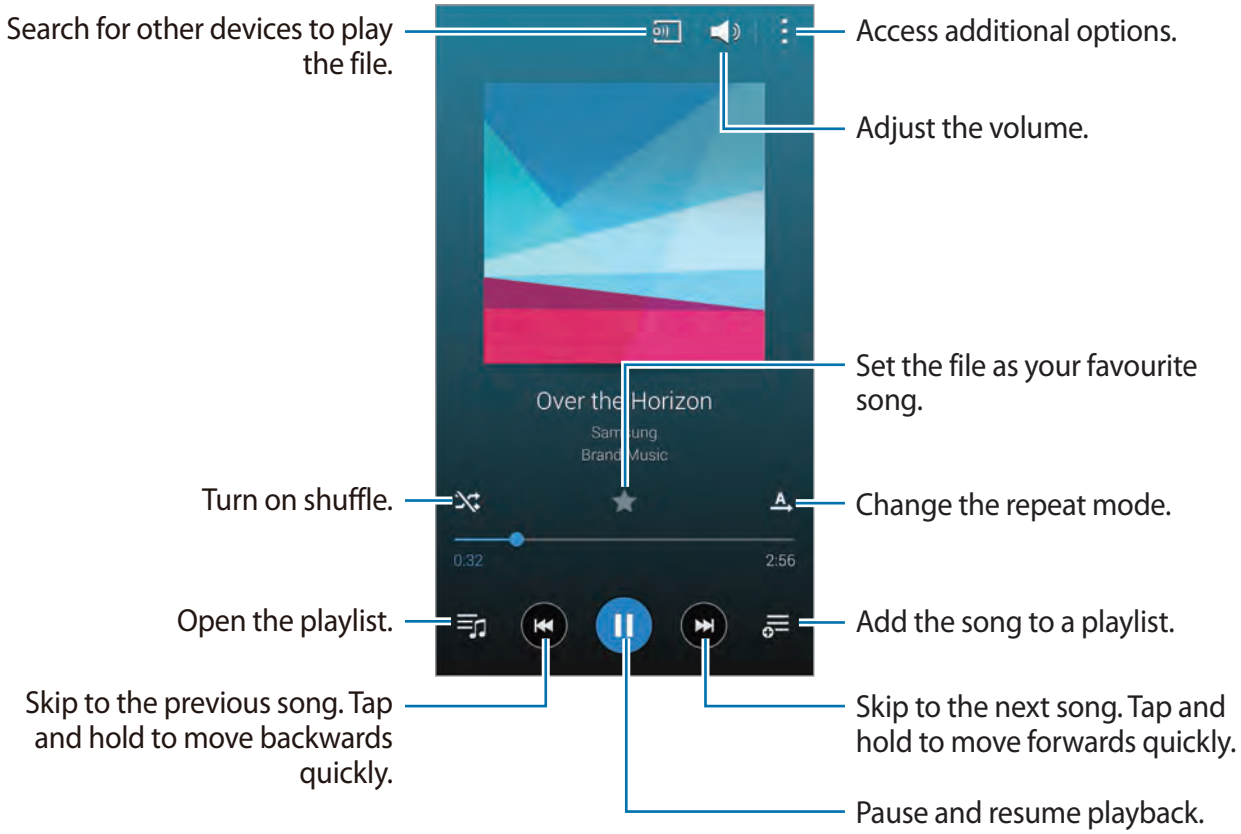
Multimedia

Music

Playing music

Tap **Music** on the Apps screen.

Select a music category, and then select a song to play.



To listen to songs at equal volume levels, tap ⋮ → **Settings**, and then tick **Smart volume**.

When **Smart volume** is activated, the volume may end up louder than the device volume level. Use caution to avoid long-term exposure to loud sounds to prevent damage to your hearing.

Smart volume may not be activated for some files.

To set a personalised sound while listening to songs with a headset, tap ⋮ → **Settings** → **Adapt Sound** → **On**.

When you activate this option for the first time, tap **Start** to adjust the sound. The device starts a series of sound tests to adjust the sound level and starts to beep. Tap **Yes** if you can hear the beep or **No** if you cannot. Repeat this step for each test until the sound adjustment is finished. Then, tick **Music sound** to apply the option when you listen to music.

When you turn the volume up to level 14 or higher, the adapt sound option is not applied to music playback. If you turn the volume down to level 13 or lower, the option is reapplied.

Setting a song as ringtone or alarm tone

To use the currently-playing song as a ringtone or an alarm tone, tap ⋮ → **Set as** → **From the beginning** or **Auto recommendations**, select an option, and then tap **Done**.

Creating playlists

Make an own selection of songs.

Tap **Music** on the Apps screen.

Tap **Playlists** → ⋮ → **Create playlist**. Enter a title and tap **OK**. Tap +, select songs to include, and then tap **Done**.

To add the currently-playing song to a playlist, tap ≡+ and select the playlist.

Playing music by mood

Use this feature to play music that suits your mood.

Tap **Music** on the Apps screen.

Tap **Music square**. Songs are automatically categorised by mood. Tap a mood cell or drag multiple cells to listen to the music in the cells.

Song categories are based on available information about the song. Some songs may not be categorised in mood cells.

Playing music stored on other devices

Search for music that is stored on other devices and play it on your device.

Tap **Music** on the Apps screen.

Accessing music on a registered device

Tap **Devices** and select a device in **REGISTERED DEVICES** to access and play music. You can play the song on the devices that are registered to Samsung link. Visit link.samsung.com for more information. Ensure that the registered devices are turned on and connected to a Wi-Fi or mobile network.

You may incur additional charges when you view content stored on other devices via the mobile network. To avoid additional charges, use the Wi-Fi feature.

Accessing music on a nearby device

Tap **Devices** and select a device in **NEARBY DEVICES** to access and play music. You can play the song on the devices with content sharing feature activated.

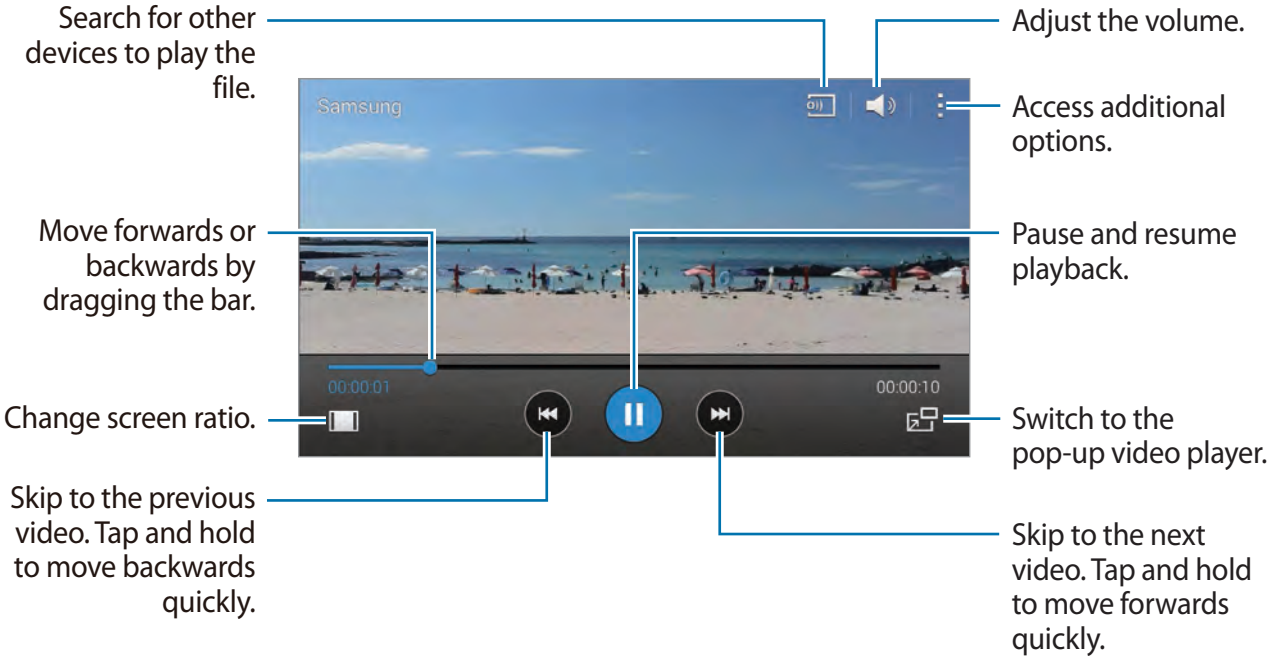
To activate the feature, on the Apps screen, tap **Settings** → **Nearby devices**, and then drag the **Nearby devices** switch to the right. Refer to Nearby devices for more settings.

Video

Playing videos

Tap **Video** on the Apps screen.

Select a video to play.



To customise the control panel location during playback, tap ⋮ → **Settings**, tick **Mini controller**, and then tap **Close**. Then, tap ◀ or ▶ to move the control panel to either side of the screen.

This feature is available only in landscape orientation.

Using the pop-up video player

Use this feature to use other apps without closing the video player. While watching videos, tap ⧉ to use the pop-up video player.

Spread two fingers apart on the screen to enlarge the player or pinch to reduce it. To move the player, drag the player to another location.

Capturing images

To use this feature, during playback, tap ⋮ → **Settings**, tick **Capture**, and then tap **Close**.

Tap [◎] to capture an image from the video during playback.

Sharing or deleting videos

Tap **Video** on the Apps screen.

Tap ⋮ → **Select**, select videos, tap ⋮ → **Share via**, and then select a sharing method.

Tap ⋮ → **Delete**, select videos, and then tap **Done**.

Editing videos

Tap **Video** on the Apps screen.

Select a video, tap ⋮ → **Edit** → **Video trimmer**. Move the start bracket to the desired starting point, move the end bracket to the desired ending point, tap **Done**, enter a filename, and then tap **OK** to save the video.

To edit videos using a video editor app, tap **Video Editor**.

Playing videos stored on other devices

Search for videos that are stored on other devices and play them on your device.

Tap **Video** on the Apps screen.

Accessing a video on a registered device

Tap **Devices** and select a device in **REGISTERED DEVICES** to access and play the video. You can play the video on the devices that are registered to Samsung link. Visit link.samsung.com for more information. Ensure that the registered devices are turned on and connected to a Wi-Fi or mobile network.

You may incur additional charges when you view content stored on other devices via the mobile network. To avoid additional charges, use the Wi-Fi feature.

Accessing a video on a nearby device

Tap **Devices** and select a device in **NEARBY DEVICES** to access and play the video. You can play the video on devices that have the content sharing feature activated.

To activate the content sharing feature, on the Apps screen, tap **Settings** → **Nearby devices**, and then drag the **Nearby devices** switch to the right. Refer to Nearby devices for more settings.

YouTube

Use this app to watch videos from the YouTube website.

Tap **YouTube** on the Apps screen.

This app may not be available depending on the region or service provider.

Watching videos

Tap ☰ and select a category. To search for a video by entering a keyword, tap 🔍.

Rotate the device to landscape orientation to display full screen.

Sharing videos

Select the video to view, tap <, and then select a sharing method.

Uploading videos

Tap ☰ → **Uploads** → ⬆, select a video, enter information for the video, and then tap ⬆.

Flipboard

Use this app to access your personalised magazines.

Tap **Flipboard** on the Apps screen.

This app may not be available depending on the region or service provider.

To start your Flipboard, flick up on the greeting page, select news topics, and then tap **Build Your Flipboard**.

Select a cover story or a topic, flick through the Flipboard pages, and then select an article to read.

Google+

Use this app to stay connected with people via Google's social network service.

Tap **Google+** on the Apps screen.

This app may not be available depending on the region or service provider.

Tap **All** to change the category, and then scroll up or down to view posts from your circles.

Photos

Use this app to manage photos, albums, and videos that you have saved on the device and uploaded to **Google+**.

Tap **Photos** on the Apps screen.

This app may not be available depending on the region or service provider.

Play Games

Use this app to download and play games.

Tap **Play Games** on the Apps screen.

This app may not be available depending on the region or service provider.

Play Music

Use this app to listen to music from the device or stream music from the Google cloud service.

Tap **Play Music** on the Apps screen.

This app may not be available depending on the region or service provider.

Play Newsstand

Use this app to read the latest news articles.

Tap **Play Newsstand** on the Apps screen.

This app may not be available depending on the region or service provider.

Safety

Emergency mode

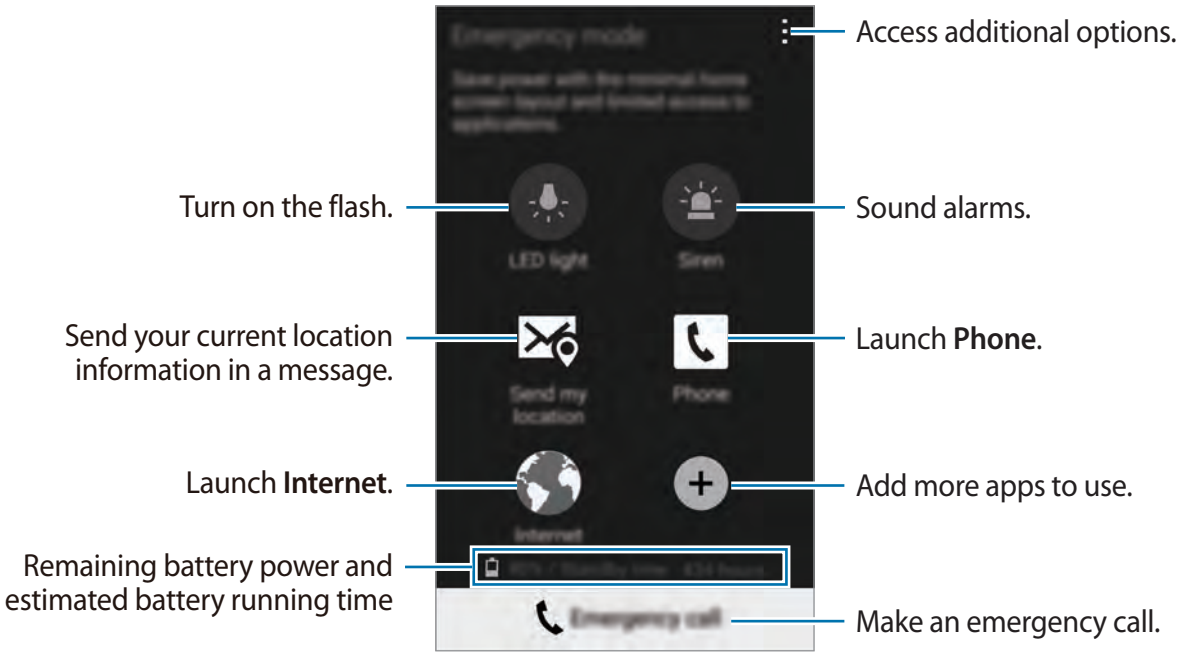
About emergency mode

Use this mode to extend the device's standby time when you are in an emergency situation. When this mode is activated, the screen's brightness decreases and battery consumption is reduced by restricting some features. You can also turn on the flash, sound alarms, and send your location information to others in a message.

Activating emergency mode

Press and hold the Power button, and then tap **Emergency mode**. Alternatively, on the Apps screen, tap **Settings** → **Safety assistance** → **Emergency mode**, and then drag the **Emergency mode** switch to the right.

You may incur additional charges for sending messages or using the mobile network.



The maximum standby time is the estimated time that the device will maintain a battery charge. The standby time is the time taken for the battery to fully discharge if the device is not used. Standby time may vary depending on device settings and operating conditions.

Deactivating emergency mode

To deactivate emergency mode, press and hold the Power button, and then tap **Emergency mode**. Alternatively, tap ⋮ → **Disable Emergency mode**. Emergency mode is deactivated.

Sending help messages

About sending help messages

You can preset contacts to send a message to in an emergency. Make calls or send messages to your primary contacts by quickly pressing the Power button three times.

On the Apps screen, tap **Settings** → **Safety assistance**.

Adding primary contacts

1 On the Apps screen, tap **Settings** → **Safety assistance**.

2 Tap **Manage primary contacts** → **Create primary contact**.

3 Tap **Create new contact** and enter contact information or tap **Select from contacts** to add an existing contact as a primary contact.

Setting help messages

On the Apps screen, tap **Settings** → **Safety assistance** → **Send help messages**, drag the **Send help messages** switch to the right, and then select content to include in help messages.

Sending help messages

In an emergency situation, quickly press the Power button three times. The device sends messages to your primary contacts. The messages include your location information.

You may incur additional charges for sending messages or using the mobile network.

Severe weather notification (Geo News)

About severe weather notification (Geo News)

Use this feature to receive notifications about severe weather conditions close to your current location.

- The feature identifies your location and provides you with information about disasters if they occur in your area. The information provided may differ depending on the service provider in your current location.

  To view information about severe weather conditions and the regions and languages that the information is available in, visit www.samsung.com/geonews.
- You may incur additional charges if you receive notifications from a weather forecasting service while you are roaming.

