

Features

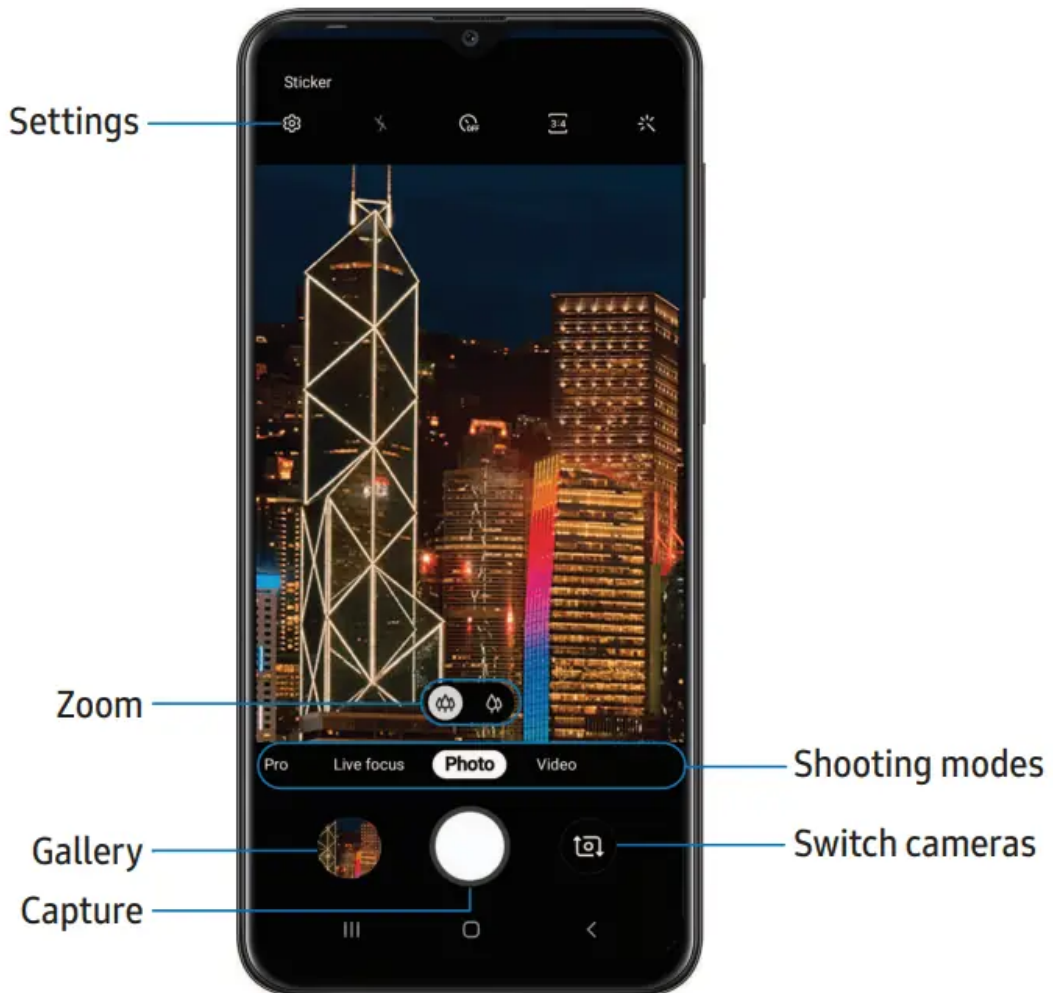


Camera 48

You can capture high-quality pictures and videos using the Camera app.

- From Apps, tap  Camera.

TIP If Quick launch is enabled, quickly press the Power key twice



Navigate the camera screen




Take stunning pictures with your device's front and rear cameras.

1.



From Camera, set up your shot with the following features:

- Tap the screen where you want the camera to focus.
 - When you tap the screen, a brightness scale appears. Drag the light bulb to adjust the brightness.
- To quickly switch between the front and rear cameras, swipe the screen up or down.
- To change to a different shooting mode, swipe the screen right or left.
- To change camera settings, tap  Settings.

