hub is active, connected to your device, and communicating.



Displays when Hangout updates are available for download.



Displays when updates are available for download.



Displays when a Play Store download has completed.



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



Displays when Wi-Fi is active and there is an available open wireless network.



Displays when Wi-Fi Direct is active and configured for a direct connection to another compatible device in the same direct communication mode.



Displays when Wi-Fi Direct is communicating with another compatible device.



Displays when a share shot has been established with other users via a Wi-Fi Direct connection.



Displays when you are currently in Emergency calling mode. You must exit this mode to resume normal calling function.



Displays in the notifications window when action is required within the Samsung account application.



Displays in the notifications window when there are too many on-screen notification icons to display. Tap to show more notifications.



Tap to select a text input method.



Displays in the notifications window when a song is currently playing within the Music Player.



Displays in the notifications window when a song is currently playing within the Play Music application.



Displays when your device's GPS is on and communicating.



Displays when the external SD card (internal microSD) has been disconnected (unmounted) from the phone and is now ready for either removal or formatting.



Displays when the External SD card is being prepared for mounting to the device. This is required for communication with the External SD card.



Displays when the microSD card has been improperly removed or unexpectedly.



Displays when Power saving mode is enabled.



Displays when the Power saving alert notification has been activated. You are then prompted to view your current battery level.



Displays when TTY device has been inserted.

For more details on configuring your phone's settings, see "Changing Your Settings" on page 321.

Notification Bar

The Notification area indicates new message events (data sync status, new messages, calendar events, call status, etc). You can expand this area to display the Notification screen that provides more detailed information about the current on-screen notification icons.

- Touch the Status bar to reveal the Notifications tab, and then drag the tab to the bottom of the screen to open the Notifications screen (1).
- **2.** Tap a notification entry to open the associated application (2).



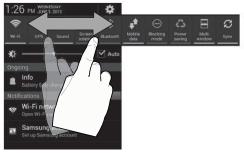


Clearing Notifications

- In a single motion, touch and drag the Status bar down to the bottom of the screen to open the Notifications screen.
- 2. Tap Clear. The notifications are cleared from the panel.

Accessing Additional Screen Functions

In addition to notifications, this screen also provides quick and ready access to separate device functions. These can be quickly activated or deactivated by toggling them on or off.



The following functions can either be activated (green) or deactivated (gray): Wi-Fi, GPS, Sound/Vibrate/Mute, Screen rotation, Bluetooth, Mobile data, Blocking mode, Power saving, Multi window, and Sync.

Function Keys

Your device comes equipped with three main function keys that can be used on any screen: **Home, Menu**, and **Back**.

Home Key

The **Home** key () takes you back to your Home screen (#4 of the 7 available screens).

 Press and hold to launch the Recent apps/Task manager screen. For more information, refer to "Accessing Recently-Used Applications" on page 70.

Menu Key

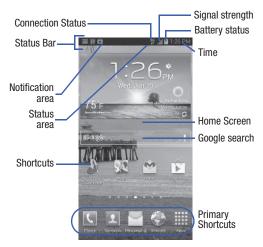
The **Menu** key () activates an available menu function for the current screen or application.

Back Key

The **Back** key () returns you to the previously active screen. If the on-screen keyboard is currently open, this key closes the keyboard.

Home Screen

The Home screen is the starting point for using the applications on your phone. There are initially seven available panels, each populated with default shortcuts or applications. You can customize each of these panels.



 Notification area displays those icons associated with end-user notifications such as: email messages, calls (missed, call in progress), new voicemail, upcoming event, USB connection, Emails, and Text/MMS messages.

- These notifications appear at the top-left of the screen (within the Status bar area) and display important user information.
- This information can be accessed by swiping down from the Status bar (page 47).
- Status area displays those icons associated with the status of the device such as communication, coverage, Bluetooth, 4G/3G,

Wi-Fi communication, battery levels, GPS, etc.

- Home Screen is a customizable screen that provides information about notifications and device status, and allows access to application Widgets.
- Extended Home Screens extend beyond the current visible screen width to provide more space for adding icons, widgets, and other customization features.
 - There are six available extended screens (panels) each of which may be populated with its own shortcuts or widgets. These screens share the use of the five Primary Shortcuts.
 - The current screen is indicated at the bottom by a white square. Up to seven (7) total screens are available.

Note: Both the status bar and primary shortcuts are visible across all screens.

- Google search is an on-screen Internet search engine powered by GoogleTM. Tap to access the Voice Actions feature where you can verbally enter a search term and initiate an online search.
 - Tap (Voice Actions) to launch the function from within this Google widget.
- Widgets are self-contained on-screen applications (not shortcuts). These
 can be placed onto any of the available screens (Home or extended).

- Shortcuts are icons that launch available device applications such as Camera, YouTube, Contacts, Phone, Email, Play Store, etc. These function the same as shortcuts on your computer.
 - Although some may already be found on the Extended Home screens, the majority can also be found within the Applications screens.
 - The Application screens can be accessed by tapping the Primary shortcuts area.
 - Shortcuts can be removed from a screen and added back any number of times.
- Primary Shortcuts: are four shortcuts present throughout all of the available screens and can be used to both navigate within the device or launch any of the following functions:
 - Phone () launches the phone-related screen functions (Keypad, Logs, Favorites, and Contacts).
 - Contacts () launches the Contacts-related screens (Phone, Groups, Favorites, and Contacts).
 - Messaging () launches the Messaging menu (create new messages or open an existing message string).
 - Internet () launches the built-in Web browser.
 - Apps toggles functionality between the Home and Application screens.
 - Tap (Apps) to access the Application screens loaded with every available local application.
 - While in the Applications screens, tap (Back) to easily return to the Home screen.

As you transition from screen to screen, a screen indicator (located at the bottom) displays the currently active panel.

Home Screen Menu Settings

When on the Home screen, press to reveal the following menu options:

- Add apps and widgets allows you to quickly access the Widget tab
 where you can then drag a selected widget to an available area on a
 selected screen
- Create folder allows you to create on-screen folders to help organize files
 of application shortcuts.
- Set wallpaper allows you to assign the current wallpaper for the Home screen, Lock screen, or Home screen and lock screens. Choose from Gallery, Live wallpapers, or Wallpapers.
- Edit page allows you to add or remove extended screens from your device. You can have up to six extended screens (one Home screen and six Extended screens).
- Search displays the Google Search box that you can use to search for a key term online.
- Settings provides guick access to the device's settings menu.
 - The Settings menu can also be accessed by pressing and then tapping → Settings.

Applications

The Application menu provides quick access to the most frequently used applications. Applications display on each of the three panels on the Applications screens.

Important! Once you log into your Google account. All previously downloaded apps should now be populated within the Application screens.

Application Screen Menu Settings

When on the Apps screen, the following menu options are available:

- 1. From the Home screen, tap (Apps).
- 2. Press and then select from the following options:
 - Play Store: provides quick access to the Play Store (page 278).
 - Edit: allows you to add a new folder to the Application screen and then drag/drop an existing application into it. This feature requires the view be set to Customizable view.
 - Create folder: allows you to create an application folder where you can better organize and group desired apps.
 - Uninstall: allows you to uninstall a user-downloaded application. Only those applications that are not default to the device can be downloaded.
 Tap to remove the selected app.
 - Downloaded applications: allows you to filter the view of apps to only those applications that you have downloaded.
 - View type: allows you to customize the way the Apps menu listing is shown (page 75).

- Share apps: allows you to share information about selected applications with external users (page 73).
- Hide applications: allows you to specify which current applications are hidden from view in this menu. Once you have selected the apps, tap Done.
- Show hidden applications: allows you to specify which previously hidden applications are can be made visible again for viewing in this menu. Once you have selected the apps, tap Done.
- 3. Press to return to the Home screen.

Important! For help closing any or all current applications, use the Task manager. For more information, refer to "Task Manager" on page 28.

Screen Navigation

Using the touch screen display and the keys, you can navigate the features of your device and enter characters. The following conventions are used in this manual to describe the navigation action in the procedures.

Navigating Through the Screens

The following terms describe the most common hardware and onscreen actions.

Press and hold: Pressing relates to use of the hardware keys and buttons
to select or activate an item. For example: press the Navigation key to
scroll through a menu. Some buttons and keys require you to press and
hold them to activate a feature, for example, you press the Power/End key
to lock and unlock the phone.

- Tap: Use a brief touch to select items on the display or to enter text on the virtual QWERTY keyboard. For example: touch an Application icon to open the application. A light touch works best.
- Touch and hold: Touch and hold an icon or key to open the available options, or to access a pop-up menu. For example: touch and hold from the Home screen to access a menu of customization options.
- Flick: Move your finger in lighter, quicker strokes than swiping. This finger gesture is always used in a vertical motion, such as when flicking through contacts or a message list.
- Swipe or slide: Quickly drag your finger vertically or horizontally across
 the screen. This allows you to move the area of focus or to scroll through a
 list. For example: slide your finger left or right on the Home screen to scroll
 among the seven panels.
- Drag: Press and hold your finger with some pressure before you start to move it. Do not release your finger until you have reached the target position.
- Rotate: Automatically change the screen orientation from portrait to landscape by turning the device sideways. For example: rotate to landscape orientation when entering text, to provide a larger keyboard, or when viewing web content to minimize scrolling.
- Pinch: "Pinch" the screen using your thumb and forefinger to zoom out when viewing a picture or a Web page. (Move fingers inward to zoom out.)
- Spread: "Spread" the screen using your thumb and forefinger to zoom in when viewing a picture or a Web page. (Move fingers outward to zoom in.)

Note: These screens can be re-arranged in any desired order. For more information, refer to "Customizing the Screens" on page 71.

 Motion Navigation and Activation: The device comes equipped with the ability to assign specific functions to certain device actions that are detected by both the accelerometer and gyroscope.

Note: Motion must be enabled for this feature to be active. For more information, refer to "Motion Settings" on page 386.

Accessing Recently-Used Apps

- 1. Press and hold from any screen to open the recently-used applications window.
- 2. Tap an icon to open the selected application.
 - or -
 - Tap Y to go to the Task manager.
 - or -
 - Tap 8 to go to Google Search.
 - or -
 - Tap \Rightarrow to delete the record of all recently used applications.

Using Gestures

By activating the various gesture features within the Motion menu (page 386), you can access a variety of time saving functions.

To activate motion:

- 1. From the main Settings page, tap Motion.
- Activate the feature by touching and sliding the Motion activation slider to the right to turn it on.
- **3.** Tap the desired on-screen motion option.

The following is a description some of the most commonly used gestures:

- Direct call: Once enabled, the device will dial the currently displayed onscreen Contact entry as soon as you place the device to your ear.
- Smart alert: Once enabled, pickup the device to be alerted and notified of you have missed any calls or messages.
- Double tap to top: Once enabled, double tap the top of the device to be taken to the top of the current on-screen list.
- Tilt to zoom: Once enabled, you must be on a screen where content can be zoomed. In a single motion, touch and hold two points on the display then tilt the device back and forth to zoom in or out.
- Pan to move icon: Once enabled, touch and hold a desired application shortcut icon or widget on the screen. Once it detaches, move the device left or right to migrate it to a new location.
- Pan to browse images Once enabled, touch and hold a desired onscreen image to pan around it. Move the device left or right to pan vertically or up and down to pan horizontally around the large on-screen image.

- Shake to update: Once enabled, shake your device to rescan for Bluetooth devices, rescan for Wi-Fi devices, Refresh a Web page, etc..
- Turn over to mute/pause: Once enabled, mute incoming calls and any
 playing sounds by turning the device display down on a surface. This is
 the opposite of the Pickup to be Notified Gesture.
- Sensitivity setting and tutorial: provides access to advanced gesture settings and tutorials such as:
 - Sensitivity settings: When any of the following features are enabled, you can then adjust their sensitivity.
 Choose from: Gyroscope calibration, Tilt to zoom, Pan to move icon, and Pan to browse images.
 - Learn about motions: tap an on-screen entry to display a brief tutorial
 on the use of the selected function.

Note: Sensitivity settings are only accessible if the gesture is currently active.

Palm swipe to capture: Once enabled, you can capture any
on-screen information swiping across the screen. In a single motion, press
the side of your hand on the screen and swipe form left to right. The image
is then copied to the clipboard.



Palm Swipe to Screen Capture

- Palm touch to mute/pause: Once enabled, you can pause any
 on-screen video or mute any current sound by simply covering the screen
 with your hand. Once you remove your hand from the screen, the device
 goes back to normal by either continuing to play the current video or
 unmuting the current sound.
- Learn about hand motions: Provides you with on-screen tutorials about selected motions such as: Palm swipe to capture and Palm touch to mute/ pause.

Gyroscope Calibration

Calibrate your device by using the built-in gyroscope.

- From the main Settings page, tap Motion → Sensitivity settings
 → Gyroscope calibration.
- Place the device on a level surface and tap Calibrate. The device adjusts the level of the accelerometer. During the calibration process a green circle appears on-screen and the center circle adjusts to the center position.

Using the Multi Window

This feature allows you to run multiple applications on the current screen at the same time.

Note: Only applications found within the Multi window panel can be active atop another current application on the screen.

When launching applications that contain multimedia files (music/video), audio from both files will be played simultaneously.

Activating and Deactivating Multi window

To activate Multi window via the Notification screen:

- In a single motion, touch the Status bar to reveal the Notifications tab, and then drag it to the bottom of the screen to open the Notifications screen (1).
- Swipe the row of icons to the left until the Multi window icon is displayed.
- Tap the Multi window entry to activate the feature (2). The icon turns green when active.





To activate Multi window via the Back button:

1. Press and hold the **Back** key (). The Multi window tab appears (by default) on the left side of the screen.

Note: Initially open activation, the entire apps panel is briefly displayed, then minimized to only show the tab.

Tap the tab to open the application panel showing all the available Multi window apps.

To deactivate Multi window:

 Press and hold the Back key (). This action hides the Multi window tab from view.

Repositioning the Multi Window

The Multi window contains two components: tab and apps panel. The tab can be manually moved across the screen. The apps panel (containing the scrollable apps) can be relocated to lock onto the different sides of the screen (top/bottom/left/right).

To move the tab:

- 1. Activate the Multi window feature.
- In a single motion, touch and hold the tab for approximately one-second, then slowly drag it to its new location along the current screen edge.

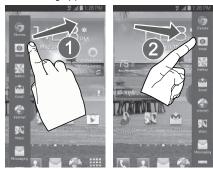
Note: This is a quick way to get the tab out of the way if you can't get to a button or option behind it.

To relocate the Multi window apps panel:

- 1. Activate the Multi window feature.
- Tap the tab to display the apps panel (containing the scrollable apps).

Note: Notice that when the apps are visible, the tab turns a dark grey. Its only in this state that the entire panel can be relocated.

In a single motion, touch and hold the grey tab
 of rapproximately one-second to detach it from the screen (1),
 then slowly drag it to its new location along any other available screen edge (2).



Customizing the Multi Window apps

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

To rearrange the Multi window applications:

- 1. Activate the Multi window feature.
- Tap the tab to display the apps panel (containing the scrollable apps).
- 3. In a single motion, touch and hold a desired app until it detaches from the panel, 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.
- Tap the tab to display the apps panel (containing the scrollable apps).
- Tap the Edit button (located at the bottom of the list) to reveal a staging area that can house any removed applications from the Multi window panel.
- 4. Tap **Done** once you have completed the removal process.

To restore a Multi window application:

- 1. Activate the Multi window feature.
- Tap the tab to display the apps panel (containing the scrollable apps).
- 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.
- 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.

Using Multi Window to run multiple apps on the same screen

Any of the apps found within the Multi window panel can be run at the same time as a current on-screen app.

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

Note: Only applications found within the Multi-window panel can be active atop another current application on the screen.

When launching applications that contain multimedia files (music/video), audio from both files will be played simultaneously.

In this example we will be launching both the Internet and Maps applications.

- Launch an application.
 - From the Home screen, tap \bigoplus (Apps) \rightarrow (Internet).
- 2. Activate the Multi window feature.
- 3. Tap the tab to display the apps panel.
- Touch and hold the desired app, such as Maps, until it detaches from the panel.
- In a single motion, drag it over the current app and drop the new Multi window app over either the top or bottom area of the current on-screen app.

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 application is still independent of the other.

To switch the arrangement of the applications:

- With the two applications shown in a split screen, tap the Border bar to show the on-screen icons.
- **2.** Tap the desired application area (top or bottom).
- Locate and tap (Switch app location). The current apps are switched.

To increase the size of a desired application window:

- With the two applications shown in a split screen, locate the Border bar indicating the edge of the app window.
- In a single motion, touch and hold the Border bar then drag it to resize the desired window.



App #2 Border Switch bar Positions

To split the current applications:

- With the two applications shown in a split screen, tap the Border bar to show the on-screen icons.
- 2. Tap the desired application area (top or bottom).
- 3. Locate and tap (Maximize the app). The current apps are the both maximized

Menu Navigation

You can tailor the device's range of functions to fit your needs using both menus and applications. Menus, sub-menus, and features are accessed by scrolling through the available on-screen menus. Your device defaults with seven screens.

Navigating Through the Application Menus

There are three default Application Menu screens available. As you add more applications from the Play Store, more screens are created to house these new apps.

- From the Home screen, tap (Apps). The first Application Menu screen displays.
 - To close the Applications screen, press (Home).
- 2. Sweep the screen to access the other menus.
- Tap any of the on-screen icons to launch the associated application.

Using Sub-Menus

Sub-menus are available from within most screen and applications.

- 1. Press 🖃 . A sub-menu displays at the bottom of the screen.
- 2. Tap an available on-screen option.



Using Context Menus

Context menus (also called pop-up menus) contain options that apply to a specific item on the screen. They function similarly to menu options that appear when you right click your mouse on your desktop computer.

Touch and hold an item on-screen to open its context menu.



Accessing Recently-Used Applications

 Press and hold to open the recently-used applications window.

Note: This recent applications screen also provides access to the Task manager.

- 2. A pop-up displays the six most recently used applications.
- 3. Tap an icon to open the recent application.

Customizing the Screens

You can customize the Home screens (panels) to display the Widgets, Shortcuts, Folders, or Wallpapers. For example, one screen could contain the Music Player shortcut and other forms of media, while another screen might contain communication apps such as Gmail.

You can customize your Home screen by doing the following:

- . Adding, Deleting, and Rearranging screens
- · Assigning a New Home screen
- Adding and Removing Primary Shortcuts
- Sharing Application Information
- Managing Shortcuts
- Adding and Removing Widgets
- Changing the Background (Wallpapers)

Adding and Deleting Screens

Your phone comes with seven screens. You can delete these screens and then add them back later.

Note: These screens can be deleted and re-arranged.

Important! Your phone can only contain at most seven screens and at least one screen.

To delete a screen:

- From the Home screen, press and then tap Edit page.
- Touch and hold, then drag the undesired screen down to the Remove tab ().
- 3. Press to return to the main Home screen.

To add a screen:

- 1. From the Home screen, press 🖃 and then tap Edit page.
- Tap (Add screen). The newly added screen appears as the last page.
- 3. Press to return to the main Home screen.

Rearranging the Screens

- From the Home screen, press and then tap Edit page.
- Touch and hold a screen and then drag it into its new location. Upper-left is screen position #1 and bottom-right is screen last screen.

Assigning a New Home Screen

- 1. From the Home screen, press and then tap Edit page.
- 2. Tap . The new Home screen then indicates this (Home screen) icon at the top of the selected screen.

Sharing an App

The device's Applications menu now comes with a feature that allows you to share information about your selected applications with external users.

- 1. From the Home screen, tap (Apps).
- 2. Press and then tap Share apps.
- Place a check mark alongside those applications you wish to share information about and tao Done.

Note: Shared applications consist of those that have previously been downloaded from the Play Store.

- Select a sharing method. Choose from: Bluetooth, Email, Gmail, Google, Google+, Hangouts, Messaging, S Memo, and Wi-Fi Direct.
- The recipient will be notified about the receipt of the new information.

Managing Shortcuts

Note: To move a shortcut from one screen to another, you must carefully touch and hold the shortcut and slowly drag it to the edge of the screen. As the shortcut turns light blue, you can begin to move it to the adjacent screen. If this does not work, delete it from its current screen. Activate the new screen and then add the selected shortcut.

To add a shortcut from the Applications screen:

- 1. Press to go to the Home screen.
- Select a screen location for your new shortcut by scrolling across your available screens until you reach the desired one.
- Tap Apps () to reveal all your current available applications. By default, applications are displayed as an Alphabetical grid.
- 4. Scroll across the screens and locate your desired application.
- Touch and hold the on-screen icon. The new shortcut then appears to hover over the current screen.
- While still holding the on-screen icon, position it on the current screen. Once complete, release the screen to lock the shortcut into its new position.

To add a shortcut via the Add to Home screen:

- 1. Press to go to the Home screen.
- 2. Navigate to a screen with an empty area.
- 3. Touch and hold an empty area of the screen.
- 4. From the Home screen window, tap Apps and widgets → Apps.
- **5.** Scroll across the pages and tap a selection.

To delete a shortcut:

- 1. Press to go to the Home screen.
- Touch and hold the desired shortcut. This unlocks it from its location on the current screen.
- 3. Drag the shortcut over the **Remove** tab ($\overline{\parallel \parallel}$) and release it.

Adding and Removing Primary Shortcuts

Note: You can change any of your primary shortcuts with the exception of the Apps shortcut.

To remove a primary shortcut:

- 1. Press to go to the Home screen.
- Touch and hold the primary shortcut you want to replace, then drag it to an empty space on any available screen. The primary shortcuts are now updated to show an empty slot.

To insert a new primary shortcut:

- 1. From the Home screen, tap (Apps).
- Locate your desired application, then touch and hold the onscreen icon to position it on a desired screen. For more information, refer to "Managing Shortcuts" on page 73.
- Locate the screen with the desired shortcut you want to add as the new primary shortcut.
- 4. Touch and hold the shortcut until it detaches from the screen.
- 5. In a single motion, touch and hold the new shortcut, then drag it to the empty space in the row of primary shortcuts. The new primary shortcut will now appear on both the Home and Extended screens.

Adding and Removing Widgets

Widgets are self-contained applications that can be placed on any screen. Unlike shortcuts, widgets appear as applications.

To add a Widget:

- 1. From the Home screen, tap (Apps) → Widgets tab.
- 2. Scroll across the Widget pages and locate a desired Widget.
- Touch and hold an available Widget until it detaches from the screen.
- While still holding the Widget, scroll left or right across the available screens and let go of the Widget to place it on your current screen.

To remove a Widget:

- Touch and hold a Widget until it unlocks from the current screen.
- 2. Drag the widget over the Remove tab () and release it.
 - As you place the Widget into the Trash, both items turn red.
 - This action doesn't delete the Widget, it just removes it from the current screen.

To place a widget onto a different screen:

- 1. Touch and hold the widget until it becomes transparent.
- Slowly drag it past the edge of the screen until the adjacent page appears highlighted and it then snaps onto the new page.
- 3. Drag the widget to its desired position on the new screen.
- **4.** Repeat these steps to continue moving it to other screens.

Managing Wallpapers

Wallpapers consist of either Gallery images (user taken), Live wallpapers (animated backgrounds), or Wallpaper gallery (default phone wallpapers).

Note: Selecting animated Live wallpapers will require additional battery power.

To change the current Home screen wallpaper:

- 1. Navigate to any screen.
 - or -
 - Press to go to the Home screen.
- 2. Touch and hold an empty area of the screen.
- From the Home screen window tap Set wallpaper → Home screen.
- 4. Select a Wallpaper type:
 - Tap Gallery to select from a user image stored in the camera image gallery, crop the image, and tap Done.
 - Tap Live wallpapers to select from a list of animated backgrounds, once done tap Set wallpaper.
 - Tap Wallpapers, scroll through the images, tap a wallpaper image, then tap Set wallpaper.

Note: Wallpapers supports the following image types: JPEG, PNG, GIF, BMP, and WBMP.

To change Wallpapers from Settings Menu:

- From the main Settings page, tap Display → Wallpaper.
- Access an available option. Choose from Home screen, Lock screen, or Home and lock screens.

Note: The Home and lock screens is an additional option that allows you to change both screens at the same time.

- 3. Select a wallpaper type (Gallery, Live wallpaper, or Wallpapers).
- 4. Choose an image and tap Done or Set wallpaper.

To change the current Lock screen wallpaper:

- Navigate to any screen, touch and hold an empty area of the screen, and tap Set wallpaper -> Lock screen.
 - or -

From the main **Settings** page, tap **Display** → **Wallpaper** → **Lock screen**.

- 2. Select a Wallpaper type:
 - Tap Gallery to select from a user image stored in the camera image gallery, crop the image, and tap Done.
 - Tap Wallpaper, scroll through the images, tap a wallpaper image, then tap Set wallpaper.

Section 3: Call Functions and Contacts List

This section describes features and functionality associated with making or answering calls, and the Contacts list, which is used to store contact information.

Displaying Your Phone Number

■ From the Home screen, press and then tap Settings → About device → Status. Your phone number displays in the My phone number field.

Note: The device's Settings menu can also be activated by pressing and then tapping (Apps) → (Settings).

Making a Call

You can store phone numbers that are regularly used to the SIM card or to the device's memory. These entries are referred to as the **Contacts list**.

- 1. From the Home screen, tap (Phone).
- 2. Enter the phone number and then tap
- If you make a mistake while dialing, tap to clear the last digit. Touch and hold to clear the entire sequence.

Note: If your screen goes black during your interaction with the device (Launching Keypad, etc.), you might be accidentally swiping over the front sensors.

Quick Dialing a Number from the Contacts List

- 1. From the Home screen, tap (Contacts).
- 2. Locate a contact from the list.
- In a single motion, touch and drag your finger over the number by going to the right. This action places a call to the recipient.



Running a Call in the Background

If you exit the current call screen and return to the Home screen, you are visually notified that you are still on an active call by the green phone icon within the Status bar.

This is the best way to stay on your current call and do something else (multi-task) such as access the Contacts list, view a recent email, locate a picture, etc..



Ending a Call

Briefly tap key to end the call.

Note: To redial a recent number, tap [1] at the end of the call or locate the number from the Logs list, tap the entry and tap Call.

Ending a Call from the Status Bar

- From an active call, you can launch a separate application or return to the Home screen. The current call is kept active in the background.
- Tap the Status bar to reveal the Notifications tab, and then drag the tab to the bottom of the screen to open the Notifications panel.
- 3. Tap End (End) to end the currently active call.

Making Emergency Calls

If you do not have a SIM card installed the first time you turn on the phone, the **Insert SIM card to make calls** message displays and an animated tutorial shows you how to install the SIM card.

Without a SIM card, you can only make an emergency call with the phone; normal cell phone service is not available.

Making an Emergency Call Without a SIM card installed

- Tap Emergency call from the on-screen display to make an emergency call.
- Enter 9-1-1 and tap _______. Complete your call. During this type of call, you will have access to the Speaker mode, Keypad, and End Call features.

Note: Selecting Location consent may drain battery power. For more information, refer to "Power Saving Mode" on page 356.

3. Tap to exit this calling mode.

Making an Emergency Call With a SIM card installed

The Emergency calling mode makes redialing an emergency number a 1-tap process. Before you can resume normal calling operations, you should first exit this mode.

- 1. Swipe the Lock screen to unlock the device.
- 2. From the Home screen, tap
- 3. Enter the emergency number (ex: 911) and then tap

- Complete your call. During this type of call, you will have access to the Speaker mode, Keypad, and End Call features.
- 5. Follow the on-screen instructions to exit the mode.

Dialing Options

When you enter numbers on the Keypad, you will see three on-screen options.

From the keypad screen, use one of the following options:

- Voicemail () to access your Voicemail service.
- Call (to call the entered number.
- **Delete** () to delete digits from the current number.

To view additional dialing options:

- Tap 🖃 :
 - Send message to send the current caller a text message while still
 maintaining the current call active.
 - Add to Contacts to add the current number to either a new or existing Contacts entry.
 - Speed dial setting to access the Speed Dialing menu where you can assign a speed dial location to a current Contacts entry.
 - Add 2 sec pause to insert a two-second pause to enter a
 2-second delay within a number string (the phone continues dialing after
 2 seconds without any additional keys being pressed.
 - Add wait to insert a hard pause within the number string (the phone waits for your input). A wait requires that any consecutive numbers be manually sent by tapping Yes.
 - Call settings to provide you access to the Call settings screen.

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 to answer the call.
 - Touch and slide 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.

If the incoming call is from a number stored in your Contacts, the entry's name is displayed. You may also see the caller's phone number, if available.



Managing Reject Calls

This feature allows you to categorize both known and unknown callers as rejected contacts. These Contacts are then added to you 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, tap (Phone).
- 2. Press and then tap Call settings page, tap Call restriction.
- 3. In a single motion touch and slide OFF to the right of the Auto reject mode slider to turn it on ON. The slider color indicates the activation status of the Auto reject mode.

- OFF: disables the automatic rejection feature. You must then manually reject incoming phone calls.
- 4. Tap the Auto reject mode field to configure your automatic rejection settings. Rejected calls are routed automatically to your voicemail. Choose from:
 - 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 single number as rejected via Auto reject list:

- 1. From the Home screen, tap (Phone).
- Press and then tap Call settings page, tap Call restriction
 → Auto reject list.
- Tap (Create) and either enter the phone number or select a Contact from your Logs or Contacts list.
- 4. Tap Save to complete the assignment.

International Calls

- From the Home screen, tap and then touch and hold
 + until the device shows "+" on-screen.
- Use the on-screen keypad to enter the country code, area code, and phone number.
- 3. If you make a mistake, tap x once to delete a single digit.
- 4. Touch and hold x to delete all digits.
- **5.** Tap (.

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 (,).
- Wait sends the next set of numbers only after tapping Yes. This is
 indicated in the number string as a semicolon (;).
 - 1. From the Home screen, tap and use the on-screen keypad to enter the phone number.
 - Press and then tap Add 2 sec pause. This feature adds an automatic two-second pause.
 - Use the keypad to enter the additional numbers that will be dialed automatically after the second pause.

Tip: You can create pauses longer than three seconds by entering multiple 2-sec pauses.

4. Tap

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.

- From the Home screen, tap and use the on-screen keypad to enter the phone number.
- Press and then tap Add wait. This feature causes the phone to require your acceptance before sending the next set of entered digits.
- 3. Tap (
- Once prompted to Send the following tones?, tap Yes to dial the remaining digits.

Redialing the Last Number

The device stores the numbers of the calls you've dialed, received, or missed if the caller is identified.

To recall any of these numbers:

- 1. From the Home screen, tap .
- 2. Tap the Logs tab to display the list of recent calls.
- 3. Tap the name/number and tap

Speed Dialing

Once you have stored phone numbers from your Contacts List, you can set up to 99 speed dial entries (2-100) and then dial them easily whenever you want, simply by touching the associated numeric key.

Note: Speed dial location #1 must be reserved for Voicemail use.

Setting Up Speed Dial Entries

Important! Speed dial location #1 is reserved for Voicemail. No other number can be assigned to this slot.

- 1. From the Home screen, tap .
- Press and then tap Speed dial setting. The Speed dial setting screen displays a virtual list of locations with the numbers 2 through 100.
- Tap an unassigned number slot. The Select contact screen displays.
- 4. Tap a contact and select a number to assign it to the speed dial location. The selected contact number/image is displayed in the speed dial number box.

Changing a Speed Dial Entry Order

- 1. From the Home screen, tap 🔃 .
- 2. Press and then tap Speed dial setting.

Important! The number 1 is reserved for Voicemail and another number cannot be assigned to this slot.

- 3. Press and then tap Change order.
- Tap the current entry then tap the new target speed dial location.

Note: Tapping 2 existing speed dial locations causes the entries to switch positions.

Press to exit the Change order screen and return to the previous screen.

Removing a Speed Dial Entry

- 1. From the Home screen, tap 📜 .
- 2. Press and then tap Speed dial setting.
- 3. Touch and hold a existing on-screen speed dial location and select **Delete** from the context menu.
 - or -

Press and then tap **Delete**. Tap an entry and select (**Remove entry**).



4. Press **t** to return to the previous screen.

Making a Call Using Speed Dial

You can assign a short cut number to a phone number in the Contacts List for speed dialing.

- 1. From the Home screen, tap
- 2. Touch and hold a previously created speed dial location (numbers 2-100, or 1 if you are dialing voicemail) until the number begins to dial.
- 3. If you are not certain of the speed dial location, tap → Speed dial setting and tap a speed dial number to view the assigned phone number.

Using S Voice

This is a voice recognition application used to activate a wide variety of functions on your device. This is a natural language recognition application.

This goes beyond the Google Search Voice Actions feature that simply recognizes Google commands and search terms. You can ask it questions (Is it raining in Dallas?) or give it commands (Show my where to find cheap gas).

- 1. From the Home screen, tap $(Apps) \rightarrow (S Voice)$.

- 2. Read the on-screen Samsung Disclaimer and tap Confirm.
- 3. Review the Terms of service and tap Agree to continue.
- 4. Navigate through the following on-screen tutorial screens by reading the information and tapping Next, or tap Skip to continue without reading the information.
- 5. Wake up the application by repeating the phrase Hi Galaxy.

Note: The wake-up command/phrase can be changed from "Hi Galaxy" to anything else. For more information, refer to "Samsung Unlock Options" on page 368.

Tap (Speak) if the device does not hear you or to give it a command.

Example 1:

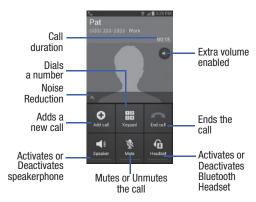
- I want to find the best pizza online.
- Tap and say "Find me the best Pizza". This launches an Internet search.

Example 2:

- . I want to find the nearest gas station.
- Tap and say "Find me the nearest gas station". This launches
 the Map application and indicates where these are in relation to your
 current position.

In Call Options

Your phone provides a number of features that are available for use during a call.



Adjusting the Call Volume

During a call, use the Volume keys on the left side of the device, to adjust the earpiece volume.

 During a call, press the Up volume key to increase the volume level and the Down volume key to decrease the level.

– or –

Tap the on-screen **Extra volume** button to increase the incoming call volume even more than by just using the volume keys.