Setting severe weather notifications

On the Apps screen, tap **Settings** → **Safety assistance** → **Geo News**, and then drag the **Geo News** switch to the right.

Receiving notifications

On the Apps screen, tap **Settings** → **Safety assistance** → **Geo News**, and then drag the **Geo News** switch to the right.

Warning notifications

Tick **Notification pop-ups**.

If the weather conditions worsen, the device displays the notification in a pop-up window. You can make an emergency call or send emergency messages to preset contacts from the pop-up window.

Watch notifications

Notifications for less severe weather conditions appear on the status bar at the top of the screen. The information provided is displayed in the **Geo News** widget.

Using the geo news widget

You can view your current location and information about disasters in your region in the **Geo News** widget.

On the Home screen, scroll left and tap the **Geo News** widget.

Utilities

S Finder

Use this app to search for content on the device and via the Internet. You can apply various filters and view the search history.

Open the notifications panel and tap **S Finder**.

Searching for content

Tap the search field and enter a keyword, or tap 🎙 and say a keyword.

To get more refined results, tap ☰ and apply filters under the search field.

To update the list of search results, tap ⋮ → **Refresh**.

You can set the search parameters using the available filters or select search categories. Tap ⋮ → **Settings** → **Select filters** or **Select search category**.

Managing the search history

To delete the history, tap ⋮ → **Settings** → **Delete history**.

To set the device not to save the search results, tap ⋮ → **Settings**, and then deselect **Save search history**.

S Planner

Starting S Planner

Use this app to manage events and tasks.

Tap **S Planner** on the Apps screen.

Tap ⋮ and use the following:

- **Go to**: Move to a specific date.
- **Delete**: Delete events or tasks.
- **Search**: Search for events or tasks.
- **Calendars**: Select the calendars to display.
- **Sync**: Sync events and tasks with your accounts.
- **Settings**: Change settings for S Planner.

Creating events or tasks

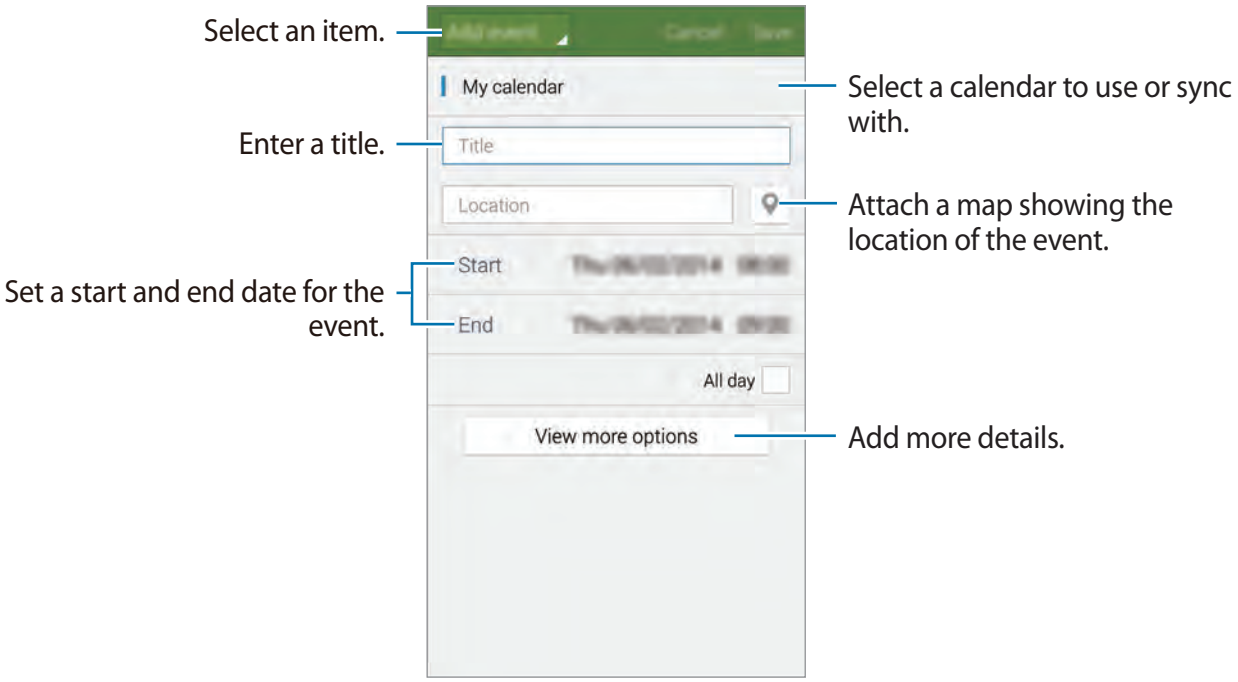
1 Tap **S Planner** on the Apps screen.

2 Tap +. Alternatively, select a date with no events or tasks in it and tap the date again.

If the date already has saved events or tasks in it, tap the date and tap +.

3 Select either event or task and enter details.

- **Add event**: Set a start and end date for an event. You can set an optional repeat setting.
- **Add task**: Add a task to do on a specific date. You can set an optional priority setting.



4 Tap **Save** to save the event or task.

Syncing events and tasks with your accounts

Tap **S Planner** on the Apps screen.

To sync events and tasks with your accounts, tap ⋮ → **Sync**.

To add accounts to sync with, tap ⋮ → **Calendars** → **Add account**. Then, select an account to sync with and sign in. When an account is added a green circle is displayed next to the account name.

To change an account's syncing option, tap **Settings** → **Accounts**, and then select an account service.

Deleting events or tasks

Tap **S Planner** on the Apps screen.

To delete events or tasks, tap ⋮ → **Delete**, select the events or tasks, and then tap **Done**.

To delete an event or task while viewing it, tap 🗑 → **OK**.

To mark tasks as completed, tap a date that has tasks in it and tick completed tasks.

Sharing events or tasks

Tap **S Planner** on the Apps screen.

To share an event or task while viewing it, tap ⋮ → **Share via**, and then select a sharing method.

Calculator

Use this app for simple or complex calculations.

Tap **Calculator** on the Apps screen.

Rotate the device to landscape orientation to display the scientific calculator. If **Screen rotation** is disabled, tap ⋮ → **Scientific calculator**.

To see the calculation history, tap ⌄ to hide the keypad.

To clear the history, tap ⌄ → **Clear history**.

Clock

Alarm

On the Apps screen, tap **Clock** → **Alarm**.

Setting alarms

Tap + in the alarms list, set an alarm time, select the days on which the alarm will repeat, set other various alarm options, and then tap **Save**.

- **Snooze**: Set an interval and the number of times for the alarm to repeat after the preset time.
- **Smart alarm**: Set a time and tone for the smart alarm. A smart alarm starts at a low volume a few minutes before a preset alarm is scheduled to sound. The volume of the smart alarm increases gradually until you turn it off or the preset alarm sounds.

To activate or deactivate alarms, tap ⏰ next to the alarm in the alarms list.

Stopping alarms

Drag ✕ outside the large circle to stop an alarm. Drag zZ outside the large circle to repeat the alarm after a specified length of time.

Deleting alarms

Tap ⋮ → **Delete**, select alarms, and then tap **Done**.

World clock

On the Apps screen, tap **Clock** → **World clock**.

Creating clocks

Tap + and enter a city name or select a city from the cities list.

To apply summer time, tap and hold a clock, and then tap ☼.

Deleting clocks

Tap ⋮ → **Delete**, select clocks, and then tap **Done**.

Stopwatch

On the Apps screen, tap **Clock** → **Stopwatch**.

Tap **Start** to time an event. Tap **Lap** to record lap times.

Tap **Stop** to stop timing. To clear lap times, tap **Reset**.

Timer

On the Apps screen, tap **Clock** → **Timer**.

Set the duration, and then tap **Start**.

Drag ✕ outside the large circle when the timer goes off.

Drive

Use this app to access files stored in your Google Drive storage service. You can store all your files in one place, access them from anywhere, and share them with others.

Tap **Drive** on the Apps screen.

This app may not be available depending on the region or service provider.

Dropbox

Use this app to save and share files with others via the Dropbox cloud storage. When you save files to Dropbox, your device automatically syncs with the web server and any other devices that have Dropbox installed.

This app may not be available depending on the region or service provider.

1 Tap **Dropbox** on the Apps screen.

2 Sign in to your Dropbox account. If you do not have it, create a Dropbox account.

3 Tap **Turn on Camera Upload**.

The device uploads photos taken with the device's camera to Dropbox. To upload videos, drag the **Include videos** switch to the right.

To upload photos or videos manually, tap **Skip this**.

4 Use the following functions:

- : Upload or open files. Tap ⋮ → **Upload here** to upload files.
- : View the uploaded photos or videos. Tap ☑ to share or delete files, or create albums.
- ★ : Open files in the favourites list.
- 🔔 : View notifications.

Google

Use this app to search the Internet. You can also use it to search for apps and app content saved on the device or memory card.

Tap **Google** on the Apps screen.

This app may not be available depending on the region or service provider.

Searching the device

Tap the search field, and then enter a keyword. Alternatively, tap 🎤, and then say a keyword.

Google Now

View Google Now cards that show the current weather, public transit info, your next appointment, and more when you are most likely to need it.

Join Google Now when you launch **Google** for the first time. To change Google Now settings, tap ⋮ → **Settings**, and then drag the **Google Now** switch to the left or right.

Maps

Use this app to pinpoint the location of the device, search for places, or get directions.

Tap **Maps** on the Apps screen.

This app may not be available depending on the region or service provider.

Searching for locations

Search for locations by entering an address or a keyword. Once the location is found, select a location to view the detailed information. Refer to the help for more information.

Getting directions for a destination

Tap to set starting and ending locations, and then select a travel method. The device shows the routes to get to the destination.

Memo

Use this app to record important information to save and view at a later date.

Tap **Memo** on the Apps screen.

Adding and managing categories

Create categories to sort and manage your memos.

On the memos list, tap ☰ → **Manage categories**.

To add a new category, tap +, enter a category name, and then tap **OK**.

To delete a category, tap — next to the category.

To rename a category, tap and hold a category name, enter a new name for the category, and then tap **OK**.

To change the category order, tap ⠿ next to a category and drag it up or down to another position.

Composing memos

Tap + on the memos list and enter a memo. While composing a memo, use the following options:

- : Create or set a category.
- : Insert images.
- : Make a voice recording to insert.

To save the memo, tap **Done**.

To edit a memo, tap a memo, and then tap the content of the memo.

Searching for memos

Tap on the memos list and enter a keyword to search for memos that include the keyword.

Deleting memos

Tap → **Delete**, select memos, and then tap **Done**.

To delete the memo while viewing it, tap → **Delete**.

My Files

About My Files

Use this app to access all kinds of files stored in the device, including images, videos, songs, and sound clips.

Tap **My Files** on the Apps screen.

Viewing files

Tap **My Files** on the Apps screen.

Select a folder to open it. To go up a level in the directory, tap <. To return to the My Files main screen, tap ⌂.

Select a folder, tap ⋮, and then use one of the following options:

- **Select**: Select files or folders.
- **Delete**: Delete files or folders.
- **Create folder**: Create a folder.
- **View mode**: Change the view mode.
- **Sort by**: Sort files or folders.
- **Add shortcut**: Add a shortcut to the folder on the Home screen or the My Files main screen.
- **Settings**: Change the file manager settings.

Tap and hold a file or folder, and then use one of the following options:

- : Send files to others or share them.
- : Delete files or folders.
- ⋮ → **Move**: Move files or folders to another folder.
- ⋮ → **Copy**: Copy files or folders to another folder.
- ⋮ → **Rename**: Rename a file or folder.
- ⋮ → **Add shortcut**: Add a shortcut of the folder to the Home screen or the My Files main screen.
- ⋮ → **Zip**: Compress files or folders to create a zip file.
- ⋮ → **Details**: View file or folder details.

Searching for files or folders

Tap **My Files** on the Apps screen.

Tap 🔍, and then enter search criteria to search for.

Viewing storage information

Tap **My Files** on the Apps screen.

Tap ◔ to view memory information for your device and memory card.

Adding FTP server shortcuts to the device

Add an FTP server shortcut to the shortcuts area.

Tap **My Files** on the Apps screen.

Tap ⋮ → **Add FTP server**, enter details such as server address, user name, and password, and then tap **Done**.

Torch

Use this widget to turn the flash on or off to improve visibility.

To add it to the Home screen, on the Home screen, tap and hold an empty area, tap **Widgets**, tap and hold the **Torch** widget, and then drag it to the Home screen.

Tap the **Torch** widget on the Home screen to turn it on or off.

Connecting with other devices

NFC

About NFC

Your device allows you to read near field communication (NFC) tags that contain information about products. You can also use this feature to make payments and buy tickets for transportation or events after downloading the required apps.

The battery contains a built-in NFC antenna. Handle the battery carefully to avoid damaging the NFC antenna.

Before using this feature

- Check the location of the NFC antennas on your device and the other device.
- Ensure that the NFC feature is activated on your device and the devices you want to connect to.
- Ensure that the device's screen is unlocked. Otherwise, the device will not read NFC tags or receive data.

Using the NFC feature

Use the NFC feature to send images or contacts to other devices, and read product information from NFC tags. If you insert a SIM or USIM card that has a payment feature, you can use the device to make payments conveniently.

On the Apps screen, tap **Settings** → **NFC**, and then drag the **NFC** switch to the right.

Place the NFC antenna area on the back of your device near an NFC tag. The information from the tag will appear.

Making a purchase with the NFC feature

Before you can use the NFC feature to make payments, you must register for the mobile payment service. To register or get details about the service, contact your service provider.

On the Apps screen, tap **Settings** → **NFC**, and then drag the **NFC** switch to the right.

Touch the NFC antenna area on the back of your device to the NFC card reader.

To set the default payment app, tap **Tap and pay** and select an app.

The payment services list may not include all available payment apps.

Sending data

Use the Android Beam feature to send data, such as webpages and contacts, to NFC-enabled devices.

1 On the Apps screen, tap **Settings** → **NFC**, and then drag the **NFC** switch to the right.

2 Tap **Android Beam** and drag the **Android Beam** switch to the right.

3 Select an item and touch the other device's NFC antenna to your device's NFC antenna.

4 When **Touch to beam** appears on the screen, tap your device's screen to send the item.

Bluetooth

About Bluetooth

Bluetooth creates a direct wireless connection between two devices over short distances. Use Bluetooth to exchange data or media files with other devices.

- Samsung is not responsible for the loss, interception, or misuse of data sent or received via the Bluetooth feature.
- Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.
- Some devices, especially those that are not tested or approved by the Bluetooth SIG, may be incompatible with your device.
- Do not use the Bluetooth feature for illegal purposes (for example, pirating copies of files or illegally tapping communications for commercial purposes).

  Samsung is not responsible for the repercussion of illegal use of the Bluetooth feature.

Before using this feature

- Ensure that the Bluetooth feature is activated on your device and the devices you want to connect to.
- Ensure that both devices are set as visible to other Bluetooth devices.

Pairing with other Bluetooth devices

1 On the Apps screen, tap **Settings** → **Bluetooth**, drag the **Bluetooth** switch to the right, and then tap **Scan**. Detected devices are listed.

To set the device as visible to other devices, tap the device name.

2 Select a device to pair with.

If your device has paired with the device before, tap the device name without confirming the auto-generated passkey.

3 Accept the Bluetooth authorisation request on both devices to confirm.

Sending and receiving data

Many apps support data transfer via Bluetooth. You can share data, such as contacts or media files, with other Bluetooth devices. The following actions are an example of sending an image to another device.

Sending an image

1 On the Apps screen, tap **Gallery**.

2 Select an image.

3 Tap ⟨ → **Bluetooth**, and then select a device to pair with.

If the device you want to pair with is not on the list, request that the device turns on its visibility option. Or, set your device as visible to other devices.

4 Accept the Bluetooth authorisation request on the other device.

Receiving an image

When another device sends you an image, accept the Bluetooth authorisation request. The received image is saved in the **Gallery** → **Download** folder.

Unpairing Bluetooth devices

1 On the Apps screen, tap **Settings** → **Bluetooth**.

The device displays the paired devices on the list.

2 Tap ⚙ next to the device's name to unpair.

3 Tap **Unpair**.

S Beam

Use this feature to send data, such as videos, images, and documents.

Before using this feature

- Ensure that the NFC feature or Wi-Fi Direct is activated on your device and the devices you want to send files to.

Sending data

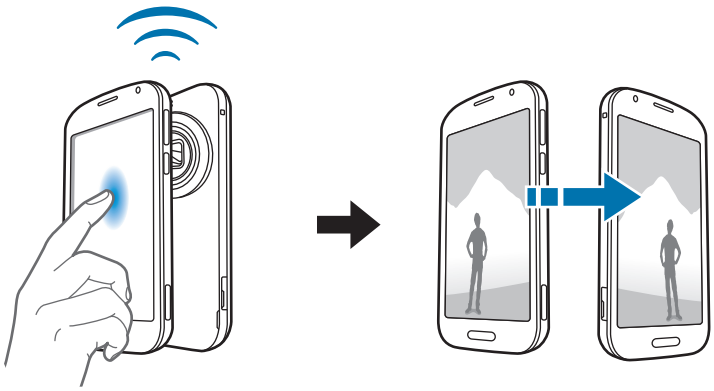
1 On the Apps screen, tap **Settings** → **NFC**, and then drag the **NFC** switch to the right.