2.



Tap Capture.

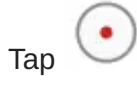
Record videos: Record high-quality videos using your device.

1.






From Camera, swipe right or left to change the shooting mode to Video.

2.



Tap Capture to begin recording a video.

- To take a picture while recording, tap  Capture.
- To temporarily stop recording, tap  Pause. To continue recording, tap  Resume.

3.



Tap Stop when you are finished recording.

Change shooting modes: The Camera is equipped with a variety of shooting modes to capture pictures and videos in specific scenarios.

•




From Camera, the shooting modes are located in a row near the bottom of the screen.



- To change the shooting mode, swipe the screen right or left.

- To view the entire list of shooting modes and each mode's description, touch and hold a shooting mode

Configure shooting mode: Allow the camera to determine the ideal mode for your pictures or choose from several shooting modes.

-  From Camera, touch and hold a shooting mode.
 - Panorama: Create a linear image by taking pictures in either a horizontal or vertical direction.
 - Pro: Manually adjust the ISO sensitivity, exposure value, white balance, and color tone while taking pictures.
 - Live focus: Take artistic pictures by adjusting the depth of field (Galaxy A20 only).
 - Photo: Allow the camera to determine the ideal mode for the picture.
 - Video: Allow the camera to determine the ideal mode for the video.

Camera settings: Use the icons on the main camera screen and the settings menu to configure

your camera's settings. From  Camera, tap  Settings for the following options:

- Pictures
 - Hold shutter button to: Choose whether to take a picture, take a burst shot, or create a GIF when holding the shutter button down (Galaxy A20 only).
 - Save options: Choose picture format and whether to flip your selfies.
- Videos
 - Rear video size: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
 - Front video size: Select a resolution. Selecting a higher resolution for higher quality requires more memory.
 - High efficiency video: Record videos in HEVC format to save space.
- Useful features
 - HDR (rich tone): Enables the light sensitivity and color depth features of the device to produce a brighter and richer picture.
 - Grid lines: Display viewfinder grid lines to help compose a picture or video.
 - Location tags: Attach a GPS location tag to the picture.

- Camera modes: Set the default camera mode. You can also reorder or hide your shooting modes.
- Shooting methods:
 - Press Volume key to: Use the Volume key to take pictures, record video, zoom, or control system volume.
 - Floating shutter button: Add an extra shutter button that you can move anywhere on the screen.
 - Tap screen: Tap the screen to take selfies.
 - Show palm: Hold your hand out with your palm facing the camera to have your picture taken in a few seconds.
- Storage location: Select a memory location.
 - A memory card (not included) must be installed to view Storage location.
- Quick launch: Press the Power key twice in quick succession to open the camera.
- Shutter sound: Play a tone when taking a picture.
- Reset settings: Reset the camera settings.
- About Camera: View app and software information.



Flexible security

Use biometrics to securely unlock your device and log in to accounts.

Face recognition

You can enable Face Recognition to unlock your screen.


- Face recognition is less secure than Pattern, PIN, or Password. Your device could be unlocked by someone or something that looks like your image.
- Some conditions may affect face recognition, including wearing glasses, hats, beards, or heavy make-up.
- When registering your face, ensure that you are in a well-lit area and the camera lens is clean.

1.


From Settings, tap  Biometrics and security > Face recognition.

2. Follow the prompts to register your face.


Face recognition management: Customize how face recognition works.

- From Settings, tap  Biometrics and security > Face recognition.
 - Remove face data: Delete existing faces.
 - Face unlock: Enable or disable face recognition security.
 - Stay on Lock screen: When you unlock your device with face recognition, stay on the Lock screen until you swipe the screen.
 - Faster recognition: Turn on for faster face recognition. Turn off to increase security and make it harder to unlock using an image or video of your likeness.
 - Brighten screen: Increase the screen brightness temporarily so that your face can be recognized in dark conditions.
 - Samsung Pass: Access your online accounts using face recognition (Galaxy A20 only).