 Enabled/disabled via the Call settings menu (Call settings → Use extra vol. for calls). For more information, refer to "Configuring General Call Settings" on page 337.

From the Home screen, you can also adjust the ring volume using these keys.

Placing a Call on Hold

You can place the current call on hold whenever you want. If your network supports this service, you can also make another call while a call is in progress.

To make a new call while a call is in progress:

- Enter the new phone number that you wish to dial or look it up in Call history.
- 2. Tap Add call to dial the second call.
- 3. Dial the new phone number and tap

Turning the Speakerphone on and off

While on a call, you can use your Speakerphone by following these steps:

- **1.** Tap (Speaker off) to toggle the speakerphone on.
- 2. Tap (Speaker on) to toggle the speakerphone off.

Tip: When the speaker is turned 0n, the color of the speaker is green.
When the speaker is turned 0ff, the color of the speaker is gray.

Muting a Call

- Tap (Mute off) to turn mute on so the other caller cannot hear you speaking.
- Tap (Mute on) to turn mute off and resume your conversation.

Switching to Bluetooth Headset

- 1. Pair the target Bluetooth headset prior to your call.
- While on a call, switch to the Bluetooth headset instead of speaker by tapping (Headset off).
- At the prompt, tap Turn on to enable Bluetooth if it is not already activated.
- While on a call, switch back to the device speaker by tapping (Headset on).

More In-call Options

During a call you can save the current caller's information to the Contacts list, or create a Memo.

Viewing the Contacts List

During a call you can look up a number in the Contacts list.

- 1. Press and then tap Contacts.
- 2. Browse the Contacts list for the information you need.
- 3. Press to return to the active call.

Creating a Message During a Call

During a call you can create a message.

- Press and then tap Message → (Compose).
- 2. Address and create the message.
- 3. Review your message and tap (Send).

Creating a Memo During a Call

During a call it may be necessary to record information (a Note).

- 1. Press and then tap Memo.
- 2. Use the keyboard to enter the note then tap Save.

Adjusting Noise Reduction

During a call it may be necessary to adjust the noise reduction feature. Activating this feature can improve the quality of your conversation by reducing ambient noise.

- Press and then tap Noise reduction off to toggle the status and activate the feature.
- 2. Press and then tap Noise reduction on to toggle the status and deactivate the feature

Adjusting the Call Sound Setting

During a call it may be necessary to adjust the sound equalizer for the current call.

- 1. Press and then tap My call sound.
- 2. Select an available option.

Choose from: Off, Soft sound, Clear sound, Optimized for left ear, or Optimized for right ear.

Multi-Party calls

Making a Multi-Party Call

A multi-party call is a network service that multiple people to participate in a multi-party or conference call.

For further details about subscribing to this service, contact customer service.

Setting up a Multi-Party Call

- 1. From the Home screen, tap 🖳 .
- 2. Dial the number for the first participant and tap
- Tap Add call, enter the second phone number and tap . The first caller is placed on hold.

4. Wait for the second caller to answer the incoming call and tap Merge. The two calls are now joined into a multi-party call and display in the order in which they were called.

Important! Multiple callers can be joined to a single multi-party line. Additional callers participate in a new Multiparty session and are held in conjunction with the previous multiparty call. You can swap or place each multiparty call on hold.

Call Waiting

You can answer an incoming call while you have a call in progress, if this service is supported by the network.

You are notified of an incoming call by a call waiting tone.

To answer a new call while you have a call in progress:

1. In a single motion, touch and slide it in any direction to answer the new incoming call. The previous caller is placed on hold and the new incoming call is made active.

Note: The new caller appears at the top of the list. The previous caller is placed on hold and appears at the bottom of the list.

Tap Swap to switch between the two calls. This places the new caller on hold and activates the previous call.

Important! The currently active call is displayed with a green background.

3. Tap Swap again to switch back.

Logs Tab

The Logs tab is a list of the phone numbers (or Contacts entries) for calls you placed, accepted, or missed. The Logs tab makes redialing a number fast and easy. It is continually updated as your device automatically adds new numbers to the beginning of the list and removes the oldest entries from the bottom of the list.

The Notification area of the Home screen (upper-left) displays phone notifications, status, or alerts such as:



Displays when a call is in progress.



Displays when a call was missed.

Accessing the Logs Tab

- 2. Tap an entry to view available options.

Note: The Logs tab only records calls that occur while the phone is turned on. If a call is received while it is turned off, it will not be included in your calling history. Each entry contains the phone number (if it is available) and Contacts entry name (if the number is in your Contacts).



Indicates all outgoing calls made from your device.



Indicates any received calls that were answered.



Indicates a missed call.



Indicates any received calls that were rejected.



Indicates auto rejected calls.

Accessing Logs from The Notifications Area

- Locate from the Notifications area of the Status bar.
- Tap the Status bar to reveal the Notifications tab, and then drag the tab to the bottom of the screen to open the Notifications panel.
- 3. Tap the Missed call entry to open the Logs screen.

This list provides easy access to redial an entry, or you can also choose to access two types of history entry lists depending on how they are touched.

Call logs - Caller Overview

- Tap a contact entry name or number to reveal the **Call options** screen:
 - Create contact to save the number if it is not already in your Contacts.
 - Update existing to update an existing Contacts entry with new information.
 - View contact to view the selected Contact's information.
 - Call allows you to redial the entry by name or number.
 - Send message allows you to create a new text message to the selected entry.
 - **Time** provides the time and date of the call and its duration.
 - Copy to dialing screen press to edit the selected number before you place your next outbound call.
 - **Delete** press to delete the Contacts entry.
 - **Send number** press to send the current Contacts entry information to an external recipient.
 - Add to reject list press to add the current phone number to an automatic rejection list. Similar to a block list, the selected caller will be blocked from making an incoming calls to your phone.
- Touch and hold an entry to display the entry-specific context menu:
 - Call [Number] to redial the current phone number.
 - Send message allows you to create a new text message to the selected entry.
 - Copy to dialing screen to make alterations to the current phone number prior to redial.
 - Add to Contacts to save the number if it is not already in your Contacts.

- Send number to send the current Contacts entry information to an external recipient.
- View contact to view the information for the currently stored Contacts entry.
- Add to reject list to add the current phone number to an automatic rejection list. Similar to a block list, the selected caller will be blocked from making an incoming calls to your phone.
- **Delete** to delete the entry from the Logs list.

Altering Numbers from the Logs List

If you need to make a call from the Logs screen and you need to alter the number prior to dialing, you can add the appropriate prefix by prepending the number.

- Touch and hold an entry to access the entry-specific context menu.
- Tap Copy to dialing screen.
- Edit the number using the on-screen keypad or delete digits by tapping to erase the numbers.
- 5. Tap once the number has been changed.

Erasing the Call logs List

You can delete either an individual call log entry or all current entries from the Logs list.

To clear a single entry from the list:

- 1. From the Home screen, tap \bigcirc \rightarrow \bigcirc
- Touch and hold an entry and select Delete → OK.

To clear all entries from the list:

- 2. Press and then tap Delete.
- 3. Tap Select all.
- 4. Tap **Delete** to continue with the erasure.
 - or -

Tap **Cancel** to stop the current process.

Viewing Missed Calls from Lock Screen

When you are unable to answer a call for any reason and your screen is locked, the number of missed calls are displayed on the Lock screen immediately after a call is missed.

- 1. Press (Power/End) to reactivate the screen.
- Touch and drag the button (with the number of missed calls on it) anywhere on the screen. The Logs tab is then displayed.

Section 4: Entering Text

This section describes how to select the desired text input method when entering characters into your phone. This section also describes the predictive text entry system that reduces the amount of key strokes associated with entering text.

Your device comes equipped with an orientation detector that can tell if the phone is being held in an upright (Portrait) or sideways (Landscape) orientation. This is useful when entering text.

Your phone also provides several on-screen keypad text entry options to make the task of text entry that much easier.

Text Input Methods

There are three text input methods available:

- Google voice typing: provides a voice to text interface.
- Samsung keyboard (default): an on-screen QWERTY keyboard that can be used in both portrait and landscape orientation.
- Swype: is enabled so as you can enter text as you swipe across the on-screen keyboard. Instead of tapping each key, use your finger to trace over each letter of a word.

The on-screen QWERTY keypad works the same in both portrait and landscape mode.

Selecting the Text Input Method

The Text Input Method can be assigned from within one of two locations:

Settings Menu:

■ From the main Settings page, tap Language and input → Default and select an input method.

Text Input field:

- From a screen where you can enter text, in a single motion, touch and drag the Status bar down to the bottom of the screen to open the Notifications screen.
- 2. Tap (Choose input method) and select an available input method

Entering Text Using Swype

Swype™ is the default 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 touch predictive text system.

The on-screen keyboard options are different between the Android keyboard and Swype on-screen input methods.

Note: If after enabling Swype you are prompted to Contribute usage date, read the on-screen disclaimer and tap either Accept or Cancel

Enabling and Configuring Swype

If you configure another text input method (Samsung keyboard) you must re-enable Swype before using the Swype keyboard.

When Swype is enabled there can also be normal keyboard functionality.

- 1. From the main **Settings** page, tap **Language and input**.
- 2. Tap Default → Swype.

For more detailed information on Swype settings, see "Swype Settings" on page 374.

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

Selecting a Text Input Mode in Swype

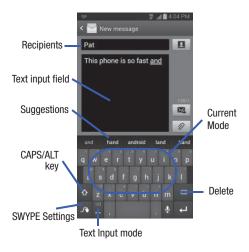
- From a screen where you can enter text, tap the text input field to reveal the on-screen keyboard.
- With Swype as your text entry method, select one of the following text mode options:
 - ABC ABC to use Swype with alphanumeric characters from the onscreen keyboard.
 - SYM (Symbol) 123 to enter numbers and symbols from the on-screen keyboard.

Note: After typing an initial uppercase character, the key changes to and all letters that follow are in lower case.

Swype Keyboard Overview

- Recipients: a field where you can enter the recipients of the current message. You can choose from Groups, Favorites, Contacts, or Logs.
- Text Input field: a field where text, number, or other characters can be entered.
- CAPS/ALT key: When in 123ABC mode, this key changes the capitalization of the subsequent entered characters. When in SYM mode, this key can show additional symbol characters.
- SWYPE settings: Touch and hold this button to access the Swype settings screen.

- Text Input mode: There are two available modes: 123ABC and SYM.
 - 123ABC mode contains alphanumeric characters and a few common punctuation marks. Text mode button indicates SYM.
 - SYM mode contains only symbols and numbers. Text mode button indicates 123ABC.



Using 123ABC Mode in SWYPE

In 123ABC mode, you can enter only letters and a few common punctuation marks from the on-screen keyboard. The text mode key shows 123.

- From a screen where you can enter text, tap the text input field to reveal the on-screen keyboard.
- Tap ABC to configure the keyboard for 123ABC mode (showing letters and numbers on the on-screen keys). Once in this mode, the text input type shows 123.

Note: After typing an initial uppercase character, the to and all letters that follow are in lower case.

- 3. Swipe your finger continuously over the letters to form a word.
 - If you make a mistake, tap to erase a single character. Touch and hold to erase an entire word.
- 4. Tap (Send) to deliver the message.



All lowercase

Displays when the next character is entered in lowercase. Pressing this while in 123SYM mode, reveals additional numeric-symbols keys.



Initial Uppercase

Displays when the first character of each word is entered as uppercase but all subsequent characters are lowercase.



All Uppercase

Displays when all characters will be entered as uppercase characters.

By default, the first letter of an entry is capitalized and the following letters are lower case. After a word is entered and you lift your finger, the cursor automatically adds a space after the word.

Note: If multiple word choices exist for your Swype entry, an on-screen popup appears to provide additional word choices.

Entering Numbers and Symbols in SWYPE

By using the on-screen keyboard in portrait mode, some symbols are not available (such as Emoticons or Smileys).

In SYM mode using Swype, you can only enter symbols and numbers from the on-screen keyboard.

Once in SYM mode, the text mode key shows



- 1. From a screen where you can enter text, tap the text input field to reveal the on-screen keyboard.
- Tap to configure the keyboard for SYM mode. Once in this mode, the text input type shows $^{\rm Edit}$.
- Tap the on-screen key for the number or symbol you want to enter.
- to select from additional symbols.

For example:

To enter ®: tap 123 +l= → 12 and select the ® key.

Using the Samsung Keyboard

This QWERTY keyboard can be used to enter text in either a Portrait or landscape orientation. The only difference between the two orientations are the sizes of the keys.

From a screen where you enter text, rotate your phone counterclockwise to a landscape orientation. The on-screen QWERTY keyboard displays.

The Samsung Keyboard

This device has a built-in, QWERTY keypad (portrait mode) or keyboard (landscape mode). Using the QWERTY keypad/ keyboard, you can type letter, numbers, punctuation, and other characters.

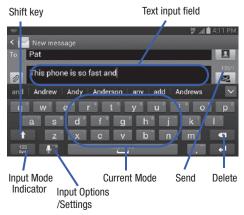
To use the Samsung keyboard you must first configure the settings to default to the Samsung keyboard.

 From the main Settings page, tap Language and input → Default → Samsung keyboard.

- or -

From a screen where you can enter text, in a single motion, touch and drag the Status bar down to the bottom of the screen, then select (Choose input method) → Samsung keyboard.

The virtual keyboard is then assigned to the Samsung keyboard configuration for all subsequent text input.



For detailed information about the Samsung Keyboard settings, see "Samsung Keyboard Settings" on page 377.

For detailed information about using Predictive Text, see "Predictive Text - Advanced Settings" on page 378.

Entering Text using Different Input Options

Although the default text input method with the Samsung keyboard is to use the on-screen keys you have other options.

Note: If you do not see the Voice typing input method button, touch and hold and drag across the icons to select (Settings) then select it from the available options.

- From within an active message, tap the text input field to reveal the on-screen keyboard.
- Tap (Input Methods) to use the default Voice typing input method to convert your spoken words to on-screen text.
 - or -

Touch and hold to select from other input methods such as:

- Handwriting to launch an on-screen handwriting area that can be used to convert on-screen patterns (text) to text.
- Clipboard to launch the device's clipboard area from where you can select a current clipboard item to place in your current message.
- Settings to access the Samsung keyboard settings menu.

Changing the Text Input Mode in Keyboard

- From a screen where you can enter text, tap the text input field to reveal the on-screen keyboard.
- With Samsung keyboard as your text entry method, select one of the following text mode options:
 - Abc ABC : to use alphabetic characters from the on-screen keyboard. In this mode, the text mode button displays

There are up to 3 available pages of numeric symbols available by tapping 1/3.

Note: After typing an initial uppercase character, tap to toggle capitalization.



All lowercase

Displays when the next character is entered in lowercase.



Initial Uppercase

Displays when the first character of each word is entered as uppercase but all subsequent characters are lowercase.



All Uppercase

Displays when all characters will be entered as uppercase characters.

By default, the first letter of a new entry is capitalized and the following letters are lowercased. After a character is entered, the cursor automatically advances to the next space.

Using ABC Mode in Samsung Keyboard

- From a screen where you can enter text, tap the text input field to reveal the on-screen keyboard.
- Tap ABC to configure the keyboard for ABC mode. Once in this mode, the text input type shows

Note: After typing an initial uppercase character, the \(\begin{align*} \) key changes to \(\begin{align*} \) and all letters that follow are in lower case.

- 3. Enter your text using the on-screen keyboard.
 - If you make a mistake, tap sto erase a single character. Touch and hold to erase an entire word.
- 4. Tap (Send) to deliver the message.

Using Symbol/Numeric Mode

Use the Symbol/Numeric Mode to add numbers, symbols, or emoticons. While in this mode, the text mode key displays ABC.

- From a screen where you can enter text, tap the text input field to reveal the on-screen keyboard. Rotate the phone counterclockwise to a landscape orientation, if desired.
- 2. Tap \$\frac{123}{\text{sym}}\$ to configure the keyboard for Symbol mode. Once in this mode, the text input type shows ABC .
- 3. Tap a number, symbol, or emoticon character.
- 4. Tap ABC to return to ABC mode.

To enter symbols:

- 1. Tap | 123 | to configure the keyboard for Symbol mode.
- 2. Tap the appropriate symbol key.
 - or -

Tap 1/3 button to cycle through additional pages.

 The first number on this key indicates which page (1, 2, or 3) of additional characters is active.

Using the Google Voice Typing

This feature uses Google voice recognition to convert your spoken words into on-screen text.

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

- From the keyboard, touch the top of the screen and drag it down to display your notification panel.
- 2. Tap (Choose input method) → Google voice typing.
- At the Listening prompt (Speak now), speak clearly and distinctly into the microphone.
- The text is displayed in the message as you are speaking.
- **4.** Tap (Done) when you are finished.

Tan O

(Resume) to resume recognition.

Note: The feature works best when you break your message down into smaller segments.

For detailed information about configuring Google Voice typing, see "Configure Google Voice Typing" on page 380.

Using Google Voice Typing

- From a screen where you can enter text, in a single motion, touch and drag the Status bar down to the bottom of the screen, then select (Choose input method) → Google voice typing. The virtual keyboard is then removed and all subsequent input to done via the microphone as text to speech.
- Speak into the device's microphone and watch your text being entered on-screen.
- 3. If the text is incorrect, tap DELETE.

Section 5: Contacts

This section explains how to use and manage your Contacts List. You can save phone numbers to your phone's memory.

Accounts

From the Accounts menu you decide if you want applications to synchronize, send, and receive data at any given time, or if you want the applications to synchronize automatically. After determining how you want the accounts to synchronize, indicate which account to synchronize with your Contacts list.

- 1. Sign in to your Google account.
- From the Home screen, tap (Apps) → (Settings) → Add account.
- Tap an account type to add.
- Follow the on-screen instructions. The selected account type synchronizes with your Contacts list.

Contacts List

Creating a Contact

The default storage location for saving phone numbers to your Contacts List is your device's built-in memory.

If existing Google and Corporate email accounts have been synchronized to your phone, these will be made available to your device during the creation of new entries. These new Contacts entries can be assigned or saved to synced accounts such as Phone, SIM, Google, or Corporate.

Your device automatically sorts the Contacts entries alphabetically. You can create either a **Phone**, **Microsoft Exchange ActiveSync**, **Samsung account**, or **Google** contact.

Note: Before you can save a contact to the Phone, Contact settings must be set to Save new contacts to Phone.

Important! The Google and Microsoft Exchange ActiveSync account types are only visible after creating an email account of those types on your phone.

• Phone contacts are stored locally on the device.

Note: If the phone is ever reset to its factory default parameters, contacts stored on the phone can be lost.

 Samsung account contacts are shared with your existing Samsung account.

- Google contacts are shared with your existing Google account and can also be imported to your phone after you have created a Google Mail account.
- Microsoft Exchange ActiveSync (also known as Work or Outlook) contacts are those contacts that are intended to be shared with either an Exchange Server or from within Microsoft[®] Outlook[®].
- Add new account lets you create a new account type. Choose from Microsoft Exchange ActiveSync, Samsung account, or Google.

Note: When storing an entry into your micro SIM card, note that only the Name, and Number are saved. To save additional information for a particular contact, such as notes, email, dates, etc., it is important to save that Contact into your phone's onboard memory.

- 1. From the Home screen, tap (Contacts).
- 2. Tap + to create a contact.

Note: You can also add a new contact by entering a number from the keypad and pressing
and then tap Add to Contacts →
Create contact. Continue with step 3.

Tap a destination type (Phone, Samsung account, Microsoft Exchange ActiveSync, or Google) (depending on where you want to save the new contact information).

- Tap the Name field and enter a name for this contact using the displayed keypad.
 - Tap to access additional name entries such as: Name prefix, First name, Middle name, Last name, and Name suffix.
- Tap the image icon and select a photo for this contact. Selections are: Image or Take picture.

Note: The label entries below can change and are dependant on the selected destination type (ex: the Other and Custom might not appear with an Exchange ActiveSync account destination type).

- Tap the label button (to the left of the Phone field) and scroll through the list to select a category such as Mobile, Home, Work, Work Fax, Home Fax, Pager, Other, Custom, or Callback.
- 7. Tap a phone number field and enter a phone number.
 - Tap on the QWERTY keyboard to remove a previously entered phone number.
 - Tap to enter an additional phone number
 - Tap to remove a previously entered phone number.

- Enter additional information such as: Email, Address, Events, Groups, Ringtone, Message alert, Vibration pattern or tap Add another field to input additional category information.
 - Add another field contains the following options: Phonetic name, Organization, IM, Notes, Nickname, Website, Internet call, or Relationship.
 - Use your finger to slide the page up or down to see additional fields and categories.
- 9. Tap Save to complete and store the new entry.
 - or -

Tap Cancel to delete the current entry.

To save a Number from your Keypad:

- 1. From the Home screen, tap (Phone).
- 2. Enter a phone number using the on-screen dialpad.
- Tap Add to Contacts → Create contact or select the Contact entry from the on-screen list.
 - or -
 - Press and then tap **Add to Contacts** → **Create contact** or select the Contact entry from the on-screen list.
 - If you're updating an existing contact, tap the entry from the list and proceed to step 5.
- Tap a destination type (Phone, SIM, Samsung account, Microsoft Exchange ActiveSync, or Google) (depending on where you want to save the new contact information).

- Tap the Name and enter a name for this contact using the displayed keypad.
 - Tap to access additional name entries such as: Name prefix, First name, Middle name, Last name, and Name suffix.
- Tap the image icon and select a photo for this contact. Selections are: Image or Take picture.

Note: The label entries below can change and are dependant on the selected destination type (ex: the Other and Custom might not appear with an Exchange ActiveSync account destination type).

- Tap the label button (to the left of the Phone field) and scroll through the list to select a category such as Mobile, Home, Work, Work Fax, Home Fax, Pager, Other, Custom, or Callback.
- 8. Enter additional fields as desired.
- 9. Tap Save to complete and store the new entry.
 - or -

Tap Cancel to delete the current entry.

Note: For further details about how to enter characters, see "Text Input Methods" on page 104

Finding a Contact

You can store phone numbers and their corresponding names onto either your SIM card, your phone's built-in memory, or an external location (such as Google or Exchange). They are all physically separate but are used as a single entity, called Contacts.

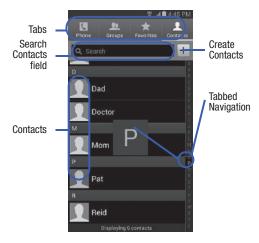
Depending on the storage size of the particular SIM card, the maximum number of phone numbers the card can store may differ.

- 1. From the Home screen, tap (Contacts).
- 2. Swipe up or down until you see the contact displayed.
 - or -

Tap the **Search** field and begin entering the entry's name. Matching entries are then displayed. This process filters through all of your current account Contact entries to only show you the matching entries.

- or -

In a single motion, touch and hold the letter tab area (on the right) until on-screen letters appear, then scroll through the list. You are then taken to that section of the Contacts list. Touch the contact entry.



Editing Contact Information

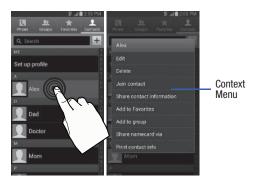
- **1.** From the Home screen, tap .
- 2. Tap a contact name from the list and tap

- or -

Press and tap Edit.

- or -

Touch and hold a Contacts entry from the main Contacts list and then tap **Edit**.



- 3. Edit the contact information then:
 - Tap **Save** to complete and store the new entry or
 - Tap **Cancel** to delete the current entry.

Adding a Number to an Existing Contact

- 1. From the Home screen, tap
- 2. Touch and hold an entry and select **Edit** to reveal the Contact entry's details screen.
- **3.** Tap a phone number field and enter a phone number.
 - Tap on the QWERTY keyboard to remove a previously entered phone number.
 - Tap to enter an additional phone number
- Enter additional information such as: Email. Address.



Contact Details Screen

Events, Groups, Ringtone, Message alert, Vibration pattern or tap Add another field to input additional category information.

- Add another field contains the following options: Phonetic name, Organization, IM, Notes, Nickname, Website, Internet call, or Relationship.
- Use your finger to slide the page up or down to see additional fields and categories.
- Tap Save to complete and store the new entry.
 - or -

Tap **Cancel** to delete the current entry.

Adding a Pause or Wait to an Existing Contact

- From the Home screen, tap and use the on-screen keypad to enter a new phone number.
- Press and then tap Add 2 sec pause. This feature adds an automatic two-second pause.
 - or –

Press and then tap **Add wait**. This feature causes the phone to require your acceptance before sending the next set of entered digits.

- 3. Tap Add to Contacts → Update existing.
- Scroll through the available list of existing entries and select the desired target.

Note: This new phone number is then added as a new number to the selected entry.

- Tap the label button (to the left of the new phone number) and scroll through the list to select a category type.
- 6. Tap Save to store and update the entry.

Deleting Contacts

Important! Once Contacts list entries are deleted, they cannot be recovered

- 1. From the Home screen, tap
- Touch and hold a contact name from the list and select Delete
 → 0K.

Contact List Options

- . From the Home screen, tap 🚨
- 2. Press . The following options display:
 - **Delete**: allows you to delete 1 or more of your contacts.
 - Import/Export: imports or exports contacts to or from the USB storage location or SD card, you can also share namecards via methods such as Bluetooth, Email, Gmail, Messaging, or Wi-Fi Direct.
 - Merge with Samsung account: allows you to merge all of your current
 Contact entries with your active Samsung account. If several of your
 contacts are from other external sources, this allows you to "back them
 up" or copy them to your Samsung account. Tap OK to continue or
 Cancel to exit
 - Merge with Google: allows you to merge all of your current Contact
 entries with your active Google/Gmail account. If several of your contacts
 are from other sources such as Corporate email, Internet email,
 Facebook, etc..., this allows you to "back them up" or copy them to your
 Gmail account. Tap OK to continue or Cancel to exit.
 - Accounts: allows you to Auto sync app data or add and manage
 mobile accounts on Samsung account, Google, or Add an account such
 as (Samsung account, Email, Facebook, Google, LDAP, or Microsoft
 Exchange ActiveSync). This option also allows you to manually
 synchronize all of your current contacts with their respective accounts.
 - Speed dial setting: allows you to set up speed-dialing.
 - Send email: allows you to send an email using your Google account.
 - Send message: allows you to send a text or picture message.

- Contacts to display: allows you to choose All contacts, Phone, Samsung account, Gmail, or only display contacts that are part of a customized list.
- Settings: provides access to Contacts settings.
 Options include: Only contacts with phones, List by, Display contacts by, Service numbers, and Contact sharing settings.

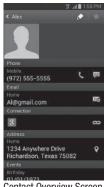
Contact Menu Options

- 1. From the Home screen, tap
- Touch and hold an entry to reveal the context menu. The following options display:
 - Edit: allows you to edit the currently selected Contacts entry.
 - Delete: allows you to delete the currently selected Contacts entry.
 - Join contact: allows you to link the current contact to another current contact. Similar to a "see also" feature. If you can't remember a contact's information, linking entries can help you find the person you are looking for.
 - Share contact information: allows you to send the current entry info via text message.
 - Add to Favorites: allows you to copy the current Contacts entry to the list within the Favorites tab.
 - Remove from favorites: allows you to remove the current Contacts entry from the Favorites tab.
 - Add to group: allows you to add the current Contacts entry to an
 existing group.

- Share namecard via: allows you to send the current Contact entry's information to an external recipient via either Bluetooth, Email (Exchange or Internet), **Gmail**, **Messaging**, or **Wi-Fi Direct**.
- Print contact info: allows you to print selected information on a compatible Samsung printer.

Contact Entry Options

- From the Home screen, tap
- 2. Tap an entry to reveal the Contact entry's Overview Screen. This screen contains Name, contact numbers, email, and linked contact information.
- 3. Press to reveal the context menu specific to this entry.
- Tap an available option.



Contact Overview Screen

Joining Contact Information

Most people now maintain multiple email accounts, social networking logins, and other similar account information. For example, a Facebook account login name might differ from a corporate email account login because they are maintained separately and for different groups of people.

This device can synchronize with multiple accounts. When you synchronize your phone with those accounts, each account creates a separate contact entry in the Contacts list.

If one of your contacts (Amy Smith) has a regular email account that you maintain in Gmail, but also has a Facebook account under her maiden and married name, as well as a Video! chat account, when you merge those accounts into your Contacts list you can join all of her entries and view the information in one record.

Joining contact information makes sending messages easy. You can select any account email address or information all from one screen, versus searching multiple, individual screens to locate the desired account information.

Next time you synchronize your phone with your accounts, any updates contacts make to email account names, email addresses, etc. automatically update in your contacts list.

- 1. From the Home screen, tap
- Tap a contact name (the name you want to link to another entry) to reveal the Contact entry's Overview Screen.

Note: Typically this is the same contact with a different name or account information.

- 3. Press and then tap Join contact.
- 4. Tap the second contact entry (the entry in which to link). The second contact is now linked with the first and the account information is merged into one screen.

Note: The information is still maintained in both entries, but displays in one record for easier viewing when you link the contacts.

Important! It is the first contact image that is displayed for both, and the first contact's name that is used.
For example: If Amy (original entry) is joined with Julie (second entry). Julie seems to disappear and only Amy remains. Tap the Amy entry (showing the Amy image) to view both.

Tap the main linked contact to view the contact information you linked. The contacts and information displays with an icon next to the contact name to indicate what type of account information is contained in the entry.

Unjoining a Contact

- 1. From the Home screen, tap
- Tap a contact name (the account name from which you want to unjoin an entry). This reveals the details for entry.

Note: Typically this is the same contact with a different name or account information.

- 3. Tap the Connection area.
 - or -

Press and then tap Separate contact.

4. Tap next to the entry you want to unjoin and select OK. The contacts are "unjoined" or separated and no longer display in the merged record screen. Both contacts now go back to being separately displayed.

Marking a Contact as Default

When you use applications such as the Voice Dialer or other messaging type applications, the application needs to know which information is primary (default) in a contact entry list. For example, when you say "Call John Smith", if you have three phone records for John Smith, the Voice dialer is looking for the "default" number or entry.

The **Mark** as default option marks one entry in a contact record to use as the default. This comes in handy when you have multiple entries for the same person.

- 1. From the Home screen, tap
 - р 🔼 .
- 2. Tap a Contact entry.

- Press and then tap Mark as default. The Mark as default screen displays radio buttons next to the contact name, phone number, or other contact information.
- Tap the radio button next to the entry information you want to be the primary information (such as name, phone number, or email) and select **Done**.

Note: If there are multiple phone numbers assigned to an entry, assigning one as the default will automatically dial that number when the contact is selected for dialing.

Sending a Namecard

A Namecard contains contact information, and can be sent to recipients as a Virtual Business Card (V-card) attachment using Bluetooth, Google Mail, or as a message.

- 1. From the Home screen, tap
- Tap a Contact entry.
- Press and then tap Share namecard via and select a delivery method: Bluetooth, Email (Exchange or Internet), Gmail, Messaging, or Wi-Fi Direct.

The Namecard attaches to the selected message type and is delivered when you send the message.

Note: Email appears as an option only after an Internet or Exchange email account has been created.

Sending All Current Namecards

Rather than selecting once Contact entry at a time, you can send all of your current entries at once.

- 1. From the Home screen, tap
- 2. Press and then tap Import/Export → Send namecard via.
- Tap Select all to place a check mark alongside all currently displayed Contact entries.
- 4. Tap **Done** and select a delivery method:
 - Bluetooth to transmit the contacts to another bluetooth-compatible device.
 - Email to attach the contact cards to a new outgoing email (Exchange or Internet).
 - Gmail to attach the contact cards to a new outgoing Internet-based email
 - Messaging to attach the contact cards to a new outgoing text message.

Note: The Web storage Upload feature requires that you are logged into your Samsung account prior to upload.

 Wi-Fi Direct to transmit the entries to another Wi-Fi Direct enabled device.

Sending a namecard using Bluetooth

You must create a Contact prior to sending a namecard to a recipient. For more information, refer to "Creating a Contact" on page 120.

- 1. From the Home screen, tap
- Touch and hold the entry to reveal the on-screen context menu.
- Tap Share namecard via → Bluetooth.

Important! You must activate Bluetooth to use this feature.

Tap the Bluetooth device in which to send this name card.
 Bluetooth forwards the namecard to the recipient.

Copying Contact Information

Copying Contact Information to the microSD Card

This procedure allows you to copy entry information saved on the phone's memory, onto the SIM card.

- 1. From the Home screen, tap
- 2. From the Contacts List, press ☐ and then tap Import/Export → Export to SD card.
- 3. Tap **0K** to choose all current phone contact entries.

Synchronizing Contacts

Syncing data from your managed accounts allows you to add and manage a new or existing contact from your online or remote accounts to your phone. Prior to syncing, you must first have an active Google or Microsoft Exchange account with current Contact entries, and be signed into your account via the phone.

With syncing, any Contacts entries (with phone numbers, email addresses, pictures, etc.) are updated and synced with your device.

- From the main Settings page and then navigate to the Accounts area.
- Select the email account containing the contacts you wish to synchronize.
- 3. Tap within the adjacent account field to reveal the account's synchronization settings screen.
- To synchronize only Contacts, toggle the active state of the Sync Contacts field. A green checkmark indicates the feature is enabled.

Note: The process of updating your Contacts tab can take several minutes. If after 10-20 minutes, your list has not been updated, repeat step 2-3.

Your Contacts tab then reflects any updated Contact information.

Note: Syncing of contacts requires you are logged into your Gmail and Corporate accounts via the device.

Display Options

The Display options menu allows you to allows you to choose which contacts to display. You can also choose to display only contacts that have phone numbers.

Note: Once a display filter has been selected, only those Contact entries are shown until the All contacts option is re-selected.

- 1. From the Home screen, tap 🔼
- Press and then tap Contacts to display. Select any of the following to filter according to the selection:
 - All contacts allows you to display all available Contacts.
 - Phone lists those Contacts currently found only on your Phone.
 - Samsung account lists those Contacts currently found and sync'd within the Samsung account.
 - Google lists those Contacts currently found within the Google account.
 - Microsoft Exchange ActiveSync lists those Contacts currently found within the Exchange account.
 - Customized list allows you to enable which account categories are displayed. For example, on Google contacts, you can filter which Contact categories are shown (Friends, Family, etc..)