2 Tap **S Beam** and drag the **S Beam** switch to the right.

3 Select a file and touch the other device's NFC antenna to your device's NFC antenna.

4 When **Touch to beam** appears on the screen, tap your device's screen to send the file.

- Do not send copyright-protected data via S Beam. Doing so may violate copyright laws. Samsung is not responsible for any liabilities caused by the illegal use of copyrighted data.
- If both devices try to send data simultaneously, the file transfer may fail.



Quick connect

About Quick connect

Use this feature to easily search and connect to nearby devices. You can use the device as a remote control by connecting it to a TV. You can also conveniently share content stored on your device with computers.

- Connection methods may vary depending on the type of connected devices or the shared content.
- Device name may vary depending on the Bluetooth devices to pair with. For example, the device name can be shown as BT MAC.

Before using this feature

- Ensure that devices to be connected support the Quick connect feature and that their screens are turned on.
- Ensure that Wi-Fi Direct or the Bluetooth feature is activated on devices that do not support the Quick connect feature.

Connecting to other devices

1 Open the notifications panel and tap **Quick connect**.

When the panel opens, the Bluetooth feature is activated automatically and the device searches for nearby devices.

2 Select a device to connect to.

The next steps may vary depending on the connected device. Follow the on-screen instructions to complete the connection between the devices.

To allow nearby devices to search for your device and connect to it, tap ⋮ → **Always ready to connect**, and then drag the **Always ready to connect** switch to the right.

Re-searching for devices

If the desired device does not appear in the list, search for the device.

Tap ↻ and select the device from the list of detected devices.

Disconnecting devices

To deactivate the Quick connect feature, tap ⌄ at the top of the screen. Alternatively, tap ↩.

Sharing content

Share content with the connected devices.

1. Open the notifications panel and tap **Quick connect**.
2. Select a device from the list of detected devices.
3. Select a media category.
4. Select the content to share and tap **Done**.

   Your device sends the content to the connected device.

Connecting to a TV

Connect the device to a TV and control the TV by using the device as a remote control.

Before using this feature

- Ensure that the TV is turned on.
- Ensure that your device and the TV are connected to the same network.
- Ensure that the TV is registered to the WatchON feature.
- Install the WatchON app on the device. You can download the app from **Samsung Apps** or **Play Store**.

1 Open the notifications panel and tap **Quick connect**.

2 Tap **Control** from the list of detected devices.

When the device is connected to the TV, a remote control layout appears on the screen.

When you connect the device to a TV for the first time, tap **Set up Remote control**. Then, follow the on-screen instructions to complete connecting the devices.

3 Control the connected TV using the remote control.

Joining Group Play

Share content with other devices by using the Group Play feature.

Before using this feature

- Search for or join a created session or create a new session.
- Install the Group Play app on both devices. You can download the app from **Samsung Apps** or **Play Store**.

1 Open the notifications panel and tap **Quick connect**.

2 Tap **Join** from the list of detected devices.

Only devices that support Group Play sessions appear on the list.

3 Select a Group Play session to join.

4 Follow the on-screen instructions to complete the connection between the devices.

Exploring computers

Launch the Samsung Link app to use content saved on remotely connected computers. To use this feature, sign in to your Samsung account.

Before using this feature

- Ensure that all devices using this feature are connected to the same network.
- Ensure that all computers that the device will connect to are registered with the Samsung Link app.
- Ensure that the Samsung Link app is installed on both devices. You can download the app from **Samsung Apps** or **Play Store**.

1 Open the notifications panel and tap **Quick connect**.

2 Tap **Connect** from the list of detected devices.

Only available computers appear on the list.

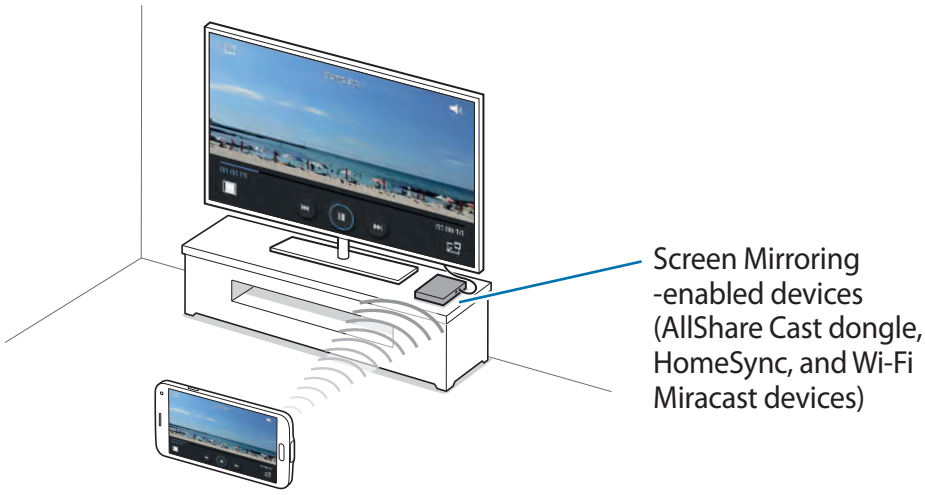
3 Select a computer to connect to.

4 Follow the on-screen instructions to complete the connection between the devices.

Screen mirroring

About Screen mirroring

Use this feature to connect your device to a large screen with an AllShare Cast dongle or HomeSync and then share your contents. You can also use this feature with other devices that support the Wi-Fi Miracast feature.



- This feature may not be available depending on the region or service provider.
- Miracast-enabled devices that do not support High-bandwidth Digital Content Protection (HDCP 2.X) may not be compatible with this feature.
- Some files may be buffered during playback, depending on the network connection.
- To save energy, deactivate this feature when not in use.
- If you specify a Wi-Fi frequency, AllShare Cast dongles or HomeSync may not be discovered or connected.
- If you play videos or games on a TV, select an appropriate TV mode to get the best experience.

Before using this feature

- Ensure that the screen mirroring-enabled device is connected to the TV using an HDMI cable.
- Ensure that the TV is turned on.

Viewing content on a TV

Before you connect a TV to your device, connect the TV and the screen mirroring-enabled device. To set up the connection, refer to the device's user manual. The following actions are an example of viewing content on a TV connected via an AllShare Cast dongle.

1 On the TV, select a connection mode, such as HDMI mode, to connect an external device.

2 On the Apps screen, tap **Settings** → **Screen mirroring**.

The detected devices are listed.

3 Select a device to connect to.

Your device's screen appears on the TV screen.

If you connect the device for the first time, tap and hold the dongle's name on the list and enter the PIN shown on the TV screen.

4 Open or play a file, and then control the display with the keys on your device.

Stopping viewing the content

On the Apps screen, tap **Settings** → **Screen mirroring**, and then drag the **Screen mirroring** switch to the left.

Using the mobile printing feature

Connect the device to a printer to print images or documents.

Some printers may not be compatible with the device.

Before using this feature

- Ensure that the Wi-Fi feature or Wi-Fi Direct is activated on your device and the printer.

Connecting to a printer

On the Apps screen, tap **Settings** → **Printing** → **HP Print Service Plugin** or **Samsung Print Service Plugin**, and then drag the switch at the top right of the screen. The device searches for printers that are connected to the same Wi-Fi network as your device. Select a printer to use as the default printer.

To add printers manually, tap ⋮ → **Add printer** → ⊕, enter details, and then tap **OK**.

To change printing settings, tap ⋮ → **Printing settings**.

Printing content

While viewing content, such as images or documents, tap ⋮ → **Print**, and then select a printer.

Device & data manager

Upgrading the device

The device can be upgraded to the latest software.

Upgrading over the air

The device can be directly upgraded to the latest software by the firmware over-the-air (FOTA) service.

On the Apps screen, tap **Settings** → **About device** → **Software update** → **Update**.

Upgrading with Samsung Kies

Download the latest Samsung Kies from the Samsung website. Launch Samsung Kies and connect the device to the computer. Samsung Kies automatically recognises the device and shows available updates in a dialogue box, if any. Click the Update button in the dialogue box to start upgrading. Refer to the Samsung Kies help for details on how to upgrade.

- Do not turn off the computer or disconnect the USB cable while the device is upgrading.
- While upgrading the device, do not connect other media devices to the computer. Doing so may interfere with the update process.

Transferring files between the device and a computer

Move audio, video, image, or other types of files from the device to the computer, or vice versa.

- Do not disconnect the USB cable from the device when you are transferring files. Doing so may cause data loss or device damage.
- Do not disconnect the device from the computer when you play files saved in the device on the connected computer. After you finish playing the file, disconnect the device from the computer.
- The devices may not connect properly if they are connected via a USB hub. Directly connect the device to the computer's USB port.

Connecting as a media device

1 Connect the device to the computer using the USB cable.

2 Open the notifications panel, and then tap **Connected as a media device** → **Media device (MTP)**.

Tap **Camera (PTP)** if your computer does not support Media Transfer Protocol (MTP) or not have any appropriate driver installed.

3 Transfer files between your device and the computer.

Connecting with Samsung Kies

Samsung Kies is a computer app that manages media contents and personal information with Samsung devices. Download the latest Samsung Kies from the Samsung website.

1 Connect the device to the computer using the USB cable.

Samsung Kies launches on the computer automatically. If Samsung Kies does not launch, double-click the Samsung Kies icon on the computer.

2 Transfer files between your device and the computer.

Refer to the Samsung Kies help for more information.

Backing up and restoring data

Keep your personal information, app data, and settings safe on your device. You can back up your sensitive information to a backup account and access it later or restore apps without reinstalling them.

Using a Google account

1 Tap **Settings** on the Apps screen.

2 Tap **Backup and reset** and tick **Back up my data**.

3 Tap **Backup account** and select an account as the backup account.

To restore data, sign in to your Google account on the setup wizard. If you perform a factory data reset to the device, it will restart and opens the setup wizard. If you sign in to your Google account not on the setup wizard, the device will not restore the backup data.

Using a Samsung account

1 On the Apps screen, tap **Settings** → **Accounts** → **Add account** → **Samsung account**, and then sign into your Samsung account.

2 Tap **Settings** on the Apps screen.

3 Tap **Cloud** → **Backup**, tick the items to back up, and then tap **Back up now** → **Back up**.

To restore data, tap **Restore**, select the items to restore, and then tap **Restore now**.

Performing a data reset

Delete all settings and data on the device. Before performing a factory data reset, ensure you back up all important data stored on the device. Refer to Backing up and restoring data for details.

1 Tap **Settings** on the Apps screen.

2 Tap **Backup and reset** → **Factory data reset**.

3 Tap **Reset device** → **Erase everything**.

The device automatically restarts.

Settings

About Settings

Use this app to configure the device, set app options, and add accounts.

Tap **Settings** on the Apps screen.

To search for settings by entering keywords, tap 🔍.

QUICK SETTINGS

View the list of your favourite settings options.

To edit the list of favourite settings options, tap ⋮ → **Edit quick settings**, select a settings option, and then tap **Save**.

NETWORK CONNECTIONS

Wi-Fi

Activate the Wi-Fi feature to connect to a Wi-Fi network and access the Internet or other network devices.

On the Settings screen, tap **Wi-Fi**, and then drag the **Wi-Fi** switch to the right.

You can maintain a stable network connection by automatically selecting either the Wi-Fi or mobile network to use the strongest signal. To automatically switch between networks, tick **Smart network switch**.

To use options, tap ⋮.

- **Scan**: Search for available networks.
- **Wi-Fi Direct**: Activate Wi-Fi Direct and connect devices directly via Wi-Fi to share files.
- **Advanced**: Customise Wi-Fi settings.
- **WPS push button**: Connect to a secured Wi-Fi network with a WPS button.
- **WPS PIN entry**: Connect to a secured Wi-Fi network with a WPS PIN.
- **Help**: Access help information for Wi-Fi.

Setting Wi-Fi sleep policy

Tap ⋮ → **Advanced** → **Keep Wi-Fi on during sleep**.

When the screen is turned off, the device automatically turns off Wi-Fi connections. When this happens, the device automatically accesses mobile networks if it is set to use them. This may incur data transfer fees. To avoid additional charges, set this option to **Always**.

Setting Network notification

The device can detect open Wi-Fi networks and display an icon on the status bar to notify when available.

Tap ⋮ → **Advanced** and tick **Network notification** to activate this feature.

Wi-Fi Direct

Wi-Fi Direct connects devices directly via a Wi-Fi network without requiring an access point.

Tap ⋮ → **Wi-Fi Direct**.

Bluetooth

Activate the Bluetooth feature to exchange information over short distances.

On the Settings screen, tap **Bluetooth**, and then drag the **Bluetooth** switch to the right.

To use more options, tap ⋮.

- **Visibility timeout**: Set duration that the device is visible.
- **Received files**: View received files via the Bluetooth feature.
- **Rename device**: Change the device name.
- **Help**: Access help information for Bluetooth.

Tethering and mobile hotspot

Use the device as a mobile hotspot to share the device's mobile data connection with other devices. Refer to Tethering devices and using mobile hotspots for details.

On the Settings screen, tap **Tethering and mobile hotspot**.

- **Mobile hotspot**: Use the mobile hotspot to share the device's mobile data connection with computers or other devices through the Wi-Fi network. You can use this feature when the network connection is not available.
- **USB tethering**: Use USB tethering to share the device's mobile data connection with a computer via USB. When connected to a computer, the device is used as a wireless modem for the computer.
- **Bluetooth tethering**: Use Bluetooth tethering to share the device's mobile data connection with computers or other devices via Bluetooth.

Flight mode

This disables all wireless functions on your device. You can use only non-network services.

On the Settings screen, tap **Flight mode**.

Data usage

Keep track of your data usage amount and customise the settings for the limitation.

On the Settings screen, tap **Data usage**.

- **Mobile data**: Set the device to use data connections on any mobile network.
- **Set mobile data limit**: Set a limit for mobile data usage.
- **Data usage cycle**: Set a monthly reset date to monitor data usage between periods.

To use more options, tap ⋮.

- **Data roaming**: Set the device to use data connections when you are roaming.
- **Restrict background data**: Set the device to disable sync in the background while using a mobile network.
- **Auto sync data**: Activate or deactivate auto-syncing of apps. You can select what information to sync for each account in **Settings** → **Accounts**.
- **Show Wi-Fi usage**: Set the device to show your data usage via Wi-Fi.
- **Mobile hotspots**: Select mobile hotspots to prevent apps that are running in the background from using them.

Location

Change settings for location information permissions.

On the Settings screen, tap **Location**, and then drag the **Location** switch to the right.

- **Mode**: Select a method to collect your location data.
- **RECENT LOCATION REQUESTS**: View which apps request your current location information and their battery usage.
- **LOCATION SERVICES**: View the location services your device is using.
- **My places**: Set up profiles that will be used for specific locations when you use GPS, Wi-Fi, or Bluetooth features to find your current location.

More networks

Customise settings to control networks.

On the Settings screen, tap **More networks**.

Default messaging app

Select the default app to use for messaging.

Mobile networks

- **Mobile data**: Set the device to use data connections on any mobile network.
- **Data roaming**: Set the device to use data connections when you are roaming.
- **Access Point Names**: Set up access point names (APNs).
- **Network mode**: Select a network type.
- **Network operators**: Search for available networks and select a network for roaming.

VPN

Set up and connect to virtual private networks (VPNs).

CONNECT AND SHARE

NFC

Activate the NFC feature to read or write NFC tags that contain information.

On the Settings screen, tap **NFC**, and then drag the **NFC** switch to the right.

- **Android Beam**: Turn on the Android Beam feature to send data, such as webpages and contacts, to NFC-enabled devices.
- **S Beam**: Activate the S Beam feature to send data, such as videos, images, and documents, to devices that support NFC and Wi-Fi Direct.
- **Tap and pay**: Set the default payment app for mobile payments.

The payment services list may not include all available payment apps.

Nearby devices

Change settings for sharing content when you connect the device to nearby devices.

On the Settings screen, tap **Nearby devices**, and then drag the **Nearby devices** switch to the right.

- **DEVICE NAME**: View the media server name for your device.
- **Shared contents**: Set the device to share your content with other devices.
- **Allowed devices**: View the list of devices that can access your device.
- **Not-allowed devices list**: View the list of devices that are blocked from accessing your device.
- **Download to**: Select a memory location for saving media files.
- **Upload from other devices**: Set the device to accept uploads from other devices.

Printing

Configure settings for printer plug-ins installed on the device. You can search for available printers or add one manually to print files via Wi-Fi or cloud services.

On the Settings screen, tap **Printing**.

Screen mirroring

Activate the screen mirroring feature and share your display with others.