Fingerprint scanner: Use fingerprint recognition as an alternative to entering passwords in certain apps. You can also use your fingerprint to verify your identity when logging in to your Samsung account. This is featured on the Galaxy A20 only.

1. From Settings, tap  Biometrics and security > Fingerprints.
2. Follow the prompts to register your fingerprint.


Fingerprint management: Add, delete, and rename fingerprints.

- From Settings, tap  Biometrics and security > Fingerprints for the following options:
 - The list of registered fingerprints is at the top of this list. You can touch and hold a fingerprint to remove or rename it.
 - Add fingerprint: Simply follow the prompts to register another fingerprint.
 - Check added fingerprints: Scan your fingerprint to see if it has been registered.

Fingerprint verification settings: Use fingerprint recognition to verify your identity in supported apps and actions.

- From Settings, tap  Biometrics and security > Fingerprints.
 - Fingerprint unlock: Use your fingerprint for identification when unlocking your device.
 - Samsung Pass: Use your fingerprint for identification when using supported apps.

Biometrics Preferences: Configure your preferences for biometric security options.


- From Settings, tap  Biometrics and security > Biometrics preferences for the following options:
 - Preferred biometric: Choose your preferred biometric. Only biometrics that have already been set up are listed (Galaxy A20 only).
 - Screen transition effect: Show a transition effect when you use biometrics to unlock your device.



Expandable storage



Storage: View the device storage and usage. You can also mount, unmount, or format an optional memory card (not included).

Device storage: Quickly optimize your device's storage, increasing available memory.

- From Settings, tap  Device care > Storage > Clean now.


Memory card

- Once an optional microSD memory card (not included) has been installed in your device, the card memory is displayed in the Storage setting.
- For more information, see Assemble your device
- Mount a memory card: When you install an optional memory card, it is automatically mounted (connected to the device) and prepared for use. However, should you unmount the card without removing it from the device, you need to mount it before it can be accessed.

1. From Settings, tap  Device care > Storage.
2. Tap  More options > Storage settings.
3. Under Portable storage, tap your SD card, and then tap Mount.


- Remove a memory card: To prevent damage to information stored on the memory card, unmount the card before removing it from the device.

1. From Settings, tap  Device care > Storage.

2.  Tap More options > Storage settings.
3. Under Portable storage, tap your SD card, and then tap Unmount.
4. Remove your memory card from the device.

- Format a memory card: When formatting an SD card, you should back up your music and photo files that are stored on the card because formatting the SD card deletes ALL stored files.


1.  From Settings, tap Device care > Storage.

2.  Tap More options > Storage settings.
3. Under Portable storage, tap your SD card, tap Format, and then follow the prompts.



Night mode

Night mode: Night mode allows you to switch to a darker theme to keep your eyes more comfortable at night.

- From Settings, tap  Display > Night mode for the following options:
 - Turn on now: Put your device in Night mode.
 - Turn on as scheduled: Configure Night mode for either Sunset to sunrise or Custom schedule.

Getting started

Galaxy A10e



Galaxy A20



Assemble your device

- Your device uses a nano-SIM card. A SIM card may be preinstalled, or you may be able to use your previous SIM card. Contact your carrier for more details.

Install SIM/microSD card

Place the SIM card and optional microSD card (sold separately) into the tray with the gold contacts facing down.



Charge your device


Before turning on your device, charge it fully.

Start using your device


Use the Power key to turn your device on or off. Do not use the device if the body is cracked or broken. Use the device only after it has been repaired.

- Press and hold the Power key.

-

To turn the device off, press and hold the Power key, and tap  Power off. Confirm when prompted.

-

To restart your device, press and hold the Power key, and tap  Restart.


Use the Setup Wizard

- The first time you turn your device on, the Setup Wizard guides you through the basics of setting up your device.