Adding more Contacts via Accounts and Sync

When you synchronize applications such as Facebook, Twitter, MySpace, a corporate email account, or Google, using the Accounts and sync option synchronizes the data from the selected account type with your Contacts list.

- From the main Settings page and then navigate to the Accounts
 area
- 2. Tap Add account.
- Determine which type of account information you want to synchronize with your Contact list. Selections are: Samsung account, Email, Facebook, Google, LDAP, or Microsoft Exchange ActiveSync.
- 4. Tap an account type to add.
- Follow the prompts. The selected account type synchronizes with your Contacts list.
- After synchronizing accounts you may want to link contact information. For more information, refer to "Joining Contact Information" on page 133.

To add Facebook content to your Contacts list:

You can now add your Facebook contact information, such as pictures, email, and phone numbers directly to your Contacts list. All of their current contact information is then migrated over to your phone. If a Contacts entry already exists with a slightly different name, separate entries are created and can later be linked (joined) together into a single entry.

Important! This process not only synchronizes your contact information but also your status, events, and more.

- From the main Settings page and then navigate to the Accounts area.
- 2. Tap Add account→ Facebook.
- You are prompted to download the Facebook application from the Play Store.
 - Tap Install → ACCEPT to complete the process.
 - Tap **Open** to launch the application.
- 4. Log into your Facebook account:
 - Enter your account's access Email and Password information and tap Log in.
- If prompted, configure any requested optional permissions and tap Log in.
- Tap those contact settings you wish to synchronize (all are enabled by default). A green check mark indicates the feature is enabled.
 - Choose from: Sync interval settings, Sync Gallery, or Sync calendar.

- 7. Tap **Done** to complete the login and sync process.
- Return to the Accounts and sync screen and resync this new Social Network account.

To resvnc Social Network Contacts:

- From the main Settings page and then navigate to the Accounts area.
- 2. Tap Facebook → within the adjacent SNS account field to reveal the account's synchronization settings screen.
- Choose the parameters to sync (ex: Sync Calendar, Sync Contacts, or Sync Gallery) and tap Sync now.

Note: From the main Accounts and sync page you can also tap Sync all to resync all accounts.

Additional Contact Options

Sending an Email to a Contact

Note: Contacts must contain and email account and address before you can use the Send email feature.

- 1. From the Home screen, tap 🔲
- Press and then tap Send email. Contacts that contain an email address display.
- Tap the contact(s) to which you want to send an email. A check mark displays next to the selection.

Note: The select contact must have an email as part of their details screen.

- 4. Tap Done.
- 5. Select an email account type.
- Compose the email and tap Send.

Export/Import

For more information, refer to "Copying Contact Information" on page 138.

Contact List Settings

From this menu you can determine the default storage location for Contacts, display your phone's primary number, and view service numbers listed in your Contact list.

- 1. From the Home screen, tap 🔼
- Press and then tap Settings. Configure any of the following options:
 - Only contacts with phones allows you to display only those contacts containing phone numbers.
 - List by defines how the current list of Contacts are sorted: First name or Last name.
 - Display contacts by defines how the current list of Contacts are listed:
 First name first (ex: Steve Smith) or Last name first (Smith, Steve).
 - Contact sharing settings allows you configure how your Contacts entries are sent: individually or as a single file containing all available entries. Tap Settings to select a share setting.
 - Send all namecards allows you to set your Contact sharing option to all so that your entire Contacts entries are sent as a group and not as multiple single files. If all your entries are selected only a single file is sent.

Note: Your destination device must support this feature or no entries will be received by the external device.

 Send individual namecards allows you to set your default to send individual contacts one at a time. Even if you select all your entries, each is sent individually.

Groups

This feature allows you to add a new or existing contact to a call group. This group can be one of the already present groups (Family, Friends, or Work) or a user-created group.

Creating a New Caller Group

- 1. From the Home screen, tap \longrightarrow Groups tab).
- 2. Press and then tap Create.
- Tap the Group name field and use the on-screen keypad to enter a new group name. For more information, refer to "Text Input Methods" on page 104.
- Tap Group ringtone and select a ringtone for the group.
 Selections are: Default, Ringtones, or Go to My Files.
- Tap Vibration pattern and select a unique vibration pattern to be associated with this group.
- Tap Add member to then select from a list of available contacts, tap the contact(s) you want to add, then tap Done.
- 7. Tap Save to store the newly created group.

Note: Some externally maintained group types (such as Google) can only be managed or updated remotely online vs via the device. These external types will not allow editing or deleting members locally via the phone.

Adding an Existing Entry to a Current Caller Group

- 2. Tap a group entry \rightarrow (Add group member).
- From the available list of contacts, tap the contact(s) you want to add. A check mark displays next to contact entry.
- 4. Tap **Done**. The selected contacts are added to the group.

Removing an Entry From a Caller Group

- 1. From the Home screen, tap \bigcirc \rightarrow
- 2. Tap a group entry.
- 3. Press and then tap Remove member.
- Tap all of the contacts you want to remove from this group. A checkmark displays next to contact entry.
- 5. Tap Done. The contacts are removed from the group.

Editing a Caller Group

To edit a Group entry, there must be at least one member as part of the selected group.

- 2. Touch and hold a group entry then select Edit group.
- Make modifications to the Group name, Group ringtone, Vibration pattern, or Add member fields.
- 4. Tap Save.

Deleting a Caller Group

- 1. From the Home screen, tap \bigcirc \rightarrow \bigcirc Groups
- 2. Press and then tap Delete groups.
- 3. Select either Select all or tap the desired group.
- 4. Tap Delete.

Sending a Message to a Group

- 1. From the Home screen, tap \longrightarrow .
- 2. Tap an existing group, and press and then tap **Send** message.
 - or -

Touch and hold a group entry and select Send message.

- Select the recipients of the new message (indicated by a green checkmark). If an entry contains multiple phone numbers, each must be selected individually.
- 4. Tap Done.
- 5. Type your message, and tap (Send).

The Favorites Tab

The Favorites tab is a list of the phone numbers that have been designated as favorite contacts. For more information, refer to "Logs Tab" on page 99.

- 1. From the Home screen, tap .
- 2. Tap (Favorites tab).

Adding a contact to your favorites list:

- From within the Favorites tab, press and select Add to favorites.
- Place a check mark alongside those current Contacts entries you wish to assign as favorites.
- 3. Tap Done to complete the process.

Section 6: Messages

This section describes how to send or receive different types of messages. It also explains the features and functionality associated with messaging.

Types of Messages

Your phone provides the following message types:

- Text Messages
- Multimedia (Picture, Video, and Audio) Messages
- Email and Gmail Messages
- Hangouts
- Google+
- Messenger

The Short Message Service (SMS) lets you send and receive text messages to and from other mobile phones or email addresses. To use this feature, you may need to subscribe to your service provider's message service.

The Multimedia Messaging Service (MMS) lets you send and receive multimedia messages (such as picture, video, and audio messages) to and from other mobile phones or email addresses. To use this feature, you may need to subscribe to your service provider's multimedia message service.

Important! During the creation of a text message, adding an image, sound file, or video clip automatically changes it from a text message (SMS) to a multimedia message (MMS).

Message Icons on the Status Bar

Messaging icons are displayed on the Status Bar at the top of the display when new messages are received. For more information, refer to "Status Bar" on page 39.

Note: The Messaging application can also be accessed by pressing and then tapping (Apps) → (Messaging).

Creating and Sending Messages

- From the Home screen, tap (Messaging) → (Compose).
- 2. Tap the Enter recipient field to manually enter a recipient.
 - or -
 - Tap to select from one of 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.
- If adding a recipient from these categories, tap the contact to place a checkmark then tap **Done**. The contact displays in the recipient field.

Note: Delete any unnecessary members by tapping their name/number in the recipient area and selecting Delete.

- Add more recipients by tapping either the Enter recipient field or and selecting recipients.
- Tap the Enter message field and use the on-screen keypad to enter a message. For more information, refer to "Text Input Methods" on page 104.
- **6.** Review your message and tap (Send).
- If you have more than one recipient, the same text message is sent to all recipients in the Enter Recipients field.

Note: If you exit a message before you send it, it will be automatically saved as a draft.

Quick Messaging a Number from the Contacts List

- From the Home screen, tap (Contacts).
- 2. Locate an entry from the Contacts list.
- In a single motion, touch and drag your finger over the number by going to the left. This action addresses a new text message to the selected recipient.



Message Options

Options before composing a message

- From the Home screen, tap (Messaging).
- Before composing a message, press from the main Messaging screen to display additional messaging options:

 - Delete threads: allows you to delete any message thread. Select the messages to delete and a green checkmark will appear next to the message. Tap Delete. For more information, refer to "Deleting a single message thread" on page 160.
 - **Draft messages**: displays the draft messages folder and its contents.
 - Locked messages: displays the locked messages folder and its contents.
 - Save messages: allows you to select available messages for storage and archiving. Select the desired messages and tap Save.
 - Settings: allows you to access Messaging settings. For more information, refer to "Messaging Settings" on page 161.
 - About: displays information about the messaging application.

- 3. Touch and hold an on-screen message and select an option:
 - Add to Contacts: allows you to add the sender to either a new or existing Contacts entry.
 - View contact: allows you to view the current entry information for the sender.
 - Delete thread: deletes the entire message and its bubbles. Deleting a single message threadFor more information, refer to "Deleting a single message bubble" on page 160.
 - Save messages: allows you to select available messages for storage and archiving. Select the desired messages and tap Save.

Options while composing a message

- 1. From the Home screen, tap (Messaging).
- 2. From within an open message, press to display additional messaging options:
 - Call: places an outgoing call to the sender.
 - Insert smiley: allows you to add insert smiley icons images (emoticons).
 - Add text: allows you to add text items from sources such as:
 S Memo, Calendar, Contacts, and Text templates.
 - Preview (only in MMS): allows you to add preview the MMS message prior to delivery.
 - Add to Contacts: uses the current information to create a new Contacts entry.
 - View contact: reveals the current Contact's overview screen.
 - Add slide: converts an SMS message into an MMS (Multimedia) message and allows you to attach an existing slideshow.

- **Delete slide**: allows you to remove a previously attached slideshow.
- Add subject: allows you to enter a subject.
- Delete subject: allows you to erase a selected subject.
- Duration (5 sec) (only in MMS): allows you to change the duration of the image slideshow.
- Layout (bottom) (only in MMS): allows you to change the layout.
- Add recipients: allows you to enter additional recipients to the message.
- Delete messages: allows you to erase either select specific message bubbles or all current messages bubbles.
- Save messages: allows you to save selected message bubbles.
- **Discard**: closes the current open message.

Adding attachments to a message

To add an attachment to your message, tap (Attach) and select one of the following options:

- Images: allows you to tap an existing image from your Pictures list to add it to your message.
- Take picture: allows you to temporarily exit the message, take a photo with phone's camera, and then add it to your message by tapping Save.
- Video: allows you to choose an existing video from the Videos list, then add it to your message.
- Capture video: allows you to temporarily exit the message, record a video clip using the phone's camera, and then add it to your message by tapping Save.

- Audio: allows you to choose an existing audio file from the Audio list, then add it to your message by tapping the circle to the right of the audio so that it turns green, then tapping OK.
- Record audio: allows you to temporarily exit the message and record an
 audio clip using the phone's microphone. It is then automatically attached
 to the message.
- S Memo: allows you to add an S Memo that you have created.
- Calendar: allows you to add an event from your calendar.
- Location: allows you to attach a thumbnail of a map showing your location.
- Contacts: allows you to tap on an existing Address Book entry, then add it to your message by tapping Done.

Adding Additional Text

You can copy text such as names, phone numbers, and events from your Contacts, Calendar, or a Memo.

- 2. At the Add text screen, select one of the following:
 - **S Memo**: allows you to insert text from an existing S Memo.
 - Calendar: allows you to add the name, date, and time of a calendar event to your message.
 - Contacts: allows you to add the name and phone number of any of your contacts to your message.
 - Text templates: allows you to add pre-defined phrases and sentences.
 For more information, refer to "Text Templates" on page 165.

The information is added to your message.

Viewing Newly Received Messages

When you receive a message, your phone notifies you by displaying within the Notification area at the top left of your Home screen.

To read a message:

screen.

- Open the Notification Bar and select the message. For more information, refer to "Notification Bar" on page 47.
 - or From the Home screen, tap then tap the new message to view its contents. The selected message displays on the
- 2. Tap (to play a multimedia message.
 - To pause playback of the multimedia message, tap 11.
- In a single motion, touch and drag up or down the page to scroll through the message (if additional pages were added).

Message Threads

Sent and received text and picture messages are grouped into message threads. Threaded messages allow you to see all the messages exchanged (similar to a chat program) and displays a contact on the screen.

Message threads are listed in the order in which they were received, with the latest message displayed at the top.

To reply to a text message:

- 1. From the Home screen, tap
- While the message is open, tap the Enter message field and then type your reply message.



Text Message Thread

3. Compose your reply.

Your texts are colored Blue and your caller's replies are Yellow.

4. Tap (Send) to deliver your reply.

- or -

Press and then select one of the available message options (page 153).

To access message thread options:

- From the main Messaging screen, touch and hold the message to display the following options:
 - View contact: displays the Contact's Overview page.
 - Add to contact: begins the process of adding the new number to your Contacts list
 - **Delete thread**: deletes the currently selected message thread.
 - Save messages: allows you to select available messages for storage and archiving. Select the desired messages and tap Save.

To access additional Bubble options:

- Touch and hold the message bubble within an active message conversation to display the following options:
 - Delete message: deletes the currently selected message bubble from the thread.
 - Copy message text: copies the currently selected message bubble from the thread.
 - Lock/Unlock message: locks or unlocks the currently selected message bubble from being accidentally deleted.
 - Forward: allows you to forward the currently selected message bubble to an external recipient.
 - Save message: allows you to save a selected message bubble.
 - View message details: displays details for the currently selected message bubble.

Deleting Messages

Deleting a single message thread

- 1. From the Home screen, tap
- Touch and hold a message from the Messages list, then select Delete thread.
- 3. At the prompt, tap OK to delete or Cancel to exit.

Deleting multiple message threads

- 1. From the Home screen, tap .
- 2. Press and then tap Delete threads.
- Tap each message thread you want to delete. A checkmark displays beside each selected message.
- 4. Tap Delete.
- 5. At the prompt, tap **OK** to delete or **Cancel** to end the process.

Deleting a single message bubble

- 1. From the Home screen, tap
- 2. Open a message to reveal the message string.
- 3. Touch and hold a message bubble, then select **Delete message**.
- 4. At the prompt, tap **OK** to delete or **Cancel** to exit.

Deleting multiple message bubbles

- 1. From the Home screen, tap .
- 2. Open a message to reveal the message string.
- 3. Press and then tap Delete messages.
- Place a check mark on the individual bubbles targeted for deletion or choose Select all.

5. Tap Delete to erase or Cancel to exit.

Message Search

You can search through your messages by using the Message Search feature.

- 1. From the Home screen, tap .
- 2. Press and then tap Search.
- 3. Use the on-screen keypad to enter a word or phrase in which to search, then tap .
- 4. All messages that contain the entered search string display.

Messaging Settings

To configure the settings for text messages, multimedia messages, Voice mails, and Push messages.

- 1. From the Home screen, tap .
- 2. Press and then tap Settings.

The following Messaging settings are available:

Display

- Bubble style: allows you to choose from several bubble styles for your messages. Bubbles are the rounded boxes that surround each message.
- Background style: allows you to choose from several background styles for your messages.
- Use the volume key: allows you to change the text size by using the up or down volume keys.

General settings

- Restore messages: restores previous saved messages to your inbox.
- Delete old messages: deletes old messages when the limit is reached, rather than overwriting them.
- Text message limit: allows you to set a limit on how many text messages are allowed in one conversation.
- Multimedia message limit: allows you to set a limit on how many multimedia messages are allowed in one conversation.
- **Text templates**: provides access to the text templates.

Text message (SMS) settings

 Auto combination: when this option is activated, multi-segment messages are re-assembled show they can be shown as a single message.

Multimedia message (MMS) settings

- Auto-retrieve: allows the message system to automatically retrieve messages.
- MMS alert: alerts you when the messaging modes changes from an SMS (text) to MMS (multimedia) mode.
- Group conversations: when this option is activated, the device sends messages as a group conversation.

Notification settings

- Notifications: allows you to see message notifications on your status bar.
- Select ringtone: allows you to set the ringtone for your message notifications.

- Vibrate: allows you to configure the vibration mode associated with message alerts.
- Message alert repetition: allows you to set the interval for new message alerts. Choose from: Once, Every 2 minutes, or Every 10 minutes
- Preview message: when enabled, allows you to view a brief preview of new message text on the Status bar.

Emergency message settings

Emergency alerts: allows you to configure emergency alert settings.
 You can enable/disable those alert categories you wish to receive.
 Choose from: Imminent extreme alerts, Imminent severe alert, and
 AMBER alerts.

Note: The Presidential alert can not be disabled.

- Emergency notification preview: allows you to play a sample emergency alert tone. Tap Stop to cancel the playback.
- Vibrate: when enabled, this activates vibration for emergency alert notification.
- Alert reminder: when activated, sets the alert reminder interval. Choose from: Once, Every 2 minutes, Every 15 minutes, or Off.

Signature settings

- Add signature: when enabled, this feature allows you to create a signature at the end of your outgoing text messages.
- Signature text: allows you to enter a desired signature for your message.

Emergency Alert Configuration

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.

Emergency Alerts allows customers to receive geographically-targeted messages. Alert messages are provided by the US Department of Homeland Security and will alert customers of imminent threats to their safety within their area. There is no charge for receiving an Emergency Alert message.

There are three types of Emergency Alerts:

- · Alerts issued by the President
- · Alerts involving imminent threats to safety of life
- · AMBER Alerts (missing child alert)

Customers may choose not to receive Extreme Alerts, Severe Alerts, and AMBER Alerts.

Important! Alerts issued by the President can not be disabled.

To disable Extreme, Severe, and AMBER Alerts:

- 1. From the Home screen, tap
- Press and then tap Settings.
- Scroll to the bottom and select Emergency alerts. All alerts are enabled by default (checkmark showing).

Tap on an alert option to disable the alert and remove the checkmark.

Text Templates

This screen displays your available text message reply templates. This is a readily accessible list of both default and user-defined text snippets that can be used to quickl<u>v re</u>ply to incoming messages.

- 1. From the Home screen, tap
- From the Messaging list, press and then tap Settings → Text templates.
- Tap a message to immediately insert it into your current message conversation.

To create your own text template:

- 1. From the Home screen, tap .
- From the Messaging list, press and then tap Settings → Text templates.
- 3. Tap (Create text template).
- 4. Enter a new text string and tap Save.

Using Email

Email (or Internet Email) enables you to review and create email using several email services. You can also receive text message alerts when you receive an important email. Your phone's Email application lets you access and manage multiple email accounts simultaneously in one convenient location.

There are currently three main types of email accounts on your phone: Gmail, Internet-based email (Gmail, Yahoo, etc..), and Microsoft Exchange (Corporate email or Outlook $^{\otimes}$).

To send and receive email messages through an ISP (Internet Service Provider) account, or if you wish to use your device to access your corporate email through a VPN (Virtual Private Network), you will first need to set up an IMAP or POP account.

- IMAP (Internet Message Access Protocol) This protocol is frequently
 used in large networks and commercial settings. IMAP4 is the current
 standard.
- POP3 (Post Office Protocol) This protocol is supported by most ISPs (Internet service providers) and common among consumer applications.
 POP3 is the current standard.
- Microsoft Exchange ActiveSync This protocol is frequently used with a large corporate email server system and provides access to email, contact, and calendar synchronization.

Creating an Internet Email Account

- 1. From the Home screen, tap \longrightarrow (Apps) \rightarrow (Email).
- 2. If you already have other email account setup:
 - Open an existing email account, press and then tap Settings →
 ↓ (Add new account).
 - or -

Enter your Email address and Password information.

- Email address: your Internet email address.
- Password: typically your network access password (case-sensitive).
- Tap Show password to display the password as you enter it in the associated field.
 - Tap Manual setup to configure your connection settings manually (POP3 or IMAP). Follow the on-screen prompts and enter the information specific to your email provider.
- 4. Tap Next.
- At the Account options screen, select the frequency which the device should check for new email on the server and tap Next.
 - Tap the Notify me when email arrives field to receive new email notifications.
 - Tap the Automatically download attachments when connected to Wi-Fi field to assist with faster access to large email attachments when using Wi-Fi.
- At the Set up email screen, name the account and enter a screen name to identify yourself on this account.

- The unique account name is used to differentiate this account from other email accounts accessed by your device.
- 7. Tap Done to store the new account.

Messages for this account display on the Inbox tab. You can also view Personal information for this account, Receipts (if you setup the account to return receipts), Travel information, and more (if available).

Opening an Email

- From the Home screen, tap → (Email).
- Tap the account name field (upper-left) to open the complete email account list page.
 - Selecting Combined view allows you to view all the emails for your current accounts, managed by the application, to be listed on a single screen.
- Select an email account and tap an email message.

Refreshing Email messages

- Select an email account.
 - If you are already in an email account, tap the account name field (upper-left) to open the complete email account list page.
 - Select an available email account.
- 3. Tap (Refresh).

Composing Email

- **1.** From the Home screen, tap \longrightarrow \bigcirc (**Email**).
- Tap the account name field (upper-right) to open the complete email account list page.
- 3. Tap Inbox → (Compose).
- 4. Enter the recipient's email address in the To field.
 - If you are sending the email message to several recipients, separate the email addresses with a comma. You can add as many message recipients as you want.
- Press and then tap Add Cc/Bcc to add additional carbon copy recipients.
 - Use the **Cc** field to carbon copy additional recipients.
 - Use the **Bcc** field to blind copy additional recipients.
- 6. Tap the Subject field and enter the email subject.
- 7. Tap the email text field and compose your email message.
 - To add an attachment (such as image, video, audio, etc..),
 tap Attach (from the top of the screen) and make a category selection.
 - Tap the file you wish to attach.
 - Tap to delete the attached file.

Note: If you attach an image to your email, you have the option to resize it prior to delivery. Choose from: Original, Large (70%), Medium (30%), or Small (10%). Once chosen, tap **OK**.

8. Once complete, tap (Send).

Configuring Email Settings

- 1. From the Home screen, tap \longrightarrow \bigcirc (Email).
- 2. Select an account.
 - Press and then tap Settings → <Account>.
- 4. Alter any of the following settings:
 - Account name: displays your uniquely created account display name.
 - Your name: displays the name used in the From field of your outgoing email messages.
 - Signature: Lets you attach a customized signature to the bottom of all outgoing emails.
 - In a single motion touch and slide the **Signature** slider to the right to turn it on.
 - Tap the Signature field, change the current text, and tap **0K** to save the new signature.
 - Default account: Assign this account as the default email account used for outgoing messages.
 - Always Cc/Bcc myself allows you to include your own email address in either the CC, Bcc, or None fields. Lets you always receive a copy of outgoing emails.
 - Forward with attachment: Lets you include attachments when forwarding an email.
 - Recent messages: adjusts the number of on-screen messages shown in the current category list at any one time.
 - Show images: allows you to view embedded images located within the body of the currently displayed email.

- Sync Email: enables automatic email synching between your device and the remote server.
- Auto download attachments: allows the device to automatically download email attachments when an active Wi-Fi connection is detected. This process speeds up the process of downloading an emails attachments for offline review by not using a 3G or 4G network connection.
- Size to retrieve emails: configures the incoming email size allowed to pass through to your phone automatically without user interaction.
 Emails with attachments larger than configured will have to be retrieved manually.
- Auto resend times: enables the device to resend an outgoing email a specified number of times if delivery fails.
- Sync schedule: allows you to control the email sync schedule on both Peak and Off-Peak times.
- Email notifications: Activates the email notification icon to appear within the Notifications area of the status bar when a new email (Gmail, etc..) is received.
- Select ringtone: Plays a selected ringtone when a new email message is received.
- Vibrate: Activates a vibration when a new email message is received.
- Incoming settings: Lets you specify incoming email settings, such as
 User name, Password, IMAP server, Security type, Port, and IMAP path
 prefix.

 Outgoing settings: Lets you specify outgoing email settings, such as SMTP server, Security type, Port, Require sign-in, User name, or Password.

Note: Some the above options may not be displayed when using some Internet account types.

Microsoft Exchange Email (Outlook)

Your phone also provides access to your company's Outlook Exchange server. If your company uses either Microsoft Exchange Server 2003 or 2007, you can use this email application to wirelessly synchronize your email, Contacts, and Calendar information directly with your company's Exchange server.

Setting Up a Microsoft Exchange Email account

- **1.** From the Home screen, tap \longrightarrow \bigcirc (Email).
- 2. If you already have other email account setup:
 - Open an existing email account, press and then tap Settings →
 ↓ (Add new account).
 - or -

Enter your Email address and Password information.

- Email address: your Outlook work email address.
- Password: typically your network access password (case-sensitive).
- Tap Send email from this account by default, to make this your default email account for outbound emails.
- Tap Show password to display the password as you enter it in the associated field.

Note: If selected, the Manual setup button changes to read Microsoft Exchange ActiveSync. If activated, skip to step 6.

- Tap Next. Consult your Network or IT Administrator for further details and support.
- Tap Microsoft Exchange ActiveSync (from the add new email account screen).

Note: If prompted with an on-screen notification that the connection that the "Setup could not finish", tap **Edit details** to continue with a manual update of necessary information.

 When prompted to provide additional detailed information within the Exchange server settings screen, enter an updated Domain, and confirm your user name and Password information.

Important! Remember to manually place the cursor in the correct spot and enter a Domain name before the "[Domain]\[user name]" entry. Most servers only provide a username.

- Update or re-enter your Exchange server information within the appropriate field. This field can often be populated with incorrect or out of date information provided by your server.
 - Exchange Server: your exchange server remote email address.
 Typically starts with mail.XXX.com. Obtain this information from your company network administrator.

Important! Do not accept the default entry as this is a guess based on returned information.

- If your network requires SSL encryption, tap the Use secure connection (SSL) field to place a check mark in the box and activate this additional level. Most often, this option should be enabled.
- If your network requires that you accept SSL certificates, tap the Accept all SSL certificates field to place a check mark in the box and activate this additional level. Most often, this option is not required. Confirm this information with your IT Administrator.

Important! If your Exchange server requires this feature, leaving this field unchecked can prevent connection.

- Consult your IT Administrator if it is necessary to enable the Use client certification option.
- 10. With the new server information entered, tap Next.
- Read the on-screen Activation disclaimer and, when prompted, tap 0K. The device then verifies your incoming server settings.
- 12. If prompted, read the Remote security administration information and tap OK to accept the service and continue.
- Adjust the various on-screen configuration fields and tap Next.
 It may take a few seconds for the next screen to load.
 - Enabling the Automatically download attachments when connected to Wi-Fi option decreases the wait time to access large email attachments

14. If prompted, read the Activate device administrator? screen and tap Activate to complete the email setup process.

Note: This process can take a few minutes. If the previous setup screen re-appears, ignore it and do not alter any fields during this process.

 Identify your new work email account with a unique name (Ex: Work), then tap Done.

Opening an Exchange Email

- 1. From the Home screen, tap \longrightarrow \bigcirc (Email).
- Tap the account name field (upper-left) to open the complete email account list page.
- 3. Select an exchange email account and tap an email message.

Refreshing Exchange Email

- 1. From the Home screen, tap \longrightarrow \bigcirc (Email).
- 2. Select an email account.
 - If you are already in an email account, tap the account name field (upper-left) to open the complete email account list page.
 - · Select an available email account.
- 3. Tap (Refresh).

Composing Exchange Email

 For more information, refer to "Composing Email" on page 169.

Deleting an Exchange Email Message

- Touch and hold an email (from your inbox list) and select
 Delete from the on-screen context menu.
 - or –

With the email message displayed, tap (Delete).

Configuring Microsoft Exchange Email Settings

- From the Home screen, press and then tap Settings and then navigate to the Accounts area.
- Tap the Microsoft Exchange account and Settings →
 <Exchange email account>.
 - or —

From the current Email inbox listing, press and then tap Settings > < Exchange email account > and specify the email settings you wish to synchronize:

- Account name displays the name used by the device to track the account
- Signature: Lets you attach a customized signature to the bottom of all outgoing emails.
 - In a single motion touch and slide to the right to turn it on.
 - Tap the Signature field, change the current text, and tap Done to save the new signature.
- Default account: Assign this account as the default email account used for outgoing messages.

- Always Cc/Bcc myself allows you to include your own email address in either the CC, Bcc, or None fields. Lets you always receive a copy of outgoing emails.
- Forward with attachment: Lets you include attachments when forwarding an email.
- Show images: allows you to view embedded images located within the body of the currently displayed email.
- Auto download attachments: allows the device to automatically download email attachments when an active Wi-Fi connection is detected. This process speeds up the process of downloading an emails attachments for offline review by not using a 3G or 4G network connection.
- Period to sync Email to assign the sync range for your incoming and outgoing email messages between your phone and your external exchange server. How many days worth of email messages should the phone and server synchronize. Choose from: Automatic, All, 1 day, 3 days. 1 week. 2 weeks. or 1 month.
- Empty server trash: allows you to delete your email account's trash bin remotely.
- Sync schedule allows you to configure your email sync schedule.
- Folder sync settings allows you to configure the sync settings for various folders such as Inbox, Drafts, Outbox, etc..
- Out of office settings allows you to both activate/deactivate your email's
 out of office settings, and configure both the start/end dates and your
 outgoing message.

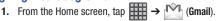
- Size to retrieve emails configures the incoming email size allowed to pass through to your phone automatically without user interaction.
 Emails with attachments larger than configured will have to be retrieved manually.
- Period to sync Calendar assigns a period for your phone to sync calendar events. Choose from: 2 weeks, 1 month, 3 months, 6 months. or All calendar.
- Security options: allows you to enable several security options such as: Encryption, Encryption algorithm, Sign, Sign algorithms, Email certificates, and Security policy list. These security policies could restrict some functions from corporate servers.
 - Security policy list: lists the current email's security policy. These
 policies could restrict some functions from corporate servers.
- In case of sync conflict allows you to assign the master source on emails. If there is a conflict with the current email sync you can assign the server as the main source for all emails (Server has priority) or assign the phone to be the main source and update the server accordingly (Device has priority).
- Auto resend times enables the phone to resend an outgoing email a specified number of times if delivery fails.
- Email notifications enables the phone to display a status bar icon when new email messages have been received.
- Select ringtone assigns an audible ringtone when a new or upcoming event is pending.
- Vibrate assigns a vibration when a new or upcoming event is pending.

- Exchange server settings provides access to the Domain\user name. Password, and Exchange server settings.
- Sync Email synchronizes emails between your device and the remote exchange server.
- Sync Contacts synchronizes the contacts between your device and the remote exchange server.
- **Sync Calendar** synchronizes your exchange calendar entries between your device and the remote exchange server.
- Sync Task synchronizes your exchange tasks entries between your device and the remote exchange server.
- 3. Press to return to the previous page.

Using Google Mail

Google Mail (Gmail) is Google's web-based email. When you first setup the phone, Gmail is configured. Depending on the synchronization settings, Gmail is automatically synchronized with vour Gmail account.

Signing into Google Mail



Note: You must sign in to your Gmail account in order to access features such as Google Mail and Play Store.

2. Tap New if you do not have a Google account.

- or -

Tap **Existing** if you have a Google account.

The Inbox loads conversations and email.

Opening Gmail

- 1. From the Home screen, tap \longrightarrow (Gmail).
- 2. Tap an existing email message.

Refreshing Gmail Mail

 From within the Gmail message list, tap Gmail (Refresh) at the bottom of the screen to refresh the screen, send and receive new emails, and synchronize your email with the Gmail account

Other Gmail Options

- From the main Gmail Inbox screen, tap (Labels) at the bottom of the screen to set up and manage Labels for your Gmail messages.
- From the main Gmail Inbox screen, tap Q (Search) at the bottom of the screen to search through your Gmail messages.

Composing a Gmail Message

- From the Gmail Inbox, tap (Compose) at the bottom of the screen to create a new message.
- 3. Enter the recipients Email address in the To field.

Tip: Separate multiple recipient email addresses with a comma.

- Press and select Add Cc/Bcc to add a carbon or blind copy.
- 5. Enter the subject of this message in the Subject field.

- Tap the Compose email field and begin composing your message.
- 7. Once complete tap (Send).

Viewing a Gmail Message

- From the Gmail Inbox, tap a message to view the following options located at the bottom of the screen:
 - Archive : archives the selected Email.
 - Delete 🚔 : deletes the currently selected Email.
 - Labels : assigns a label to the current Email.
 - Mark as Unread : tags the current message as unread and returns you to the Google Mail Inbox.
 - Newer: swiping to the right displays newer Emails.
 - Older: swiping to the left displays older Emails.
- 2. From within the active Gmail message, press to select one of the following additional options:
 - Mark important/Mark not important: assigns the current email an important status.
 - Mute: mutes the conversation.
 - Report spam: reports the Email message as spam.
 - Report phishing: reports the Email message as a phishing email attempt.
 - **Settings**: allows you to configure the General, or Notification settings.
 - Send feedback: sends feedback to Google.
 - Help: launches the browser and displays Google Mobile Help information

Creating an Additional Gmail Account

- Press and then tap Settings → ADD ACCOUNT and follow the same steps as referenced in the previous section. For more information, refer to "Signing into Google Mail" on page 179.

Hangouts

Previously known as Google Talk™, is an updated place to hangout, share photos, and even video calls. This is a free Windows and webbased 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: Before using this application, you must first have an active Gmail account available and be currently logged in.

1. From the Home screen, tap





(Hangouts).

Note: If you are not already logged into Google, refer to the instructions for signing in on page 179.

2. When prompted, read the on-screen information and confirm your phone number is correct before using the application. Tap Confirm.

Note: Confirming your phone number does not make it publicly available.

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+.

- Sign on to your Google account. For more information, refer to "Creating a New Google Account" on page 22.
- 2. From the Home screen, tap \longrightarrow (Apps) \rightarrow 8+ (Google+).
- Select the account you want to use to sign in to Google+.
 or –

Tap Add account to create another account.

- 4. Follow the on-screen instructions to use Google+.
- **5.** Visit www.google.com/mobile/+/ for more information.