On the Settings screen, tap **Screen mirroring**.

SOUND AND DISPLAY

Sound

Change settings for various sounds on the device.

On the Settings screen, tap **Sound**.

- **Sound mode**: Set the device to use sound mode or silent mode.
- **Volume**: Adjust the volume level for call ringtones, music and videos, system sounds, and notifications.
- **Vibration intensity**: Adjust the force of the vibration notification.
- **Ringtones**: Add or select a ringtone for incoming calls.
- **Vibrations**: Add or select a vibration pattern.
- **Notifications**: Select a ringtone for events, such as incoming messages and missed calls.
- **Vibrate when ringing**: Set the device to vibrate and play a ringtone for incoming calls.
- **Dialling keypad tone**: Set the device to sound when you tap the buttons on the keypad.
- **Touch sounds**: Set the device to sound when you select an app or option on the touch screen.
- **Screen lock sound**: Set the device to sound when you lock or unlock the touch screen.
- **Haptic feedback**: Set the device to vibrate when you tap keys.
- **Sound when tapped**: Set the device to sound when a key is touched.
- **Vibrate when tapped**: Set the device to vibrate when a key is touched.
- **SAMSUNG APPLICATIONS**: Change the notification settings for each app.
- **Music effects**: Select a sound effect to apply when you adjust to music.

Display

Change the settings for the display.

On the Settings screen, tap **Display**.

- **Brightness**: Set the brightness of the display.
- **Font**:
  - **Font style**: Change the font type for display text.
  - **Font size**: Change the font size.
- **Screen rotation**: Set the content to rotate automatically when the device is turned.
- **Smart stay**: Set the device to prevent the display backlight from turning off while you are looking at the display.
- **Screen timeout**: Set the length of time the device waits before turning off the display's backlight.
- **Screen mode**:
  - **Adapt Display**: Use this mode for optimising the display according to the display settings.
  - **Dynamic**: Use this mode to make the display tone more vivid.
  - **Standard**: Use this mode for normal surroundings.
  - **Professional photo**: Use this mode to make the display tone look like real colours.
  - **Cinema**: Use this mode for dim surroundings, such as in a dark room.
- **Auto adjust screen tone**: Set the device to save power by adjusting the brightness of the display.
- **Daydream**: Set the device to launch a screensaver when your device is connected to a desktop dock or charging.

- **LED indicator**:
  - **Charging**: Set the device to turn on the notification light while you are charging the battery.
  - **Low battery**: Set the device to turn on the notification light when the battery is low.
  - **Notifications**: Set the device to turn on the notification light when you have missed calls, messages, or notifications.
  - **Voice recording**: Set the device to turn on the notification light when you record voice memos.
- **Touch key light duration**: Set the duration that the Recent apps and Back buttons' backlight remains on.
- **Increase touch sensitivity**: Set the device to respond to touch when you are wearing gloves.

Depending on the type of material you wear while touching the device, some commands may not be recognised.

Wallpaper

Change the settings for the wallpaper.

On the Settings screen, tap **Wallpaper**.

- **Home screen**: Select a background image for the Home screen.
- **Lock screen**: Select a background image for the locked screen.
- **Home and lock screens**: Select a background image for the Home screen and the locked screen.

Lock screen

Change settings for the locked screen.

On the Settings screen, tap **Lock screen**.

- **Screen lock**: Activate the screen lock feature. The following options may vary depending on the screen lock feature selected.
- **Dual clock**: Set the device to show the dual clock.

- **Clock size**: Change the size of the clock.
- **Show date**: Set the device to show the date with the clock.
- **Camera shortcut**: Set the device to show the camera shortcut on the locked screen.
- **Owner information**: Enter your information that is shown with the clock.
- **Unlock effect**: Select an effect that you see when you unlock the screen.
- **Additional information**: Set the device to display information on the locked screen to display weather, upcoming events, or step counts when you use the walking mate in **S Health**.
- **Help text**: Set the device to show the help text on the locked screen.

Notification panel

Customise the items that appear on the notifications panel.

On the Settings screen, tap **Notification panel**.

- **Brightness adjustment**: Set the device to display the brightness adjustment bar on the notifications panel.
- **Recommended apps**: Set the device to display a list of recommended apps on the notifications panel based on your actions, such as connecting a headset to the device.
- **Set quick setting buttons**: Rearrange the quick setting buttons displayed on the notifications panel.

Toolbox

Set the device to use the toolbox.

On the Settings screen, tap **Toolbox**, and then drag the **Toolbox** switch to the right.

- **APPLICATIONS**: View the apps list to display in the toolbox.
- **Edit**: Select the apps to display in the toolbox.

PERSONALISATION

Easy mode

Set the device to easy mode.

On the Settings screen, tap **Easy mode**.

- **Standard mode**: Set the device to standard mode.
- **Easy mode**: Set the device to easy mode.
- **EASY APPLICATIONS**: Select apps to apply simpler layouts.

Accessibility

You can use this feature to access settings to improve accessibility to the device. Refer to Accessibility for details.

On the Settings screen, tap **Accessibility**.

Blocking mode

Select which notifications will be blocked or set to allow notifications for calls from specified contacts in blocking mode.

On the Settings screen, tap **Blocking mode**, and then drag the **Blocking mode** switch to the right.

Open camera

Set the device to launch the camera when you turn on the device.

On the Settings screen, tap **Open camera**, and then drag the **Open camera** switch to the right.

MOTION

Motions and gestures

Activate the motion recognition feature and change the settings that control motion recognition on your device.

On the Settings screen, tap **Motions and gestures**.

- **Air browse**: Move your hand to the left or right across the sensor to browse images, webpages, or songs.
- **Direct call**: Set the device to make a voice call by picking up and holding the device near your ear while viewing call, message, or contact details.
- **Smart alert**: Set the device to alert you if you have missed calls or new messages when you pick up the device.
- **Mute/Pause**: Set the device to mute incoming calls or alarms, or to pause media playback by using palm motions or looking away from the screen.
  - **Covering screen with hand**: Set the device to mute incoming calls or alarms, or to pause media playback when you cover the screen with your palm.
  - **Turning device over**: Set the device to mute incoming calls or alarms, or to pause media playback by placing the device face down.
  - **Smart pause**: Set the device to pause video playback when you look away from the screen.
- **Palm swipe to capture**: Set the device to capture an image of the screen when you sweep your hand to the left or right across the screen

USER AND BACKUP

Accounts

Add email or SNS accounts.

On the Settings screen, tap **Accounts**.

Cloud

Change settings for syncing data or files with your Samsung account or Dropbox cloud storage.

On the Settings screen, tap **Cloud**.

Backup and reset

Change the settings for managing settings and data.

On the Settings screen, tap **Backup and reset**.

- **Back up my data**: Set the device to back up settings and app data to the Google server.
- **Backup account**: Set up or edit your Google backup account.
- **Automatic restore**: Set the device to restore settings and app data when the apps are reinstalled on the device.
- **Factory data reset**: Reset settings to the factory default values and delete all data.

SYSTEM

Language and input

Change the settings for text input. Some options may not be available depending on the selected language.

On the Settings screen, tap **Language and input**.

Language

Select a display language for all menus and apps.

Default

Select a default keyboard type for text input.

Samsung keyboard

To change the Samsung keyboard settings, tap ⚙.

The available options may vary depending on the region or service provider.

- **English(UK)**: Select a default keyboard layout.
- **Select input languages**: Select languages for text input.
- **Predictive text**: Activate predictive text mode to predict words based on your input and show word suggestions. You can also customise the word prediction settings.
- **Auto replacement**: Set the device to correct misspelled and incomplete words by tapping the space bar or punctuation mark.
- **My Shortcuts**: Set number shortcuts to frequently-used text. You can tap and hold a number key to insert the preset text.
- **Auto capitalisation**: Set the device to automatically capitalise the first character after a final punctuation mark, such as a full stop, question mark, or exclamation mark.
- **Auto spacing**: Set the device to automatically insert a space between words.
- **Auto-punctuate**: Set the device to insert a full stop when you double-tap the space bar.

- **Keyboard swipe**:
  - **None**: Set the device to deactivate the keyboard swipe feature.
  - **Continuous input**: Set the device to enter text by sweeping on the keyboard.
  - **Cursor control**: Enable the smart keyboard navigation feature to move the cursor by scrolling the keyboard.
  - **Flick input**: Enable or disable the keyboard to enter numbers or symbols when you tap and hold a key, and then flick your finger upwards.
- **Sound**: Set the device to sound when a key is touched.
- **Vibration**: Set the device to vibrate when a key is touched.
- **Character preview**: Set the device to display a large image of each character tapped.
- **Tap and hold delay**: Set the recognition time for tapping and holding the screen.
- **Reset settings**: Reset Samsung keyboard settings.

Google voice typing

To change the voice input settings, tap ⚙.

- **Choose input languages**: Select input languages for text input.
- **Block offensive words**: Set the device to prevent the device from recognising offensive words in voice inputs.
- **Offline speech recognition**: Download and install language data for offline voice input.

Voice search

- **Language**: Select a language for the voice recognition.
- **Speech output**: Set the device to provide voice feedback to alert you to the current action.
- **Block offensive words**: Hide offensive words from voice search results.
- **Hotword detection**: Set the device to begin voice recognition when you say the wake-up command while using the search app.
- **Offline speech recognition**: Download and install language data for offline voice input.
- **Bluetooth headset**: Set the device to allow a voice search with a Bluetooth headset, when one is connected to the device.

Text-to-speech options

- **PREFERRED TTS ENGINE**: Select a speech synthesis engine. To change the settings for speech synthesis engines, tap ⚙.
- **Speech rate**: Select a speed for the text-to-speech feature.
- **Listen to an example**: Listen to the spoken text for an example.
- **Default language status**: View the status of the default language for the text-to-speech feature.

Notification readout

Set the device to read aloud notifications when you have incoming calls, messages, or events.

Pointer speed

Adjust the pointer speed for the mouse or trackpad connected to your device.

Date and time

Access and alter the following settings to control how the device displays the time and date.

On the Settings screen, tap **Date and time**.

If the battery remains fully discharged or removed from the device, the time and date is reset.

- **Automatic date and time**: Automatically update the time and date when moving across time zones.
- **Set date**: Set the current date manually.
- **Set time**: Set the current time manually.
- **Automatic time zone**: Set the device to receive time zone information from the network when you move across time zones.
- **Select time zone**: Set the home time zone.
- **Use 24-hour format**: Display time in 24-hour format.
- **Select date format**: Select a date format.

Safety assistance

Activate emergency mode and set primary contacts and messages. Refer to Emergency mode for details.

On the Settings screen, tap **Safety assistance**.

- **Emergency mode**: Set the device to activate emergency mode and reduce battery consumption by using basic functions, such as calling.
- **Geo News**: Set the device to receive alerts for natural disaster forecasts.
- **Send help messages**: Set the device to send help messages by pressing the Home button three times.
  - **Send pictures**: Set the device to send photos taken by the front and rear cameras with the help message.
  - **Send sound recording**: Set the device to record sound and send it along with the message to the recipients.
- **Manage primary contacts**: Select or edit the recipients for help messages.

Accessories

Change the accessory settings.

On the Settings screen, tap **Accessories**.

- **Audio output**: Select a sound output format to use when connecting your device to HDMI devices. Some devices may not support the surround sound setting.

Battery

View the amount of battery power consumed by your device.

On the Settings screen, tap **Battery**.

- **Display battery percentage**: Set the device to display the remaining battery life.

Power saving

Activate power-saving mode and change the settings for power-saving mode. Refer to Using the power saving feature for details.

On the Settings screen, tap **Power saving**.

- **Power saving mode**: Activate power-saving mode and change the settings for power-saving mode.
  - **Block background data**: Set the device to prevent apps that are running in the background from using a mobile data connection.
  - **Restrict performance**: Set the device to limit various options, such as turning off the Recent apps and Back buttons' backlight.
  - **Greyscale mode**: Set the device to display colours on the screen as grey tones.
- **Ultra power saving mode**: Extend standby time and reduce battery consumption by displaying a simpler layout and allowing limited access to an app.

The maximum standby time is the estimated time that the device will maintain a battery charge. The standby time is the time taken for the battery to fully discharge if the device is not used. Standby time may vary depending on device settings and operating conditions.

Storage

View memory information for your device and memory card, or format a memory card.

On the Settings screen, tap **Storage**.

Formatting a memory card permanently deletes all data from it.

The actual available capacity of the internal memory is less than the specified capacity because the operating system and default apps occupy part of the memory. The available capacity may change when you upgrade the device.

Security

Change settings for securing the device and the SIM or USIM card.

On the Settings screen, tap **Security**.

- **Encrypt device**: Set a password to encrypt data saved on the device. You must enter the password each time you turn on the device.

Charge the battery before enabling this setting because it may take more than an hour to encrypt your data.

- **Encrypt external SD card**: Set the device to encrypt files on a memory card.

If you reset your device to the factory defaults with this setting enabled, the device will not be able to read your encrypted files. Disable this setting before resetting the device.

- **Remote controls**: Set the device to allow control of your lost or stolen device remotely via the Internet. To use this feature, you must sign in to your Samsung account.
  - **ACCOUNT REGISTRATION**: Add or view your Samsung account.
  - **Use wireless networks**: Set the device to allow location data collection or to determine the location of your lost or stolen device via Wi-Fi or mobile networks.
- **SIM change alert**: Activate or deactivate the Find my mobile feature which helps locate the device when lost or stolen.
- **Go to website**: Access the Find my mobile website (findmymobile.samsung.com). You can track and control your lost or stolen device on the Find my mobile website.
- **Reactivation lock**: Set the device to require your Samsung account after the device has been reset to prevent others from reactivating the device.
- **Set up SIM card lock**:
  - **Lock SIM card**: Activate or deactivate the PIN lock feature to require the PIN before using the device.
  - **Change SIM PIN**: Change the PIN used to access SIM or USIM data.

- **Make passwords visible**: Set the device to display passwords as they are entered.
- **Device administrators**: View device administrators installed on the device. You can allow device administrators to apply new policies to the device.
- **Unknown sources**: Choose to install apps from any source. If not chosen, download apps only from **Play Store**.
- **Verify apps**: Set the device to allow Google to check the apps for harmful behaviour before installing them.
- **Security policy updates**: Set the device to check and download security updates.
- **Send security reports**: Set the device to send the updated security reports to Samsung automatically.
- **Storage type**: Set a storage type for credential files.
- **Trusted credentials**: Use certificates and credentials to ensure secure use of various apps.
- **Install from device storage**: Install encrypted certificates stored on the USB storage.
- **Clear credentials**: Erase the credential contents from the device and reset the password.

Help

Access help information to learn how to use the device and apps or configure important settings.

On the Settings screen, tap **Help**.

About device

Access device information, edit the device name, or update device software.

On the Settings screen, tap **About device**.

APPLICATIONS

Application manager

View and manage the apps on your device.

On the Settings screen, tap **Application manager**.

Default applications

Select a default setting for using apps.

On the Settings screen, tap **Default applications**.

- **Home**: Select a default Home screen mode.
- **Message**: Select a default app to use for messaging.

Call

Customise the settings for calling features.

On the Settings screen, tap **Call**.

- **Call rejection**: Reject calls from specified phone numbers automatically. Add phone numbers to the reject list.
- **Answering and ending calls**:
  - **Pressing the home key**: Set the device to answer a call when you press the Home button.
  - **Using voice commands**: Set the device to answer or reject a call with voice commands.
  - **Waving hand over device**: When a call comes in, move your hand to the left, and then to the right across the sensor to answer the call.
  - **Pressing the power key**: Set the device to end a call when pressing the Power button.

- **Call notification pop-ups**: Set the device to display a pop-up window when you receive an incoming call while using apps.
- **In-call status pop-ups**: Set the device to display a pop-up window that shows the status of a call while using apps.
- **Show caller information**: Set the device to display the caller's recent social networking activity when a call comes in.
- **Call alerts**:
  - **Vibrate when answered**: Set the device to vibrate when the other party answers a call.
  - **Vibrate when call ends**: Set the device to vibrate when the other party ends a call.
  - **Call connect tone**: Activate or deactivate the call connection tone.
  - **Minute minder**: Activate or deactivate the minute minder tone.
  - **Call end tone**: Activate or deactivate the call disconnection tone.
  - **Notify during calls**: Set the device to alert you to events during a call.
- **Call accessories**:
  - **Automatic answering**: Set the device to answer a call automatically after a specified period (available only when a headset is connected).
  - **Automatic answering timer**: Set the length of time the device waits before answering a call.
  - **Outgoing call conditions**: Set the device to allow outgoing calls with a Bluetooth headset, even when your device is locked.
  - **Outgoing call types**: Select the type of outgoing calls to make you use a Bluetooth headset.