- Follow the prompts to choose a default language, connect to a Wi-Fi® network, set up accounts, choose location services, learn about your device's features, and more.

Transfer data from an old device

Use Smart Switch™ to transfer contacts, photos, music, videos, messages, notes, calendars, and more from your old device. Smart Switch can transfer your data via USB cable, Wi-Fi, or computer. Visit samsung.com/us/support/owners/app/smart-switch to learn more.

1. From Settings, tap  Accounts and backup > Smart Switch.
2. Follow the prompts and select the content to transfer. Visit samsung.com/smarts witch for more information.

Lock or unlock your device

- Use your device's screen lock features to secure your device. By default, the device locks automatically when the screen times out. For more information about screen locks, see Lock screen and security




Power key
Press to lock.
Press to turn on the screen, and then swipe the screen to unlock it.

Accounts



- Set up and manage your email accounts, your Google™ Account, and Samsung account.
- TIP: Accounts may support email, calendars, contacts, and other features. See your carrier for more information.


Add a Google Account: Sign in to your Google Account to access your Google cloud storage, apps installed from your account, and make full use of your device's Android™ features.

1. From Settings, tap  Accounts and backup > Accounts.



2. Tap  Add account > Google. NOTE When you sign in to a Google Account, Factory Reset Protection (FRP) is activated. FRP requires your Google Account information when resetting to factory settings. For more information, see Factory reset protection

Add a Samsung account: Sign in to your Samsung account to access exclusive Samsung content and make full use of Samsung apps.

1. From Settings, tap  Accounts and backup > Accounts.
2. Tap  Add account > Samsung account.



TIP: To quickly access your Samsung account, from Settings tap  Samsung account.

Add an email account: Sign in to one or more of your email accounts to view and manage email messages.

1. From Settings, tap  Accounts and backup > Accounts.
2. Tap  Add account > Email.

Set up voicemail

You can set up your voicemail service when you access it for the first time. You can access voicemail through the Phone app.

1. From  Phone, touch and hold the  1 key.
2. Follow the tutorial to create a password, record a greeting, and record your name.

Apps

Using apps

The Apps list displays all preloaded and downloaded apps. Apps can be downloaded from Galaxy Store and the Google Play™ store.

- From a Home screen, swipe the screen upward to access the Apps list.


Uninstall or disable apps: Installed apps can be removed from your device. Some apps that are preloaded (available on your device by default) can only be disabled. Disabled apps are turned off and hidden from the Apps list.

- From Apps, touch and hold an app, and tap Uninstall/Disable.


Search for apps: If you are not sure where to find an app or a setting, you can use the Search feature.

1. From Apps, tap Finder search, and enter a word or words. As you type, matching apps and settings appear as results on the screen.
2. Tap a result to go to that app. TIP You can customize the search settings by tapping More options > Finder settings.

Sort apps: App shortcuts can be listed alphabetically or in your own custom order.




- From Apps, tap  More options > Sort for the following sorting options:
 - Custom order: Arrange apps manually.
 - Alphabetical order: Sort apps alphabetically.

TIP When apps are arranged manually (Custom order), empty icon spaces can be removed by


tapping  More options > Clean up pages.

Create and use folders


You can make folders to organize App shortcuts on the Apps list.

1. From Apps, touch and hold an app shortcut, and then drag it on top of another app shortcut until it is highlighted.
2. Release the app shortcut to create the folder.
 - Enter folder name: Name the folder.
 -  Palette: Change the folder color.
 -  Add apps: Place more apps in the folder. Tap apps to select them, and then tap Add.
3. Tap  Back to close the folder.

Copy a folder to a Home screen: You can copy a folder to a Home screen.




- From Apps, touch and hold a folder, and tap  Add to Home.

Delete a folder: When you delete a folder, the app shortcuts return to the Apps list.

1. From Apps, touch and hold a folder to delete.
2.  Tap Delete folder, and confirm when prompted.

App settings

Manage your downloaded and preloaded apps.