Messenger

Messenger allows you to bring groups of friends together into a simple group conversation. When you get a new conversation in Messenger, Google+ sends an update to your device.

- Sign on to your Google account. For more information, refer to "Creating a New Google Account" on page 22.
- From the Home screen, tap (Apps) → (Messenger).
 or -

From the Google+ application, select Messenger.

- 3. Select the account you want to use to sign in to Google+.
 - or -

Tap **Add account** to create another account.

- When prompted, follow the on-screen procedures to configure the Sync contacts parameters.
- When prompted, configure the photo backup parameters as desired and tap **Done**.
- 6. Tap trom the upper-left of the screen and select from an available list of features such as: Find People, Communities, Hangouts, etc..

To create a new message:

- Tap 8+ from the upper-left of the screen and select Messenger.
- 2. Tap to start a new message.
- 3. In the upper text field, enter a name, email address, or circle.
- In the bottom Type a message field, enter a message then tap (Send).

Section 7: Multimedia

This section explains how to use the multimedia features of your device, including the Camera/Camcorder, Music Player, Samsung Link, and how to manage your photos, images and sounds.

You can take photographs and shoot video by using the built-in camera functionality. Your camera produces photos in JPEG format.

Important! Do not take photos of people without their permission.

Do not take photos in places where cameras are not allowed.

Do not take photos in places where you may interfere with another person's privacy.

Note: An SD card is no longer needed to take pictures or shoot video since there is already built-in storage.

Assigning the Default Storage Location

Important! Too many users can overlook this storage location until something goes wrong. It is recommended that you verify this location or change it before initiating the use of the camera or camcorder features.

- 1. From the Home screen, tap $(Apps) \rightarrow (Camera)$.
- From the viewfinder screen, tap to the Storage entry. (Settings) and scroll up

Tap this entry and select the desired default storage location for newly taken pictures or videos. Choose from: Phone or Memory card.

Note: It is recommended that you insert an external microSD card and then set the option to Memory card.

4. Press to return to the Home screen.

Using the Camera

Taking Photos

Taking pictures with your device's built-in camera is as simple as choosing a subject, pointing the camera, then pressing the camera key.

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

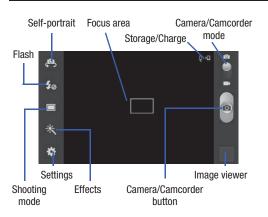
- 1. From the Home screen, tap $(Apps) \rightarrow (Camera)$.
- Using the device's main display screen as a viewfinder, adjust the image by aiming the camera at the subject.

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 55.

If desired, before taking the photo, use the left area of the screen to access various camera options and settings.

- You can also tap the screen to move the focus to a desired area of interest.
- 5. Press (Camera) until the shutter sounds. (The picture is automatically stored within your designated storage location (page 185). If no microSD is installed, all pictures are stored on the Phone.) For more information, refer to "Camera Options" on page 188.

Note: Touch and hold **a** to take a burst shot. These are saved using a Fine image quality.



Camera Options

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

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.



Flash: allows you to set the flash options to Off, On, or Auto flash.



Shooting mode: allows you to set the shooting mode to one of the following:

- Single shot: takes a single photo and view it before returning to the shooting mode.
- Best photo: takes a series of photographs simultaneously, then allows you to cycle through the available thumbnails and choose the best photo to keep.
 Tap Done to select the photo.
- Best face: takes a series of photographs simultaneously, then allows you to cycle through the available thumbnails and choose the best photo showing the subject's best face. Tag subject from the image, tap a desired image, and select Save to store the photo.



Shooting mode (continued):

- Face detection: adjusts the camera focus based on face detection technology.
- Panorama: takes a landscape photo by taking an initial photo and then adding additional images to itself. The guide box lets you view the area where the second part of the panoramic picture should fall within.
- Share shot: uses Wi-Fi Direct to share your pictures quickly with your friends. For more information, refer to "Enabling Share Shot" on page 198.
- HDR: takes pictures in HDR (High Dynamic Range) mode to increase image detail.
- Buddy photo share: uses face recognition from pictures in your contacts to send your friends or family pictures of themselves.
- . Beauty: adjusts the contrast to smooth facial features.
- Smile shot: the camera focuses on the face of your subject. Once the camera detects the person's smile, it takes the picture.
- Low light: adjusts the aperture and light settings to take better images in low light conditions.



Effects: allows you to change the color tone or apply special effects to the photo. Options include:

No effect, Cold vintage, Warm vintage, Posterize, Solarize, Green point, Blue Point, Red-yellow point, Washed out, Cartoonify, Black and white, Sepia, or Negative.



Share shot - Share with: lists the current participants sharing images with you via an active Share shot session



Share shot - Shooting mode: denotes the current shooting mode is set to the Share Shot mode.



Settings:

Edit shortcuts: allows you to set shortcut icons for the settings that you use the most.

Burst shot: allows several photographs to be captured in quick succession by touching and holding the Camera button.

GPS tag: allows you to turn GPS On or Off (also known as Geo-tagging). The location of where the picture is taken is attached to the picture.

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

Flash: allows you to set the flash options to Off, On, or Auto flash.

Shooting mode: allows you to set the shooting mode. For more information, see Shooting mode description.



Settings (continued):

Effects: allows you to change the color tone or apply special effects to the photo. Options include:

No effect, Cold vintage, Warm vintage, Posterize, Solarize, Green point, Blue point, Red-yellow point, Washed out, Cartoonify, Black and white, Sepia, and Negative.

Scene mode: allows you to set the Scene to help take the best pictures possible. Options include None, Portrait, Landscape, Sports, Party/Indoor, Beach/Snow, Sunset, Dawn, Fall Color, Text, or Candlelight. Helpful tips are shown for each scene mode at the bottom of the display screen.

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

Focus mode: allows you to set this option to Auto focus or Macro. Use Auto focus for all other focal situations.

Timer: allows you to set a timer for how long to wait before taking a picture. Options include: Off, 2 sec, 5 sec, and 10 sec.



Settings (continued):

Resolution: allows you to set the image size to either: 8M (3264x2448), W6M (3264x1836), 3.2M (2048x1536), W2.4M (2048x1152), W0.9M (1280x720), or 0.3M (640x480).

White balance: allows you to set this option to one of the following choices: Auto, Daylight, Cloudy, Incandescent, or Fluorescent.

ISO: 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.

Metering: allows you to set how the camera measures or meters the light source: Matrix, Center-weighted, or Spot.

Auto contrast: provides a clear image even under backlight circumstances where intensity of illumination can vary excessively.

Guidelines: allows you to turn the guidelines On or Off.



Settings (continued):

Auto share shot: when used in conjunction with S Beam, allows you to quickly share images with others.

Anti-Shake: compensates for camera movement.

Contextual filename: (requires GPS tagging) allows you to adjust the filename based on contextual information such as your current GPS location.

Image quality: allows you to set the image quality to: Superfine, Fine, or Normal.

Storage: allows you to configure the default storage location for images or videos as either Phone or Memory card (if inserted).

Reset: allows you to reset all camera or camcorder settings to the default values.



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



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



Camera Mode: allows you to take a photo in various modes. Once you change the mode, the corresponding indicator appears at the top left of the display. Slide the button up for Camera, or down for Camcorder.



Storage location/Connection Status: indicates the device is connected to an adapter and the current storage location for images (Phone or Memory card) on the device.

Adding a Name tag to an image

- 1. From the Home screen, tap $(Apps) \rightarrow (Camera)$.
- 2. Press (camera) until the shutter sounds.
- **3.** Tap the Image viewer to view the image.
- Tap a face on the image, tap the on-screen square and select Add name.
- Select an entry from your existing list of Contacts entries. An on-screen bubble confirms the name was added.

Pictures and Videos Image Viewer Options

After you take a photo or record a video, you can access various options.

Photo viewing options

1. Tap a thumbnail to view the picture.

Note: If no control icons are displayed on the screen in addition to the picture, tap anywhere on the screen to display them.

- 2. The following options are available at the top of the screen:
 - **Favorites** : allows you to assign the current image as a favorite.
 - Share via : allows you to share the picture via Bluetooth, Email, Gmail, Google+, Group Play, Hangouts, Messaging, Picasa, S Memo, or Wi-Fi Direct.
 - **Delete** : allows you to delete the current picture.
- 3. Press im for additional options such as:
 - Slideshow: allows you to see your photos in a slideshow.
 - Face tag: allows you to activate/deactivate face recognition for use with external social media applications.
 - Tag buddy: allows you to assign tags to a subject in an image. These
 tags are selected by the user on the Tag buddy menu that appears
 once the feature is selected. Choose from: Weather, Location, Person,
 or Date.

Note: The Tag buddy - Date information is displayed only when other tags are shown.

- Add/Edit weather tag: allows you to edit an existing or assign a new weather tag that is then saved to the current file.
- Copy to clipboard allows you to copy one or more pictures to a different folder.
- Rotate left: allows you to rotate the view of the current image in a counterclockwise direction.
- Rotate right: allows you to rotate the view of the current image in a clockwise direction.
- Crop: provides an on-screen box that allows you to crop the current picture. Tap Done to update the image with the new dimensions or tap Cancel to ignore any changes.
- Set as: allows you to assign the current image as a Contact photo, Home screen, Lock screen, or Home and lock screens.
- Buddy photo share: allows you to share the current image with active buddies.
- Print: allows you to print the current image on a compatible Samsung printer.
- **Rename**: allows you to rename the current file.
- Scan for nearby devices: scans for nearby DLNA-compliant devices that can receive or display the current image.
- Details: files details such as Title, Type, Time, Album, Size, Reolution, etc..

Video viewing options

Note: If no control icons are displayed on the screen in addition to the picture, tap anywhere on the screen to display them.

- 1. Tap a video to select it.
- 2. Tap (to play the video.
- 3. Press for additional options.

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.

 S Beam Transfer uses the NFC (near Field Communication) feature found on your device to transmit large files directly to another compatible device by direct touch.

This method of image transfer requires NFC and S Beam to be enabled prior to use.

For more information, refer to "Using S Beam to Share Pictures" on page 201.

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 326.

The general process is:

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

To enable Wi-Fi Direct:

- From the main Settings page, in a single motion touch and slide the Wi-Fi slider to the right to turn it on. The slider color indicates the activation status.
- 2. Tap Wi-Fi → Wi-Fi Direct.

- Tap Scan and select the single device name to begin the connection process to another Wi-Fi Direct compatible device.
 - or -

Tap 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.

- Tap Done. The direct connection is then established. Confirm appears in the Status bar.
- 5. When prompted to complete the connection, the recipient should tap OK. Your status field now reads "Connected" and your connected device is listed within the Wi-Fi Direct devices listing.
- Each partner (including yourself) must then tap Accept to consent to the new Wi-Fi Direct pairing.

To enable Share shot on Camera:

- From the Home screen, tap (Camera) → (Shooting Mode) → Share shot.
- If you are prompted to activate your Wi-Fi Direct connection, tap **0K** and follow the activation procedures for Wi-Fi Direct.

To configure your Share Shot options:

- 1. Confirm the Share Shot viewfinder is active (see below).
- Confirm the Wi-Fi is actively sharing icon (appears at the top of the viewfinder window.
- 3. Tap (Share profiles with) to display list of current participants.
 - Stop sharing images with select participants by tapping their entry and removing the green check mark.
- Tap (Shooting modes) to display list of currently available shooting modes from within Share Shot.
- Tap (Settings) to disable share shot while maintaining a Wi-Fi Direct connection.

To take share shot images:

- 1. Press (Camera key) until the shutter sounds.
- From the recipients' device, navigate to the (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.
- Confirm (Share shot images delivered/received) appears in the recipients' 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.

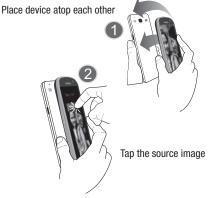
- 1. From the main **Settings** page, tap **More settings**.
- If not already active, in a single motion touch and slide the NFC slider to the right to turn it on.
- 3. Tap S Beam and make sure the feature is turned on.
- If not already active, in a single motion touch and slide the S Beam slider to the right to turn it on.
- On the source device (containing the desired image or video), tap (Apps) → (Gallery).
- Locate and tap 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.

Place the two active NFC-enabled devices back to back to begin (1).

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, tap the reduced image preview to begin the transfer (2). After a few seconds (depending on file size) the recipient with then see the transferred file displayed on their screen.



To share multiple pictures via S Beam:

- On the source device (containing the desired image or video), tap (Apps) → (Gallery).
- 2. Locate the selected folder.
- Touch and hold the first image and place a checkmark on it and all desired images.
- Place the two active NFC-enabled devices back to back to begin.
- From the Touch to beam screen, tap the reduced image preview to begin the transfer (2).
- 6. When prompted, separate the two devices.

Camera Gallery Options

The Gallery is where you can access the Gallery of stored camera images.

- 1. From the Home screen, tap $(Apps) \rightarrow (Gallery)$.
- Select a folder location (ex: Camera) and tap an image to open it.
 - or -

Touch and hold an image to place a checkmark on the file and select multiple files.

– or –

Tap the upper-right camera to begin taking pictures that are placed in this folder.

- 3. Tap the on-screen image and use either of the following image menu options:
 - Favorites 🖈 : allows you to assign the current image as a favorite.
 - Share via : allows you to share the picture via Bluetooth, Email, Gmail, Google+, Group Play, Hangouts, Messaging, Picasa, S Memo, or Wi-Fi Direct
 - Group Play
 allows to share images directly with other Wi-Fi connected participants via Group Play.
 - Delete : allows you to delete the current picture.
- 4. Press 🖃 to select additional options:
 - Slideshow: allows you to see your files in a slideshow.
 - Face tag: allows you to activate/deactivate face recognition for use with external social media applications.
 - Tag buddy: allows you to assign tags to a subject in an image. These
 tags are selected by the user on the Tag buddy menu that appears
 once the feature is selected. Choose from: Weather, Location, Person,
 or Date.

Note: The Tag buddy - Date information is displayed only when other tags are shown.

- Add/Edit weather tag: allows you to edit an existing or assign a new weather tag that is then saved to the current file.
- Copy to clipboard: allows you to copy one or more pictures to a different folder.

- Rotate left: allows you to rotate the view of the current image in a counterclockwise direction.
- Rotate right: allows you to rotate the view of the current image in a clockwise direction.
- Crop: provides an on-screen box that allows you to crop the current picture. Tap **Done** to update the image with the new dimensions or tap **Cancel** to ignore any changes.
- Set as: allows you to assign the current image as a Contact photo, Home screen. Lock screen, and Home and lock screens.
- Buddy photo share: allows you to share the current image with active buddies
- Print: allows you to print the current image on a compatible Samsung printer.
- Rename: allows you to rename the current file.
- Scan for nearby devices: allows you to look for DLNA -compliant devices used to control streaming media.
- Details: files details such as Title, Type, Time, Time, Album, Size, Reolution, etc..

Screen Sharing an Image via Group Play

Important! Verify all of your recipients are connected to the same Wi-Fi.

- 1. From the Home screen, tap (Apps) → (Gallery).
- 2. Open an image and tap

 →

 (Group Play)
- Enter a security PIN and tap Done. This process makes sure only desired recipients can view your shared image.
- Recipients must launch Group Play on their devices. Your
 device then waits for other connected recipients on the same
 Wi-Fi network to accept the connection and enter the PIN on
 their screens.
- Other users will have to activate their Group Play functionality and then select the current Group and enter the correct PIN code.

You can now interact and draw with the on-screen image, users will instantaneously see the same gestures and also be able to interact.

Note: The newly altered image (with markups and comments) can not be saved, but you can take a screen shot of the current image and save it to your Clipboard.

For more information, refer to "Using Gestures" on page 58.

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 main Settings page, tap Motion.
- 2. Tap the desired on-screen motion option.
- In a single motion touch and slide the Motion slider to the right to turn it on.
- 4. Tap the desired on-screen motion option.
- Although enabled by default, enable the Palm swipe to capture field by placing a check mark in the adjacent field.
- 6. 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.

Assigning an Image as a Contact Photo

- From the Home screen, tap (Apps) → (Gallery).
- 2. Select a folder location and tap a file to open it.
- With the image displayed, press and then tap Set as → Contact photo.
- 4. Tap a contact to make a selection.
- Use the on-screen crop the image by dragging it around or out from its corners.
- **6.** Tap **Done** to store the new image.

Assigning an Image as a Wallpaper

- 1. From the Home screen, tap $(Apps) \rightarrow (Gallery)$.
- 2. Select a folder location and tap a file to open it.
- 3. With the image displayed, press and then tap Set as.
- 4. Select one of the these options:
 - Home screen assigns the current image to the home screen background. This image is spread across all available screens.
 - Lock screen assigns the selected image to the background for the lock screen.
 - Home and lock screens assigns the current image to both the Home screen and Lock screens.
- Touch and drag the crop box anywhere on the picture. Touch and drag the sides of the crop box to zoom in or out to create a cropped area.
- **6.** Tap **Done** to assign the wallpaper image.
 - or -

Tap Cancel to stop without updating the wallpaper image.

Using the Camcorder

In addition to taking photos, the camera also doubles as a camcorder that also allows you to record, view, and send high definition videos.

Shooting Video

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.

- From the Home screen, tap (Apps) → (Camera) to activate the camera mode.
- Tap and slide the Camera mode button down to Camcorder Mode
- Using the device's main display screen as a viewfinder, adjust the image by aiming the camcorder at the subject.

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 55.

- Tap the Video key () to begin shooting video. The red light will blink while recording.
- Tap anywhere on the screen to re-focus the camera on that object. The camcorder auto-focuses on the new target area.
- Tap the screen then select to turn on auto focus. This will automatically focus the video based on the object at the middle of the screen.



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

8. Tap the Stop key () to stop the recording and save the video file to your Camera folder.

— or —

Tap the Pause key () to pause the recording.

- 9. Once the file has been saved, tap the image viewer, then tap (Play) to playback your video for review.
- **10.** Press **t** to return to the viewer.

Camcorder Options

You can change options using your keypad in capture mode. The following short cuts are available:



Self portrait: allows you to activate the front facing camera so you can take videos of yourself or video chat.



Flash: allows you to set the flash options to Off or On. When you set the flash to On, it stays on continually while vou are taking a video.



Recording mode: allows you to set the recording mode to: Normal, which is limited only by available space on the destination location, Limit for MMS, which is limited by MMS size restrictions.



Effects: allows you to change the color tone or apply special effects to the video. Options include: No effect, Cold vintage, Warm vintage, Posterize, Solarize, Green point, Blue point, Red-yellow point, Washed out, Cartoonify, Black and white, Sepia, or Negative.



Settings:

Edit shortcuts: allows you to set shortcut icons for the settings that you use the most.

GPS tag: allows you to turn GPS On or Off (also known as Geo-tagging). The location of where the video is shot is attached to the file.

Self-recording: allows you to set the front camera so you can take videos of yourself or video chat.

Flash: allows you to set the flash options to Off or On. When you set the flash to On, it stays on continually while you are taking a video.

Recording mode: allows you to set the recording mode to:

- Normal: is limited only by available space on the destination location.
- Limit for MMS: is limited by MMS size restrictions.



Settings (continued):

Effects: allows you to change the color tone or apply special effects to the video. Options include:

No effect, Cold vintage, Warm vintage, Posterize, Solarize, Green point, Blue point, Red-yellow point, Washed out, Cartoonify, Black and white, Sepia, or Negative.

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

Timer: allows you to set a timer for how long to wait before taking a video. Options include: Off, 2 sec, 5 sec, and 10 sec.

Resolution: allows you to set the image size to either: 1920x1080, 1280x720, 720x480, 640x480, or 320x240.

White balance: allows you to set this option to one of the following choices: Auto, Daylight, Cloudy, Incandescent, or Fluorescent.

Guidelines: allows you to turn the guidelines On or Off.

Anti-Shake: reduces image blur due to the movement of the subject of the video or hand movement.

Contextual filename: (requires GPS tagging) allows you to adjust the filename based on contextual information such as your current GPS location.



Settings (continued):

Video quality: allows you to set the image quality to: Superfine, Fine, or Normal.

Storage: allows you to configure the default storage location for images or videos as either Phone or Memory card (if inserted).

Reset: allows you to reset all camera or camcorder settings to the default values



Image viewer: allows you to access the Image viewer and the various viewing options for a selected video. Image viewer options are described in the following section. The last video you took, will be displayed as a thumbnail in the Image viewer icon.



Camcorder button: shoots or stops video recording when pressed in Camcorder mode.



Live Shooting: takes a photo during a video recording session in Camcorder mode.

Note: This feature is not functional when the Anti-Shake feature is activated.



Camcorder Mode: allows you to shoot video.

Slide the button up for Camera mode or down for Camcorder mode.



Storage location/Connection Status: indicates the device is connected to an adapter and the current storage location for videos (Phone or Memory card) on the device.

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.

- From the Home screen, tap (Apps) → (Gallery).
- Select a folder location and tap a video icon 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:

- Favorites : allows you to assign the current video as a favorite.
- Share via : allows you to share the video via Bluetooth, Email, Gmail, Google+, Messaging, Picasa, Wi-Fi Direct, and YouTube.
- Delete : allows you to delete the current video. Choose either OK or Cancel.

- 3. From within the Gallery, place a checkmark on the video and press for additional options such as:
 - Slideshow: allows you to see your files in a slideshow.
 - Tag buddy: allows you to assign tags to a subject in a video. These
 tags are selected by the user on the Tag buddy menu that appears
 once the feature is selected. Choose from: Weather, Location, Person,
 or Date.

Note: The Tag buddy - Date information is displayed only when other tags are shown.

- **Rename**: allows you to rename the current file.
- Scan for nearby devices: allows you to look for DLNA -compliant devices used to control streaming media.
- Details: files details such as Title, Time, Width, Height, Orientation, File Size, and Path.

The Gallery

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

Note: If the phone displays a memory full message when accessing the Gallery, access Files and remove some of the media files from the folders, and then open the Gallery.

Opening the Gallery

■ From the Home screen, tap (Apps) → (Gallery). For more information, refer to "Camera Gallery Options" on page 203.

Note: If you stored your files in folders (directories) on the storage card, Gallery displays these folders as separate albums. The top left album contains all the pictures in the storage card.

Viewing a Video within the Gallery

- 1. From the Home screen, tap $(Apps) \rightarrow (Gallery)$.
- 2. Locate your folder and video.
- 3. Tap () (Play) to playback your video.

For more information on using the Picture-in-Picture feature for video playback, see "Using Picture-In-Picture" on page 218.

Using the Video Player

The Video Player application plays video files stored on the SD card. This device is able to playback DivX videos.

- From the Home screen, tap (Apps) → (Video Player). A list of available videos displays in the Video list
- 2. Tap a video file to begin viewing.

Sharing Videos

- From the Home screen, tap (Apps) → (Video Player). After a few seconds, each on-screen video begins to cycle through a preview of the first five seconds of the clip.
- 2. Press and then tap Share via.
- 3. Select either individual videos or tap Select all.
- 4. Click Done to complete the process or Cancel to quit.
- Select a sharing option. Choose from: Bluetooth, Email, Gmail, Google+, Messaging, Picassa, Wi-Fi Direct, and YouTube.

Using Picture-In-Picture

This feature can be used during playback of supported video types via either the Gallery, Play Videos, or Video player.

Note: Some applications might not allow this video to remain active in the foreground (ex: Camera/Camcorder screen).

This feature allows you to continue to view your video as a background operation while you multi-task and do other things, such as surf the Internet, access your Contacts list, look for a picture, etc..

- 1. From the Home screen, tap (Apps).
- 2. Tap the desired video playback application (ex: Video Player).
- 3. Tap the desired video to begin playback.

Note: The Picture-In-Picture feature only works when using the Video player application. Other video players (ex: YouTube), do not support this feature.

- 4. As playback is initiated, locate and tap

 (Picture-in-Picture) from the bottom-right of the playback
 screen. Your current video is then sent to foreground of any
 new page and most application screens.
- 5. The video disappears from the screen once it ends.

DivX Overview

This device is able to playback DivX videos. DivX Certified[®] to play DivX[®] video up to HD 720p, including premium content. If you try to play DivX VOD content not authorized for your device, the message "Authorization Error" will be displayed and your content will not play. Learn more at www.divx.com/vod.

Your device must first be registered to playback protected or purchased DivX content. DRM-free or unprotected content does not required DivX VOD registration.

Locating Your VOD Registration Number

- From the Home screen, press and then tap Settings →
 About device → Legal information → License settings → DivX®
 VOD → Register.
- 2. Write down your Registration code.
- 3. Tap 0K.

Register Your DivX Device for VOD Playback of Purchased Movies

To play purchased DivX movies on your device, you will first need to complete a one-time registration using both your device and your computer.

- 1. Write down the DivX registration code that appears on-screen. Copy this 8 or 10-digit number down.
- Verify you have the latest DivX software running on your computer. Download the free player (for your computer) from www.divx.com.
- Open the DivX Player on your computer and from within the VOD menu, select Register a DivX Certified Device..
- You are prompted to log in or create a DivX account if your account information has not already been saved in DivX Player.
- Follow the instructions in DivX Player to enter the registration code from step 2 and create a device nickname (ex: "Pat or Pat's Device").
- Select a location on your computer to download the DivX registration video with the same title as your device nickname (ex: Pat.divx).
- Follow the on-screen instructions to download the file and initiate the transfer process. You will need to place this video file onto your device and play it back.
- Connect your device to the computer via USB and transfer this video.

- From the Registration screen (Transfer), click Transfer Video now and select the location of the microSD card or USB (the device) as the target destination for the registration video (created in step 6) and click Start.
 - or -

Locate the created file, copy and paste it into the new drive letter corresponding to your device's storage location.

- 10. From the Home screen, tap (Apps) → (My Files).
- Locate your registration DivX video file and tap the file to play it. Once you play the registration file on your device, your registration is complete.
- 12. Return to the DivX VOD Manager screen (from within your computer's DivX Player) and confirm both your computer and your new device appears in the list of registered DivX devices.

Important! There is no special registration or configuration necessary to playback DRM-free DivX movies. Registration of your device is only required for playback of protected DivX material.

Play Movies & TV

This application allows you to connect to the Play Store, download a movie and then watch it instantly.

Choose from thousands of movies, including new releases and HD titles in the Play Store and stream them instantly on your Android device.

Movies, previously rented via the Play Store are automatically added to your My Movies library across your devices.

Learn more about Google Play Movies at:

http://play.google.com/about/movies.

- 1. From the Home screen, tap (Apps) → (Play Movies & TV).
- Log on to your Google account if you have not already done so.A list of videos sorted on the SD card displays in the Video list.
- Following the on-screen instructions for renting and viewing movies.
- **4.** Tap the **MOVIES** tab to view movies you have rented.
- 5. Tap the TV SHOWS tab to view shows you have rented.
- Tap the PERSONAL VIDEOS tab to view movies you have on your device or memory card.

For more information on using the Picture-in-Picture feature for video playback, see "Using Picture-In-Picture" on page 218.

Play Music

Also known as Google Music, allows you to browse, shop, and playback songs purchased from the Play Store. The music you choose is automatically stored in your Google Music library and instantly ready to play or download.

 Access the new music tab from within your Play Store application.

The Music application contains a music player that plays music and other audio files that you copy from your computer.

- 1. From the Home screen, tap (Apps) (Play Music). The Music app searches both your online library and your device's internal storage for music and playlists; this can take from a few seconds to several minutes, depending on the amount of new music added since you last opened the application. It then displays a carousel view of your new and recent music, organized by album.
- If prompted, follow the on-screen instructions to link your current account to Google Play Music.
- Tap an on-screen account to add it or select Add account to use a new account.
- 4. At the free songs screen, select either Get free songs or Skip.
 - Get free songs are downloaded via either the Internet or Play Store.
 - Follow the on-screen download and installation instructions.
- Swipe left or right to browse through your new and available music. Music, albums, and artists are grouped into categories.
- **6.** Tap an on-screen album to open it and begin playback.

 Return to the Library screen from most other screens in the Music application by tapping the Music application icon (Music notification icon) at the top-left of the Application bar.

Changing Library View

You can change the way you view the contents of your library.

- From the main Play Music page, and while in a selection or screen, tap (near the top-left of the Application bar) or scroll left/right across the top of the screen to make a selection.
- Available tabs include: PLAYLISTS, RECENT, ARTISTS, ALBUMS, SONGS, or GENRES.

Note: The contents of your library display in a scrolling grid or list view, depending on the view.

Searching for Music in Your Library

- From the main Play Music page, tap (Search) to search through your available songs.
- Type the name of an artist, album, song, or playlist.Matching songs are displayed in a list below the search box.
- Tap a matching song to play it, tap a matching album, artist or playlist to view a list of its' songs.

Changing Music Settings

- From the main Play Music page, press and then make a selection.
 - Choose on device music: In addition to playing the music that you add
 to your online library, you can play music stored on your device's internal
 storage. Then you can listen to music when you have no Internet
 connection. To do this, make some of your online music available offline.
 For more information, refer to "Making Online Music Available
 Offline" on page 230.
 - Settings: Provides access to the Play Music settings.
 - **Help**: Displays application help information.

Listening to Music

You can listen to music by using your device's built-in speakers, through a wired headset, or through a wireless Bluetooth stereo headset.

Press the volume keys on the side of the device to activate on-screen volume control, then touch and drag on the scale to set volume.

Playing Music

 From the main Play Music page, tap a song in your library to listen to it.

The **Now playing** screen opens and the song you touched or the first song in the album or playlist starts to play. The tracks in the current list play in order until you reach the end of the list (unless you choose a repeat option). Otherwise, playback stops only if you stop it, even when you switch applications.

Note: If you navigate away from the Now playing screen in the Music application, the Now Playing bar appears at the bottom of the screen.

Displaying the Now Playing Screen

If you navigate away from the **Now playing** screen, to return to the **Now playing** screen from other Music screens:

- Tap the name of the current song in the bottom Now Playing bar.
 - or -

If you have left the Play music app, in a single motion, touch and drag (Music notification icon) down from the Status bar, then tap the song title from the Notifications area. You can also pause and resume playback and skip to the next song in the panel. For more information, refer to "Notification Bar" on page 47.

Tab Options

There are various options available from the various tabs:

- From the main **Play Music** page, select one of the following tabs and tap to access an available option.
 - PLAYLISTS: Add to gueue, Rename, or Delete.
 - RECENT: to display the most recently played songs and albums
 - ARTISTS: Add to queue, Add to playlist, or Shop for artist.
 - ALBUMS: Add to queue, Add to playlist, More by artist, or Shop for artist.
 - **SONGS:** Add to gueue, Add to playlist, Shop for artist, or Delete.
 - GENRES: Add to queue, Add to playlist, More by artist, or Shop for artist.

Options While Playing a Song

When you play a song, the **Now playing** screen displays. There are various options and controls available while a song is playing:

- 1. From the main **Play Music** page, tap an album or song.
- From the Now playing screen, press (Menu) to display the following options:
 - Equalizer: applies selected equalizer features such as:
 EX booster. Bass boost, and 3D effect.
 - Clear queue: clears the current queue.
 - Save queue: stores the current queue.
 - Settings: Allows you to view and assign various music settings, and view different application-specific information.
 - **Help**: Provides an on-screen series of related help topics.
- 3. Tap → Add to playlist to add the song to a playlist.

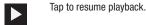
 or -

Tap \rightarrow Add to playlist to add the song to a playlist.

The **Now playing** screen contains several buttons that you can tap to control the playback of songs, albums, and playlists:



Tap to go back to the previous song. Touch and hold to scan backward through the current song.



Tap to pause playback.



Tap to advance to the next song. Touch and hold to scan forward through the current song.



When Shuffle mode is enabled via **Show Options**, songs play in random order. When disabled (as shown), songs play in the order they appear in 1 ist view.



When Shuffle mode is enabled via **Show Options**, songs play in random order. When enabled, songs play in random order.



Tap one of the icons shown here to either: repeat the current song, repeat all songs, or disable repeat mode.

Creating a Playlist

- From the main Play Music page, tap an album or song list and play a song.
- Tap New playlist → Playlist name field to enter a name for the playlist.
- 4. Tap **OK** to save the new playlist.

Adding Songs to Playlists

- From the main Play Music page, tap an album or song list and play a song.
- From the Now Playing screen, tapap

 → adjacent to the song name and select Add to playlist.
- 3. Select the desired target playlist.

Playing a Playlist

- 1. From the main Play Music page, select the PLAYLISTS tab.
- Tap a playlist title and select and entry from the list to begin playback.

Deleting a Playlist

- From the main Play Music page, and display the PLAYLISTS library view.
- 2. Tap next to a playlist title and tap **Delete**.

Making Online Music Available Offline

In addition to playing the music that you add to your online library, you can play music stored on your device's internal storage. Then you can listen to music when you have no Internet connection. To do this, make some of your online music available offline.

Tip: You can also copy music directly from your computer to your device.

To make your online music available offline on your device:

- From the main Play Music page, change your library view to Albums, Artists, or playlists.
- 2. Press and then select Choose on device music and tap the album or playlist you want to make available offline.
 - A blue pin indicates that the item is already available offline.
 - Darker pins appear next to the items you can make available offline. A bar at the bottom of the screen shows how much space is available on your device for music and other files.
 - Dim blue pins indicate songs or albums that you copied directly from a computer to your device.
- Tap the dark pin next to each item you want to make available offline or tap a blue pin to stop making it available offline. You can switch to other views of your library to make other kinds of items available offline as well.
- 4. Tap **Done** in the bar at the bottom of the screen.
- The Music application starts downloading the items to your device.

Music Player

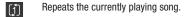
The Music Player is an application that can play music files. The music player supports files with extensions AAC, AAC+, eAAC+, MP3, WMA, 3GP, MP4, and M4A. Launching the Music Player allows you to navigate through your music library, play songs, and create playlists (music files bigger than 300 KB are displayed).

Playing Music

- From the Home screen, tap (Apps) → (Music Player).
- Tap a library category tab to select the music category:
 All, Playlists, Albums, Artists, Music square, or Folders.
- 3. Scroll through the list and tap an entry to begin playback.

Note: The 5.1 channel sound effect works when earphones or sound is connected through the headset jack only.

- 4. Use any of the following Music Player controls:
 - II 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.
 - A. Plays the entire song list once.



Shuffles the current list of songs randomly.