- **More settings**:
  - **Caller ID**: Display your caller ID to other parties for outgoing calls.
  - **Call forwarding**: Divert incoming calls to another number.
  - **Auto area code**: Set the device to insert a prefix (area or country code) automatically before a phone number.
  - **Call barring**: Block incoming or outgoing calls.
  - **Call waiting**: Allow incoming call alerts when a call is in progress.
  - **Auto redial**: Activate auto redial for calls that were not connected or that were cut off.
  - **Fixed Dialling Numbers**: Activate or deactivate FDN mode to restrict calls to numbers in the FDN list. Enter the PIN2 supplied with your SIM or USIM card.
- **Ringtones and keypad tones**:
  - **Ringtones**: Add or select a ringtone for incoming calls.
  - **Vibrations**: Add or select a vibration pattern.
  - **Vibrate when ringing**: Set the device to vibrate and play a ringtone for incoming calls.
  - **Dialling keypad tone**: Set the device to sound when tapping the buttons on the keypad.
- **Personalise call sound**: Select a type of call sound to use with a headset.
- **Noise reduction**: Set the device to remove background noise so that the other party can hear you more clearly.
- **Hide my video**: Select an image to be shown to the other party.
- **Service provider**: Select or set your voicemail service provider.
- **Voicemail settings**: Enter the number to access the voicemail service. Obtain this number from the service provider.
- **Ringtones**: Select a ringtone for new voicemails.
- **Vibrate**: Set the device to vibrate when voicemails are received.
- **Accounts**: Set the device to accept IP calls and set up your accounts for IP call services.
- **Use Internet calling**: Set whether to use IP call services for all calls or only for IP calls.

Contacts

Change settings for using contacts.

On the Settings screen, tap **Contacts**.

- **Import/export**: Import or export contacts.
- **Contacts to display**: Select which contacts to display.
- **Swipe to call or send msg**: Set the device to make a call or send a message when you drag a contact to the left or right in the contacts list.
- **Only contacts with phones**: Set the device to display contacts that only have a phone number.
- **Sort by**: Select an option for sorting contacts.
- **Display contacts by**: Select an option for displaying contact names.
- **Send contact information**: Select a method to share contacts.
- **Accounts**: Add or edit the account to sync contacts with.

Email

Change the following settings for managing and sending emails.

On the Settings screen, tap **Email**.

- **Manage accounts**: Manage existing email accounts or add new accounts.
- **Display**: Change the settings for displaying emails.
- **Default display**: Set the device to open a specific screen after you delete emails.
- **Priority sender settings**: Change settings for priority senders.
- **Spam addresses**: Add email addresses to block.
- **Delay email sending**: Set the time the device waits before sending emails after you tap the send button.

Gallery

Change settings for using **Gallery**.

On the Settings screen, tap **Gallery**.

- **Sync only via Wi-Fi**: Set the device to sync content only when the Wi-Fi connection is activated.
- **Dropbox sync**: Set the device to sync content in your Dropbox with your Samsung account.
- **Filter by**: Select the categories for sorting images. When you take a photo, it is sorted into a category automatically based on the categories you set.
- **Tag buddy**: Set the device to display contextual tags.
- **Face tag**: Register the faces in the image as face tags.

Internet

Change settings for using Internet.

On the Settings screen, tap **Internet**.

- **Account**: Sign in to a Samsung account.
- **Set homepage**: Set a default home page.
- **Autofill forms**: Set the device to automatically enter user information, such as names or phone numbers when you fill out forms on webpages.
- **Privacy**: Manage personal data when visiting webpages.
- **Screen and text**: Change the settings, adjust the font size, and more when viewing webpages.
- **Content settings**: Change the settings for managing cookies from visiting webpages or set whether or not to display pop-up windows, and more.
- **Bandwidth management**: Change the bandwidth settings.

Messages

Change the following settings for using messages.

On the Settings screen, tap **Messages**.

- **Default messaging app**: Select the default app to use for messaging.
- **Display**: Change settings for the messaging window, such as the font size, background colour, and more.
- **Quick responses**: Add or edit the message template.
- **Text messages**: Change settings for text messages.
- **Multimedia messages**: Change settings for multimedia messages.
- **Delete old messages**: Set the device to delete old messages.
- **Priority senders**: Set the device to show priority senders list.
- **Push messages**: Set an interval for pop-up notifications that alert you to new messages.
- **Cell broadcast**: Set the device to receive cell broadcast messages.
- **Notifications**: Set the device to alert you to new messages.
- **Signature**: Set the device to display your signature on the message.
- **Spam filter**: Set the device to block messages from specific numbers or that contain certain words.
- **Delay message sending**: Set the time the device waits before sending messages after you tap the send button.
- **Safe mode**:
  - **Allow access to all links**: Set the device to allow to open the link on a message when you tap the link.
  - **Potential threat alerts**: Set the device to alert you when you install apps that support messaging feature to prevent phishing.

S Planner

Change settings for using **S Planner**.

On the Settings screen, tap **S Planner**.

- **First day of week**: Select the first day of a week.
- **Lock time zone**: Set the device to leave the time zone setting unchanged when moving across time zones.
- **Select time zone**: Select the time zone.
- **View today according to**: Set the calendar to use your home time zone or a selected time zone.
- **Show week numbers**: Set the device to display the number of weeks in a year.
- **Hide declined events**: Set the device to hide expired events.
- **Hide completed tasks**: Set the device to hide completed tasks.
- **Weather**: Set the device to display the weather forecast.
- **Select alert type**: Select the notification settings for events.
- **Notification sound**: Select a ringtone for events or tasks.
- **Vibration**: Set the device to vibrate to alert you to events or tasks.
- **Quick responses**: Create templates for sending messages to event participants.

S Voice

Change settings for the voice recognition.

- **Language**: Select a language for the voice recognition.
- **Hide offensive words**: Hide offensive words from voice search results.
- **About**: View version information.
- **Open via the home key**: Set the device to launch **S Voice** when you press the Home button twice.
- **Voice wake-up**: Set the device to start voice recognition by saying a wake up command while using **S Voice**.
- **Auto start speakerphone**: Set the device to automatically turn on the speakerphone when making a call with **S Voice**.

- **Show body of message**: Set the device to display the text of a new message.
- **Check missed events**: Set the device to check missed calls, messages, or events when **S Voice** is launched by pressing the headset button.
- **Personal briefing**: Set the device to display events saved in **S Planner** while you use **S Voice**.
- **Home address**: Enter your home address to use location information with the voice command feature.
- **Log in to Facebook**: Enter your Facebook account information to use Facebook with **S Voice**.
- **Log in to Twitter**: Enter your Twitter account information to use Twitter with **S Voice**.

Google Settings

Use this app to configure settings for some features provided by Google.

Tap **Google Settings** on the Apps screen.

Accessibility

Accessibility

Accessibility menus are special features for those with certain physical disabilities, such as poor eyesight or hearing impairment. You can use the following features:

- TalkBack
- Changing the font size
- Magnifying the screen
- Notification reminders
- Reversing the display colours
- Colour adjustment
- Turning off all sounds
- Flash notification
- Adjusting the sound balance
- Mono audio mode
- Customising caption settings
- Auto haptic
- Baby monitor
- Assistive menus
- Smart scroll feature
- Setting tap and hold delay options
- Interaction control mode
- Changing the method for answering or ending calls
- Single tap mode
- Configuring accessibility settings

To use accessibility menus, on the Apps screen, tap **Settings** → **Accessibility**.

Using the Home button to open accessibility menus

You can access the following accessibility menus by pressing the Home button three times quickly.

- Accessibility
- TalkBack
- Negative colours
- Interaction control

On the Apps screen, tap **Settings** → **Accessibility** → **Direct access**, and then drag the **Direct access** switch to the right. Then, select an accessibility menu to open when you press the Home button three times quickly.

If you select more than one menu, the device displays a pop-up window asking which menu to use each time you press the Home button three times quickly. To enable **Interaction control** on the accessibility menus, activate the feature. On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Interaction control**, and then drag the **Interaction control** switch to the right.

TalkBack

Activating or deactivating TalkBack

When you activate TalkBack, the device reads aloud the text on the screen or selected features. This feature is useful if you cannot see or have difficulty viewing the screen.

1 On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack**.

2 Drag the **TalkBack** switch to the right.

To deactivate TalkBack, drag the **TalkBack** switch to the left.

3 Tap **OK**.

When you activate TalkBack, the device provides voice feedback and reads aloud the features you select. Also, the device provides voice feedback when the screen turns off, when you have new notifications, and more.

When you activate **Explore by touch** while using TalkBack, the device reads selected items aloud. Firstly, the device reads aloud items on the screen when you tap them. Then, the device will perform the function or open the app if you tap anywhere on the screen twice quickly. If **Explore by touch** is deactivated, the device cannot perform various features that require finger gestures.

To activate **Explore by touch**, on the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings**, and then tick **Explore by touch**.

Some features are not available while you are using TalkBack.

Controlling the screen with finger gestures

You can use various finger gestures to control the screen while you are using TalkBack. If **Explore by touch** is deactivated, the device cannot perform some of the features that require finger gestures.

To activate **Explore by touch**, on the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings**, and then tick **Explore by touch**.

- Exploring the screen: Place a finger on the screen and move your finger to explore the screen. Select and hold on an item and the device reads aloud the item. When you release your finger, the item under your finger is selected.
- Selecting items: Tap an item to select it. Or, select and hold on an item while exploring the screen, and then release your finger.
- Opening the selected item: While selected items are read aloud, when you hear the item you want, release your finger from the item. Then, tap anywhere on the screen twice quickly.
- Selecting the previous item: Scroll quickly upwards or to the left on the screen with one finger.

- Selecting the next item: Scroll quickly downwards or to the right on the screen with one finger.
- Scrolling the lists: Scroll the screen upwards or downwards with two fingers.
- Returning to the previous page: Scroll the screen to the right with two fingers.
- Moving to the next page: Scroll the screen to the left with two fingers.
- Unlocking the screen: Scroll the screen in any direction within the locked screen area with two fingers.
- Opening notifications panel: Drag the top of the screen downwards with two fingers.
- Opening quick setting panel: Drag the top of the screen downwards with three fingers.

You can configure finger gesture settings for TalkBack in **Manage gestures**. Refer to Configuring finger gesture settings for details.

Configuring finger gesture settings

When you use TalkBack, you can perform actions using finger gestures. You can perform actions such as, returning to the previous screen, opening the Home screen, and more. Configure finger gestures before using them.

Configuring settings for vertical gestures

You can use two-part vertical gestures by dragging your finger upwards and downwards from the bottom of the screen, or vice versa.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage gestures** → **Two-part vertical gestures**. Then, select one of the following features:

- **Move to the first and last items on screen**: When you drag your finger upwards and then downwards on the screen, the first item at the top of the screen is selected. When you drag your finger downwards and then upwards on the screen, the last item at the bottom of the screen is selected.
- **Cycle through reading granularities**: When you drag your finger upwards and then downwards on the screen, the reading unit changes. The reading unit changes to page, paragraph, line, word, character, and default. When you drag your finger downwards and then upwards on the screen, the reading units change in reverse order.

Configuring settings for shortcut gestures

Use this feature to configure eight shortcut gestures. You can configure gestures such as, dragging your finger upwards and then to the right without releasing it, and more. You can change shortcut gestures or assign features to empty shortcuts.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage gestures**. Select a gesture, and then assign a feature to it.

The following features are available:

- **Back button**: Return to the previous screen.
- **Home button**: Open the Home screen.
- **Recent apps button**: Open the list of recently-used apps.
- **Open notifications**: Open the notifications panel.
- **Open global context menu**: Open the global contextual menu. Tap and hold the screen to open the circular global contextual menu. You can use features, such as **Quick navigation**, **Read from top**, **Spell last utterance**, and **Read from next item**. Then, explore menus by drawing a circle with your finger without releasing it. When you find the menu you want, release your finger from the menu to select it.

  Tap **Pause feedback** at the top left of the screen to pause voice feedback.

  Tap **TalkBack Settings** at the top right of the screen to access the TalkBack settings. Refer to Configuring settings for TalkBack for details.
- **Open local context menu**: Open the local contextual menu. You can select a unit for reading text on the screen. When you use this feature while entering text, contextual menus, such as the cursor control menu, are available. Tap and hold the screen to open the circular contextual menu. Then, explore menus by drawing a circle with your finger without releasing it. When you find the menu you want, release your finger from the menu to select it.
- **Read from top**: Read items aloud from the first item to the last item in order.
- **Read from next item**: Read items aloud starting from the item next to the selected item in order.

Changing reading units

When you use TalkBack, you can listen to the text on the screen. You can drag your finger up, down, left, or right to select the text you want. By default, the device reads text aloud in the selected area. Or, you can set the device to read text in other reading units, such as lines or paragraphs.

Changing reading units by using the local contextual menu

1 Select some text to read.

2 Drag your finger upwards, and then to the right without releasing it to open the local contextual menu.

3 Tap and hold the screen and draw a circle with your finger to explore menus. Then, release your finger when you hear **Change granularity**.

4 Tap and hold the screen again and draw a circle with your finger to explore menus. Then, release your finger when you hear the reading unit you want.

To change the shortcut gesture to open the local contextual menu, refer to Configuring settings for shortcut gestures.

Changing reading units using two-part vertical gestures

When you drag your finger upwards and then downwards on the screen, the reading unit changes. The reading unit changes to page, paragraph, line, word, character, and then default. When you drag your finger downwards and then upwards on the screen, the reading units change in reverse order.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage gestures** → **Two-part vertical gestures** → **Cycle through reading granularities**.

You can listen to the text next to the currently-selected text using the current reading unit. To listen to the next section of text, drag you finger downwards or to the right on the screen. Also, you can listen to the text before the currently-selected text using the current reading unit. To listen to the previous section of text, drag your finger upwards or to the left on the screen.

Pausing TalkBack

Open the global contextual menu by dragging your finger downwards and then to the right on the screen without releasing it. When you select **Pause feedback** at the top left of the screen, TalkBack pauses.

When TalkBack is paused, you can resume it by turning on the screen or other methods. To change the method for resuming TalkBack, on the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Resume from suspend**. Then, select an option.

To change the shortcut gesture to open the global contextual menu, refer to Configuring settings for shortcut gestures.

Using the quick navigation feature

With the quick navigation feature, you can access menus by drawing a circle on the screen without scrolling up or down to select an item.

Open the global contextual menu by dragging your finger downwards and then to the right on the screen without releasing it. Tap and hold the screen and draw a circle around the menu with your finger to explore the menus. Then, release your finger when you hear **Quick navigation**. Tap the screen again and draw a circle around the menu with your finger to explore the menus. Then, release your finger when you hear the menu you want.

Adding and managing image labels

You can assign labels to images on the screen. The device reads aloud the labels when the images are selected. Add labels to unlabelled images by using the local contextual menu.

Open the local contextual menu by dragging your finger upwards and then to the right on the screen without releasing it. Tap and hold the screen and a draw a circle around the menu with your finger to explore the menus. When you hear the add label menu, release your finger to add labels.

To view the labels, on the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings** → **Manage customised labels**.

Configuring settings for TalkBack

Configure settings for TalkBack for your convenience.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **TalkBack** → **Settings**. Alternatively, open the global contextual menu by dragging your finger downwards and then to the right on the screen without releasing it. Then, drag your finger to the top right of the screen and release it when you hear **TalkBack Settings**.

- **Speech volume**: Adjust the volume level for voice feedback.

  Voice feedback volume can vary depending on the media volume. To adjust the media volume, press the Volume button up or down while listening to voice feedback. Or, on the Apps screen, tap **Settings** → **Sound** → **Volume**, and then drag the volume adjustment bar for the media content to the left or right.
- **Use pitch changes**: Set the device to read aloud text at a low pitch when it is entered using a keyboard.
- **Keyboard echo**: Set the device to read aloud text or symbols entered using a keyboard. You can also set the type of keyboard to apply this feature to.
- **Speak when screen is off**: Set the device to provide voice feedback when the screen is turned off.
- **Use proximity sensor**: Set the device to pause voice feedback when you place your hand over the sensor at the top of the device. To resume voice feedback, tap the screen.
- **Shake to start continuous reading**: Set the device to read aloud the text displayed on the screen when you shake the device. You can select from various shaking speeds.
- **Speak caller ID**: Set the device to read the caller's name aloud when you have an incoming call.
- **Vibration feedback**: Set the device to vibrate when you explore the screen.
- **Sound feedback**: Set the device to emit a sound when you control the screen, such as scrolling the screen, and more.

- **Focus speech audio**: Set the device to turn the media volume down when the device reads an item aloud.
- **Sound volume**: Adjust the volume that sound is played when you touch the screen to control it. This feature is available when **Sound feedback** is selected.
- **Explore by touch**: Set the device to read aloud the items under your finger. For example, when you tap **Apps** on the Home screen with your finger, the device reads out "**Apps**". To select **Apps**, release your finger from it and tap anywhere on the screen twice quickly. You can move to the page you want by scrolling the screen left or right with two fingers. To learn about controlling the screen using the explore by touch feature, refer to Controlling the screen with finger gestures for details.
- **Automatically scroll lists**: Set the device to automatically scroll through the rest of the list not displayed on the screen and read the items aloud.
- **Single-tap selection**: Set the device to open the selected item by tapping it once.
- **Launch "Explore by touch" tutorial**: View the tutorial about using the Explore by touch feature.
- **Manage gestures**: Assign actions to perform using finger gestures. Refer to Configuring finger gesture settings for details.
- **Manage customised labels**: View the labels you added.
- **Resume from suspend**: Select a method to resume voice feedback.
- **Developer settings**: Set options for app development.