1.  From Settings, tap Apps.
2.  Tap Menu to set which apps to view, and then choose All, Enabled, or Disabled.
3.  Tap More options for the following options:
 - Sort by name/size: Sort the apps alphabetically by first letter or file size.
 - Default apps: Choose or change apps that are used by default for certain features, like email or browsing the Internet.
 - App permissions: Control which apps have permissions to use certain features of your device.
 - Show/Hide system apps: Show or hide system (background) apps.
 - Special access: Select which apps can have special access permissions to features on your device.
 - Reset app preferences: Reset options that have been changed. Existing app data is not deleted.
4. Tap an app to view and update information about the app. The following options may be displayed:
 - Uninstall/Disable: Uninstall or disable the app. Some preloaded apps can only be disabled, not uninstalled.
 - Force stop: Stop an app that is not working correctly.
 - Mobile data: View mobile data usage.
 - Battery: View battery usage since the last full charge.
 - Storage: Manage the app's storage usage.
 - Memory: View memory usage.
 - Notifications: Configure notifications from the app.
 - Permissions: View permissions granted to the app for access to your device's information.

- Set as default: Set the app as a default for a certain category of apps. NOTE
Options vary by app


Settings

Access Settings

There are a couple of ways to access your device settings.

- Drag down the Status bar, and then tap  Settings.
- From Apps, tap  Settings.



Search for Settings: If you are not sure exactly where to find a certain setting, you can search for it.

1. From Settings, tap  Search, and enter keywords.
2. Tap an entry to go to that setting.




Connections

Manage connections between your device and a variety of networks and other devices.

Wi-Fi: You can connect your device to a Wi-Fi network to access the Internet without using your mobile data.

1. From Settings, tap  Connections > Wi-Fi, and then tap  to turn on Wi-Fi and scan for available networks.
2. Tap a network, and enter a password if required.

Manually connect to a Wi-Fi network: If the Wi-Fi network you want is not listed after a scan, you can still connect to it by entering the information manually. Ask the Wi-Fi network administrator for the name and password before you begin.



1. From Settings, tap  Connections > Wi-Fi, and then tap  to turn on Wi-Fi.
2. Tap  Add network at the bottom of the list.
3. Enter information about the Wi-Fi network:
 - Network name: Type the exact name of the network.

- Security: Select a security option from the list, and enter the password if required.
- Auto reconnect: Choose this option if you want to automatically reconnect to this network whenever you are in range.
- Advanced: Add any advanced options, such as IP and Proxy settings.

4. Tap Save

Advanced Wi-Fi settings: You can configure connections to various types of Wi-Fi networks and hotspots, manage saved networks and look up your device's network addresses.

1.

From Settings, tap  Connections > Wi-Fi, and then tap  to turn on Wi-Fi.

2. Tap Advanced.

- Switch to mobile data: When enabled, your device will switch to mobile data whenever the Wi-Fi connection is unstable. When the Wi-Fi signal is strong, it switches back to Wi-Fi.
- Turn on Wi-Fi automatically: Turn on Wi-Fi in frequently-used locations.
- Wi-Fi notifications: Receive notifications when open networks in range are detected.
- Show Wi-Fi pop-up: Alert me that Wi-Fi is available when opening apps.
- Manage networks: View saved Wi-Fi networks and configure whether to auto reconnect to or forget individual networks.

3. Tap View more to see additional network settings.

- Wi-Fi control history: View apps that have recently turned your Wi-Fi on or off.
- Hotspot 2.0: Connect automatically to Wi-Fi networks that support Hotspot 2.0.
- Install network certificates: Install authentication certificates.
- MAC address: View your device's MAC address, which is required when connecting to some secured networks (not configurable).
- IP address: View your device's IP address (not configurable).


Wi-Fi Direct: Wi-Fi Direct uses Wi-Fi to share data between devices.

1.


From Settings, tap  Connections > Wi-Fi, and then tap to turn on Wi-Fi.

2. Tap Wi-Fi Direct.

3.