Songs play in order and are not shuffled.

Provides access to the Music square.

Lists the current playlist songs

Displays the current song in the player window

Provides access to the Equalizer

Making a Song a Phone Ringtone

- 1. From the main Music Player page, tap the All tab.
- Touch and hold a song from the list to reveal the on-screen context menu.
- 3. Tap Set as → Phone ringtone.

Music Player Options

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.

- With the Music player application displayed and playing a song, press and select one of the following options:
 - Add to quick list: adds the current music file to the Quick list.
 - Via Bluetooth: scans for devices and pairs with a Bluetooth headset.
 - Share via: allows you to share your music by using Bluetooth, Email, Gmail, Group Play, Messaging, or Wi-Fi Direct.

- Add to playlist: allows you to add the current music file to a selected playlist.
- Details: allows you to view media info such as Artist, Title, Album, Track length, Genre, Track number, Format, Size, and Location.
- Set as: allows you to set the current song as a Phone ringtone, Caller ringtone, or Alarm tone.
- Scan for nearby devices: allows you to look for DLNA -compliant devices used to control streaming media.
- Settings: allows you to change your music player settings.
- End: closes the application.

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 main Music Player page, press
 → Settings.
- 2. Select one of the following settings:
 - SoundAlive: set a type of equalization such as Normal, Pop, Rock, Dance, Jazz, Classic, etc.
 - Play speed: set the play speed anywhere between 0.5X and 2.0X using the slider.
 - Music menu: this menu allows you to select which categories you want to display. Choices are: Albums, Artists, Genres, Music square, Folders, Composers, Years, Most played, Recently played, or Recently added.
 Tap each item that you want to display in the Music menu.
 - Lyrics: when activated, the lyrics of the song are displayed if available.

 Music auto off: when activated, music will automatically turn off after a set interval

Using Playlists

Playlists are used to assign music files into groups for playback. These Playlists can be created using the Music player on this device, or using a third-party application (such as Windows Media Player) and downloading those files to an SD card inserted into the device.

Creating a Playlist

- 1. From the main Music Player page, tap the Playlists tab.
- Press and then tap Create playlist.
- Backspace over the default playlist title and type a new name for this playlist, then tap **0K**.

Adding Music to a Playlist

- 1. From the main Music Player page, tap the Playlists tab.
- 2. Tap the playlist name in which to add music.
- 3. Press and then tap Add.

– or –

Tap (Add music). This option is available within user-created playlists.

Note: If a playlist is empty, add a song by touching a holding a song name from the main screen to open the context menu. Select Add to playlist and choose the playlist.

 Tap a music file, or tap Select all to add all the music tracks to this playlist then tap Done.

Removing Music from a Playlist

- 1. From the main Music Player page, tap the Playlists tab.
- 2. Tap the playlist name in which to delete music.
- 3. Touch and hold a song to reveal the on-screen context menu.
- Tap Remove.

Editing a Playlist

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

Note: Only those playlist you have created can be edited. Default playlists can not be renamed.

- 1. From the main Music Player page, tap the Playlists tab.
- Touch and hold a playlist entry to reveal the on-screen context menu.
- Tap Edit title.
- 4. Enter a new name for this playlist and tap **OK**.

Transferring Music Files

Music files can be downloaded to the phone using one of two methods:

- Downloaded to the device from the Play Store.
 Music files are directly stored on your phone.
- Downloaded to the phone via a direct USB connection.Music files are stored into a Music folder on the SD card.

Removing Music Files

- 1. From the main Music Player page, tap the All tab.
- Touch and hold a song entry to reveal the on-screen context menu.
- 3. Tap Delete → OK. The music file(s) is deleted.

Samsung Link

This application wirelessly synchronizes your Samsung device with your TV, streams content and even keeps tabs on who calls or sends text messages with real-time, on-screen monitoring. Samsung's Link makes staying connected easy.

Allows users to share their in-device media content with other external devices using DLNA certified™ (Digital Living Network Alliance) Devices. These external devices must also be DLNA-compliant. Wi-Fi capability can be provided to TVs via a digital multimedia streamer.

Important! You must first connect both of your communicating devices

to the same Wi-Fi and be using an active/registered Samsung account prior to using this application.

For more information, refer to "Wi-Fi settings" on page 321.

For more information, refer to "Creating a Samsung Account" on page 25.

Note: For more information on defining the various feature definitions, see page 285.

Important! The Samsung account manages the access information (username/password) to several applications, such as Samsung Link, Chat On, and Samsung Hub.

- Confirm you have already logged in to your Samsung account.
 There should be no screen.
- 2. From the Home screen, tap (Apps) → (Samsung Link).
- If prompted with an on-screen notification about no Wi-Fi detected, tap Cancel (to continue by using your network connection) or Connect to continue.
- 4. Tap Sign in.
- If prompted to log into your Samsung account, tap Sign in and follow the on-screen instructions.

Note: If the main screen still shows a Sign in box, close the application and restart it.

- Follow the on-screen prompts.
 - Scroll across the application screen to view either MY RECENT CONTENT or DEVICES & STORAGE.

The DEVICES & STORAGE screen contains two separate streaming media options:

 Registered storage: allows you to receive and playback media stored externally (server, laptop, etc.) directly on your device by allowing you to add a Web storage service for streaming content. Registered devices allows you to stream/share selected multimedia content from your device to DLNA compliant device connected to the same Wireless Access Point.

Configuring Samsung Link Settings

The Samsung Link[™] application must first be configured prior to its initial use. You must setup parameters such as connected Wi-Fi, Items to share, source server address, and external device acceptance rights.

- 1. From the Home screen, tap (Apps) →
 - (Samsung Link) → DEVICES & STORAGE.
- Press and then tap Settings and configure the following settings as desired:
 - Registered storage: allows you to add a Web storage location. Without
 a storage service/location added, you will not be able to use Samsung
 Link.
 - My device: displays your device name as it is used with Samsung Link.
 Tap to change the device name.
 - Save to: allows you to save your media to your internal phone memory or to an SD card.
 - Auto upload: allows you to enable automatic upload of images from your device to those storage locations specified within the Web storage list. Move the slider to the on position to activate the feature.
 - Video optimization: allows you to setup the video quality for streamed video content. Move the slider to the on position to activate the feature.

- Password lock: allows you to restrict access to Samsung Link by requiring a user enter the currently active and associated Samsung account password. Move the slider to the on position to activate the feature.
- My account: displays Samsung account information.
- Customer support: allows you to contact the Samsung Link team via a new email from an available email account.
- About this service: displays application information.

Setting Up Web Storage

Web storage services allow you to use storage space to store your files and share them on the "Cloud".

Note: If you are using another Web storage service, log into that service first before using Samsung Link.

From the Home screen, tap (Apps) → (Samsung Link) → DEVICES & STORAGE.

Note: When adding storage, an N Drive is added.

If not already signed into your Cloud storage, tap
 (Register storage) → Sign in to your desired service. Choose from: SugarSync, Dropbox, or SkyDrive.

- or -

Press and then tap Settings → Registered storage → (Register storage).

- Follow the on-screen instructions to register or log into your cloud service.
- Once the process is successfully completed, the Web storage icon or name appears in the Web storage area of the main screen
- From the main screen, select a connected device and then tap on the media that you would like to share.
 - A file with in the upper-left indicates it is stored remotely on a Web storage location. Selecting this media causes your device to access the file currently stored on your services' servers.

To de-register Web storage service:

- From the Home screen, tap (Apps) →
 - (Samsung Link) → DEVICES & STORAGE.

Press \blacksquare and then tap **Settings** \rightarrow **Registered storage** \rightarrow **Deregister**.

2. Select a current storage service and tap **0K**.

Sharing Media via Samsung Link to a Target Device

Important! Make sure all communicating devices are connected to the same Wi-Fi.

- Launch AllShare Play/Samsung Link on the target device (such as an Internet TV, Samsung Tablet, etc..).
 - 2. From the Home screen, tap (Apps) →
 - (Samsung Link).

Note: You must be signed in to your Samsung Account before you can use this feature.

- 3. Tap your device name from the Registered devices area.
- Tap an available category tab (Pictures, Music, Movies, or Files) and select a file.
 - Touch and hold to select multiple files.
 - A file with in the upper-left indicates it is stored remotely on a Web storage location. Selecting this media causes your device to access the file currently stored on your services' servers.
- Tap an available on-screen file, image, or video to place a green check mark alongside it.
- Tap (Stream to connected devices) from the bottom of the screen.
- Tap an available on-screen file, image, or video to select it and then select an available target device to begin streaming.
- On a target device (ex: Internet TV) select the on-screen Allow button to continue.

Note: At this stage your device is requesting access to share media with the external source.

 Confirm (Nearby devices) appears in the Notification area at the top of the device to indicate you are using your device as the media source.

AllShare Cast Hub

This hardware allows you to enjoy what's currently on your device directly on your TV.

Note: There is no need to be connected to a Wi-Fi network or to be logged into your Samsung Account to use this feature.

AllShare Cast Hub establishes a WI-Fi Direct connection between the device and the hub

Connecting AllShare Cast Hub

To connect your AllShare Cast Hub hardware:

AllShare Cast (with This feature functions with an

Hub accessory) external AllShareCast Hub to fully

mirror what is currently displayed on your

device to the external TV.



 Connect the AllShare Cast hub to a power source via the USB Travel Adapter.

Note: The status LED begins to blink solid red to indicate it has begun the start up process.

LED Color/Patterns	Description
Red - Solid	Indicates the AllShare Cast Hub is booting or processing.
Red - Blinking	Indicates the AllShare Cast Hub is in standby mode (ready for connection).
Blue - Solid	Indicates the AllShare Cast Hub is ready to be connected with a new device.

- Connect your TV to the AllShare Cast Hub via an HDMI cable (A-to-A cable) as shown above.
- Change the source input on your TV to match the input port used by the incoming HDMI cable.

Note: The television screen should now display an on-screen tutorial showing you how to configure your device's AllShare Cast Hub and device settings.

To activate AllShare Cast on your device:

- From the Home screen, press ☐ and then tap Settings →
 More settings → AllShare Cast.
- If not already on, touch and slide the AllShare Cast slider to the right to turn it on. The slider color indicates the activation status.

Pairing AllShare Cast Hub

To pair your device and Hub for the 1st time:

- Locate the AllShare Hub (dongle) name displayed at the bottom of the TV (showing the tutorial). Ex: Name: Dongle - XXXXXX.
- Access your device's AllShare Cast screen and locate the same hub/dongle name in the list.
 - Tap **Scan** if your AllShare Cast Hub (dongle) does not appear in the list.
- Verify your AllShare Cast Hub is on (blinking red LED) and the on-screen tutorial is displaying on the connected TV.

Note: The AllShare Cast Hub communicates with your paired device via a Wi-Fi Direct connection.

- 4. For a first time connection:
 - Press the RESET button (located at the rear of the hub) once and only for a second until the LED turns solid BLUE.
 - Quickly tap the hub name entry on your device's AllShare Cast screen.
- Verify (AllShare Cast Hub Communicating) appears at the top of the device's screen.

 Confirm the connection by making sure both your TV and device show the same image/screen and (Wi-Fi Direct Communicating) now displays on the device.

Important! The AllShare Cast Hub is a 1-to-1 connection. If a previous device was paired to the Hub and is still connected to the AllShare Cast Hub, you can not pair a new device until the first connection is stopped.

To disconnect your device from the hub:

- Access your device's AllShare Cast screen and locate the current connection.
- Tap the entry and select End connection.

To reconnect your device again to an existing hub:

 Locate the AllShare Hub (dongle) name displayed at the bottom of the TV (showing the tutorial). Ex: Name: Dongle - XXXXXX.

Important! Verify the LED is not a solid blue. This indicates there is another device currently connected.

- Access your device's AllShare Cast screen and tap the same hub/dongle name in the list.
- Confirm the connection by making sure both your TV and device show the same image/screen.

YouTube

YouTube is a video sharing website on which users can upload and share videos, and view them in MPEG-4 format.

- **1.** From the Home screen, tap $(Apps) \rightarrow (YouTube)$.
- When the screen loads you can begin searching and viewing posted videos.
- Press
 → Settings → General → High quality on mobile if you prefer high quality output.

Section 8: Applications and Development

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

Note: This manual only addresses applications that have been loaded on your [device/computer/tablet] as of the date of purchase. Information concerning third party applications that you may choose to download from the Google Play Store or otherwise should be obtained from the application provider directly.

Tip: To open applications quickly, add the icons of frequently-used applications to one of the Home screens. For more information, refer to "Customizing the Screens" on page 71.

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 Applications menu.

Applications

The Applications list provides quick access to all the available applications on the phone.

Calculator

Using this feature allows you to use your device as a calculator. The calculator provides the basic arithmetic functions; addition, subtraction, multiplication, and division. You can also use this as a scientific calculator.

- **1.** From the Home screen, tap $(Apps) \rightarrow (Calculator)$.
- 2. Enter the first number using the numeric keys.
- Enter the operation for your calculation by tapping the Plus, Minus, Multiplication, or Division key.
- 4. Enter the next number.
- 5. To view the result, tap the = (equals) key.
- 6. Repeat steps 1 to 4 as many times as required.

Note: Place the screen in Landscape mode to reveal additional scientific functions.

Calendar

With this feature, you can consult the calendar by day, week, or month, create events, and set an alarm to act as a reminder. Google Calendar is built into the phone and synchronizes both new and existing entries between your phone and your online Google account.

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

- 1. From the Home screen, tap $(Apps) \rightarrow 31$ (Calendar).
 - Tap (Show More) to display these tabs:
 - Year: displays the Year view.
 - Month: displays the Month view.
 - Week: displays the Week view.
 - Day: displays the Day view.
 - List: displays the events in a List view.
 - Task: allows you to search for tasks.
- 2. Tap (Create event) to create a new Calendar event.
 - or -

Tap **Today** to display the current date indicated by a blue box, then press and select one of the following options:

- Go to: displays a specific date.
- Delete: allows you to delete All events, All events before today, or an individual event.
- **Search**: allows you to search within your current events.

- Sync: synchronizes your current calendar events with your available accounts (such as Gmail, Microsoft Exchange ActiveSync, etc..).
- Settings: displays a list of configurable settings.

Creating a Calendar Event

- 1. From the Home screen, tap $(Apps) \rightarrow 31$ (Calendar).
- 2. Tap to access the various calendar tabs.
- Within the Year, Month, Week, and Day tabs, tap (Create event).

Calendar Settings

Using the Calendar settings you can select the day with which you want the calendar to begin. You also select how you want to view the calendar, by Month, Week, or Day or determine how to manage events, notifications, sounds, and defaults reminders.

- 1. From the Home screen, tap $(Apps) \rightarrow (31)$.
- Press → Settings.
- Tap Month view styles and select a style: Calendar view + list or Calendar view + pop-up.
- 4. Tap Week view and select a type: Timeline or Analog.
- Tap First day of week and select either Local default, Saturday, Sunday or Monday.
- Tap Hide declined events to activate this option. A check mark indicates selection.
- Tap Lock time zone (to lock event time based on your current user-selected time zone). Select a time zone from within the Select time zone field

- Tap Show week number to display the week numbers along the side of the week entries.
- Tap Calendars and select the type of general synchronization settings you want. A check mark indicates selection.
- Tap Set alerts & notifications to adjust the event notification method. Choose from: Alert, Status bar notification, and Off.
- Tap Select ringtone to assign a ringtone to a calendar event notification.
- 12. Tap Vibration to assign a vibration notification to this event.
- Tap Default reminder time to assign a default time frame for event reminders.
- 14. Tap Notifications while screen is off to display notifications on the full screen while it is turned off.
- 15. Tap Quick responses to edit your default quick responses for outbound emails. These are default responses similar to those used by text templates.
- 16. Tap Swipe with two fingers to change the way events are displayed when swiped.

Camera

Use your 8.0 megapixel camera feature to produce photos in a JPEG format. The Camcorder shoots High Definition video in an MP4 format.

Note: A microSD card is no longer necessary before you take pictures or shoot video.

It is recommended that you confirm your default storage location for images and videos.

■ From the Home screen, tap $(Apps) \rightarrow (Camera)$.

Chrome

The Google Chrome app allows you to use the Google Chrome Web browser on your device.

- 1. From the Home screen, tap $(Apps) \rightarrow (Chrome)$.
- Read the Google Chrome Terms of Service and tap Accept and Continue.
- If you have an existing Chrome account, tap Sign in to bring your open tabs, bookmarks, and data from your computer to your phone, otherwise tap No thanks.
- 4. Follow the on-screen instructions to use Google Chrome.

Clock

Here you can set an Alarm, configure and view the World clock, use a Stopwatch, set a Timer, or use a Desk Clock. The applications display in a tabular format and quickly accessed with the touch of a finger.

■ From the Home screen, tap $(Apps) \rightarrow (Clock)$.

Setting an Alarm

- **1.** From the Home screen, tap $(Apps) \rightarrow (Clock)$.
- 2. Tap (Create alarm).
- Use the arrow symbols to enter adjust the hour, and minutes, then tap AM or PM (toggles depending on which was last selected).
- 4. Tap 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.
- Tap the Alarm type field and select one of the following: Melody, Vibration, Vibration and melody, or Briefing.
- Tap More to configure additional alarm settings such as volume slider, Alarm tone, Snooze, Smart alarm, and assign a Name.

To configure additional alarm settings:

- 1. Tap More to access additional alarm settings.
- 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.

- 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.
- 4. Move the Snooze slider to the right to activate the feature. Tap the field to assign a Interval time (3 minutes, 5 minutes, 10 minutes, 15 minutes, or 30 minutes) and Repeat (1 time, 2 times, 3 times, 5 times, and 10 times).
 - Interval indicates the length of time the alarm will remain silent between alarm notifications (snooze time).
 - Repeat indicates the numbers of snooze sessions that are assigned to this alarm. How many times will the snooze silence the alarm.
- Move the Smart alarm slider to the right to activate this feature which slowly increases screen brightness and the volume of nature tones to simulate dawn breaking.

Tap the field to assign a interval time (3 min, 5 min, 10 min, 15 min, or 30 min) and nature tone (Fairy fountain, Birdsong by the lake, Sparkling mist, The secret forest, Serenity, or Gentle spring rain).

- Interval category describes the length of time the alarm will remain silent between alarm notifications (snooze time).
- Tone category provides one of several nature sounds that are used as the alarm tone.
- 6. Tap the Name field and enter a name for this Alarm.
- 7. Tap Save to store the new alarm event.

Turning Off an Alarm

 To stop an alarm when it sounds, touch and slide to any direction.

Setting the Snooze Feature

 To activate the Snooze feature after an alarm sounds, touch and slide to any direction. Snooze must first be set in the alarm settings.

Deleting an Existing Alarm

- 1. From the Home screen, tap $(Apps) \rightarrow (Clock)$.
- 2. Touch and hold an on-screen alarm event.
- 3. Tap Delete.

World Clock

This feature allows you to find out what time it is another part of world.

- 1. From the Home screen, tap $(Apps) \rightarrow (Clock)$.
- 2. Tap the World Clock tab.
- Tap Add city then scroll and select the desired city, or tap in the search field to locate a city.

To assign DST settings:

- 1. Locate a desired city from the World Clock list.
- 2. Touch and hold a city and select **DST settings**.
- Select a DST setting (Automatic, Off, or 1 hour). If Daylight Savings Time is selected, a sun symbol appears next to the World Clock city listing.

Stopwatch

This feature allows you to capture elapsed time while letting the stopwatch keep running.

- From the Home screen, tap (Apps) → (Clock) → Stopwatch tab.
- 2. Tap Start to start the stopwatch counter.
- 3. Tap Lap to begin the lap time counter.
- 4. Tap **Stop** to stop the counter.
- Tap Restart to restart the lap counter. You can have multiple lap times.
- 6. Tap Reset to reset the counter.

Setting a Timer

- From the Home screen, tap (Apps) → (Clock) → Timer tab.
- 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.
- Tap Stop to stop the timer or Reset to reset the timer and start over.
- 5. Tap Restart to resume the timer counter.

Configuring a Desk Clock

This feature lets you activate an on-screen clock that can be viewed when the device is docked.

■ From the Home screen, tap (Apps) → (Clock) → Desk clock tab.

Contacts

The default storage location for saving phone numbers to your Contacts List is your phone's built-in memory.

■ From the Home screen, tap $(Apps) \rightarrow (Contacts)$.

Downloads

Provides quick access to tabs containing a list of your current downloaded files (Internet and Other).

- 1. From the Home screen, tap \bigoplus (Apps) \rightarrow \bigcirc (Downloads).
- Tap an available file category tab (Internet downloads or Other downloads) and select the desired file.

Email

Email enables you to review and create email using most email services. The device alerts you when you receive an email message.

■ From the Home screen, tap \bigoplus (Apps) → \bigcirc (Email).

Gallery

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

From the Home screen, tap $(Apps) \rightarrow (Gallery)$.



Gmail

Google Mail (Gmail) is a web-based email service. Gmail is configured when you first set up your phone. Depending on your synchronization settings, Gmail can automatically synchronize with your Gmail account on the web.

From the Home screen, tap $(Apps) \rightarrow (Gmail)$.

Google

Use Google Search to search the Web.

From the Home screen, tap $(Apps) \rightarrow (Google)$ and enter the search text.

- or -

on the Google Search bar and say the search information

Google Settings

As Google has become more intertwined with other applications, this menu provides a quick and ready access point to configure preferences for Google+, Maps & Latitude, Location, etc.. You can also use the Search function to initiate a Google Search from this menu.

- From the Home screen, tap (Apps) →
 (Google Settings) and select an on-screen option.
- Tap one of the following options: Apps with Google+ Sign in, Google+, Play Games, Location, Maps & Latitude, Search, and Ads.

Follow the on-screen prompts.

Google +

Google+ makes messaging and sharing with your friends a lot easier.

- 1. Sign on to your Google account. For more information, refer to "Creating a New Google Account" on page 22.
- 2. From the Home screen, tap \implies (Apps) \rightarrow g+ (Google+).

Group Play

This application lets you share documents, photos or music in real-time with other connected friends.

Important! To share a Group Play, all users must be connected to the same Wi-Fi access point.

- 1. From the Home screen, tap $(Apps) \rightarrow (Group Play)$.
- Read the various on-screen information and tap Next to continue.
- 3. Follow the on-screen tutorials.

To share a picture with other Group Play users:

- From the Home screen, tap (Apps) → (Group Play).
- Tap the available Wi-Fi indicated at the top and verify you are connected to an active Wi-Fi. This must be the same Wi-Fi being used by your external recipients.
- Tap Share picture and then select a image by placing a green checkmark on it and tapping Done.
- Enter a PIN code and tap Done (to secure you session). Pass this PIN along to all your recipients.
- 5. Your recipients must then:
 - · Launch the Group Play feature on their device.
 - Tap the active Group Play session (shown at the bottom of the application screen).
 - Your recipients must enter the PIN code you created for the session.

You can now interact and draw with the on-screen image, users will instantaneously see the same gestures and also be able to interact.

Hangouts

Previously known as Google TalkTM, is an updated place to hangout, share photos, and even video calls. This is a free Windows and webbased 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.

■ From the Home screen, tap $(Apps) \rightarrow (Hangouts)$.

Help

Provides access to built-in Help information.

- 1. From the Home screen, tap $(Apps) \rightarrow [\cite{Apps}]$ (Help).
- 2. Select an on-screen topics and follow the built-in navigations.

Internet

Open the browser to start surfing the web. The browser is fully optimized and comes with advanced functionality to enhance the Internet browsing feature on your phone.

■ From the Home screen, tap $(Apps) \rightarrow (Internet)$.

For more information, refer to "Internet" on page 293.

Local

Local (formerly known as Google Places) displays company logos on a layer of Google Maps. When viewing an area you can quickly locate a business or person, find out more information about the business, see coupons, public responses, and more.

- 1. From the Home screen, tap $(Apps) \rightarrow (Local)$.
- Tap Q (Search) and then use the Search Maps field to manually enter a desired place or choose from among the various categories. Matches are filtered by those closest to your current location.
- Locate and tap one of the listed options (Restaurants, Cafes, Bars, Attractions, [user added searches], RECOMMENDATIONS, or IN THIS AREA a list of places within this category displays.
- 4. Tap the Maps icon to launch the related maps feature.
- 5. Press and then tap Add a search. The functions adds additional search shortcuts to the places screen.

Maps

Google Maps allow you to track your current location, view real-time traffic issues, and view detailed destination directions. There is also a search tool included to help you locate places of interest or a specific address. You can view locations on a vector or aerial map, or vou can view locations at the street level.

Important! Before using Google Maps you must have an active data (3G/4G) or Wi-Fi connection. The Maps application does not cover every country or city.

From the Home screen, tap \implies (Apps) \rightarrow \implies (Maps).



Important! For best results, it is recommended that you enable all of your location services. For more information, refer to "Location Services" on page 360.

Enabling a Location source

Before you use Google Maps and find your location or search for places of interest, you must enable a location source. To enable the location source you must enable the wireless network, or enable the GPS satellites

Important! The more location determining functions are enabled, the more accurate the determination will be of your position.

 From the Home screen, press
 and then tap Settings → Location services

- Tap Use wireless networks allows apps to use data from sources such as Wi-Fi and mobile networks to provide a better approximation of your current location.
- 3. Tap Use GPS satellites to enable the GPS satellite.
- Tap Location and Google search to allow Google to use your location data to improve your search results and other services.

Tip: Enabling this feature allows you to locate places of interest at the street-level. However, this also requires a clear view of the sky and uses more battery power.

Opening Maps

- **1.** From the Home screen, tap $(Apps) \rightarrow (Maps)$.
- Tap the upper-right My location button to find your location on the map with a blinking blue dot.
- Locate the bottom row of the buttons to access additional options:
 - **Search**: allows you to search for a place of interest.
 - Directions: displays navigation directions to a location from a starting point.
 - Local: provides access to the places menu where you can quickly locate
 a business or person, find out more information about a business, see
 coupons, public responses, and more (Local). Locate and tap one of the
 listed places (Restaurants, Cafes, Bars, Attractions, or select from
 available categories such as Entertainment, ATMs, Gas stations, Hotels,
 Post office, or Taxi.)

- Layers: allows you to switch map views:
 - Traffic: (available only in selected areas) Real-time traffic conditions are displayed over roads as color-coded lines. Each color represents how fast the traffic is moving.
 - Satellite: Maps uses the same satellite data as Google Earth. Satellite
 images are not real-time. Google Earth acquires the best imagery
 available, most of which is approximately one to three years old.
 - Terrain: combines a topographical view of the area's terrain with the current map location.
 - **Transit Lines**: displays the overlapping transit lines on your map.
 - Latitude: allows you to see your friend's locations and share your location with them
 - My Maps: displays a list of your preferred maps.
 - Bicycling: displays the overlapping cycling trails on your map.
 - Wikipedia: displays any Wikipedia markers and info on your map.
- **4.** Press and select one of the following options:
 - Clear Map: allows you to remove all markings and layers from the map.
 - Make available offline: allows you to store map-related information locally on your device and access it even when the device is offline.
 - Settings: allows you to select the following additional options:
 - Display: allows you to enable/disable the Zoom Buttons, Scale Bar, and Bubble action.

- Offline and cache: allows you to set options to pre-fetch map tiles when not using Wi-Fi and to clear the cache that holds the map tiles. Choose from: Automatic caching, Clear all map titles, and Clear My Places cache.
- Location settings: lets you access and configure the location settings.
- Sign in: used to log into your existing Google account.
- Labs: this is a testing ground for experimental features that aren't ready for primetime. They may change, break or disappear at any time. Click on a Lab to enable or disable it.
- What's New: provides access to the Play Store from where you can update the application manually.
- About: displays general information about Google maps such as Version,
 Platform, Locale, Total data sent, Total data received, Free memory, etc.
- **Feedback**: allows you to provide application feedback.
- Terms, Privacy & Notices: displays the Terms and Conditions, Privacy Policy, Legal Notices, or Web History information. Select the desired information from the pop-up menu.
- Help: provides help information.

Messaging

This application allows you to use the Short Message Service (SMS) to send and receive short text messages to and from other mobile phones.

You can also use the Multi Media Service (MMS) to create multimedia messages to send and receive from other mobile phones.

■ From the Home screen, tap $(Apps) \rightarrow (Messaging)$.

Messenger

Messenger allows you to bring groups of friends together into a simple group conversation. When you get a new conversation in Messenger, Google+ sends an update to your phone.

- Sign on to your Google account. For more information, refer to "Creating a New Google Account" on page 22.
- From the Home screen, tap (Apps) → (Messenger).
 or –

From the Google+ application, select Messenger.

Music Player

This application allows you to play music files that you have stored on your microSD card. You can also create playlists.

■ From the Home screen, tap (Apps) → (Music Player).

My Account Downloader

This application provides access to your current account information.

- From the Home screen, tap (Apps) → (My Account Downloader).
- 2. Follow the on-screen instructions to download the application.
- Once installed, open the application and follow the on-screen instructions.

My Files

This application allows you to manage your sounds, images, videos, bluetooth files, Android files, and other memory card data in one convenient location. This application allows you to launch a file if the associated application is already on your phone (ex: MP4).

■ From the Home screen, tap (Apps) → (My Files)

Note: Navigation in this viewer works on a hierarchy structure with folders, subfolders, etc.

Note: The application lets you view supported image files and text files on both your internal storage and microSD card.

Opening and Navigating within Files

DCIM is the default location for pictures or video taken by the device. These files are actually stored in the DCIM folder location.

- . From the Home screen, tap $(Apps) \rightarrow (My Files)$.
- Tap a folder and scroll down or up until you locate your selected file.
 - Home tab allows you to back up to the root directory.
 - **Up tab** allows you to back up into a higher directory.
 - Press and then tap View by to change the way the files are displayed on-screen. Choose from: List, List and details, or Thumbnail.
 - Press for these additional options: Select all, Create folder,
 Search, View by, Sort by, and Settings.
 - Place a checkmark alongside a desired folder then select Delete, Share, or press the upper-right menu button to reveal these additional options: Move, Copy, Rename, or Details.
- Once you have located your file, tap the file name to launch the associated application.

Navigation

Google Maps Navigation (Beta) is an internet-connected turn-by-turn, GPS navigation system with voice guidance.

Caution! Traffic data is not real-time and directions may be wrong, dangerous, prohibited, or involve ferries.

Important! To receive better GPS signals, avoid using your device in the following conditions:

- inside a building or between buildings
- in a tunnel or underground passage
- in poor weather
- around high-voltage or electromagnetic fields
- in a vehicle with tinted windows
- 1. From the Home screen, tap $(Apps) \rightarrow A$ (Navigation).
- Read the on-screen disclaimer regarding the current release status of the Navigation app and tap Accept.

Enabling GPS Location

- From the Home screen, press and then tap Settings → Location services.
- Tap Use wireless networks allows apps to use data from sources such as Wi-Fi and mobile networks to provide a better approximation of your current location.
- 3. Tap Use GPS satellites to enable the GPS satellite.
- Tap Location and Google search to allow Google to use your location data to improve your search results and other services.

Navigation options

- From the Home screen, tap (Apps) → (Navigation)
 The navigation application can be configured from the main screen.
- 2. If prompted, read the on-screen disclaimer and tap Accept.
- 3. Choose from the following on-screen options:
 - Driving/Walking/Bicycling : tap to configure the method of travel. Selection of Walking would negate the need to track traffic jams and obstructions.
 - Speak destination: allows you to use the voice recognition feature to search for matching locations in your area.
 - Type destination: allows you to manually enter a destination address (via the on-screen keypad).
 - Go home: allows you to return to a designated "Home" location.
 - When prompted initially to setup a home address, enter the location into the Enter an address field and tap Save.

• Map: enables the on-screen real-time map functionality.

Navigation Map options

Once on the map screen, you can access the following features:

- **Destination**: returns you to the previous Navigation options screen.
- Search by voice: Speak your destination instead of typing.
- · Layers: allows you to switch map views:
 - Traffic view: (available only in selected areas) Real-time traffic conditions are displayed over roads as color-coded lines. Each color represents how fast the traffic is moving.
 - Satellite: Maps uses the same satellite data as Google Earth. Satellite
 images are not real-time. Google Earth acquires the best imagery
 available, most of which is approximately one to three years old.
 - Parking: displays parking information relative to your current location.
 - Gas stations: displays gas station location relative to your current location.
 - ATMs & banks: displays ATM and Bank locations relative to your current location.
 - Restaurants: displays restaurant and eatery locations relative to your current location.

While on the map screen, press is to access additional options:

- Set destination: returns you to the navigation options screen where you
 can access a destination by either Speaking, Typing, or selecting from a
 Contacts entry or Starred Place.
- Search: manually search for a destination address, place, name of business, or even a type of business.
- Layers: allows you to switch map views. See previous description.
- Settings: provides access to both Power settings (Screen dimming) and Information (Terms, privacy & notices).
- Exit navigation: terminates the application.
- Help: provides on-screen help.

Phone

This application provides the ability to make or answering calls, access the Contacts list, which is used to store contact information.

■ From the Home screen, tap (Phone)

For more information, refer to "Call Functions and Contacts List" on page 79.

Play Books

Formerly known as Google Books, this application allows you to read over 3 million ebooks on the go.

Build your ebooks library in the cloud with Play Books: jump right into a bestseller or select from nearly 3 million free ebooks.

Personalize the reader to your liking, pick up reading where you left off on your phone or computer, and settle down with a great book on your Android phone!

- 1. From the Home screen, tap $(Apps) \rightarrow (Play Books)$.
- If prompted, tap Turn sync on. This synchronizes your books you have previously selected between your Books account and your device.
- **3.** Tap \(\text{\text{Q}} \) to begin searching for both free and paid ebooks.
- Follow the on-screen prompts to download the ebook to your device.

Play Magazines

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

- From the Home screen, tap (Apps) → (Play Magazines).
- Log on to your Google account if you have not already done so.
 For more information, refer to "Signing into Your Google
 Account" on page 23.
- At the main screen, tap the upper-left Read Now link and then select Shop to browse the full catalog.
- Sweep the screen to the left or right to view Categories, Featured, Top Selling, and New Arrivals.
- **5.** Tap a magazine to see more information and subscribe.
- Follow the on-screen instructions to subscribe or purchase a magazine.