Using the rapid key input feature

Set the device to enter a character when you release your finger from the character on the keyboard. You can use this feature to enter characters instead of releasing your finger and double-tapping on the screen.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tick **Rapid key input**.

Reading passwords aloud

Set the device to read the password aloud when you enter the password while TalkBack is activated. Use this feature to make sure that you are entering the right password.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tick **Speak passwords**.

Setting text-to-speech features

Change the settings for text-to-speech features used when TalkBack is activated, such as languages, speed, and more.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Text-to-speech options**, and then use the following functions:

- **Samsung text-to-speech engine** / **Google Text-to-speech engine**: Select an engine for the text-to-speech feature.
- **Speech rate**: Select a speed for the text-to-speech feature.
- **Listen to an example**: Listen to the spoken text for an example. If the device cannot read examples aloud, tap ⚙ → **Install voice data** to download and install voice data for the text-to-speech feature.
- **Default language status**: View the status of the current language set for the text-to speech feature.

Entering text using the keyboard

To display the keyboard, tap the text input field, and then tap anywhere on the screen twice quickly.

When you touch the keyboard with your finger, the device reads aloud the character buttons under your finger. When you hear the character you want, release your finger from the screen to select it. The character is entered and the device reads the text aloud.

If **Rapid key input** is not activated, release your finger from the character you want, and then tap anywhere on the screen twice quickly. To activate the rapid input feature, on the Apps screen, tap **Settings** → **Accessibility** → **Vision**, and then tick **Rapid key input**.

Entering additional characters

Tap and hold a button on the keyboard. If additional characters are available via the button, a pop-up window appears above the keyboard showing the characters. To select a character, drag you finger on the screen until you hear the character you want, and then release it.

Changing keyboard input language

To add input languages, on the Apps screen, tap **Settings** → **Language and input**. Then, tap ⚙ next to **Samsung keyboard** → **Select input languages**, and then select languages.

To change the keyboard input language while entering text, tap and hold 🌐, and then select a language.

Editing text

Use the local contextual menu to move the cursor or copy and paste text.

Open the local contextual menu by dragging your finger upwards and then to the right on the screen without releasing it. Tap and hold the screen and draw a circle around the menu with your finger to explore the menu. Then, release your finger when you hear **Change granularity**. Tap the screen again and draw a circle around the menu to explore the menus. Then release your finger when you hear the reading unit you want.

When you edit text, set the reading unit to either word or character for your convenience. In selection mode, the device selects text according to the reading unit you selected.

Drag your finger up, down, left, or right to listen to the text. When the text you want to edit is read aloud, use the following actions:

- Deleting text: Tap the delete button on the keyboard.
- Selecting text using selection mode: Activate selection mode to select and listen to the text. To activate selection mode, open the local contextual menu and select **Cursor control** → **Start selection mode**. Scroll to the left or right to listen to the text before or next to the currently-selected text. To deactivate selection mode, open the local contextual menu and select **Cursor control** → **End selection mode**.

- Selecting entire text: Open the local contextual menu and select **Cursor control** → **Select all**. All text in the document will be selected.
- Copying or cropping text: Select text using the local contextual menu. Then, open the local contextual menu and select **Cursor control**. Select **Copy** to copy the selected text or select **Cut** to cut the selected text. The selected text is copied to the clipboard.
- Pasting text: Place the cursor at the point where the text should be inserted, open the local contextual menu, and then select **Cursor control** → **Paste**.

Entering text by voice

You can enter text by voice. To display the keyboard, tap the text input field, and then tap anywhere on the screen twice quickly.

When you tap and hold ⚙, the device displays a pop-up window showing the keyboard options. Drag your finger on the screen without releasing it. When 🎙 is selected, release your finger. Then, say the words that you want to enter in the text field. The spoken words appear as text on the screen and the device reads them aloud.

To enter additional text, select the microphone button and say the words.

Changing the input language

While entering text by voice, select **English (UK)** and select a language to change the input language.

To add languages to the list, select **English (UK)** → **Add more languages**, deselect **Automatic**, and then select languages you want.

Reading aloud information from documents or images

Take photos of documents or business cards and extract and read text from them. The device also reads colour and pattern information aloud when you take photos of coloured or patterned images. Access **Samsung Apps**, and download and install **Optical Reader**.

Tap **Optical Reader** on the Apps screen.

To select the languages to recognise, select ⋮ → **Language settings**.

Using document mode

The default mode of this app is document mode. When you are using colour/pattern mode, select to switch to document mode. In document mode, when you take photos of documents or business cards, the device displays the extracted text.

Place an object on a flat surface and select . When TalkBack is activated, the device automatically reads the text on the screen aloud after taking a photo.

To extract text from a stored image, select → **Load image**.

To read aloud the text on the screen when TalkBack is deactivated, select → **Text-to-speech**.

Using colour/pattern mode

To use colour/pattern mode, activate TalkBack.

Select to switch to colour/pattern mode. In colour/pattern mode, the device displays the colour and pattern information of objects when you take photos. The device identifies items, such as commonly-used colours and patterns. This mode helps visually impaired users to select the colours or patterns they want.

Capture the object within the device viewfinder and select . The device takes a photo and identifies the object's colour and pattern. When the device finishes identifying the object, it automatically reads aloud the object's colour and pattern information.

The colour information results may vary depending on the light conditions. Ensure that you take photos in colour and pattern mode in bright conditions.

Changing the font size

Use this feature to change the font size. The device provides various font sizes to make the device more convenient for visually impaired users. Setting the font size to **Huge** may not be available in some apps.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Font size**.

Magnifying the screen

Use this feature to magnify the screen and to zoom in on a specific area.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Magnification gestures**, and then drag the **Magnification gestures** switch to the right.

- Zooming in and out: Tap the screen three times quickly to zoom in on a specific area. Tap the screen three times quickly again to return.
- Exploring the screen by scrolling: Use two fingers to scroll through the magnified screen.
- Adjusting zoom ratio: Tap the screen with two fingers on the magnified screen. Then, spread two fingers apart or pinch them together to adjust the ratio.

- Keyboards on the screen cannot be magnified.
- When this feature is activated, the performance of some apps, such as **Phone** and **Calculator**, may be affected.

Setting notification reminders

Use this feature to alert you to notifications that you have not checked at the interval.

On the Apps screen, tap **Settings** → **Accessibility** → **Vision** → **Notification reminder**, and then drag the **Notification reminder** switch to the right.

To set an interval between alerts, tap **Reminder interval**.

Turning off all sounds

Set the device to mute all device sounds, such as media sounds, including the caller's voice during a call.

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing**, and then tick **Turn off all sounds**.

Customising caption settings

Samsung caption

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing** → **Samsung subtitles (CC)**, and then drag the **Subtitles (CC)** switch to the right.

Use the following options:

- **Alignment**: Change the position of the caption.
- **Font**: Change the font type.
- **Size**: Change the font size.
- **Edge**: Change the edge of the subtitle text.
- **Font**: Adjust the transparency and change the colour of the text.
- **Background**: Adjust the transparency and change the colour of the caption box background.
- **Caption window**: Adjust the transparency and change the colour of the caption window.

Google caption

On the Apps screen, **Settings** → **Accessibility** → **Hearing** → **Google subtitles (CC)**, and then drag the **Google subtitles (CC)** switch to the right.

Use the following options:

- **Language**: Select a display language for the caption.
- **Text size**: Change the font size.
- **Caption style**: Change the caption style.

Adjusting the sound balance

Set the device to adjust the sound balance when using a dual headset.

To adjust the sound balance, connect a dual headset to the device. On the Apps screen, tap **Settings** → **Accessibility** → **Hearing** → **Sound balance**. Drag the adjustment bar to the left or right and adjust the sound balance, and then tap **Set**.

Using mono audio

Set the device to enable mono sound when you listen to audio with one earbud. You can use this mode if you have hearing impairments or in situations when a single earbud is more convenient.

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing**, and then tick **Mono audio**.

Using auto haptic

Set the device to vibrate when playing sounds in downloaded apps, such as games.

On the Apps screen, tap **Settings** → **Accessibility** → **Hearing**, and then tick **Auto haptic**.

Some apps may not support this feature.

Using the assistive menus

Displaying the assistive shortcut icon

Set the device to display the assistive shortcut icon. You can use the icon to access apps, features, and settings by tapping assistive menus in the icon. Control the device by tapping the assistive menus in the icon without exploring the screen. When this feature is launched, **Single tap mode** is activated.

1 On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Assistant menu**.

2 Drag the **Assistant menu** switch to the right.

The assistive shortcut icon appears at the bottom right of the screen.

3 Tap **Dominant hand** to move the assistive shortcut icon to a convenient location.

Accessing assistive menus

The assistive shortcut icon appears as a floating icon to provide easy access to the assistive menus from any screen.

When you tap the assistive shortcut icon, the icon expands slightly and the assistive menus appear on the icon. Tap the up or down arrow to move to other panels or scroll the screen up or down to select other menus.

Using the cursor

On the assistive menu, tap **Cursor**. A cursor and a touch area where the cursor can be controlled are displayed on the screen. You can control the screen using small finger movements on the touch area. Drag your finger on the touch area to move the cursor. Also, tap the screen to select items under the cursor.

Use the following options:

- « / » : Select an item or scroll left or right on the screen.
- ⌃ / ⌄ : Scroll up or down the screen.
- ✥ : Move the touch area to another location.
- ✕ : Close the touch area.

To change the cursor settings, on the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Assistant menu**, drag the **Assistant menu** switch to the right, and then use options under **TOUCHPAD AND CURSOR SEETTINGS**.

Using enhanced assistive menus

Set the device to display enhanced assistive menus for selected apps. For example, when you launch **Messages**, searching and composing functions appear on the assistive menu.

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Assistant menu** → **Assistant plus**, drag the **Assistant plus** switch to the right, and then select apps.

Editing the assistive menus

You can use this feature to edit menus in the assistive shortcut icon.

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Assistant menu**, drag the **Assistant menu** switch to the right, and then tap **Edit**. To add or delete menus, tap ⊕ or ⊖.

Using the smart scroll feature

Set the device to scroll the screen up or down by tilting your head or the device. You can use this feature while viewing emails or webpages.

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Smart scroll**, and then drag the **Smart scroll** switch to the right.

Use the following options:

- **Tilting head**: Set the device to scroll the screen up or down when you tilt your head upwards or downwards.
- **Tilting device**: Set the device to scroll the screen up or down when you tilt the device forwards or backwards.
- **Scroll Speed**: Adjust the speed for scrolling the screen.
- **Visual feedback display**: Set the device to display a visual feedback icon when the device recognises your action.

Setting tap and hold delay options

Set the recognition time for tapping and holding the screen.

On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Tap and hold delay**, and then select an option.

Using interaction control mode

Activate interaction control mode to restrict the device's reaction to inputs while using apps. Use this mode when you want to allow others only limited access and control of your media or data.

1 On the Apps screen, tap **Settings** → **Accessibility** → **Dexterity and interaction** → **Interaction control**.

2 Drag the **Interaction control** switch to the right.

3 Press and hold the Home button and the Volume button down simultaneously while using an app.

4 Adjust the size of the frame or draw a line around an area that you want to restrict.

5 Tap **Done**.

The device displays the restricted area. If you tap the screen or press buttons, such as the Home button, they will not work in this area.

To deactivate interaction control mode, press and hold the Home button and the Volume button down simultaneously.

Answering or ending calls

Set the method for answering or ending calls.

On the Apps screen, tap **Settings** → **Accessibility** → **Answering and ending calls**.

Use the following options:

- **Pressing the home key**: Set the device to answer a call when you press the Home button.
- **Using voice commands**: Set the device to answer a call with voice commands.
- **Pressing the power key**: Set the device to end a call when you press the Power button.

Using single tap mode

Set the device to control incoming calls or notifications by tapping the button instead of dragging it. When an alarm sounds or a call comes in, tap the button to stop the alarm or answer the call instead of dragging the button.

On the Apps screen, tap **Settings** → **Accessibility**, and then tick **Single tap mode**.

Configuring accessibility settings

Saving accessibility settings in a file

Export the current accessibility settings in a file.

On the Apps screen, tap **Settings** → **Accessibility** → **Manage accessibility** → **Import/Export**, select an export option, and then tap **OK**. The accessibility settings file is saved to the selected storage location.

Importing an accessibility settings file

Import an accessibility settings file and update the current settings.

On the Apps screen, tap **Settings** → **Accessibility** → **Manage accessibility** → **Import/Export**, and then select an import option. Select a file to import and tap **Done** → **OK**. The accessibility settings will be updated according to the imported file.

Sharing accessibility settings files

Share accessibility settings files with others via email, Wi-Fi Direct, Bluetooth, and more.

On the Apps screen, tap **Settings** → **Accessibility** → **Manage accessibility** → **Share via**. Then, select accessibility files and tap **Done**. Select a sharing method and follow the on-screen instructions to share the files.

Viewing accessibility services

View accessibility services installed on the device.

On the Apps screen, tap **Settings** → **Accessibility**, and view the list of accessibility services available in **SERVICES**.

Using other useful features

- Using S Voice: You can use **S Voice** to perform various functions using voice commands. Launch **S Voice** and make calls, send messages, and view tasks. Refer to Adjusting the sound balance for details.
- Searching by voice: Use voice commands to search for webpage content. Use this feature when you are on the move and cannot use your hands to enter text. Refer to Using mono audio for details.
- Using notifications panel: Drag the status bar downwards to open the notifications panel. You can view missed calls, new messages, adjust screen brightness, and more. Refer to Notifications and quick setting panels for details.
- Switching to easy mode: Easy mode uses a simpler layout and large icons to provide an easy user experience. You can add frequently-used apps or shortcuts to the Home screen for easier access. Refer to Switching to easy mode for details.
- Using control motions: Control the device with palm motions or gestures. Refer to Control motions for details.
- Using shortcuts to contacts: Add shortcuts to contacts on the Home screen to make calls or send messages more conveniently. Refer to Adding shortcuts for contacts to the Home screen for details.
- Using voice recorder: Record or play voice memos. Refer to Voice Recorder for details.

Troubleshooting

Before contacting a Samsung Service Centre, please attempt the following solutions. Some situations may not apply to your device.

The subject's eyes appear red

Red eyes occur when the subject's eyes reflect light from the camera flash.

Set the flash option to **Red-eye** or **Red-eye fix**.

Photos have dust spots

If dust particles are present in the air, you may capture them in photos when you use the flash.

- Turn the flash off or avoid taking photos in a dusty place.
- Adjust the ISO sensitivity.

Photos are blurred

Blurring can occur if you take photos in low-light conditions or hold the device incorrectly.

- Half-press the Shutter button to ensure the subject is focused.
- Set the image stabiliser option.

Photos are blurred when shooting at night

As the camera tries to let in more light, the shutter speed slows. This can make it difficult to hold the camera steady long enough to take a clear picture and may result in device shake.

- Set **Night** in night mode.
- Turn the flash on.
- Adjust the ISO sensitivity.

Subjects come out too dark because of backlighting

When the light source is behind the subject or when there is a high contrast between light and dark areas, the subject may appear too dark.

- Avoid shooting toward the sun.
- Set the flash option to **Fill in**.
- Adjust the exposure value.
- Set the metering option to **Spot** if a subject is in the centre of the frame.

When you cannot turn on the device

- Ensure that the battery is inserted. Refer to Installing the SIM or USIM card and battery for details.
- Charge the battery.

When you cannot take photos or videos

- Your storage may be full. Delete unnecessary files, or insert a new memory card.
- Format the memory card.
- The memory card may be defective. Purchase a new card.
- Ensure that the device is turned on.
- Charge the battery.
- Ensure that the battery is inserted. Refer to Installing the SIM or USIM card and battery for details.

When the flash is not functional

- The flash option may be set to **Off**.
- In some modes, the flash is disabled.

When the flash fires unexpectedly

The flash may fire unexpectedly due to static electricity. The device is not malfunctioning.

When the colours in the photo do not match the actual scene

Select an appropriate white balance option to suit the light source. Refer to WB (light source) for details.

When the photo is too bright

- Turn the flash off.
- Adjust the ISO sensitivity.
- Adjust the exposure value. Refer to EV (brightness) for details.

When the photo is too dark

- Turn the flash on.
- Adjust the ISO sensitivity.
- Adjust the exposure value. Refer to EV (brightness) for details.