Tap a device, and then follow the prompts to connect. TIP When sharing a file, tap  Wi-Fi Direct to use this feature


Disconnect from Wi-Fi Direct: Disconnect your device from a Wi-Fi Direct device.

- From Settings, tap  Connections > Wi-Fi > Wi-Fi Direct. Tap a device to disconnect it.

Bluetooth



You can pair your device to other Bluetooth® -enabled devices, like Bluetooth headphones or a Bluetooth-enabled vehicle infotainment system. Once a pairing is created, the devices remember each other and can exchange information without having to enter the passkey again.

1. From Settings, tap  Connections > Bluetooth, and then  tap to turn on Bluetooth.
2. Tap a device and follow the prompts to connect.

TIP When sharing a file, tap  Bluetooth to use this feature.



Phone visibility

Turn on visibility to allow other Bluetooth devices to find your device. This is featured on the Galaxy A20 only.

- From Settings, tap  Connections > Phone visibility, and then tap  to make your device visible.

NFC and payment


Near Field Communication (NFC) allows you to communicate with another device without connecting to a network. This technology is used by Android Beam and certain payment apps. This is featured on the Galaxy A20 only.

- From Settings, tap  Connections > NFC and payment, and then tap  to turn on this feature.

TIP The device that you are transferring to needs to support NFC, and it needs to be within four centimeters of your device.


Airplane mode

Airplane mode disconnects your device from all networks and turns off connectivity features.

1. From Settings, tap Connections > Airplane mode.
2. Tap  to enable this feature.

Mobile networks

Use Mobile networks to configure your device's ability to connect to mobile networks and use mobile data.

- From Settings, tap  Connections > Mobile networks.
 - Data roaming access: Configure access to mobile networks while roaming.
 - Roaming state: Enable or disable data while roaming on other mobile networks.
 - Signal strength: View mobile signal strength.
 - Network mode: You can select which network modes your mobile device can use.
 - Access Point Names: Choose or add APNs, which have the network settings your device needs to connect to your provider.
 - Network operators: Choose available and preferred networks.
 - Network extenders: Scan for cells that can extend your network connection



TIP Use these features to help manage connection settings that may affect your monthly bill.

Data usage

Check your current mobile and Wi-Fi data usage. You can also customize warnings and limits.

- From Settings, tap  Connections > Data usage.

Mobile hotspot: Mobile hotspot uses your data plan to create a Wi-Fi network that can be used by multiple devices.



1. From Settings, tap  Connections > Mobile hotspot and tethering > Mobile hotspot.
2. Tap  to turn on Mobile hotspot.
3. On the devices you want to connect, activate Wi-Fi and select your device's Mobile hotspot. Enter the Mobile hotspot password to connect. TIP Check with your carrier about service fees.

Tethering: You can use tethering to share your device's Internet connection with another device.




1. From Settings, tap Connections > Mobile hotspot and tethering.
2. Tap an option:
 - Tap Bluetooth tethering to share your device's Internet connection using Bluetooth.

- Connect the computer to the device using a USB cable, and then tap USB tethering.



Nearby device scanning: Easily set up connections to other available devices by turning on Nearby device scanning. This feature sends you a notification when there are available devices to connect to.

1. From Settings, tap  Connections > More connection settings > Nearby device scanning.
2. Tap  to turn on the feature.

Connect to a printer: Connect your device to a printer on the same Wi-Fi network to easily print documents and images from your device.

1. From Settings, tap  Connections > More connection settings > Printing.
2. Tap  Download plugin and follow the prompts to add a print service.
3. Tap the print service, and then tap  More options > Add printer. TIP Make sure the app you want to print from supports printing.


Virtual Private Networks: A Virtual Private Network (VPN) allows you to connect to a private secured network from your device. You will need the connection information from your VPN administrator.

1. From Settings, tap  Connections > More connection settings > VPN.
2. Tap  More options > Add VPN profile.
3. Enter the VPN network information provided by your network administrator, and tap Save. TIP A secured screen lock is required to set up a VPN.