Play Movies & TV

This application allows you to connect to the Play Store, download a movie and then watch it instantly.

Learn more about Google Play Movies at:

http://play.google.com/about/movies.

From the Home screen, tap (Apps) → (Play Movies & TV). A list of videos sorted on the SD card displays in the Video list.

Play Music

Also known as Google Music, allows you to browse, shop, and playback songs purchased from the Play Store. The music you choose is automatically stored in your Google Music library and instantly ready to play or download.

From the Home screen, tap \longrightarrow (Apps) \rightarrow (Play Music).



Play Store

Formerly known as the "Android Market", this application provides access to downloadable applications and games to install on your phone. The Play Store also allows you to provide feedback and comments about an application, or flag an application that might be incompatible with your phone.

Before using the Play Store, you must have a Google Account.

Accessing the Play Store

- 1. From the Home screen, tap $(Apps) \rightarrow (Play Store)$.
- 2. If not already logged in with your Google account, tap Next.
- Tap Existing, enter your Google account information and tap (Next).
- 4. Tap **0K** to agree to the Play Store terms of service.

Downloading a New Google Application

To download a new application, you will need to use your Google account to sign in to the Play Store. The home page provides several ways to find applications. The home page features applications and includes a list of item applications by category, a list of games, a link to search, and a link to My apps.

- 1. From the Home screen, tap $(Apps) \rightarrow (Play Store)$.
- Browse through the categories, find an application you're interested in. and tap the name.
- 3. Read the application descriptions.

Important! If the selected application requires access to data or control of a function on your device, the Play Store displays the information the application will access.

Tap **OK** if you agree to the conditions of the application. Once you tap **OK** on this screen you are responsible for using this application on the device and the amount of data it uses. Use this feature with caution.

4. Tap Install → ACCEPT.

Note: Use caution with applications which request access to any personal data, functions, or significant amounts of data usage times.

- If prompted, follow the on-screen instructions to pay for the application.
- 6. Check the progress of the current download by opening the Notifications panel. The content download icon appears in the notification area of the status bar.
- On the main Play Store screen, press and then tap My apps, tap an installed application in the list, and then tap Open.

Tip: The newly downloaded applications display in the applications list and are shown in alphabetical order if the View Type is set to Alphabetical grid or Alphabetical list, or at the end of the list if View type is set to Customizable grid.

Note: A data plan is required to use this feature. Charges may apply. Please contact your service provider for further details.

Launching an Installed Google Application

- From the Home screen, tap (Apps).
- Tap the newly installed application. This application is typically located on the last Applications page.

Unknown sources

This feature can be used for Android application development. The feature allows developers to install non-Play Store applications.

From the Home screen, press
 Security → Unknown sources.

Unknown sources displays a check mark to indicate it is active.

Note: If Unknown sources is disabled, those applications without a certificate will not be allowed to download to your device.

Manage applications

This feature allows you to manage and remove installed applications. You can also view the amount of memory or resources used as well as the remaining memory and resources for each of the applications on your device and clear the data, cache, or defaults.

■ From the Home screen, press and then tap Settings → Application manager.

Clearing application cache and data

- From the Home screen, press and then tap Settings →
 Application manager.
- 2. Tap an application in which to clear the cache or data.
- 3. Tap Force stop, Uninstall, Clear data, Clear cache, or Clear defaults.

Uninstalling third-party applications

You can uninstall any application you downloaded and installed from the Play Store.

- From the Home screen, press and then tap Settings →
 Application manager → ALL.
- Tap the third-party application, and from the App info screen, tap Uninstall.

S Memo

The S Memo application allows you to create memos using the keypad, your finger, or both. You can add images, voice recordings, and text all in one place.

Creating a New Memo

- From the Home screen, tap (Apps) → S (S Memo).
 The S Memo screen is displayed.
- Tap an existing Memo to open it then tap the screen to enter edit mode.
 - or -

Tap + T to start a new memo in text mode with the keypad displayed or tap + ∠ to start a new memo in drawing mode using your finger or a compatible

on-screen writing tool. You can change back and forth in a memo to add text with the keypad and the pen.

The icons that you see displayed on the screen are described in the following table:

- Saves the current memo and creates a new one.
- Changes the view mode.
- Allows you to add free-format drawing.
- T Displays the keypad to you can add text.
- Eraser tool allows you to erase marks and drawings.

- 5 Undo the last action.
- Redo the last action that was undone.
- Make a voice recording to add to the memo.
- ★ Hide the secondary toolbar.
- Show the secondary toolbar.
- Add an additional page to the memo.
- 3. Press 🖃 to access the following options:

Note: Depending on whether you have saved the memo, are in keypad mode, or in handwriting mode, the options will appear differently. The following is a list of the options you may see.

- Rename: allows you to change the current memo title.
- Share via: allows you to share your memo using Group Play, Hangouts, Picasa, Google+, Bluetooth, Wi-Fi Direct, Messaging, Gmail, or Email.
- Handwriting-to-text: allows you to transcribe handwriting into text.
- Export: allows you to save the memo to your Gallery as either a JPG or as a PDF.
- **Save as**: allows you to save the memo with a different name.
- Add picture: allows you to add an image to the current memo. Choose from: Picture, Take picture, Clip Art, Clipboard, or Map.
- Add tag: allows you to set tags to add in searches.

- Add as favorite: allows you to tag the current memo as a favorite.
- Change background: allows you to set the background for your memo.
 Swipe the screen to the left or right to select a background and then tap Done.
- Link to Calendar: allows you to link the memo to your Calendar.
- Lock: allows you to lock an email by using a PIN number.
- Set as: allows you to set a memo as a contact icon, Home screen wallpaper, or Lock screen wallpaper.
- Print: allows you to print the screen or web page on a Samsung printer using Wi-Fi.

When you are finished creating your memo, tap **Save** on the top menu bar.

S Voice

Launches your phone's built-in voice recognition system that allows you to initiate several common tasks without having to touch the phone. Features include: Call, Text, Navigate, Play music, Memo, and Driving mode.

■ From the Home screen, tap $(Apps) \rightarrow (S Voice)$.

For more information, refer to "Using S Voice" on page 91.

Samsung Link

This application wirelessly synchronizes your Samsung mobile phone with your TV, streams content and even keeps tabs on who calls or sends text messages with real-time, on-screen monitoring. Samsung's Samsung Link makes staying connected easy.

Allows users to share their in-device media content with other external devices using DLNA certified™ (Digital Living Network Alliance) Devices. These external devices must also be DLNA-compliant. Wi-Fi capability can be provided to TVs via a digital multimedia streamer.

AllShare/Samsung Link Definitions:

Samsung Link/ AllShare Play This new feature builds on the previous AllShare Play functionality. It includes features such as Web storage integration and social networking integration. This is a Web service that requires using a Samsung account.

Group Play

A subset feature of Samsung Link, this allows you to mirror photos and multimedia presentations with other members of your current Wi-Fi group. Users must be on the same Wi-Fi and provide an access code to ioin the group.

AllShare Cast (with Hub accessory) This feature functions with an external AllShareCast Hub to fully mirror what is currently displayed on your device to the external TV.

Important! You must first connect both of your communicating devices to the same Wi-Fi and be using an active/registered Samsung account prior to using this application.

For more information, refer to "Wi-Fi settings" on page 321.

For more information, refer to "Creating a Samsung Account" on page 25.

Important! The Samsung account manages the access information (username/password) to several applications, such as Samsung Link.

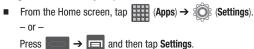
- From the Home screen, tap (Apps) → (Samsung Link).
- If prompted, read the on-screen message about network charges and tap **0K** to continue and return to the main screen.
- 3. If prompted, tap Sign in to log into your Samsung account.

Note: If the main screen still shows a Sign in box, close the application and restart it.

4. Tap Start and follow the on-screen prompts.

Settings

This icon navigates to the sound and phone settings for your phone. It includes such settings as: display, security, memory, and any extra settings associated with your phone.



For more information, refer to "Changing Your Settings" on page 321.

Video Player

The Video player application plays video files stored on your microSD card.

From the Home screen, tap (Apps) → (Video Player).

Voice Recorder

The Voice Recorder allows you to record an audio file up to one minute long and then immediately send it as a message.

- From the Home screen, tap (Apps) → (Voice Recorder).
- 2. Tap (Record) to record an audio file.
- Tap (Stop) to stop recording. The file automatically saves to the Voice list.
- 4. Tap (Pause) to pause the recording of an audio file.
- 5. Tap (Cancel) to cancel the recording of an audio file.
- 6. Tap (List) to display a list of current receordings.
- From the Recorded files page, press and then select one of the following:
 - Share via and select a method in which to share this audio file.
 Selections are: Bluetooth, Email, Gmail, Group Play, Messaging, or
 Wi-Fi Direct. Refer to each specific section, depending on the method you selected to send this voice recording.
 - Delete: allows you to delete 1 or more voice recordings. Tap the recordings to delete and tap Delete.
 - **Settings**: the following settings are available:
 - Storage: allows you to choose where your recordings will be saved.
 Select between Phone or memory card.
 - Recording quality: allows you to set the recording quality to High or Normal.

- Limit for MMS: allows you to select On or Off. If you Limit for MMS by selecting On, you will be assured that the recording can be sent in a message.
- Contextual filename: allows you to assign a filename based on GPS tag information
- Default name: allows you to choose the name prefix for your recordings.
 For example, if your Default name is Voice, your recordings would be named Voice 001, Voice 002, Voice 003, etc.
- End: allows you to exit the application.

Voice Search

Launches the Google Now application that is used for voice to text Internet searching.

- From the Home screen, tap (Apps) → (Voice Search).
- 2. When prompted, speak into the built-in microphone.
- 3. Use the on-screen options to find a matching search term.

VPN Client

This is a full-featured VPN Client that provides support for the latest IPSec VPN standards and provides interoperability with support for all major VPN Gateways.

- 1. From the Home screen, tap $(Apps) \rightarrow (VPN Client)$.
- 2. Follow the on-screen instructions to configure the VPN Client.
 - Options include: Add VPN Connection or My VPN Connections.

YouTube

YouTube is a video sharing website on which users can upload and share videos, and view them in MPEG-4 format.

- 1. From the Home screen, tap $(Apps) \rightarrow You$ (YouTube).
- When the screen loads you can begin searching and viewing posted videos.

To configure YouTube Settings:

- Press and then tap Settings and configure the following parameters:
 - General
 - High quality on mobile, when enabled, allows you to start all videos in high quality mode while you are connected to a mobile network.
 - Caption font size allows you to set the font size used by on-screen captions. Choose from: Small, Medium, Large, or Huge.
 - Uploads specifies network preferences for uploads.
 - Content localization allows you to prioritize channels and videos from a specific country or region.

 Improve YouTube allows you to anonymously send YouTube information to help improve the application.

· Connected TVs

 Allows you to piar your device to a wireless TV running a YouTube application. Options include Add a TV and Edit TVs.

Search

- Clear search history allows you to clear previous YouTube searches from showing up in the YouTube search box.
- Never remember history allows you to force YouTube to never store search history information.
- SafeSearch filtering allows you to configure block settings for videos containing restricted content. This option blocks these videos from appearing within your search results. Choose from: Don't filter, Moderate, or Strict blocking.

Preloading

- Preload subscriptions allows you to preload (or go get videos while on Wi-Fi and charging) your subscription videos.
- Preload watch later allows you to enable the preload function on selected videos so you can watch them later. Read the data usage information and tap OK to accept the terms.

Note: Preloading YouTube videos will use some of your device's storage space and may result in additional charges if your Wi-Fi plan is not unlimited.

About

- **Help** provides answers to most YouTube questions.
- Feedback allows you to provide user feedback to YouTube.
- Google Mobile Terms of Service
- YouTube Terms of Service
- Google Mobile Privacy Policy
- YouTube Privacy Policy
- Open source licenses
- App version displays the software version for the current YouTube application.

To watch a high quality video:

Press and then tap Settings → General → High quality on mobile.

Section 9: Connections

Your phone is equipped with features that allow you to quickly connect to the web.

Internet

Your device is equipped with a Google browser to navigate the mobile web. This section explains how to navigate the browser and use the basic features.

Accessing the Internet

To access the Browser:

From the Home screen, tap $(Apps) \rightarrow (Internet)$.

Note: You must disable your Wi-Fi connection if you wish to view the home page.

Navigating with the Browser

- 1. Tap an entry to select an item.
- Sweep the screen with your finger in an up or down motion to scroll through a website.
- 3. To return to a previous page, tap
- **4.** To move forward to a web page, tap

Browser Options

- From the top of the browser screen, select one of the available options:
 - Navigation: use the forward and back buttons to navigate through your browsing activity.
 - **Refresh**: reloads the current page.
 - Bookmarks: provides access to the Bookmarks screen.
 - Windows: displays a list of the windows you have open.
 - or –

From the home page, press to access the following options:

- New window: launches a new browser window.
- Add bookmark: allows you to add a URL to your bookmark list.
- Add shortcut to home screen: creates a shortcut to the web2go Home page and then places it on an open area on an available extended screen.
- **Share page**: allows you to share the page using Gmail or as a message.
- Find on page: allows you to search in the current page.
- Desktop view: allows you to assign the browser to display the current page in the desktop view (to closely mimic the display as it would appear on a Desktop computer).
- Save for offline reading: allows you to store the current page in memory so that it can be read later even if you loose your Internet connection.

- Brightness: allows you to assign a brightness level specifically for the browser window. This is independent of the brightness assigned within the device's Settings menu.
- Downloads: displays the download history.
- Print: provides print access on compatible Samsung printers.
- Settings: allows you to change the way you view your web pages by changing these options. For more information, refer to "Browser Settings" on page 303.

Entering a URL

You can access a website quickly by entering the URL. Websites are optimized for viewing on your phone.

To enter a URL and go to a particular website:

 From the homepage tap the URL field at the top of the screen, enter the URL and tap Go.

Note: This is not the same application as the Google Search Widget.

Using Reader Mode

When activated, this feature restructures the current Web page to provide a more reader-friendly experience. The text size can be adjusted for easier reading.

- From the Home screen, tap (Apps) → (Internet).
- 2. Navigate to a graphic heavy or content rich Web page.
- If (Reader Mode) appears in the Address bar, tap it to activate the feature.
- 4. Adjust the Font size or tap (Share via).
 - Share via: allows you to share the website via Bluetooth, Email, Gmail, Google, Google+, Hangouts, Messaging, S Memo, or Wi-Fi Direct.

Search the Internet

To perform an Internet search using keywords:

- From within the Google search application, tap the Google search field, enter the keyword(s) to search using the on-screen keypad.
- Tap from the list of search results that are displayed.
- 3. Tap a link to view the website.

Adding and Deleting Windows

You can have up to eight Internet windows open at one time.

To add a new window:

- From your browser window, tap (Window) → + (New window).
- 2. A new browser window displays.

Note: The number of currently open windows is displayed at the bottom of the Windows screen.

Scroll across the screen to view the currently active windows and tap an entry to launch the selected Internet window.

To delete an existing window:

- 1. From your browser window, tap (Windows).
- Scroll across the available windows and locate your target window
- 3. Tap next to the listing to delete the window.

Going Incognito

The incognito feature allows you to view Internet sites outside of the normal browsing. Pages viewed in this incognito window won't appear within your browser history or search history, and no traces (such as cookies) are left on your device.

Note: Any downloaded files will be preserved and will stay on your device after you exit the incognito mode.

To add a new incognito window:

- From your browser window, tap (Windows) → (Incognito).
- 2. A new browser window displays.

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

To exit from the incognito window:

- 1. From your browser window, tap [2] (Windows).
- Scroll across the available windows and locate the incognito window.
- Tap next to the incognito listing to delete this window.

Using Bookmarks

While navigating a website, you can bookmark a site to quickly and easily access it at a future time. The URLs (website addresses) of the bookmarked sites display in the Bookmarks page. From the Bookmarks page you can also view your Most visited websites and view your History.

- From the webpage, tap (Bookmarks).
 The Bookmarks page displays. Additional pages include History and Saved pages.
- **2.** Press to display the following options:
 - List/Thumbnail view: Select Thumbnail view (default) to view a
 thumbnail of the webpage with the name listed, or select List view to
 view a list of the bookmarks with Name and URL listed.
 - Create folder: Creates a new folder in which to store new bookmarks.

- Change order: Rearranges the current bookmarks.
- Move to folder: Selected bookmarks are moved to a selected folder.
- Delete: Erases selected bookmarks.
- 3. Tap a bookmark to view the webpage, or touch and hold a bookmark for the following options:
 - Open: Opens the webpage of the selected bookmark.
 - Open in new window: Opens the webpage in a new window.
 - Edit bookmark: Allows you to edit the name or URL of the bookmark.
 For more information, refer to "Editing Bookmarks" on page 300.
 - Add shortcut to home screen: Adds a shortcut to the bookmarked webpage to your phone's Home screen.
 - Share link: Allows you to share a URL address via Bluetooth, Email, Gmail, Google+, Hangouts, Messaging, S Memo, or Wi-Fi Direct.
 - Copy link URL: Allows you to copy the URL address to use in a message.
 - **Delete bookmark**: Allows you to delete a bookmark. For more information, refer to "*Deleting Bookmarks*" on page 301.
 - **Set as homepage**: Sets the bookmark to your new homepage.

Adding Bookmarks

- 1. From the webpage, tap → Add bookmark.
- Use the on-screen keypad to enter the name of the bookmark and the URL.
- Tap the Location field to assign a folder location. Home is the default.
- **4.** Select a storage location for your new bookmark.
- Tap Save. The new save page now appears on the Bookmarks page.

Editing Bookmarks

- From the Bookmarks page, touch and hold the bookmark you want to edit.
- 2. Tap Edit bookmark.
- Use the on-screen keypad to edit the name of the bookmark or the URL.
- Tap the Location field to assign a new folder location.
 Home is the default.
- Tap Save or Cancel to exit the operation.

Deleting Bookmarks

- From the Bookmarks page, touch and hold the bookmark you want to delete.
- 2. Tap Delete bookmark.
- 3. At the confirmation window, tap OK.

Emptying the Cookies

A cookie is a small file placed on your phone by a website during navigation. In addition to containing some site-specific information, a cookie can also contain some personal information (such as a username and password) which might pose a security risk if not properly managed. You can clear these cookies from your device at any time.

- From an active Web page, press and then tap Settings → Privacy and security →Clear all cookie data.
- 2. Tap **OK** to delete the cookies or tap **Cancel** to exit.

Using Web History

The History list displays a list of the most recently viewed websites. These entries can be used to return to previously unmarked web pages.

- 1. From the webpage, tap \Rightarrow History tab.
- Select a visited range category. Choose from: Today, Yesterday, or Most visited.
- 3. Tap an entry to display the webpage.
 - or –

Press and then tap **Clear history** to delete the current History list.

Using Most Visited

The Most visited list provides you with a list of the most visited and bookmarked websites. These entries are used to return to previously unmarked web pages.

- From the webpage, tap → History → Most visited tab.
 A list of your most frequently visited webpages displays. The most frequently visited web pages display at the top of the list.
- Tap any entry to display the selected webpage.

Browser Settings

To configure browser settings:

- 1. From the Home screen, tap \bigoplus (Apps) \rightarrow (Internet).
- 2. Press and then tap Settings.
- 3. Choose an option from the following categories:

General:

- **Set home page**: Sets the current home page for the Web browser.
- Form auto-fill: Allows you to fill in Web forms with a single tap.
- Auto-fill text: Allows you to set the text used for the Web form auto-fill feature.

Privacy and security:

- Clear cache: Deletes all currently cached data. Tap OK to complete the process.
- Clear history: Clears the browser navigation history. Tap OK to complete
 the process.
- Show security warnings: Notifies you if there is a security issue with the current website. Remove the check mark to disable this function.
- Accept cookies: Allows sites, that require cookies, to save and read cookies from your device.
- Clear all cookie data: Deletes all current browser cookie files.
- Remember form data: Allows the device to store data from any previously filled out forms. Remove the check mark to disable this function.
- Clear form data: Deletes any stored data from previously filled out forms. Tap OK to complete the process.

- Enable location: Allows websites to request access to your location.
- Clear location access: Clears location access for all websites. Tap OK to complete the process.
- Remember passwords: Stores usernames and passwords for visited sites. Remove the check mark to disable this function.
- Clear passwords: Deletes any previously stored usernames or passwords. Tap OK to complete the process.
- Enable notifications: Enables notifications for all websites. Select either: Always on, On demand (user driven), or Off.
- Clear notifications: Clears Web notification access for all websites.
 Tap OK to complete the process.

Accessibility:

- Force zoom: Allows you to override a website's zoom setting and forces a zoom view.
- Text size: Allows you to manually adjust the size of the on-screen text size (Scale text up and down), Zoom amount on double tap, and minimum font size via the use of an on-screen slider.
- Inverted rendering: Allows you to adjust the way a Web page is displayed to make it easier to view or read. Enabling this feature causes a page to rendered in reverse - Black becomes white and vice versa.
 On-screen white text is displayed as white text on a black background.
- Contrast: Allows you to adjust the on-screen contrast.

Note: The Contrast feature is disabled until the Inverted rendering function is active.

Advanced:

- Select search engine: Allows you to choose a default search engine for your phone. Choose from: Google Search, Yahoo!, or Bing.
- Open in background: New pages are launched in a separate page and displayed behind the current one. Remove the check mark to disable this function.
- Enable JavaScript: Enables javascript for the current Web page.
 Without this feature, some pages may not display properly. Remove the check mark to disable this function.
- Allow multiple tabs per app: Provides the ability for different applications to launch separate tabs.
- Enable plug-ins: Allows the download of plug-ins such as Adobe Flash.
- **Default storage**: Sets the default storage to Memory card.
- Website settings: View advanced settings for individual websites.
- **Default zoom**: Adjusts the zoom feature. Set to Far, Medium, or Close.
- Open pages in overview: Displays an overview of recently viewed web pages.
- Auto-fit pages: Allows web pages to be resized to fit as much of the screen as possible.
- Block pop-ups: Prevents popup advertisement or windows from appearing on-screen. Remove the check mark to disable this function.
- **Text encoding**: Adjusts the current text encoding.
- Reset to default: Clears all browser data and resets all settings to default.

Bandwidth Management:

- Preload search results: Allows the browser to preload high confidence search results in the background. If the device can accurately guess your in progress search, it will preempt you by beginning to load the matching Web page before you complete the search request.
- Page preloading: Allows the browser to preload pages in the background.
- Load images: Allows web page images to load along with the other text components of a loaded website.

Labs:

- Quick controls: allows you to enable on-screen quick controls via the use of Swype thumb actions.
- Full screen: Allows Web pages to be resized to fit as much of the screen as possible.

Bluetooth

About Bluetooth

Bluetooth is a short-range communications technology that allows you to connect wirelessly to a number of Bluetooth devices, such as headsets and hands-free car kits, and Bluetooth-enabled handhelds, computers, printers, and wireless devices. The Bluetooth communication range is usually up to approximately 30 feet.

Turning Bluetooth On and Off

To turn Bluetooth on:

- 1. From the Home screen, press and then tap **Settings**.
- In a single motion touch and slide the Bluetooth slider to the right to turn it on.

The slider color indicates the activation status. When active, displays in the Status area.

To turn Bluetooth off:

- 1. From the Home screen, press and then tap **Settings**.
- 2. In a single motion touch and slide the **Bluetooth** slider to the left to turn it off OFF ...

Bluetooth Status Indicators

The following icons show your Bluetooth connection status at a glance:



Displays when Bluetooth is active.



Displays when Bluetooth is connected (paired) and communicating.

Bluetooth Settings

The Bluetooth settings menu allows you to set up many of the characteristics of your device's Bluetooth service, including:

- Entering or changing the name your device uses for Bluetooth communication and description
- Setting your device's visibility (or "discoverability") for other Bluetooth devices
- Displaying your device's Bluetooth address

To access the Bluetooth Settings menu:

- 1. From the main Settings page, tap Bluetooth.
- 2. Verify Bluetooth is active (indicated by ON).
- 3. Press and tap the Rename device, Visible time-out, and Received files fields to set the options.

To change your Bluetooth name:

- 1. Verify Bluetooth is active.
- 2. From the Bluetooth settings page, tap Rename device.
- 3. Enter a new name.
- 4. Tap **0K** to complete the rename process.

To set visibility:

- 1. Verify your Bluetooth is active.
- From the top of the Bluetooth settings page, toggle the state of the visibility check mark. Activating this feature enabled your device visible allows other devices to pair and communicate.

Note: Your device visibility is based on the time set within the Visible time-out field (2 Minutes, 5 Minutes, 1 Hour, or Never timeout).

Press (Menu) → Visible time-out.

This value appears as a countdown within this **Visible** time-out field.

To scan for Bluetooth devices:

- 1. Verify Bluetooth is active.
- From the bottom of the Bluetooth settings page, tap Scan to search for visible external Bluetooth-compatible devices such as headsets, devices, printers, and computers.

To review your Bluetooth received files:

- 1. Verify Bluetooth is active.
- From the Bluetooth settings page, press and then tap Received files.

Pairing Bluetooth Devices

The Bluetooth pairing process allows you to establish trusted connections between your device and another Bluetooth device. When you pair devices, they share a passkey, allowing for fast, secure connections while bypassing the discovery and authentication process.

Note: Pairing between two Bluetooth devices is a one-time process. Once pairing is established the devices continue to recognize their partnership and exchange information without entering a passcode.

To pair your device with another Bluetooth device:

- 1. Verify Bluetooth is active.
- From the Bluetooth settings page, tap the Visibility checkbox (shown by the device name).
 - Your device must be visible to successfully pair with an external device. This is shown by a green check mark.
- Tap Scan. Your device displays a list of discovered in-range Bluetooth devices.
- 4. Tap a device from the list to initiate pairing.
- 5. If prompted, enter a passkey or PIN code, and tap **OK**.
- The external device must accept the connection and enter your device's PIN code.

Once successfully paired to an external device, displays in the Status area.

Note: Due to different specifications and features of other Bluetoothcompatible devices, display and operations may be different, and functions such as transfer or exchange may not be possible with all Bluetooth-compatible devices.

Important! If callers can not hear you during a call while using a paired Bluetooth headset (with built-in microphone), verify the Call audio option is enabled within the entry's Bluetooth Settings page.

Configuring Bluetooth Device Settings

Some connected Bluetooth devices are capable of more than just functioning as a headphone, but also have built in microphones for picking up voice. Although both functions are detected by the device and activated, there might be times when you need to change or update these settings for Phone and Media Audio:

- I can hear the other person but they can't hear me...
- . I want to use my Bluetooth device only as a headphone
- 1. Verify Bluetooth is active.
- 2. From the Bluetooth settings page, tap (Settings).
- Toggle the Call audio field to activate/de-activate the Bluetooth device's on-board microphone.
- Toggle the Media audio field to activate/de-activate the Bluetooth device's headset functions.

Note: If callers can not hear you during a call while using a paired Bluetooth headset (with built-in microphone), verify the Call audio option is enabled within the entry's Bluetooth Settings page.

Disconnecting a Paired Bluetooth Device

Disconnecting a paired device breaks the connection between the device and your phone, but retains the knowledge of the pairing. At a later point when you wish to reconnect the device, there is no need to setup the connection information again.

- 1. Verify your Bluetooth is active.
- From the Bluetooth settings page, tap the previously paired device (from the bottom of the page).
- 3. Tap **0K** to confirm disconnection.

Note: Disconnections are manually done but often occur automatically if the paired device goes out of range of your phone or it is powered off.

Deleting a Paired Bluetooth Device

Deleting a device from your list removes its "connection record" and upon reconnection would require that you re-enter all the previous pairing information.

- 1. Verify Bluetooth is active.
- From the Bluetooth settings page, tap (Settings) → Unpair to delete the paired device.

Sending Contacts via Bluetooth

Depending on your paired devices' settings and capabilities, you may be able to send pictures, Contact information, or other items using a Bluetooth connection.

Note: Prior to using this feature, Bluetooth must first be enabled on both your phone and the external device, and the recipient's device must be visible.

- 1. Verify your Bluetooth is active and your phone is visible.
- 2. From the Home screen, tap (Contacts).
- Touch and hold the entry from the list to display the on-screen context menu.
- Tap Share namecard via → Bluetooth and select a paired external Bluetooth device.

Note: The external Bluetooth device must be visible and communicating for the pairing to be successful.

5. A Bluetooth share notification displays in your notifications list.

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). For more information, refer to "Installing the microSD Memory Card" on page 12.

- From the main Settings page, tap Security → Unknown sources check box.
- Tap **0K** 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. For more information, refer to "Downloading a New Google Application" on page 278.

PC Connections

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

Media storage: allows you to use the onboard storage capacity of both the device and optional microSD to store and upload files. This feature allows your computer to detect the device as a removable storage drive.

Kies air: allows you to sync your Windows PC wirelessly with your phone provided they are both on the same Wi-Fi network.

Kies: allows you to manage music, movies and photos. You can also backup precious contacts and calendars, download apps and podcasts and automatically upgrade device firmware. Kies conveniently syncs your life across all your devices.

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).

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

Connecting as a Storage Device

You can connect your device to a PC as a removable disk and access the file directory. If you insert a memory card in the device, you can also access the files directory from 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.

- Connect the USB cable to the device and connect the cable to the computer. After a few seconds, a pop-up window displays on the PC when connected.
- 2. Open the folder to view files.
- Copy files from the PC to the memory card.

Prior to using Kies air for Phone Update

Before using Kies air to upgrade your device, it is recommended that you backup your personal data prior to use.

To export a Contact list to your microSD card:

- 1. From the Home screen, tap (Contacts).
- 2. Press and then tap Import/Export.
- 3. Tap Export to SD card \rightarrow 0K.

Verify your images and videos are on your microSD card:

- **1.** From the Home screen, tap $(Apps) \rightarrow (Gallery)$.
- 2. Verify the Gallery contains all of your pictures and videos.
- Remove the back cover and remove the internal microSD card prior to initiating a Kies air update.

Enabling USB Debugging

USB debugging must be enabled before being able to use the Development feature.

- 1. From the main **Settings** page, tap **Developer options**.
- Tap the USB debugging field to verify the feature is active before connecting your USB cable.
- Using an optional PC data cable, connect the multifunction jack on your device to a PC.

Wi-Fi

About Wi-Fi

Wi-Fi (short for "wireless fidelity") is a term used for certain types of Wireless Local Area Networks (WLAN). Wi-Fi communication requires access to an existing and accessible Wireless Access Point (WAP). These WAPs can either be Open (unsecured) as within most Hot Spots, or Secured (requiring knowledge of the Router name and password).

Note: After you complete a connection to an active Wi-Fi network, the Wi-Fi Calling feature will automatically be enabled.

Note: For additional information on WPS Connections, refer to "WPS Push Button" on page 324 and "WPS PIN Entry" on page 325.

Activating Wi-Fi

By default, your device's Wi-Fi feature is turned off (deactivated). Activating Wi-Fi allows your device to discover and connect to compatible in-range WAPs (Wireless Access Points).

- 1. From the Home screen, press and then tap Settings.
- In a single motion touch and slide the Wi-Fi slider to the right to turn it on. The slider color indicates the activation status. The device scans for available in-range wireless networks and displays them under Wi-Fi networks on the same screen.

Connecting to a Wi-Fi Network

 From the Home screen, press and then tap Settings → Wi-Fi.

The network names and security settings (Open network or Secured with WEP) of detected Wi-Fi networks display in the Wi-Fi networks section.

2. Tap the network you wish to connect to.

Note: When you select an open network you are automatically connected.

- Enter a wireless password (if necessary).
- 4. Tap Connect.

Wi-Fi Status Indicators

The following icons indicate the Wi-Fi connection status:



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



Displays when Wi-Fi is active and there is an available open wireless network.



Displays when Wi-Fi Direct is active and configured for a direct connection to another compatible device in the same direct communication mode.



Displays when Wi-Fi Direct is active and communicating.

Manually Add a New Network Connection

- 1. From the Wi-Fi network screen, tap Add Wi-Fi network.
- Enter the Network SSID (the name of your Wireless Access Point).
- Tap the Security field and select a security option. This must match the current security setting on your target WAP.
- 4. Enter your WAP's password if the WAP is secure.
- Tap Save to store the new information and connect to the target WAP.

Note: No prompt to enter the WAP key displays if this is the second time to connect to a previously accessed or secured wireless network. The WAP key is required when the device is reset using factory default settings.

Deactivating Wi-Fi

- 1. From the Home screen, press and then tap **Settings**.
- In a single motion touch and slide the Wi-Fi slider to the left to turn it off.
 - or -

Activate and Deactivate Wi-Fi from the Notification bar.

Note: Use of wireless data connections such as Wi-Fi and Bluetooth can reduce battery life and use times.

Manually Scan for a Wi-Fi Network

- 1. From the main Settings page, tap Wi-Fi.
- In a single motion touch and slide the Wi-Fi slider to the right to turn it on.
- 3. Tap Scan.

Wi-Fi Advanced Settings

The Wi-Fi settings - Advanced menu allows you to set up many of the device's Wi-Fi services, including:

- · Setting the Wi-Fi sleep policy
- · Check for Internet service
- Viewing the device's MAC Address
- . Configuring use of either a DHCP or Static IP

To access the Wi-Fi Advanced Settings menu:

- 1. From the main Settings page, tap Wi-Fi
- Press □ and then tap→ Advanced.

Section 10: Changing Your Settings

This section explains the sound and phone settings for your device. It includes such settings as: display, security, memory, and any extra settings associated with your device.

Accessing Settings



Wi-Fi Settings

This section describes the Wi-Fi settings. For more information, refer to "Wi-Fi" on page 317.

Activating Wi-Fi

- 1. From the Home screen, press and then tap **Settings**.
- In a single motion touch and slide the Wi-Fi slider to the right to turn it on ON. The device scans for available in-range wireless networks and displays them under Wi-Fi networks on the same screen.

Wi-Fi settings

Once set up for Wi-Fi connectivity, your device automatically uses Wi-Fi, when available, for all your mobile services.

- 1. From the main Settings page, tap Wi-Fi.
- 2. Press and then tap Advanced. Configure the settings as desired.

The available Wi-Fi connection are displayed with a security type displayed next to them.

Network Notification

By default, when Wi-Fi is on, you receive notifications in the Status bar anytime your phone detects an available Wi-Fi network. You can deactivate this feature if you do not want to receive notifications.