When you turn on your device or while you are using the device, it prompts you to enter one of the following codes:

- Password: When the device lock feature is enabled, you must enter the password you set for the device.
- PIN: When using the device for the first time or when the PIN requirement is enabled, you must enter the PIN supplied with the SIM or USIM card. You can disable this feature by using the Lock SIM card menu.
- PUK: Your SIM or USIM card is blocked, usually as a result of entering your PIN incorrectly several times. You must enter the PUK supplied by your service provider.
- PIN2: When you access a menu requiring the PIN2, you must enter the PIN2 supplied with the SIM or USIM card. For details, contact your service provider.

Your device displays network or service error messages

- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again. While moving, error messages may appear repeatedly.
- You cannot access some options without a subscription. Contact your service provider for more details.

Your device does not turn on

- When the battery is completely discharged, your device will not turn on. Charge the battery completely before turning on the device.
- The battery may not be inserted properly. Insert the battery again.
- Wipe both gold-coloured contacts and insert the battery again.

The touch screen responds slowly or improperly

- If you attach a protective cover or optional accessories to the touch screen, the touch screen may not function properly.
- If you are wearing gloves, if your hands are not clean while touching the touch screen, or if you tap the screen with sharp objects or your fingertips, the touch screen may malfunction.
- The touch screen may malfunction in humid conditions or when exposed to water.
- Restart your device to clear any temporary software bugs.
- Ensure that your device software is upgraded to the latest version.
- If the touch screen is scratched or damaged, visit a Samsung Service Centre.

Your device freezes or has fatal errors

If your device freezes or hangs, you may need to close applications or reinsert the battery and turn on the device to regain functionality. If your device is frozen and unresponsive, press and hold the Power button and the Volume button down simultaneously for more than 7 seconds to restart.

If this does not solve the problem, perform a factory data reset. On the Apps screen, tap **Settings** → **Backup and reset** → **Factory data reset** → **Reset device** → **Erase everything**. Before performing the factory data reset, remember to make back up copies of all important data stored on the device.

If the problem is still not resolved, contact a Samsung Service Centre.

Calls are not connected

- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number you are dialling.
- Ensure that you have not set call barring for the incoming phone number.

Others cannot hear you speaking on a call

- Ensure that you are not covering the built-in microphone.
- Ensure that the microphone is close to your mouth.
- If using a headset, ensure that it is properly connected.

Sound echoes during a call

Adjust the volume by pressing the Volume button or move to another area.

A cellular network or the Internet is often disconnected or audio quality is poor

- Ensure that you are not blocking the device's internal antenna.
- When you are in areas with weak signals or poor reception, you may lose reception. You may have connectivity problems due to issues with the service provider's base station. Move to another area and try again.
- When using the device while moving, wireless network services may be disabled due to issues with the service provider's network.

The battery icon is empty

Your battery is low. Recharge or replace the battery.

The battery does not charge properly (For Samsung-approved chargers)

- Ensure that the charger is connected properly.
- If the battery terminals are dirty, the battery may not charge properly or the device may turn off. Wipe both gold-coloured contacts and try charging the battery again.
- The batteries in some devices are not user-replaceable. To have the battery replaced, visit a Samsung Service Centre.

The battery depletes faster than when first purchased

- When you expose the battery to very cold or very hot temperatures, the useful charge may be reduced.
- Battery consumption increases when you use messaging features or some applications, such as games or the Internet.
- The battery is consumable and the useful charge will get shorter over time.

Your device is hot to the touch

When you use applications that require more power or use applications on your device for an extended period of time, your device may feel hot to the touch. This is normal and should not affect your device's lifespan or performance.

Error messages appear when launching the camera

Your device must have sufficient available memory and battery power to operate the camera application. If you receive error messages when launching the camera, try the following:

- Charge the battery or replace it with a battery that is fully charged.
- Free some memory by transferring files to a computer or deleting files from your device.
- Restart the device. If you are still having trouble with the camera application after trying these tips, contact a Samsung Service Centre.

Photo quality is poorer than the preview

- The quality of your photos may vary, depending on the surroundings and the photography techniques you use.
- If you take photos in dark areas, at night, or indoors, image noise may occur or images may be out of focus.

Error messages appear when opening multimedia files

If you receive error messages or files do not play, when opening multimedia files on your device, try the following:

- Free some memory by transferring files to a computer or deleting files from your device.
- Ensure that the music file is not Digital Rights Management (DRM)-protected. If the file is DRM-protected, ensure that you have the appropriate licence or key to play the file.
- Ensure that the file formats are supported by the device. If a file format is not supported, such as DivX or AC3, install an application that supports it. To confirm the file formats that your device supports, visit www.samsung.com.
- Your device supports photos and videos captured with the device. Photos and videos captured by other devices may not work properly.
- Your device supports multimedia files that are authorised by your network service provider or providers of additional services. Some content circulated on the Internet, such as ringtones, videos, or wallpapers, may not work properly.

Another Bluetooth device is not located

- Ensure that the Bluetooth wireless feature is activated on your device.
- Ensure that the Bluetooth wireless feature is activated on the device you wish to connect to.
- Ensure that your device and the other Bluetooth device are within the maximum Bluetooth range (10 m).

If the tips above do not solve the problem, contact a Samsung Service Centre.

A connection is not established when you connect the device to a computer

- Ensure that the USB cable you are using is compatible with your device.
- Ensure that you have the proper driver installed and updated on your computer.
- If you are a Windows XP user, ensure that you have Windows XP Service Pack 3 or higher installed on your computer.
- Ensure that you have Samsung Kies or Windows Media Player 10 or higher installed on your computer.

Your device cannot find your current location

GPS signals may be obstructed in some locations, such as indoors. Set the device to use Wi-Fi or a mobile network to find your current location in these situations.

Data stored on the device has been lost

Always make backup copies of all important data stored on the device. Otherwise, you cannot restore data if it is corrupted or lost. Samsung is not responsible for the loss of data stored on the device.

A small gap appears around the outside of the device case

- This gap is a necessary manufacturing feature and some minor rocking or vibration of parts may occur.
- Over time, friction between parts may cause this gap to expand slightly.

using this manual

This user manual has been specially designed to guide you through the functions and features of your mobile phone. To get started quickly, refer to “introducing your mobile phone,

Instructional icons

Before you start, familiarise yourself with the icons you will see in this manual:

WARNING Warning—situations that could cause injury to yourself or others

CAUTION Caution—situations that could cause damage to your phone or other equipment

Note—notes, usage tips, or additional information

Refer to—pages with related information; for example: p. 12 (represents “see page 12”)

Õ Followed by—the order of options or menus you must select to perform a step; for example: In Menu mode, select Messages Õ Create new message (represents Messages, followed by Create new message)

[ ] Square brackets—phone keys; for example: [ ](represents the Power/ Menu exit key)

< > Angled brackets—softkeys that control different functions at each screen; for example: <OK> (represents the OK softkey)

Copyright information

Rights to all technologies and products that comprise this device are the property of their respective owners:

- Bluetooth® is a registered trademark of the Bluetooth SIG, Inc. worldwide
- Java™ is a trademark of Sun Microsystems, Inc.
- Windows Media Player® is a registered trademark of Microsoft Corporation.

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safety and usage information

Comply with the following precautions to avoid dangerous or illegal situations and ensure peak performance of your mobile phone.

WARNING Safety warnings

Keep your phone away from small children and pets

Keep your phone and all accessories out of the reach of small children or animals. Small parts may cause choking or serious injury if swallowed.

Protect your hearing

Excessive exposure to sound at high volumes can cause hearing damage. Always turn the volume down before plugging the earphones into an audio source and use only the minimum volume setting necessary to hear your conversation or music.

Install mobile phones and equipment with caution

Ensure that any mobile phones or related equipment installed in your vehicle are securely mounted. Avoid placing your phone and accessories near or in an air bag deployment area. Improperly installed wireless equipment can cause serious injury when air bags inflate rapidly.

Handle and dispose of batteries and chargers with care

- Use only Samsung-approved batteries and chargers specifically designed for your phone. Incompatible batteries and chargers can cause serious injuries or damage to your phone.
- Never dispose of batteries or phones in a fire. Follow all local regulations when disposing used batteries or phones.
- Never place batteries or phones on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when overheated.
- Never crush or puncture the battery. Avoid exposing the battery to high external pressure, which can lead to an internal short circuit and overheating.

Avoid interference with pacemakers

Maintain a minimum of 15 cm (6 inches) between mobile phones and pacemakers to avoid potential interference, as recommended by manufacturers and the independent research group, Wireless Technology Research. If you have any reason to suspect that your phone is interfering with a pacemaker or other medical device, turn off the phone immediately and contact the manufacturer of the pacemaker or medical device for guidance.

Turn off the phone in potentially explosive environments

Do not use your phone at refuelling points (service stations) or near fuels or chemicals. Turn off your phone whenever directed by warning signs or instructions. Your phone could cause explosions or fire in and around fuel or chemical storage and transfer areas or blasting areas. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the phone, its parts, or accessories.

Reduce the risk of repetitive motion injuries

When sending text messages or playing games on your phone, hold the phone with a relaxed grip, press the keys lightly, use special features that reduce the number of keys you have to press (such as templates and predictive text), and take frequent breaks.

CAUTION Safety precautions

Drive safely at all times

Avoid using your phone while driving and obey all regulations that restrict the use of mobile phones while driving. Use hands-free accessories to increase your safety when possible.

Follow all safety warnings and regulations

Comply with any regulations that restrict the use of a mobile phone in a certain area.

Use only Samsung-approved accessories

Using incompatible accessories may damage your phone or cause injury.

Turn off the phone near medical equipment

Your phone can interfere with medical equipment in hospitals or health care facilities. Follow all regulations, posted warnings, and directions from medical personnel.

Turn off the phone or disable the wireless functions when in an aircraft

Your phone can cause interference with aircraft equipment. Follow all airline regulations and turn off your phone or switch to a mode that disables the wireless functions when directed by airline personnel.

Protect batteries and chargers from damage

Avoid exposing batteries to very cold or very hot temperatures (below 0° C/32° F or above 45° C/ 113° F). Extreme temperatures can reduce the charging capacity and life of your batteries.

Prevent batteries from contacting metal objects, as this can create a connection between the + and - terminals of your batteries and lead to temporary or permanent battery damage.

Never use a damaged charger or battery.

Handle your phone carefully and sensibly

Do not allow your phone to get wet—liquids can cause serious damage. Do not handle your phone with wet hands. Water damage to your phone can void your manufacturer's warranty.

- Avoid using or storing your phone in dusty, dirty areas to prevent damage to moving parts.
- Your phone is a complex electronic device— protect it from impacts and rough handling to avoid serious damage.
- Do not paint your phone, as paint can clog moving parts and prevent proper operation.
- Avoid using the phone's camera flash or light close to the eyes of children or animals.
- Your phone and memory cards may be damaged by exposure to magnetic fields. Do not use carrying cases or accessories with magnetic closures or allow your phone to come in contact with magnetic fields for extended periods of time.

Avoid interference with other electronic devices

Your phone emits radio frequency (RF) signals that may interfere with unshielded or improperly shielded electronic equipment, such as pacemakers, hearing aids, medical devices, and other electronic devices in homes or vehicles. Consult the

manufacturers of your electronic devices to solve any interference problems you experience.

Important usage information

Use your phone in the normal position

Avoid contact with your phone's internal antenna.

Allow only qualified personnel to service your phone

Allowing unqualified personnel to service your phone may result in damage to your phone and will void your warranty.

Ensure maximum battery and charger life

- Avoid charging batteries for more than a week, as overcharging may shorten battery life.
- Over time, unused batteries will discharge and must be recharged before use.
- Disconnect chargers from power sources when not in use.
- Use batteries only for their intended purpose.

Handle SIM cards and memory cards with care

- Do not remove a card while the phone is transferring or accessing information, as this could result in loss of data and/or damage to the card or phone.
- Protect cards from strong shocks, static electricity, and electrical noise from other devices.
- Frequent writing and erasing will shorten the life span of memory cards.
- Do not touch gold-coloured contacts or terminals with your fingers or metal objects. If dirty, wipe the card with a soft cloth.

Ensure access to emergency services

Emergency calls from your phone may not be possible in some areas or circumstances. Before travelling in remote or undeveloped areas, plan an alternate method of contacting emergency services personnel.

Health and safety information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

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 exposure limits are derived from the recommendations of two expert organizations, the National Counsel 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 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 exposure 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 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.

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 exposure 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 model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.0 cm from the body.

Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

SAR information on this and other model phones can be viewed on-line at http://www.fcc.gov/oet/ea/fccid/. Please use the phone FCC ID number for search, A3LSMC115M. 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 product specific SAR information can also be obtained at **http://www.fcc.gov/encyclopedia/specific-absorption-rate-sar-cellular-telephones**

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF 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. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

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

- “Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- “Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- “Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- “National Institute for Occupational Safety and Health

- “Environmental Protection Agency
- “Federal Communications Commission
- “Occupational Safety and Health Administration
- “National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of

epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - 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 exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- “If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in

the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that 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 “hand-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. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will

conduct testing to assess the interference and work to resolve the problem.
Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program: http://www.fcc.gov/oet/rfsafety/
- Environmental Protection Agency (EPA): http://www.epa.gov/radiation/
- Occupational Safety and Health Administration's (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/index.html
- National institute for Occupational Safety and Health (NIOSH): http://www.cdc.gov/niosh/
- World health Organization (WHO): http://www.who.int/peh-emf/
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de
- National Radiation Protection Board (UK): http://www.hpa-radiationservices.org.uk/rpa
- Updated 4/3/2002: US food and Drug Administration http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.
When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a “to do” list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your phone safely when driving."
For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com
Provided by the Cellular Telecommunications & Internet Association

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.
As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position.

Using Your Phone 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 phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker.
These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

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 phone 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. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

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

Potentially Explosive Environments

Switch your phone 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 phone 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.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/ or phone features are in use. Check with local service providers.

To make an emergency call:

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

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this

document 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 phone 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.

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

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.

- 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.

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone 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, One Battery march Park, Quincy, MA 02269, Attn: Publication Sales Division.

Cautions

Changes or modifications made in the radio phone, not expressly approved by Samsung, will void the user's authority to operate the equipment.

The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone 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 phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.
- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, 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 both installed or portable wireless equipment 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 phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- Place the mobile phone's acoustic output next to your ear for proper orientation.
- Do not tamper or alter the phone's antenna.
- Don't use the phone if the antenna is damaged.
- Speak directly into the phone's receiver.
- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery. If it is inoperable, call Customer Care for service.

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

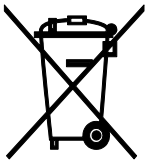
- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not short-circuit the battery. Accidental short- circuiting can occur when a metallic object (coin, 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.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone 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 the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.
- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- When the phone or battery gets wet, the label indicating water damage inside the phone changes color. In this case, phone repairs are no longer guaranteed by the manufacturer's warranty, even if the warranty for your phone has not expired.
- If your phone has a flash or light, do not use it too close to the eyes of people or animals. This may cause damage to their eyes.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.



Correct disposal of this product

(Waste Electrical & Electronic Equipment)

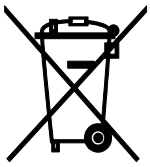
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be

disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

introducing your mobile phone

In this section, learn about your mobile phone's layout, keys, display, and icons

Unpack

Check your product box for the following items:

- Mobile phone
- Battery
- Travel adapter (charger)
- User manual

The items supplied with your phone may vary depending on the software and accessories available in your region or offered by your service provider. You can obtain additional accessories from your local Samsung dealer.

Phone layout

The front of your phone includes the following keys and features:

The rear of your phone includes the following keys and features:

Keys

Key	Function
Softkeys	Perform actions indicated at the bottom of the display; In Idle mode, press and hold the left softkey to access the simplified menus
4-way navigation	In Idle mode, access user-defined menus (left/right/up/down); In Menu mode, scroll through menu options
Confirm	In Idle mode, launch the web browser; In Menu mode, select the highlighted menu option or confirm an input
Dial	Make or answer a call; In Idle mode, retrieve recently dialled, missed, or received numbers
Power/ Menu exit	Turn the phone on and off (press and hold); End a call; In Menu mode, cancel input and return to Idle mode
Alpha-numeric	Enter numbers, letters and special characters; In Idle mode, press and hold [1] to access voice mails and [0] to enter an international call prefix
Special function	Enter special characters or perform special functions; In Idle mode, press and hold [#] for the silent profile; Press and hold [*] to enter a pause between numbers
Volume	Adjust the phone's volume

Display

Your phone's display consists of three areas:

Icon line

Displays various icons

Text and graphic area

Displays messages, instructions, and information you enter

Softkey line

Displays the current actions assigned to each softkey

Icons

Learn about the icons that appear on your display.

Definition

Signal strength
Call in progress
New text message

assembling and preparing your mobile phone

Get started by assembling and setting up your mobile phone for its first use.

Install the SIM card and battery

When you subscribe to a cellular service, you will receive a Subscriber Identity Module, or SIM card, with subscription details, such as your personal identification number (PIN) and optional services.

To install the SIM card and battery,

1. Remove the battery cover. If the phone is on, press and hold [ ] to turn it off.
2. Insert the SIM card. Place the SIM card in the phone with the gold-coloured contacts facing down.
3. Insert the battery.
4. Replace the battery cover.