- 1. From the main Settings page, tap Wi-Fi.
- 2. Press and then tap Advanced.
- Tap Network notification. A check mark displayed next to the feature indicates Network notification is active.
- Tap Network notification again to remove the check mark and deactivate this feature.

Wi-Fi During Sleep

By default, when your device enter a sleep mode, your Wi-Fi connection stays on all the time. If the feature is Never enabled during sleep that current data usage is taken over by your SIM and its network connection.

- 1. From the main Settings page, tap Wi-Fi.
- Press and then tap Advanced → Keep Wi-Fi on during sleep.
- Select an available option:
 - Always: maintains your current active Wi-Fi connection even during sleep.
 - Only when plugged in: maintains the active Wi-Fi connection only when the device detects it is connected to a power supply. This reduced the drain on your device's battery.

 Never (increases data usage): shuts off the current Wi-Fi connection during sleep and diverts any current data usage to the cellular network connection.

Check for Internet Service

Allows you to check for Wi-Fi Internet access once connected to a WAP (Wireless Access Point).

- 1. From the main Settings page, tap Wi-Fi.
- 2. Press and then tap Advanced.
- Tap the Check for Internet service field to activate the feature. A green checkmark indicates the feature is active.

Finding your WI-Fi Address Information

- 1. From the main Settings page, tap Wi-Fi.
- 2. Press and then tap Advanced.
- Locate the MAC Address and IP Address information at the bottom of the screen.
 - MAC address: view your device's MAC address, required when connecting to some secured networks (not configurable).
 - IP address: view your device's IP address.

Manually Adding a Wi-Fi Network

- 1. From the main Settings page, tap Wi-Fi → Add Wi-Fi network.
- Enter the Network SSID (the name of your Wireless Access Point).
- Tap the Security field and select a security option. This must match the current security setting on your target WAP (Wireless Access Point).
- 4. Enter your WAP's password if the WAP is secure.
- Tap Save to store the new information and connect to the target WAP.

Note: An SSID is a unique key which identifies a wireless LAN. Its purpose is to stop other wireless equipment from accessing your LAN — whether accidentally or intentionally. To communicate, wireless devices must be configured with the same SSID.

WPS Push Button

The WPS (Wi-Fi Protected Setup) feature (sometimes associated with a physical or on-screen button on most WAPs) allows you to pair your device and WAP without the need for entering a passcode. This process is similar to Wi-Fi Direct pairing.

In this case, once the WPS feature is active on your WAP, your device can then detect it and then immediately pair to it.

Note: WPS-capable routers appear in the Wi-Fi list of available devices with the term (WPS available) below their name.

To pair your device using WPS:

- Follow the WPS activation instructions specific to your Wireless Access Point.
- 2. From the main Settings page, tap Wi-Fi.
- 3. Press im then tap WPS push button.
- Once the connection is complete, confirm the external router now appears in the Wi-Fi list as connected.

WPS PIN Entry

If a WPS Push Button does not work, there is an alternative WPS connection method where you would use a device generated PIN number to establish the connection. This number is then entered into your WAP's WPS client PIN field to complete the connection.

To pair your device using WPS PIN:

- 1. From the main Settings page, tap Wi-Fi.
- 2. Press im then tap WPS PIN entry.
- Write down the generate PIN number and enter it into your Wi-Fi Router's client PIN field.
- Once the connection is complete, confirm the external router now appears in the Wi-Fi list as connected.

Wi-Fi Direct Setup and Settings

You can configure your device to connect directly with other Wi-Fi capable devices. This is an easy way to transfer data between devices. These devices must be enabled for Wi-Fi direct communication. This connection is direct and not via a HotSpot or WAP.



Displays when Wi-Fi Direct is active and configured for a direct connection to another compatible device in the same direct communication mode.



Displays when Wi-Fi Direct is active and communicating.

Note: Activating this feature will disconnect your current Wi-Fi network connection.

To activate your connection:

- From the main Settings page, touch and slide the Wi-Fi slider to the right to turn it on. The slider color indicates the activation status.
- Tap Wi-Fi Direct.
- Tap Scan and select the single device name to begin the connection process to another Wi-Fi Direct compatible device.
 - or -

Tap Multi-connect → Scan and select all the device names to begin the connection process to these Wi-Fi Direct compatible devices

 The target device is notified of the connection attempt via an on-screen Invitation to connect popup. Tap Accept to complete the connection.

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

Tap Done. The direct connection is then established. Confirm appears in the Status bar.

Bluetooth settings

In this menu you can activate Bluetooth, view or assign a device name, activate your phone so other Bluetooth devices can discover it, or scan for other, available Bluetooth devices with which to pair. For more information, refer to "Bluetooth" on page 307.

Turning Bluetooth On and Off

To turn Bluetooth on:

From the main Settings page, in a single motion touch and slide the Bluetooth slider to the right to turn it on.
 The slider color indicates the activation status. When active, displays in the Status area.

To turn Bluetooth off:

 From the main Settings page, in a single motion touch and slide the Bluetooth slider to the left to turn it off.

Note: Bluetooth must be enabled prior to use.

Activating the Device Name

- 1. From the main Settings page, tap Bluetooth.
- 2. Verify Bluetooth is active (indicated by ON).
- Press and tap the Rename device. The assigned device name displays.
- 5. Tap **0K** to confirm your setting.

Activating Visibility

- 1. From the main Settings page, tap Bluetooth.
- 2. Verify your Bluetooth is active.
- From the top of the Bluetooth settings page, toggle the state of the visibility check mark. Activating this feature enabled your device visible allows other devices to pair and communicate.

Scanning for Devices

This option allows you to scan for active Bluetooth devices so you can pair with them.

- 1. From the main Settings page, tap Bluetooth.
- From the bottom of the Bluetooth settings page, tap Scan to search for visible external Bluetooth-compatible devices such as headsets, devices, printers, and computers.

Important! Some Bluetooth devices are secured and require a PIN number to confirm and pair with them. Enter a PIN to pair with the device, if one is required, and tap OK.

Data Usage

Monitor and mange your device's data usage capabilities.

Features include activation/deactivation or network data usage, set mobile data usage for a set period of time, and view application data usage.

From the main **Settings** page, tap **Data usage**.

To activate/deactivate Mobile data usage:

- 1. From the main Settings page, tap Data usage.
- Tap the Mobile data field to activate the feature. A green checkmark indicates the feature is active.
- 3. Tap the Mobile data field again to deactivate the feature.

To set a mobile data limit:

- 1. From the main Settings page, tap Data usage.
- 2. Place a check mark in the Set mobile data limit field.
- 3. Read the on-screen disclaimer info and tap **OK**.
- Touch and drag the far right ends of the Red or Orange horizontal lines to manually adjust both the Warning and Maximum data limits.
- Touch and drag the bottom grey vertical lines to adjust the time frames.
- Tap the Data usage cycle button and select either the current cycle or define your own by selecting Change cycle.

- Press and then select from the available on-screen options:
 - Restrict background data prevents background data usage. This can help prevent over usage of your data minutes.
 - Auto sync data allows the device to automatically sync information and updates with your various services.
 - Show Wi-Fi usage activates an additional Wi-Fi tab that shows you your Wi-Fi data usage.

More Settings

This tab displays additional wireless and network information.

From the main **Settings** page, tap **More settings**.

Using Airplane mode

This mode allows you to use many of your device's features, such as Camera, Games, and more, when you are in an airplane or in any other area where making or receiving calls or data is prohibited.

Important! When your device is in Airplane mode, it cannot send or receive any calls or access online information or applications.

- 1. From the main Settings page, tap More settings.
- Tap Airplane mode. A check mark displayed next to the feature indicates Airplane mode is active.

The Airplane mode icon is displayed at the top of your screen.

Mobile networks

Before you use applications such as Google Maps and find your location or search for places of interest, you must enable the Mobile networks options.

■ From the main Settings page, tap More settings → Mobile networks.

The following options display:

Use mobile data

Allows you to activate mobile data usage on your device.

■ From the main Settings page, tap More settings → Mobile networks → Mobile data.

VPN settings

The VPN settings menu allows you to set up and manage Virtual Private Networks (VPNs).

Note: Before using VPN, you must first set up a screen unlock PIN or password. For more information, refer to "Security" on page 371.

Adding a VPN

Before you add a VPN you must determine which VPN protocol to use: PPTP, L2TP/IPSec PSK, L2TP/IPSec RSA, IPSec Xauth PSK, IPSec Xauth RSA, IPSec Hybrid RSA.

Important! Before you can use a VPN you must establish and configure one.

- From the main Settings page, tap More settings → VPN.
- If prompted, read the screen lock information and follow the on-screen steps to setup an unlock PIN or password.
- 3. Tap Add VPN network.
- In the form that appears, fill in the information provided by your network administrator.
- 5. Tap Save.

Note: Similar setup process can be used for all available VPN types.

Connecting to a VPN

- From the main Settings page, tap More settings → VPN.
- 2. Tap the VPN entry you want to connect to.
- 3. Enter any requested credentials into the pop-up that opens.
- 4. Tap Connect.

Edit a VPN

- 1. From the main Settings page, tap More settings → VPN.
- 2. Touch and hold the VPN that you want to edit.
- 3. In the pop-up that opens, select Edit network.
- 4. Make the desired VPN setting changes.
- Tap Save.

Delete a VPN

- From the main Settings page, tap More settings → VPN.
- 2. Touch and hold the VPN that you want to delete.
- 3. Tap **Delete network** within the pop-up that opens up.

Near Field Communication

This feature is used to read and exchange tags. When used in conjunction with Android Beam, your device can be used to beam application content when NFC-capable devices are touched.

- From the main Settings page, tap More settings.
- Tap the NFC field and drag the activation slider to the on position.

Note: Enabling NFC also enables Android Beam.

NFC can now be used to automatically connect to AllShare Cast.

S Beam

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 main Settings page, tap More settings.
- 2. Verify the NFC feature is active.
- 3. Tap S Beam and make sure the feature is turned on.
- If not already active, in a single motion touch and slide the S
 Beam slider to the right to turn it on.
- Complete the transfer process between the two NFC-enabled devices by placing them back to back.

This feature can come in very handy to quickly share pictures between users with compatible S Beam devices.

Nearby devices

This option allows you to share your media files with nearby devices using DLNA and connected to the same Wi-Fi.

- From the main Settings page, tap More settings → Nearby devices.
- Verify Wi-Fi Direct is enabled and you are paired with the device you wish to detect and share content with.
- 3. In a single motion, place a checkmark in the File sharing field.
- **4.** Verify (Nearby devices) appears at the top of the screen.
- 5. At the Nearby devices prompt, tap OK.
- Tap Shared contents, then check the media you would like to share. Tap OK.
- Tap Device name, then use the on-screen keyboard to change the name shown to others. Tap Save.
- Tap Allowed devices list, then select the connected devices you would like to allow.
- Tap Not-allowed devices list, then select the connected devices you would like to not allow.
- Tap Download to, then select the destination of any downloaded (shared) content. Choose from Device (phone) or SD card.
- 11. Tap Upload from other devices, then select the actions you'll take when you upload content from other devices. Choose from either Always accept, Always ask, or Always reject.

AllShare Cast

With AllShare Cast, you can wirelessly mirror what is currently displayed on your device's screen with an external TV via the AllShare Cast Hub®

- From the main Settings page, tap More settings → AllShare Cast.
- In a single motion touch and slide the AllShare Cast slider to the right to turn it on. The slider color indicates the activation status.

Note: This feature allows a connection between your device and the optional AllShare Cast Hub, via a shared Wi-Fi Direct connection. The AllShare Cast Hub then allows the communicating TV to mirror what is being shown on the device's display.

Kies via Wi-Fi

- From the main Settings page, tap More settings.
- 2. Tap Kies via Wi-Fi → OK.
- Select a network connection and follow the on-screen connection process.

Refer to the Kies Air process information for more information.

Call Settings

To access the Call settings menu:

- 1. From the Home screen, tap (Phone).
- 2. Press and then tap Call settings.

Configuring General Call Settings

Configure the general call settings using this option.

- 1. From the Home screen, tap (Phone).
- 2. Press and then tap Call settings.
- 3. Tap one of the following options:
 - Call restriction: allows you to manage your rejection mode and rejection list.
 - Auto reject mode: sets the phone to automatically reject incoming calls or messages.
 - Auto reject list: provides access to current rejection entries and numbers.
 - Set reject messages: allows you to manage both existing rejection messages and create new ones.
 - Ringtones and keypad tones: allows you to manage your Device ringtone, Device vibration, Incoming call vibration and Keytones settings.
 - Call alert: allows you to assign call alert tones and activate call alerts and vibration.
 - **Call vibrations**: vibrates the phone when the called party answers.
 - Call status tones: assigns sounds settings during the call. Choose from:
 Call connect tone, Minute minder, and Call end tone.

- Alerts on call: selects whether alarm and message notification is turned off during a call.
- Call answering/ending: allows you to manage the settings for answering and ending calls.
 - Answering key allows you to press a key to answer the phone.
 - Answer calls using voice allows you to answer an incoming call using a voice command.
 - The power key ends calls allows you to press the power key to end the current call.
- Auto screen off during calls: allows you to force the screen to turn off during an active call.
- Accessory settings for call: allows you to assign headset settings during incoming calls.
 - Automatic answering configures the device to automatically answer and incoming call when a headset is detected.
 - Automatic answering timer configures the time delay before the device automatically accepts the incoming call.
 - Outgoing call conditions configures the connected Bluetooth device to make outbound calls within one of two settings: Even when device locked or Only when device unlocked.
- My call sound: allows you to personalize the sounds you hear during a call with and without earnhones.
 - Tap My call sound settings and select Personalize call sound.
 - Follow the detailed on-screen instructions.

- Use extra vol. for calls: activating this feature places an extra volume button on your currently active call screen.
- Increase volume in pocket: increases the ringtone volume when the
 device is in a pocket or a bag. Uses the proximity sensor to detect its
 location
- Additional settings: allows you to configure additional call settings.
 For more information, refer to "Configuring Additional Voice Call Settings" on page 343.
- Voicemail service: allows you to assign the service.
- Voicemail settings: displays the settings for the voicemail.
- Ringtone: assigns your device's ringtone.
- Vibrate: configures the vibrate settings. Choose from Always, Only in silent mode, or Never.
- US dialing: replaces the "+" with a designated international dialing prefix. For more information, refer to "US and International Dialing" on page 344.
 - Once **US dialing** is disabled, the International dialing field becomes editable. Tap this filed and enter a new dialing prefix, then tap **OK**.
- **TTY mode**: allows you to configure the TTY settings. For more information, refer to "*TTY Mode*" on page 345.
- DTMF tones: allows you to set the lengths of DTMF tones. For more information, refer to "DTMF Tones" on page 345.
- Voice privacy: allows you to enable/disable an enhanced privacy mode.
 The Voice Privacy option automatically reduces the sound of the incoming caller's voice for enhanced privacy. For more information, refer to "Voice Privacy" on page 346.

Call restriction

- 1. From the main **Call settings** page, tap **Call restriction**.
- Activate the feature by moving the Auto reject mode slider to the on position.
- 3. Tap Auto reject mode and tap one of the following options:
 - All numbers: to reject all calls.
 - Auto reject numbers: to reject all calls in your Reject list.
- 4. Tap Auto reject list.
- 5. Tap + to manually add numbers to the Reject list.
- Tap Unavailable to create a checkmark and automatically reject all calls that are not in your Contacts list.

Set reject messages

- 1. From the main Call settings page, tap Set reject messages.
- 2. Tap 🕂 to manually add a reject message.
 - or -

Tap one of the pre-written messages to be displayed when you want the call to be rejected. You can edit the message if desired.

• Tap Save to save the reject message.

Ringtones and keypad tones

- From the main Call settings page, tap Call settings → Ringtones and keypad tones.
- 2. Tap Device ringtone, select a ringtone, and tap OK.
- 3. Tap Device vibration, select a vibration type, and tap OK.
- Tap Incoming call vibration to create a checkmark if you want your phone to vibrate when a call is incoming.
- Tap Keytones to create a checkmark if you want tones to play when the keypad is pressed.

Call alert

- 1. From the main Call settings page, tap Call alert.
- Tap Call vibrations to enable your phone to vibrate when the called party answers the phone.
- Tap Call status tones to set the sound settings during a call then tap OK.
- Tap Alerts on call to turn off alarm and message notifications during a call.

Call answering/ending

- From the main Call settings page, tap Call settings → Call answering/ending.
- 2. Select any of the following options:
 - Answering key: Tap this option to be able to accept incoming calls by pressing the Home key.
 - Answer calls using voice: Allows you to answer an incoming call using a voice command.

 The power key ends calls: This option will allow you to end a call by pressing the power key without turning off the screen.

Auto screen off during calls

This option turns on the proximity sensor during calls so that your phone will know to turn the screen off to save power.

 From the main Call settings page, tap Auto screen off during calls to create a checkmark and enable the feature.

Accessory settings for call

- From the main Call settings page, tap Accessory settings for call.
- 2. The following options are available:
 - Automatic answering: configures the device to automatically answer and incoming call when a headset is detected.
 - Automatic answering timer: configures the time delay before the device automatically accepts the incoming call.
 - Outgoing call conditions: allows you to make calls even when the device is locked.

My call sound

This option allows you to personalize the sounds you hear during a call with and without earphones.

- From the main Call settings page, tap Call settings → My call sound.
- Tap My call sound settings.
- Tap Personalize call sound and follow the detailed on-screen instructions.

Use extra vol. for calls

This option allows you to see an extra volume button on the screen during calls.

 From the main Call settings page, tap Use extra vol. for calls to create a checkmark and enable the feature.

Increase volume in pocket

This option increases the ringtone volume when the device is in a pocket or a bag. It uses the proximity sensor to detect its location.

From the main Call settings page, tap Increase volume in pocket to create a checkmark and enable the feature.

Configuring Additional Voice Call Settings

- 1. From the main Call settings page, tap Additional settings.
- **2.** Tap one of the following options:
 - Noise reduction: suppresses background noise on your side of the conversation during an active call.

Voicemail

You can view your voicemail number from this menu.

- 1. From the main Call settings page, tap Voicemail service.
- 2. Tap My carrier.
- If an additional voicemail service is in use (other than carrier/ service provider), tap Voicemail settings to now view your selected voicemail number and information.

Device Ringtone

This option allows you to assign a default ringtone when an incoming voicemail message is received.

- From the main Call settings page, tap Ringtone.
- 2. Select a ringtone and tap OK.

Vibrate

This option allows you to activate a vibration when an incoming voicemail message is received.

- 1. From the main Call settings page, tap Vibrate.
- Select an available option. Choose from: Always, Only in Silent mode. or Never.

US and International Dialing

Similar to prefix dialing, these two menus allow you to use either a default "011" entry when using the "+" dialing shortcut, or replace it with a new user-defined set of digits.

To dial a U.S. long distance code:

- 1. From the Home screen, tap (Phone).
- Touch and hold 0 + to display "+" on-screen. This shortcut uses the International dialing prefix entered into the International dialing menu. The default is "011".

To change the International dialing prefix:

- 1. From the main Call settings page, tap Call settings
- Remove the check from the US dialing field and then tap the International dialing field.

Use the on-screen keypad to delete the current entry and replace it with a new one. Tap **0K** once complete.

TTY Mode

A TTY (also known as a TDD or Text Telephone) is a telecommunications device that allows people who are deaf, hard of hearing, or who have speech or language disabilities, to communicate by telephone.

Your device is compatible with select TTY devices. Please check with the manufacturer of your TTY device to ensure that it is compatible with digital cell phones.

Your phone and TTY device will connect via a special cable that plugs into your phone's headset jack. If this cable was not provided with your TTY device, contact your TTY device manufacturer to purchase the connector cable.

- 1. From the main Call settings page, tap TTY mode.
- Tap TTY Off, TTY Full, TTY HCO, or TTY VCO to activate the feature, or TTY Off to deactivate the feature. Off is the default setting.

DTMF Tones

DTMF tones are the sounds you hear when pressing each number a touch-tone phone. The DTMF tones feature allows you to set the length of time that you hear each tone when tapping a number on the phone's dialpad.

- 1. From the Home screen, tap (Phone).
- 2. Press and then tap Call settings → DTMF tones.
- 3. Choose from either Normal or Long.

Voice Privacy

The Voice Privacy option automatically reduces the sound of the incoming caller's voice for enhanced privacy.

- 1. From the Home screen, tap (Phone).
- 2. Press and then tap Call settings.
- Tap the Voice privacy field to activate the feature (a green checkmark appears in the adjacent field).

Home Screen Mode

This application allows you to set your display to the conventional layout of **Standard mode** or provide an easier user experience for the first-time smartphone users using **Starter mode**.

- 1. From the main **Settings** page, tap (Home screen mode).
- Tap the pull-down dropbox and select one of the following options:
 - Standard mode: provides conventional layout for the apps and widgets on your home screens.
 - Starter mode: provides easier user experience for first-time smartphone users on the home screens.
- Tap Apply and give your device a few seconds to update the device with the new look and feel.

Sound Settings

From this menu you can control the sounds on the phone as well as configure the display settings.

From the main **Settings** page, tap **Sound**.

The following options display:

Silent mode via Device Options Screen

Silent mode is convenient when you wish to stop the phone from making noise, in a theater for example. In Silent Mode the speaker is muted and the phone only vibrates to notify you of incoming calls, or other functions that normally have a defined tone or sound as an alert.

- From the Home screen, press and hold (Power/End) until Device options displays.
- Tap Mute from the Device Options screen to activate or deactivate this mode (the current mode displays).

Note: Additional options include Vibrate and Sound.

Adjusting the Volume Settings

The Volume menu now provides access to various volume settings within one on-screen popup menu.

- From the main Settings page, tap Sound → Volume.
- Touch and drag the on-screen slider to assign the volume settings for any of the following volume levels.
 - Music, video, games, and other media, Ringtone, Notifications or System.
- 3. Tap **0K** to assign the volume levels.

Vibration intensity

Vibration intensity allows you to select how intense the vibration is for different options.

- 1. From the main **Settings** page, tap **Sound** → **Vibration intensity**.
- Touch and drag the slider to adjust the Vibration intensity for Incoming call, Notification, and Haptic feedback.
- 3. Tap **0K** to assign the vibration levels.

Setup the Voice Call Ringtone

This option allows you to set the ringtone.

- 1. From the main Settings page, tap Sound.
- 2. Tap Device ringtone.
- Tap a ringtone from the available list. The ringtone briefly plays when selected.
- Tap Add to locate a compatible media file that can be used as a ringtone.
- 5. Tap **0K** to assign a ringer.

Setup the Device Vibration

This option allows you to set your device to vibrate and ring.

- 1. From the main **Settings** page, tap **Sound**.
- Tap Device vibration.
- 3. Select a vibration pattern and tap **OK**.
 - or -

Tap **Create** to then use an on-screen touch circle to create your own custom vibration pattern. Tap **Save** to store the new vibration pattern.

Setting a Default Notification Ringtone

This option allows you to set the ringtone that will sound for notifications and alarms.

- From the main Settings page, tap Sound → Default notifications
- 2. Tap one of the ringtones and tap OK.

Setting up Sound and Vibration

This option allows you to adjust the sound and vibration functions.

- 1. From the main **Settings** page, tap **Sound**.
- 2. Tap the Vibrate when ringing field to activate the feature.

Audible System Tone Settings

These options are used when you use the dialing pad, make a screen selection, lock your screen, or tap the screen. Each time you press a key or make a selection the selected tone sounds.

- From the main Settings page, tap Sound.
- Tap Keytones to activate a tone when you use on-screen keys. A check mark displayed next to these features indicates active status.
- Tap Touch sounds to activate a tone when you touch the screen. A check mark displayed next to this feature indicates active status.
- Tap Screen lock sound to activate a tone when you use the Lock screen. A check mark displayed next to this feature indicates active status.
- Tap Haptic feedback to activate the a vibration when you press soft keys on certain screens. A check mark displayed next to the feature indicates this feature is active.
- Tap Auto haptic to enable the ability of the device to vibrate automatically in response to sounds of downloadable apps.
- Tap Emergency tone to set the notification for emergency events to either: Off, Alert, or Vibrate.

Display Settings

In this menu, you can change various settings for the display such as the font, orientation, pop-up notifications, puzzle lock feature, animation, brightness, screen timeout, and power saving mode.

Adjusting the Screen Display

- 1. From the main Settings page, tap Display.
- 2. Configure the following screen display settings:
 - Wallpaper: allows you to set the Wallpaper for your Home screen, Lock screen, or both.
 - LED indicator: allows you to turn on your LED lights for charging, low battery, incoming notifications, and voice recording. The light will turn on by default unless you turn them off.
 - Multi window: tap this option to enable/disable the automatic Multi window feature.

Note: For more information on the Multi window feature, refer to "Using the Multi Window" on page 61.

- Page buddy: allows context related pages to be created on the Home screen. You can select Earphones page, Docking page, and Roaming page. Tap Page buddy help for more information.
- Brightness: adjusts the on-screen brightness level. For more information, refer to "Adjusting Screen Brightness" on page 353.
- Auto-rotate screen: when enabled, the phone automatically switches from portrait to landscape orientation and vice versa. When this setting is disabled, the phone displays in portrait mode only.

- Screen timeout: adjusts the delay time before the screen automatically turns off. Selections are: 15 seconds, 30 seconds, 1 minute, 2 minutes, 5 minutes, and 10 minutes.
- Smart rotation: disables the auto screen rotation by checking the orientation of your face and the device.
- Smart stay: tap this option to disable the screen timeout if your device detects that your face is watching the screen.
- Font style: sets the fonts used on the LCD display. Selections are:
 Default font, Choco cooky, Helvetica S, Rosemary, or Get fonts online. Tap Get fonts online to download additional fonts.
- Font size: allows you to select which size of font is displayed.
- Touch key light duration: to adjust the light duration of the touch keys.
- Display battery percentage: to activate/deactivate the display of battery charge percentage atop the battery icon at the top of the screen.
- Auto adjust screen tone: adjusts the phone's LCD brightness level to automatically adjust and conserve battery power.

Adjusting Screen Brightness

This feature configures the LCD Brightness levels.

- 1. From the main Settings page, tap Display → Brightness.
- Tap Automatic brightness to allow the phone to self-adjust and tap OK.
 - or -

Touch and slide the on-screen slider to adjust the level and tap \mathbf{OK} .

Assigning a Wallpaper

The Wallpaper settings option allows you to set the Wallpaper for your Home screen, Lock screen, or both.

- 1. From the main Settings page, tap Display → Wallpaper.
- 2. Select an available option to change its current wallpaper.

For more information, refer to "Managing Wallpapers" on page 77.

LED Indicator

This option allows you to turn on your LED lights for charging, missed events, and incoming notifications. The light will turn on by default unless you turn them off.

- From the main Settings page, tap Display → LED indicator.
- 2. Tap the following LED indicator options to turn them on or off:
 - **Charging**: LED lights up when the device is connected to the charger.
 - Low battery: LED lights up when the battery level is low.
 - Notifications: LED lights up when you have missed calls, messages, or application events.

 Voice recording: LED lights up when you are recording voice. The LED only lights up when the screen is off.

SD Card & Device Storage

From this menu you can view the memory allocation for the memory card as well as mount or unmount the SD card.

- microSD memory cards include capacities of up to 4GB.
- microSDHC[™] memory card types can range from 4GB to up to 32GB.
- microSDXC™ memory card types can include capacities greater than 32GB.

To view the memory allocation for your external SD card:

From the main Settings page, tap Storage.
The available memory displays under the Total space and SD card headings.

Important! DO NOT remove a microSD card while the device is accessing or transferring files. Doing so will result in loss or damage of data. Make sure your battery is fully charged before using the microSD card. Your data may become damaged or lost if the battery runs out while you are using the microSD card.

Mounting the SD Card

To store photos, music, videos, and other applications. You must mount (install) the SD card prior to use. Mounting the SD card establishes a USB connection with your computer.

Important! You must enable USB storage to mount the SD card.

- 2. Tap Mount SD card.

Unmounting the SD card

Unmounting the SD card prevents corruption and damage to the SD card while removing it from the slot.

- From the Home screen, press and then tap Settings → Storage.
- Tap Unmount SD card → OK.
- After the "SD card will be unmounted" message displays and the Mount SD card now appears in the menu list, remove the SD card. For more information, refer to "Removing the microSD Memory Card" on page 13.

Erasing Files from the SD card

To erase files from the SD card using the device:

- 1. Ensure the SD card is mounted. For more information, refer to "Unmounting the SD card" on page 355.
- From the Home screen, press and then tap Settings → Storage → Mount SD card.
- Tap Format SD card → Format SD card → Delete all to format the SD card. The SD card formats and erases all the data stored on it.

Power Saving Mode

This feature allows you both automatically set the phone to use a power saving mode and configure additional power saving options manually, all in an effort to conserve battery power.

- From the main Settings page, tap Power saving mode.
- In a single motion touch and slide the slider to the right to turn it on.
- 3. Tap the following options to create a check mark and conserve power:
 - CPU power saving: allows you to limit the maximum performance of the CPU.
 - Screen power saving: allows you to lower the screen power level.
 - Background color: allows you to change the background color on email and internet to save power.
 - Turn off haptic feedback: allows you to turn off vibration when you tap or touch the screen.

- Tap Learn about power saving to learn about various ways to conserve battery power.
- 5. When the power gets low, confirm appears at the top of the screen. This indicates the power saving mode is active.

Battery Usage

This option allows you to view a list of those components using battery power. The amount of time the battery was used also displays. Battery usage displays in percentages per application.

- From the main Settings page, tap Battery. The battery level displays in percentage.
- From the upper-right tap (Refresh) to update the list.
 or –

Tap an entry to view more detailed information.

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

Application Manager

This device can be used for Android development. You can write applications in the SDK and install them on this device, then run the applications using the hardware, system, and network. This feature allows you to configure the device for development.

Warning! Because the 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.

This menu allows you to manage installed applications. You can view and control currently running services, or use the device for application development.

You can also view the amount of memory or resources used as well as the remaining memory and resources for each of the applications on your phone and clear the data, cache, or defaults.

■ From the main Settings page, tap Application manager → ALL.

Clearing Application Cache and Data

Important! You must have downloaded applications installed to use this feature.

- 1. From the main **Settings** page, tap **Application manager**.
- 2. Tap an application in which to clear the cache or data.
- Tap Force stop, Uninstall, Disable, Clear data, Clear cache, or Clear defaults.

Uninstalling Third-party Applications

Important! You must have downloaded applications installed to use this feature.

- 1. From the main Settings page, tap Application manager.
- 2. Tap the **DOWNLOADED** tab and select your desired application.
- Tap Uninstall (from within the top area of the Application info page).
- 4. At the prompt, tap **0K** to uninstall the application.
- 5. Select a reason for uninstalling the application, then tap **0K**.

Running Services

The Running services option allows you to view and control currently running services such as Backup, Hangouts, SNS (messaging), Swype, and more.

- 1. From the main Settings page, tap Application manager.
- Tap the RUNNING tab to view all currently active and running applications. This tab also shows the total RAM being used by these currently active applications.
- Tap a process and select Stop to end the process and stop it from running. When you stop the process the service or application will no longer run until you start the process or application again.
- Tap Show cached processes to view additional cached applications.

Important! Stopping a process might have undesirable consequences on the application.

Storage Used

This option allows you to view a list (on the current tab) of current applications as sorted by size.

- From the main Settings page, tap Application manager.
- 2. Tap the ALL tab to display all available applications.
- Press and then tap Sort by size to change the current list to show items based on the amount of storage they occupy.

Location Services

The Location services allows you to configure the device's location services.

Important! The more location determining functions are enabled, the more accurate the determination will be of your position.

Using Wireless Networks

Before you use applications such as Google Maps and find your location or search for places of interest, you must enable the Use wireless networks option.

- 1. From the main **Settings** page, tap **Location services**.
- Tap Use wireless networks allows apps to use data from sources such as Wi-Fi and mobile networks to provide a better approximation of your current location.

Enabling the GPS Satellites

- 1. From the main Settings page, tap Location services.
- 2. Tap Use GPS satellites to enable the GPS satellite.

Enabling the Location and Google Search

- 1. From the main **Settings** page, tap **Location services**.
- 2. Tap Location and Google search to enable the GPS satellite.

Tip: When using Google Maps you can turn on **Location and Google** search. Enabling this feature allows you to locate places of interest at the street-level. However, this also requires a clear view of the sky and uses more battery power.

Lock Screen

This menu contains features that allows you to configure the device's security parameters.

Screen Unlock Pattern Overview

To secure data and limit phone access, set the phone to require a screen unlock pattern each time you turn on the device, or every time the phone wakes up from sleep mode (when the screen automatically turns off).

The Screen lock menu allows to choose from a variety of locking features such as: Swipe, Motion, Face unlock, Face and voice, Pattern, PIN. Password. or None.

Using Swipe

This feature is the least secure locking method and only requires that a user swipe the screen to unlock the device.

- 1. From the main Settings page, tap Lock screen.
- 2. Tap Screen lock → Swipe.

Using a Motion to Unlock

This feature allows you to lock or unlock your device by simply tilting it and moving it either forwards or backwards.

- 1. From the main Settings page, tap Lock screen.
- 2. Tap Screen lock → Motion → OK.

To unlock a device with motion:

- 1. Verify the device is on and on the Lock screen.
- In a single motion, use your thumb to touch and hold the Lock screen, then quickly tilt the device towards you.

Note: If you forget, these instructions appear at the bottom of the Lock screen.

Using Face Unlock

This feature used facial recognition to unlock your phone. This feature is less secure than PIN, Pattern, and Password locks and can be bypassed by someone else who looks similar to you.

- 1. From the main Settings page, tap Lock screen.
- Tap Screen lock → Face unlock.
- 3. Read the on-screen notification and tap Set it up.
- Follow the on-screen instructions.

Using Face and Voice Unlock

This feature used facial recognition to unlock your phone. This feature is less secure than PIN, Pattern, and Password locks and can be bypassed by someone else who looks similar to you.

- 1. From the main **Settings** page, tap **Lock screen**.
- 2. Tap Screen lock → Face and voice.
- 3. Read the on-screen notification and tap Set it up.
- 4. Follow the on-screen instructions.
- Once prompted to speak and unlock command, tap (and repeat the phrase four times.