Charge the battery

Before using the phone for the first time, you must charge the battery.

1. Open the cover to the multifunction jack on the side of the phone.
2. Plug the small end of the travel adapter into the multifunction jack. Improperly connecting the travel adapter can cause serious damage to the phone. Any damages by misuse are not covered by the warranty.
3. Plug the large end of the travel adapter into a power outlet.
4. When the battery is fully charged (the [|||||] icon is no longer moving), unplug the travel adapter from the power outlet.
5. Unplug the travel adapter from the phone.
6. Close the cover to the multifunction jack.

About the low battery indicator

When your battery is low, the phone will emit a warning tone and a low battery message. The battery icon will also be empty and blinking. If the battery level becomes too low, the phone will automatically power off. Recharge your battery to continue using your phone.

using basic functions

Learn how to perform basic operations and use the main features of your mobile phone.

Turn your phone on and off

To turn your phone on,

1. Slide open the phone.
2. Press and hold [ ].
3. Enter your PIN and press <OK> (if necessary).
4. When the setup wizard opens, customise your phone as desired by following the screen.

To turn your phone off, repeat steps 1 and 2 above.

Switch to the offline profile

By switching to the offline profile, you can use your phone's non-network services in areas where wireless devices are prohibited, such as aeroplane and hospitals.

To switch to the offline profile, in Menu mode, select Settings Õ Phone profiles Õ Offline.

Follow all posted warnings and directions from official personnel when in areas where wireless devices are prohibited.

Access menus

To access your phone's menus,

1. In Idle mode, press <Menu> to access Menu mode.
2. Use the navigation key to scroll to a menu or option.
3. Press [OK], <Select>, or <Save> to confirm the highlighted option.
4. Press <Back> to move up one level; Press [ ] to return to Idle mode.

Customise your phone

Get more from your phone by customising it to match your preferences.

Adjust the volume of the key tones

In Idle mode, press the Volume key up or down to adjust the key tone volume.

Switch to or from the silent profile

In Idle mode, press and hold [#] to silence or unsilence your phone.

Change your ringtone

1. In Menu mode, select Settings Õ Phone profiles .
2. Scroll to the profile you are using.
3. Press <Options> Õ Edit Õ Voice call ringtone.
4. Select a ringtone category Õ a ringtone.
5. Press <Options> Õ Select (if necessary).
6. Press <Save>.

To switch to another profile, select it from the list.

Create a phone profile

1. In Menu mode, select Settings Õ Phone profiles .
2. Press <Options> Õ Create.
3. Enter a name for the profile and press <Options> Õ Save.
4. Customise the sound settings as desired.
5. When you are finished, press <Save>.
6.

Select a wallpaper (Idle mode)

1. In Menu mode, select Settings Õ Display and light Õ Home screen.
2. Scroll left or right to Images.
3. Select Wallpaper.
4. Select an image category Õ an image.
5. Press <Select> or <Select> Õ <Set>.
6. Press <Save>.

Select a theme for the display

To select a theme,

1. In Menu mode, select Settings Õ Display and light Õ My theme.
2. Scroll to a theme and press <Select>.

To create and apply a theme,

1. In Menu mode, select Settings Õ Display and light Õ My theme.
2. Scroll to Create and press <Select>.
3. Customise the theme as desired by following the screen.
4. When you have finished, enter a name for the theme and press <Save>.
5. Press <Yes> to apply the theme.

Set menu shortcuts

1. In Menu mode, select Settings Õ Phone settings Õ Shortcuts.
2. Select a key to use as a shortcut.
3. Select a menu to assign to the shortcut key.

Use the simplified menus

To set up simplified menu items,

1. In Idle mode, press [OK].
2. Press <Options> Õ Customise menu.
3. Select your favourite menus.
4. Press <Options> Õ Open to select submenus (if necessary).
5. Press <Save>.
6. To access an item from the simplified menus,
7. In Idle mode, press [OK].
8. Scroll to the menu item you want and press [OK].

Lock your phone

1. In Menu mode, select Settings Õ Security Õ Phone lock Õ On.
2. Enter a new 4- to 8-digit password and press <OK>.
3. Enter the new password again and press <OK>.

Use basic call functions

Learn to make or answer calls and use basic call functions.

Make a call

1. In Idle mode, enter an area code and a phone number.
2. Press [ ] to dial the number
3. To end the call, press [ ].

Answer a call

1. When a call comes in, press [ ].
2. To end the call, press [ ].

Adjust the volume

To adjust the volume during a call, press the Volume key up or down.

Use the speakerphone feature

1. During a call, press [OK] Õ <Yes> to activate the speaker.
2. To switch back to the earpiece, press [OK] again.

In noisy environment, you may have difficulty hearing the calls while using the speakerphone feature. For better performance, use the normal phone mode.

Use the headset

By plugging the supplied headset into the multifunction jack, you can make and answer calls:

- To redial the last call, press and hold the headset button.
- To answer a call, press the headset button.
- To end a call, press the headset button.

Send and view messages

Learn to send or view text (SMS), multimedia (MMS), or email messages.

Send a text or multimedia message

1. In Menu mode, select Messages Õ Create new message Õ Message.
2. Enter a destination number or an email address and scroll down.
3. Enter your message text. p.
4. For sending as a text message, skip to step 5.
   For attaching multimedia, continue with step 4.
5. Press <Options> Õ Add multimedia and add an item.
6. Press [OK] Õ Send to send the message.

Send an email

1. In Menu mode, select Messages Õ Create new message Õ Email.
2. Enter an email address and scroll down.
3. Enter a subject and scroll down.
4. Enter your email text.
5. Press <Options> Õ Attach multimedia and attach a file (if necessary).
6. Press [OK] Õ Send to send the message.

Enter text

When entering text, you can change the text input mode:

- Press and hold [*] to switch between T9 and ABC modes. Depending on your country, you may be able to access an input mode for your specific language.
- Press [*] to change case or switch to Number mode.
- Press and hold [#] to switch to Symbol mode.

Enter text in one of the following modes:

Mode	Function
ABC	Press the appropriate alphanumeric key until the character you want appears on the display.
T9	1. Press the appropriate alphanumeric keys to enter an entire word. 2. When the word displays correctly, press [0] to insert a space. If the correct word does not display, select an

	alternate word from the list that appears.
Number	Press the appropriate alphanumeric key to enter a number.
Symbol	Press the appropriate alphanumeric key to select a symbol.

View text or multimedia messages

1. In Menu mode, select Messages Õ My messages Õ Inbox.
2. Select a text or multimedia message.

View an email

1. In Menu mode, select Messages Õ My messages Õ Email inbox.
2. Select Check new email.
3. Select an email or a header.
4. If you selected a header, press <Options> Õ Retrieve to view the body of the email.

Add and find contacts

Learn the basics of using the phonebook feature.

Add a new contact

1. In Idle mode, enter a phone number and press <Options>.
2. Select Save Õ a memory location (phone or SIM) Õ New.
3. Select a number type (if necessary).
4. Enter contact information.
5. Press <Options> Õ Save to add the contact to memory.

Find a contact

1. In Menu mode, select Phonebook.
2. Enter the first few letters of the name you want to find.
3. Select the contact's name from the search list.

Once you have found a contact, you can:

- call the contact by pressing []
- edit the contact information by pressing [OK]

Connectivity

Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over a distance of about 10 m without requiring a physical connection.

You do not need to line up the devices to beam information with Bluetooth. If the devices are within range of one another, you can exchange information between them even if they are located in different rooms.

Samsung is not responsible for the loss, interception, or misuse of data sent or received via the Bluetooth wireless feature.

Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.

Some devices, especially those that are not tested or approved by Bluetooth SIG, may be incompatible with your device.

› Turn on the Bluetooth wireless feature

1 In Menu mode, select **Settings** →**Connectivity** → **Bluetooth**.

2 Select **Bluetooth** to turn on the Bluetooth wireless feature.

3 To allow other devices to locate your device, select → Settings → My phone's visibility → Always

› Turn off the Bluetooth wireless feature

1. In Menu mode, select **Settings** →**Connectivity** → **Bluetooth**.

2. Select **Bluetooth** to turn off the Bluetooth wireless feature.

If you selected **Custom**, enter duration that your device is visible and select **Done**.

Once the Bluetooth wireless feature is active, select and use the following options:

To change your device's name, select **Settings** → **My phone's name**.

To set limits on browsing your files to others, select **Settings** → **Secure mode**.

To check Bluetooth services available on your device and information about the services, select **Bluetooth services**.

› Find and pair with other Bluetooth-enabled devices

1 In Menu mode, select **Settings** →**Connectivity** → **Bluetooth** →**Search**.

2 Select a device.

3 Enter a PIN for the Bluetooth wireless feature or the other device's Bluetooth PIN, if it has one, and select **Done**. Alternatively, select **Yes** to match the PIN between your device and the device.
When the owner of the other device enters the same PIN or accepts the connection, pairing is complete. If the pairing is successful, the device will automatically search for available services.

Some devices, especially headsets or hands-free car kits, may have a fixed Bluetooth PIN, such as 0000. If the other device has a PIN, you must enter it.

Once the device is paired with another Bluetooth-enabled device, the device icon will turn green.
Select a paired device and use the following options:

To browse files on the paired device, select **Browse files**.
To view the service list of the paired device, select **Service list**.
To change the paired device name, select **Rename**.
To allow the paired device to access and browse your files, select **Authorise device**.
To send your files to the paired device, select **Send My files**.
To end the connection and delete the paired device, select **Delete**.

› ›Send data using the Bluetooth wireless feature

1 Select a file or item, such as a contact, calendar event, memo, task, or media file, from an appropriate application or **My files**.

2 Select → an option for sending via Bluetooth. 3 Search for and pair with a Bluetooth-enabled device.

›Receive data using the Bluetooth wireless feature

1 Enter the PIN for the Bluetooth wireless feature and select **OK** (if necessary).

2 Select **Yes** to confirm that you are willing to receive data from the device (if necessary).

Received data is saved to an appropriate application or folder according to its type. For example, a music or sound clip is saved to the sound folder and a contact to the phonebook.

› Use Remote SIM mode

In Remote SIM mode, you can make or answer calls only with a connected Bluetooth hands-free car kit via the SIM or USIM card on your device. To activate Remote SIM mode,

1 In Menu mode, select **Settings** →**Connectivity** → **Bluetooth**.

2 Select → **Settings** → **Remote SIM mode**.

To use Remote SIM mode, start the Bluetooth connection from a Bluetooth hands-free car kit.

You must authorise the Bluetooth hands-free car kit.

Wi-Fi

Learn to use your device's wireless networking capabilities to activate and connect to any wireless local area network (WLAN) compatible with the IEEE 802.11 a/b/g/n standards.

You can connect to the internet or other network devices anywhere an access point or wireless hotspot is available.

Your device uses non-harmonised frequency and is intended for use in all European countries. The WLAN can be operated in the EU without restriction indoors, but cannot be operated outdoors in France.

› Activate the WLAN feature

In Menu mode, select **Settings** →**Connectivity** →**Wi-Fi**.

An active WLAN running in the background will consume battery power. To preserve battery power, activate the WLAN only when needed.

› Deactivate the WLAN feature

In Menu mode, select **Settings** →**Connectivity** →**Wi-Fi**.

› Find and connect to a WLAN

1 In Menu mode, select **Settings** →**Connectivity** →**Wi-Fi**. The device

will automatically search for available WLANs. 2 Select the check box next to a network. 3 Enter a password for the network and select **Done** (if necessary).

› Customise the connection profile

1 In Menu mode, select **Settings** →**Connectivity** →**Wi-Fi**. 2 Select the discovered WLAN AP. The current connection profile for the network appears. 3 Customise the connection profile of the selected WLAN:

Option	Function
Name	View the name of the profile.
Security type EAP method	View the security type of the WLAN AP. Select an EAP method. This option is available depending on the selected security type.
User name	Enter your user name. This option is available depending on the selected security type.
Password	Enter your password. This option is available depending on the selected security type.
IP address	View your IP address of the WLAN AP.
IP address type	Select the IP address type of the WLAN AP.

Option	Function
Proxy address and port	Enter the address and port number of the proxy server.
AP MAC	View the MAC address of the WLAN AP.

To delete all details of the connection profile, select **Forget**.

› Connect to a WLAN using a Wi-Fi Protected Setup (WPS)

1 In Menu mode, select **Settings** →**Connectivity** →**Wi-Fi**. 2 Select **WPS PBC** or **WPS PIN** depending on the AP device type.

3 Press a WPS button on the AP device within 2 minutes. Or, enter a PIN on the AP device and select **Start** within 2 minutes.

Mobile AP

Learn about the Mobile AP feature, which sets your device as an wireless AP (Access Point) to connect to the internet on other network devices.

1 In Menu mode, select **Settings** → **Connectivity** → **Mobile AP**.

2 Select **Mobile AP** on the top to activate the Mobile AP feature.

3 Select **OK** to confirm.

Wi-Fi direct

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

Turning Wi-Fi Direct On or Off

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

Configuring Wi-Fi direct

1.From the Home screen, touch Menu, then select Settings ➔ More settings.

2.Touch Wi-Fi Direct to configure settings:

•When you turn on Wi-Fi Direct, your device automatically searches for available Wi-Fi Direct devices. Touch Scan to start a new search.

•After scanning for devices, touch a device to connect to it, then follow the prompts to complete the connection

.•Touch Multi-connect to create a connection to devices that support multi-connect. Touch Scan to search for available multi-connect devices, then touch the devices you want to connect to and follow the prompts to complete the connection.

PC Connections

You can connect your device to a PC using an optional PC data cable using various USB connection modes. When you connect the device to a PC, you can synchronize files with Windows Media Player, transfer data to and from your device directly, or launch Samsung PC Studio when a USB connection is detected.

Configuring Your Phone USB Settings

Configuring Your Phone USB Settings

This menu selects the method of communication for the USB port.

Note: The Bluetooth feature must first be disabled before initiating a USB connection with the phone. Prior to connecting the USB cable to the phone, install the latest version of the PC Studio application. This application installs the necessary USB drivers onto your machine. For a free download of PC Studio, go to www.samsung.com/us/support.

1.Touch ➔ Settings ➔ Connectivity ➔ Select USB mode.

2. Select one of the following USB modes:

- •Ask on connection: causes the phone to present a “Select USB Mode” pop-up when you connect to the PC. You can then choose from either: Samsung PC Studio, Media player, or Mass storage.
- •Samsung PC Studio: sets PC Studio to launch as the default application when a USB connection is detected.
- •Media player: sets the Media Player to launch as the default application when a USB connection is detected.
- •Mass storage: allows you to utilize the onboard storage capacity of the phone’s microSD card to store and upload files. This option allows your computer to detect the phone’s microSD card as a removable storage drive.

3.Touch Save.

troubleshooting

If you are having trouble with your mobile phone, try these troubleshooting procedures before contacting a service professional.

While using your phone, the following messages may appear:

Message	Try this to solve the problem:
Please insert SIM card	Ensure that the SIM card is installed correctly.
Phone lock	When the phone lock feature is enabled, you must enter the password you set for the phone.
Enter PIN	When using the phone for the first time or when the PIN requirement is enabled, you must enter the PIN supplied with the SIM card. You can disable this feature by using the PIN lock menu.
Enter PUK	Your SIM card is blocked, usually as a result of entering your PIN incorrectly several times. You must enter the PUK supplied by your service provider.

Your phone displays “Network unavailable” or “Network error.”

- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again.
- You cannot access some options without a subscription. Contact your service provider for more details.

You enter a number, but the call is not dialled.

- Ensure that you have pressed the Dial key: [ ].
- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number.

Another caller cannot reach you.

- Ensure that your phone is turned on.
- Ensure that you have accessed the right cellular network.
- Ensure that you have not set call barring for the phone number.

Another caller cannot hear you speaking.

- Ensure that you are not covering the built-in microphone.
- Ensure that the microphone is close to your mouth.
- If using a headset, ensure that it is properly connected.

The phone beeps and the battery icon flashes.

Your battery is low. Recharge or replace the battery to continue using the phone.

The audio quality of the call is poor.

- When you are in areas with weak signals or poor reception, you may lose reception or experience poor audio quality. Move to another area and try again.
- When you are in areas with weak signals or poor reception, you may lose reception. Move to another area and try again.

You select a contact to call, but the call is not dialled.

- Ensure that the correct number is stored in the contact list.
- Re-enter and save the number, if necessary.

The battery does not charge properly or sometimes the phone turns itself off.

- The battery terminals may be dirty. Wipe both gold-coloured contacts with a clean, soft cloth and try charging the battery again.
- If the battery will no longer charge completely, dispose of the old battery properly and replace it with a new battery.

Your phone is hot to the touch.

When you use several applications at once, your phone requires more power and may heat up.

This is normal and should not affect your phone's lifespan or performance.

Some of the contents in this manual may differ from your phone depending on the software of the phone or your service provider.

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