6. Once complete, tap Done.

Setting an Unlock Pattern

Creating a screen unlock pattern increases security on the phone. When you enable the User visible pattern field, you will draw an unlock pattern on the screen whenever you want to unlock the phone's buttons or touch screen. When you activate the User tactile feedback field, you feel vibration as feedback while drawing the pattern.

The feature is now paired with a backup PIN code that acts as a backup to the pattern lock. If you forget your pattern, you can regain access to the device by entering a PIN code.

Note: Make sure the Require Pattern field is activated.

- 1. From the main **Settings** page, tap **Lock screen**.
- Tap Screen lock → Pattern.
- 3. Read the instructions then tap Next.
- Review the on-screen animation procedure for drawing a pattern and tap Next when you are ready to draw a pattern.
- 5. Draw your pattern by touching your first on-screen point. Then, without removing your finger from the screen, drag your finger over adjacent points until the gray trace line overlaps each point and they are highlighted with a green circle.
- When you have connected at least four dots in a vertical, horizontal or diagonal direction, lift your finger from the screen and tap Continue.
- Confirm the new pattern by redrawing it and then tapping Confirm. The Unlock pattern is set.

- 8. Enter the backup PIN code and tap Continue.
- **9.** Reenter the PIN to reconfirm the previous entry and tap **0K**.

Changing the Screen Lock Pattern

This feature allows you to change the previously stored unlock pattern and update it if necessary. This process is similar to changing your password from time to time.

- 1. From the main Settings page, tap Lock screen.
- 2. Tap Screen lock.
- **3.** Retrace your current pattern on the screen.
- **4.** Tap **Pattern** and repeat steps 3 7 from the previous section.

Deleting the Screen Lock Pattern

- 1. From the main Settings page, tap Lock screen.
- Tap Screen lock.
- 3. Retrace your current pattern on the screen.
- 4. Tap None.

What If I Forget my Pattern?

If you forget your device's lock pattern, you can unlock your device or reset it using your Google™ Account credentials. When you enter the wrong unlock pattern too many times, you should see an option at the bottom of the screen that says **Forgot pattern?** Follow these steps to use either your PIN or email address.

Important! You can only enter an incorrect lock pattern 5 times before the device is locked.

Important! If you are unsuccessful in retrieving your lock pattern or unlocking your device, please contact T-Mobile for assistance.

To unlock your device with a PIN code:

- 1. Tap Forgot pattern? (located at the bottom of the screen).
- Scroll down and tap the Type PIN code field and use the onscreen keypad to enter the backup PIN code you setup when you created your lock pattern.
- Tap 0K.
- 4. If you have forgotten your current pattern, tap Pattern from the Screen unlock settings menu and follow the procedures outlined in "Setting an Unlock Pattern" on page 364 to create a new pattern.

To unlock your device using your Google account:

- 1. Tap Forgot pattern? (located at the bottom of the screen).
- Tap the Username (email) and Password fields, use the on-screen keyboard to enter your Google Account credentials, and tap Sign in to complete the login process.
- If you have forgotten your Google Account credentials, visit the Google website to recover them. If you still cannot get your Google Account credentials, contact your service provider for additional options.

PIN Lock and Unlock

- 1. From the main Settings page, tap Lock screen.
- Tap Screen lock → PIN.
- Enter a PIN number using the numeric keypad and touch Continue to confirm the password.
- Confirm the PIN by re-entering it and tap **0K** to confirm. Your phone now requires you to enter this PIN number in order to unlock the phone.

Password Lock and Unlock

- 1. From the main Settings page, tap Lock screen.
- Tap Screen lock.
- Tap Password.
- Enter a password using the keypad and tap Continue to confirm the password.
- 5. Confirm the password by re-entering it and tap **OK** to confirm.

Samsung Unlock Options

Activate or deactivates various Unlock screen functions.

- From the main Settings page, tap Lock screen → Lock screen options.
- 2. Tap Lock screen options and choose from:
 - **Shortcuts** sets shortcuts to appear at the bottom of the Lock screen.
 - Information ticker sets the news and stock information ticker to appear across the bottom of the Lock screen
 - Clock allows you to display the digital clock while the Lock screen is active. Enabled by default.
 - Dual clock displays a set of dual digital clock on the Lock screen while you are traveling. Tap the entry to set your home city. This time zone then becomes the time used by one of these on-screen clocks.
 - Weather displays the current area weather on the Lock screen.
 Tap and set both the temperature units (F or C) and a refresh time.
 - Ripple effect activates/deactivates the ripple effect on the lock screen when you tap it.
 - **Help text** shows help information on the Lock screen.
 - Camera quick access provides you with quick access to the camera function from the Lock screen. When active, in a single motion.
 - Wake up in lock screen requires that you say a command to wake-up S Voice.
 - Set wake-up command designates your S Voice wake-up commands.
 Tap Wake-up S Voice and follow the on-screen prompts to create a new verbal command.

Note: These options vary depending on the selected Lock settings.

Customizing Your Lock Screen Shortcuts

Your device also provides up to 4 application shortcuts that can be used to quickly access an application right from the lock screen.

Important! To use these shortcuts, your Screen Lock feature can only be set to either Swipe or None.

To open a shortcut from the lock screen:

In a single motion, swipe your finger over the on-screen icon and towards the top of your device. Your device will unlock and you will be taken immediately to the application.

To edit these Lock screen shortcuts:

- From the main Settings page, tap Lock screen → Lock screen options.
- In a single motion touch and slide the Shortcuts slider to the right to turn it on.
- 3. Tap the Shortcuts field to activate the menu.
- 4. Tap a shortcut icon you wish to replace.
- From the select application menu, tap a replacement application.
- **6.** Press to return to the previous screen.

Using a Visible Pattern

When the **Make pattern visible** option is enabled, the device displays the on-screen lock grid that is used for unlocking.

Note: This option only appears when a screen lock option is active.

Locking Automatically

This option allows you to define the amount of time that must pass before the device can automatically lock on its own.

Note: This option only appears when a screen lock option is active.

Lock Instantly with Power Key

When enabled, the screen is automatically locked after pressing the Power/Lock key.

Note: This option only appears when a screen lock option is active.

Vibrate on Screen Tap

When enabled, you will feel vibration as feedback while drawing the pattern, using a PIN or password lock.

Note: This option only appears when a screen lock option is active.

Owner Information

This option allows you to show user-defined information on the Lock screen.

- From the main Settings page, tap Lock screen → Owner information.
- Tap the Show owner info on lock screen checkbox to create a checkmark if you want your owner information displayed.
- 3. Enter text that you would like displayed on your Lock screen.
- **4.** Tap OK to save the new text and return to the previous screen.

Security

The Security settings allow you to determine the security level for your device.

Encrypt Device

When enabled, this feature requires a numeric PIN or password to decrypt your phone each time you power it on or encrypt the data on your SD card each time it is connected:

- 1. From the main Settings page, tap Security.
- Tap Encrypt device. For more information, read the displayed help screen.
- Tap Encrypt external SD card to enable the encryption on SD card data that requires a password be entered each time the microSD card is connected.

Tip: Make sure your battery is charged more than 80 percent. Encryption may take an hour or more.

Password Settings

When you create a phone password you can also configure the phone to display the password as you type it instead of using an asterisk (*).

- From the main Settings page, tap Security.
- 2. Tap Make passwords visible to activate this feature.

Device Administration

Activating this feature allows Google to administrate your phone in a way similar to IT security settings on a corporate PC. This would be beneficial in the case that your phone was lost or stolen. The phone could be "deactivated" or "restricted" (through administration) from a remote location.

- From the main Settings page, tap Security.
- 2. Tap Device administrators to begin configuring this setting.
- 3. Select an administrator device and follow the prompts.

Unknown Sources

Before you can download a web application you must enable the Unknown sources feature (enables downloading). Developers can use this option to install non-Play Store applications.

- 1. From the main Settings page, tap Security.
- 2. Tap Unknown sources to active this feature.

Note: If you are notified that you can not download a Play Store application because it comes from an "Unknown source", enabling this option corrects this issue.

Credential Storage

This option allows certain applications to access secure certificates and other credentials. Certificates and credentials can be installed to the SD card and password protected.

- 1. From the main **Settings** page, tap **Security**.
- Tap Trusted credentials to display only trusted CA certificates. A check mark displayed next to the feature indicates secure credentials
- Tap Install from device storage to install encrypted certificates from the USB Storage location.
- Tap Clear credentials to clear the device (SD card or phone memory) of all certificate contents and reset the credentials password.

Language and Input Settings

This setting allows you to configure the language in which to display the menus. You can also set on-screen keyboard options.

From the main Settings page, tap Language and input.

Language Settings

To set the language that the menus display on the phone:

- From the main Settings page, tap Language and input → Language.
- 2. Select a language and region from the list.

Choose Input Method

- From the main **Settings** page, tap **Language and input \rightarrow** Default.
- 2. Select an input method.
 - or -

From a screen where you can enter text, in a single motion, touch and drag the Status bar down to the bottom of the screen to open the Notifications screen. Tap (Choose input method) and select an available input method.

Swype Settings

To configure Swype settings:

1. From the main **Settings** page, tap **Language and input** → (adjacent to the Swype field).



- 2. Tap Settings to alter these parameters:
 - Vibrate on keypress: activates a vibration sensation as you enter text using the keypad.
 - **Sound on keypress**: turns on sounds generated by the Swype application.
 - Pop-up on keypress: turns on the display of characters above keys when typing.
 - Show complete trace: once enabled, sets wether or not to display the complete Swype path.
 - Auto-correction: automatically corrects typing mistakes.
 - Auto-capitalization: automatically capitalizes the first letter of a sentence.

- Auto-spacing: automatically inserts a space between words. When you finish a word, just lift your finger or stylus and start the next word.
- Next word prediction: once enabled, predicts the next word in your text string based on your current text entries.
- Show Voice key: once enabled, shows an Voice to text key within the on-screen keyboard.
- Tap My Words to configure various Dictionary and Data Management features.
 - Backup & Sync: when active, allows you to backup your Swype dictionary and sync your Swype dictionary across multiple devices.
 - Living Language: allows you to automatically update Swype with popular new words. Tap **Accept** to continue the process.
 - Social integration: allows you to log into the available social media accounts to add help personalize your personal dictionary with commonly used words or names from your available accounts. Choose from the following social media types:
 - Facebook: allows you to log into your current Facebook account from where contact names are added to your Swype's personal dictionary for later use when you enter names into text fields. Helps recognize familiar names.
 - Twitter: allows you to sign into your existing Twitter account from where names and words are added to your personal dictionary. Helps recognize familiar names and words.
 - Gmail: allows you to sign in to your existing Gmail account from where existing contact information is added to your personal dictionary. Helps recognize familiar names.

- Edit my dictionary: allows you to edit your current personal Swype dictionary.
- Clear language data: allows you to delete all personal language data, including your defined words.
- Contribute usage data: when enabled, allows the Nuance[®] application to collect usage data for better word predictions.
- Cellular data: when enabled, activates cellular data usage by the Swype application so it can receive program updates, language downloads, and other related features via your existing data connection.
- Tap Languages to activate and select the current text input language. Default language is US English.
 - Download languages: allows you to download additional languages.
 - The **Active** field displays the current language.
- Tap Gestures to view an on-screen reference page related to Gesture usage.
- Tap Help to review help information for the Swype functionality and view information about the version.
- Tap Updates to update the application if new software is available.

Samsung Kevboard Settings

 From the main Settings page, tap Language and input → (adjacent to the Samsung keyboard field).



- or -

From within an active text entry screen, touch and hold (Input Methods), drag across the icons, and select (Settings) to reveal the Samsung keyboard settings screen.



- 2. Set any of the following options:
 - Portrait keyboard types allows you to choose a keyboard configuration (Qwerty keyboard [default] or 3x4 keyboard).
 - Input languages sets the input language. Tap a language from the available list. The keyboard is updated to the selected language.
 - Predictive text enables predictive text entry mode. This must be enabled to gain access to the advanced settings. Touch and hold to access the advanced settings.
 - **T9 Trace** like using Swipe, allows you to enter text by sliding your fingers across the on-screen keyboard. This feature is optimized for use with the on-screen QWERTY keyboard.
 - **Handwriting** allows you to configure the handwriting settings such as: Recognition type, Recognition time, Pen thickness, Pen color, Gesture guide, Tutorial, and About.
 - · Advanced provides access to additional settings such as:
 - Auto capitalization automatically capitalizes the first letter of the first word in each sentence (standard English style).

- Auto-punctuate automatically inserts a full stop in a sentence by tapping the space bar twice when using the on-screen QWERTY keyboard.
- Character preview provides an automatic preview of the current character selection within the text string. This is helpful when multiple characters are available within one key.
- Key-tap vibration enables vibration feedback when you tap an on-screen key.
- **Key-tap sound** enables auditory feedback when you tap an on-screen kev.
- Tutorial launches a brief on-screen tutorial covering the main concepts related to the Samsung keyboard.
- Reset settings resets the keyboard settings back to their original configuration.

Predictive Text - Advanced Settings

The predictive text system provides next-letter prediction and regional error correction, which compensates for users pressing the wrong keys on QWERTY keyboards.

 From the main Settings page, tap Language and input → (adjacent to the Samsung keyboard field).



From within an active text entry screen, touch and hold (Input Methods), drag across the icons, and select (Settings) to reveal the Samsung keyboard settings screen.



- In a single motion touch and slide the Predictive text slider to the right to turn it on.
- 3. Tap the Predictive text field and configure any of the following advanced options:
 - Personalized data activate this feature to use the personal language data that you have entered and selected to make your text entry prediction results better. By enabling this feature you can choose from the following personalization features:
 - Learn from Gmail: allows you to sign in to your existing Gmail account from where your style and existing contact information is added to your personal dictionary. Helps recognize familiar names.
 - Learn from Facebook allows you to log into your current Facebook account and add used text to your personal dictionary.
 - Learn from Twitter allows you to sign into your existing Twitter account and add used text to your personal dictionary.
 - Learn from Messaging allows your device to learn your messaging style by using your Messaging information.
 - Learn from Contacts updates predictive style by learning your Contacts style.
 - Clear personalized data removes all personalized data entered by the user.
- 4. Press 🗲 to return to the previous screen.

Configure Google Voice Typing

- 1. From the main Settings page, tap Language and input.
 - or -

From a screen where you can enter text, in a single motion, touch and drag the Status bar down to the bottom of the screen, then select (Choose input method) → Set up input methods.

- 2. Tap (adjacent to the Google voice typing field).
- 3. Select a language by tapping Choose input languages area.
- Remove the check mark from the Automatic field. This allows you to select additional languages.
- 5. Select the desired languages.
- Activate Block offensive words to block recognition of known offensive words or language. (A green check mark indicates the feature is active).
- 7. Tap Download offline speech recognition to enable speech recognition via locally stored files so that even if you are not connected to a network you can still use the service.

Configuring Voice Input Recognition

This feature allows the device to correctly recognize verbal input.

- 1. From the main Settings page, tap Language and input.
- 2. Tap Voice search to configure the following:
 - Language: Choose a language for your voice input.
 - Speech output: Sets whether you will use speech output always or only when using hands-free.
 - Block offensive words: Enable or disable blocking of recognized offensive words from the results of your voice-input Google searches.
 - Hotword detection: enable to being able to launch voice search by saving the word "Google".
 - Download offline speech recognition: enables voice input while offline.
 - Personalized recognition: enables the improvement of speech recognition accuracy.
 - Google Account dashboard: allows you to manage your collected data.
 - Bluetooth headset: records audio through a connected Bluetooth headset.
- 3. Press to return to the previous screen.

Configuring Text-to-speech

This feature allows the device to provide a verbal readout of on-screen data such as messages and incoming caller information. This action is called TTS (Text To Speech).

- From the main Settings page, tap Language and input → Text-to-speech output.
- Select a current Preferred TTS engine from the list of available options. Select Google Text-to-speech Engine or Samsung TTS. The default is Google Text-to-speech.
- 3. Tap to configure the engine's settings.
 - Language: allows you to set the language for spoken text.
 - Settings for Google Text-to-speech Engine: allows you to view Open Source Licenses. Options include: Language, Settings for Google Textto-speech Engine, and Install voice data.
 - Settings for Samsung TTS: allows you to configure the General settings for the Samsung TTS. Options include: Language and Settings for Samsung TTS.
 - Install voice data: allows you to install voice data for speech synthesis.
- 4. Configure the General options to alter the settings associated with this feature:
 - Speech rate: adjusts the rate at which on-screen text is spoken by the device. Choose from: Very slow, Slow, Normal, Fast, and Very fast.
 - Listen to an example: plays a short example of what the text-to-speech feature sounds like on your device when activated.
 - Driving mode: incoming calls and new notifications are automatically read out loud. In a single motion touch and slide to the right to turn it on.

- Once active, tap the Driving mode field to reveal the associated settings.
- Select those applications that will use TTS while driving mode is activated.
 Choose from: Incoming call, Message, New emails, New voicemail,
 Alarm. Schedule. or Unlock screen.

Configuring the Mouse-TrackPad

This feature allows you to configure the pointer speed for a connected mouse or trackpad.

- From the main Settings page, tap Language and input → Pointer speed.
- 2. Adjust the slider and tap OK.

Back up and Reset

Location settings, backup configurations, or reset the phone to erase all personal data.

From the main **Settings** page, tap **Back up and reset**.

Mobile Backup and Restore

The device can be configured to back up your current settings, application data and settings.

- 1. From the main Settings page, tap Back up and reset.
- Tap Back up my data to create a backup of your current phone settings and applications.
- 3. Tap Backup account to assign the account being backed up.
- Tap Automatic restore to assist in the re-installation of a previously installed application (including preferences and data).

Tap Factory data reset to reset your device and sound settings to the factory default settings. For more information, refer to "Factory Data Reset" on page 384.

Prior to doing a Factory Reset

Before initiating a factory reset, it is recommended that you backup your personal data prior to use.

To export a Contact list to your microSD card:

- 1. From the Home screen, tap (Contacts).
- 2. Press and then tap Import/Export.
- 3. Tap Export to SD card → OK.

Verify your images and videos are on your microSD card:

- 1. From the Home screen, tap \bigoplus (Apps) \rightarrow \bigcirc (Gallery).
- 2. Verify the Gallery contains all of your pictures and videos.
- Remove both the back cover and remove the internal microSD card prior to initiating the process.

Factory Data Reset

From this menu you can reset your device and sound settings to the factory default settings.

- From the main Settings page, tap Back up and reset → Factory data reset.
- 2. Read the on-screen reset information.
- 3. Tap Reset device.
- If necessary, enter your password and tap Delete all.
 The device resets to the factory default settings automatically and when finished displays the Home screen.

Add Account

This menu allows you to set up, manage, and synchronize accounts, including your Google and email accounts.

Adding an Account

- 1. From the main **Settings** page, navigate to the **Accounts** area.
- 2. Tap Add account and select one of the account types.
- Use the keyboard and follow the prompts to enter your credentials and set up the account.
- A green circle will appear next to the account type once you have created an account. Your email account will also be displayed in the Accounts section of the main Settings menu.

Removing an Account

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

- 1. From the main **Settings** page, navigate to the **Accounts** area.
- 2. Tap the account name.
- 3. From the Accounts area of the screen, tap the account entry.
- Tap Remove account, then tap Remove account at the prompt to remove the account and delete all its messages, contacts, and other data.

Synchronizing a Accounts

By default, all managed accounts are synchronized. You can also manually sync all current accounts.

- From the main Settings page, navigate to the Accounts area.
- 2. Tap the account name.
- 3. Tap the account name.
- Tap Sync now to synchronize your account or tap Sync all to synchronize all your accounts. Tap Cancel sync to stop the synchronization.
- 5. Tap Settings to access your account settings.

Motion Settings

This feature allows you to assign specific functions to certain phone actions that are detected by both the accelerometer and gyroscope.

To activate motion:

- 1. From the main **Settings** page, tap **Motion**.
- In a single motion touch and slide the Motion slider to the right to turn it on.

Note: If Motion activation is not enabled, all motion services are greyed-out and disabled.

To activate different motion functions:

- Tap the Motion activation field and activate the desired on-screen motion option.
 - Direct call: Once enabled, the device will dial the currently displayed on-screen Contact entry as soon as you place the device to your ear.

- Smart alert: Once enabled, pickup the device to be alerted and notified
 of you have missed any calls or messages.
- Double tap to top: Once enabled, double tap the top of the device to be taken to the top of the current on-screen list.
- Tilt to zoom: Once enabled, you must be on a screen where content
 can be zoomed. In a single motion, touch and hold two points on the
 display then tilt the device back and forth to zoom in or out.
- Pan to move icon: Once enabled, touch and hold a desired application shortcut icon or widget on the screen. Once it detaches, move the device left or right to migrate it to a new location.
- Pan to browse images: Once enabled, touch and hold a desired onscreen image to pan around it. Move the device left or right to pan vertically or up and down to pan horizontally around the large on-screen image.
- Shake to update: Once enabled, shake your device to rescan for Bluetooth devices, rescan for Wi-Fi devices, Refresh a Web page, etc.
- Turn over to mute/pause: Once enabled, mute incoming calls and any
 playing sounds by turning the device over display down on a surface.
 This is the opposite of the pickup to be notified gesture.
- Sensitivity settings and tutorial: Allows you to access the sensitivity settings for the currently active gesture (page 388).
- Learn about motions: Provides on-screen descriptions for the motion functionality.

- Palm swipe to capture: Once enabled, you can capture any
 on-screen information swiping across the screen. In a single motion,
 press the side of your hand on the screen and swipe form left to right.
 The image is then copied to the clipboard.
- Palm touch to mute/pause: Once enabled, you can pause any onscreen video or mute any current sound by simply covering the screen with your hand. Once you remove your hand from the screen, the device goes back to normal by either continuing to play the current video or unmuting the current sound.
- Learn about hand motions: Provides on-screen descriptions for the Palm to swipe and Palm touch to mute/pause functionality.

To adjust gesture sensitivity:

- From the main Settings page, tap Motion → Sensitivity settings.
- 2. Tap an available field to access the sensitivity settings for the currently active gesture. Choose from:
 - Gyroscope calibration: Allows you to properly calibrate your device for use with motion gestures.
 - Tilt to zoom: Allows you to zoom in or out when in the Gallery or Internet.
 - Pan to move icon: Allows you to move an icon to another page.
 - Pan to browse images: Allows you to move around an image when zoomed in.

Note: Sensitivity settings are only accessible if the gesture is currently active.

Accessory

This menu allows you to assign external speakers when the device is docked.

- 1. From the main Settings page, tap Accessory.
- Tap Dock sound to play sounds when inserting or removing the phone from the dock.
- Tap Audio output mode to use the external dock speakers when the phone is docked.
- Tap Desk home screen display to display the desk home screen when the phone is docked.
- Tap Audio output to set your Audio output to Stereo or Surround.

Date and Time

This menu allows you to change the current time and date displayed.

- From the main Settings page, tap Date and time.
- Tap Automatic data and time to allow the network set the date and time.

Important! Deactivate Automatic data and time to manually set the rest of the options.

- Tap Set date and use the plus or minus icons to set the Month, Day, and Year then tap Set.
- Tap Set time and use the plus or minus icons, set Hour, and Minute. Tap PM or AM, then tap Set.
- Tap Automatic time zone to allow the network set the time zone information automatically.
- Tap Select time zone, then tap a time zone.
- Tap Use 24-hour format. If this is not selected the device automatically uses a 12-hour format.
- 8. Tap Select date format and select the date format type.

Accessibility Settings

This service lets you enable and disable downloaded accessibility applications that aid in navigating your Android device, such as TalkBack (uses synthesized speech to describe the results of actions), KickBack (provides haptic feedback for actions), and SoundBack (plays sounds for various actions). Also lets you enable use of the power key to end calls.

1. From the main Settings page, tap Accessibility.

Note: Initially, it might be necessary to download accessibility applications from the Play Store.

- Select the Auto-rotate screen field to activate this feature which automatically rotates an available screen.
- Tap Screen timeout to timeout the accessibility feature after a defined amount of time.
- Tap Lock automatically to lock the screen automatically after a selected amount of time.

Note: The Lock automatically function is only available if your device is already using the screen lock feature.

- Select the Speak passwords field to activate this feature which reads out password information.
- **6.** Select **The power key ends calls** field to activate this feature which uses the to end any current calls.

- Tap Accessibility shortcut to allow the accessibility shortcut under the device options to be used by pressing and holding the power key.
- 8. Tap TalkBack to activate the feature.

Note: TalkBack, when installed and enabled, speaks feedback to help blind and low-vision users.

Important! TalkBack can collect all of the text you enter, except passwords, including personal data and credit card numbers. It may also log your user interface interactions with the device.

- Tap the Font size field to change the size of the fonts used on the device within menus, options, etc..
 - Choose from: Tiny, Small, Normal, Large, or Huge.
- 10. Tap the Negative colors field to reverse the display of on-screen colors from White text on a Black background to Black text on a White background.
- Tap the Text-to-speech output field to configure the text to speech configuration parameters.
- 12. Tap the Enhance web accessibility field to allow apps to install scripts from Google that make their Web content more accessible.
- 13. Tap the Sound balance field to control the sound balance of the media player while connected earphones are in use.

- 14. Tap the Mono audio field to enable stereo audio to be compressed into a single mono audio stream for use with a single earbud/earphone.
- 15. Tap the Turn off all sounds field to mute every sound made by the device during taps, selections, notifications, etc..
- 16. Tap the Tap and hold delay field to select a time interval for this action. Choose from: Short, Medium, or Long.

Developer Options

Use the Developer options to set options for application development.

Important! These features are used for development purposes only.

- 1. From the main **Settings** page, tap **Developer options**.
- 2. The following options are available:
 - Desktop backup password: Allows you to protect your desktop with a backup password ID.
 - Stay awake: with the Stay awake option enabled, your screen will never sleep while you are charging the device.
 - Protect SD card: Requires apps to ask your permission before accessing data on your SD card.
 - USB debugging: Allows debugging when the device is attached to a PC by a USB cable.
 - Allow mock locations: Used by developers when developing locationbased applications.

- Select app to be debugged: Allows developers to select a specific app to debug.
- Wait for debugger: Specified apps must have debugger attached before executing.
- **Show touches**: Displays touch interactions on the screen.
- Show pointer location: Highlights the data that was touched on the screen
- Show layout boundaries: Displays clip bounds, margins, etc.
- Show GPU view updates: Flashes views inside windows when drawn with GPU.
- Show screen updates: Forces areas of the screen to flash as it is updated.
- Window animation scale: Configure the scale for animation (ranges from off to 10x).
- Transition animation scale: Configure the scale for transitioning when using animation (ranges from off to 10x).
- Animator duration scale: Configure the scale for duration when using animation (ranges from off to 10x).
- **Disable hardware overlays**: Assigns the work of rendering to the GPU.
- Force GPU rendering: Uses a 2D acceleration in applications.
- Strict mode: Makes the screen flash when applications perform long operations on the main thread.
- Show CPU usage: Screen highlights the current CPU usage.
- GPU rendering profile: Allows you to set the adb shell to measure rendering.

- Enable traces: Enables/disables on-screen tracing based on an available parameter.
- Do not keep activities: Destroys every activity as soon as the application is closed.
- Limit background processes: Sets the number of processes that can run in the background.
- Show all ANRs: Displays a prompt when applications running in the background are not responding.

USB Debugging

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

- 1. From the main **Settings** page, tap **Developer options**.
- Tap USB debugging to enable or disable the setting. When enabled, a check mark appears in the check box.

Allowing Mock Locations

Note: This feature is used for development purposes only.

If you are a developer who is testing a GPS applications using this device, you can tell the device that the phone is at different GPS locations. In other words, the phone is allowed to "mock" the coordinates.

- From the main Settings page, tap Developer options.
- **2.** Verify the **Developer options** are active.
- Tap Allow mock locations to enable or disable the setting.When enabled, a check mark appears in the check box.

Desktop Backup Password

Protect the desktop with a backup password ID.

- From the main Settings page, tap Developer options
- 2. Verify the **Developer options** are active.
- Tap Desktop backup password.
- In the Settings screen, enter the current full backup password, the new password for full backups, then enter the new password again.
- **5.** Tap **Set backup password** to save the password change.

Application Options

- 1. From the main **Settings** page, tap **Developer options**.
- 2. Verify the **Developer options** are active.
- Tap Do not keep activities to destroy every activity as soon as the application is closed.
- 4. Tap Limit background processes to set the number of processes that can run in the background. Options are: Standard limit, No background processes, and 1 to 4 processes at most.
- Tap Show all ANRs to display a prompt when applications running in the background are not responding.

About Device

This menu contains legal information, system tutorial information, and other phone information such as the model number, firmware version, baseband version, kernel version, and software build number.

To access phone information:

- From the main Settings page, tap About device. The following information displays:
 - Software updates: allows you to connect to the network and upload any new phone software directly to your device. The device automatically updates with the latest available software when you access this option.
 - Status: displays the Battery status, Battery level (as a percentage), Network, Signal strength, Mobile network type, Service state, Roaming, Mobile network state, My phone number, MIN, PRL version, MEID, IP address, Wi-Fi MAC address, Bluetooth address, Up time, and Device status.
 - Legal information: This option displays information about Open source licences, License settings, as well as Google legal information. This information clearly provides copyright and distribution legal information and facts as well as Google Terms of Service, Terms of Service for Android-powered Phones, and much more pertinent information as a reference.

Read the information and terms, then press to return to the Settings menu.

Tip: To find your device's DivX[®] registration code and information about registering your device to play DivX protected video, tap License settings →DivX® VOD.

- Model number: displays the device's model number.
- Android version: displays the firmware version loaded on this device.
- Baseband version: displays the baseband version loaded on this device.
- **Kernel version**: displays the kernel version loaded on this device.
- Build number: displays the software, build number.
- Hardware version: displays the hardware version of this device.

Note: Firmware, baseband, kernel and build numbers are usually used for updates to the handset or support. For additional information please contact your service representative.

System Updates

The System Update feature enables you to use your device to connect to the network and upload any new software directly to your device. The device automatically updates with the latest available software when you access this option.

The following icons show your Bluetooth connection status at a glance:



Displays when the System update feature is active.



Displays when the System update feature is in progress.

To update your device:

- From the main Settings page, tap About device → System updates.
- 2. Read the information screen and select Check now.
- 3. If an update is available, follow the on-screen instructions.

Section 11: 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 vour 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/rfsafetv/.

- 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 1.0cm 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: A3LSCHI535 [Model Number: SCH-S968C] 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.call2recvcle.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, tap 🚺 .
- Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
- **4.** Tap (...

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

Care and Maintenance

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

Keep your Samsung Mobile Device away from:

Liquids of any kind

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

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

Extreme heat or cold

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

Microwaves

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

Dust and dirt

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

Cleaning solutions

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

Shock or vibration

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

Paint

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

Responsible Listening

Caution! Avoid potential hearing loss.

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

This includes the use of headphones (including headsets, earbuds, and Bluetooth® or other wireless devices). Exposure to very loud sound has also been associated in some studies with tinnitus (a

ringing in the ear), hypersensitivity to sound, and distorted hearing. Individual susceptibility to noise-induced hearing loss and potential hearing problem varies. Additionally, the amount of sound produced by a portable audio device varies depending on the nature of the sound, the device settings, and the headphones that are used. As a result, there is no single volume setting that is appropriate for everyone or for every combination of sound, settings, and equipment.

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

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

When your Device is Wet

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

FCC Hearing Aid Compatibility (HAC) Regulations for Wireless Devices

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

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

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

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated mobile device successfully. Trying out the mobile device with your hearing device is the best way to evaluate it for your personal needs.

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

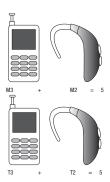
T-Ratings: Mobile devices rated T3 or T4 meet FCC requirements and are likely to generate less interference to hearing devices than mobile devices that are not labeled. T4 is the better/higher of the two ratings. T-ratings refer to enabling inductive coupling with hearing aids operating in telecoil mode.

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

Under the current industry standard, American National Standards Institute (ANSI) C63.19, the hearing aid and wireless mobile device rating values are added together to indicate how usable they are together. For example, if a hearing aid meets the M2 level rating and the wireless mobile device meets the M3 level rating, the sum of the two values equals M5.

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

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



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

HAC for Newer Technologies

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

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

Restricting Children's Access to Your Mobile Device

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

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

FCC Notice and Cautions

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

Cautions

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

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

Other Important Safety Information

- Only qualified personnel should service the mobile device or install the mobile device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Ensure that any mobile devices or related equipment installed in your vehicle are securely mounted.
- Check regularly that all wireless mobile device equipment in your vehicle is mounted and operating properly.
- When using a headset in dry environments, static electricity can build up
 in the headset and cause a small quick static electrical shock. To minimize
 the risk of electrostatic discharge from the headset avoid using the
 headset in extremely dry environments or touch a grounded unpainted
 metal object to discharge static electricity before inserting the headset.
- Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the mobile device, its parts, or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates
 with great force. Do not place objects, including installed or portable
 wireless equipment near or in the area over the air bag or in the air bag
 deployment area. If wireless equipment is improperly installed and the air
 bag inflates, serious injury could result.
- Switch your mobile device off before boarding an aircraft. The use of wireless mobile devices in aircraft is illegal and may be dangerous to the aircraft's operation. Check with appropriate authorities before using any function of a mobile device while on an aircraft.
- Failure to observe these instructions may lead to the suspension or denial of cell phone services to the offender, or legal action, or both.

- While using your device, leave some lights on in the room and do not hold the screen too close to your eyes.
- Seizures or blackouts can occur when you are exposed to flashing lights
 while watching videos or playing games for extended periods. If you feel
 any discomfort, stop using the device immediately.
- Reduce risk of repetitive motion injuries. When you repetitively perform actions, such as pressing keys, drawing characters on a touch screen with your fingers, or playing games, you may experience occasional discomfort in your hands, neck, shoulders, or other parts of your body. When using your device for extended periods, hold the device with a relaxed grip, press the keys lightly, and take frequent breaks. If you continue to have discomfort during or after such use, stop use and see a physician.
- If your device has a camera flash or light, do not use the flash or light close to the eyes of people or pets. [122011]

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