Sounds and vibration

You can control the sounds and vibrations used to indicate notifications, screen touches, and other interactions.


Sound mode: You can change the sound mode on your device without using the volume keys.

- From Settings, tap  Sounds and vibration > Sound mode, and then choose a mode:
 - Sound: Use the sounds, vibrations, and volume levels you have chosen in Sound settings for notifications and alerts.
 - Vibrate: Use vibration only for notifications and alerts.
 - Mute: Set your device to make no sounds. – Temporary mute: Set a time limit for muting the device. TIP Use the sound mode setting instead of the volume keys to change the sound mode without losing your customized sound levels


Easy mute: Quickly mute sounds by covering the screen or turning the device over.

- From Settings, tap  Advanced features > Motions and gestures > Easy mute, and tap  to enable.


Vibrations: You can control how and when your device vibrates

1. From Settings, tap  Sounds and vibration.
2. Tap options to customize:
 - Vibrate while ringing: Set your device to vibrate in addition to ringing when you receive a call.
 - Vibration pattern: Choose from preset vibration patterns.
 - Vibration intensity: Set vibration intensity levels for calls, notifications, and feedback by dragging the sliders (Galaxy A20 only).

Volume: Set the volume level for call ringtones, notifications, and other audio.

- From Settings, tap  Sounds and vibration > Volume, and drag the sliders. TIP You can also use the Volume key to adjust the volume. Slide the volume controls to customize all volume options.

Use Volume keys for media: Set the default of the Volume key to control the media volume.


1. From Settings, tap  Sounds and vibration.
2. Tap Use Volume keys for media to enable this feature.

Media volume limiter: Limit the maximum output of the device's volume while using headphones or Bluetooth speakers (not included).


1.

From Settings, tap  Sounds and vibration > Volume.

2.

Tap  More options > Media volume limiter.


3.

Tap  to enable this feature.


- To set the maximum output volume, drag the Custom volume limit slider.
- To require a PIN to make changes to the volume setting, tap Set volume limit PIN.

Ringtone: Customize your call ringtone by choosing from preset sounds or adding your own.

1.


From Settings, tap  Sounds and vibration > Ringtone.

2.

Tap a ringtone to hear a preview and select it, or tap  Add to use an audio file as a ringtone.

Notification sounds: Choose a preset sound for all notification alerts.

1.

From Settings, tap  Sounds and vibration > Notification sounds.


2. Tap a sound to hear a preview and select it. TIP You can also customize notifications sounds to be unique for each app using the App settings menu.

System sounds and vibration: Customize your device's sounds and vibrations for actions like tapping the screen and charging the device.

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Galaxy A10e: From Settings, tap  Sounds and vibration > System sounds.

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Galaxy A20: From Settings, tap  Sounds and vibration > System sounds and vibration for the following options:



- Touch sound: Play tones when you touch or tap the screen to make selections.
- Screen lock sound: Play a sound when you unlock the screen.
- Charging sound: Play a sound when a charger is connected.
- Dialing keypad tone: Play a tone when dialing numbers on the Phone keypad.
- Keyboard sound: Play a sound when typing with the Samsung keyboard.

- Keyboard vibration: Vibrate when typing with the Samsung keyboard (Galaxy A20 only).
- Touch vibration: Vibrate when you tap navigation buttons or touch and hold items on the screen (Galaxy A20 only).


Notifications

You can prioritize and streamline app alerts by changing which apps send notifications and how notifications alert you.


Manage notifications: You can configure notifications from apps and services.

- From Settings, tap  Notifications.
 - App icon badges: Identify which apps have active notifications with badges that appear on their icons. Tap to choose whether or not badges indicate the number of unread notifications.
 - Do not disturb: Block sounds and notifications while this mode is turned on. Specify exceptions for people, apps, and alarms.
 - Status bar: Modify how many notifications appear on the Status bar.
 - To block notifications from an app, tap  next to the app. Tap See all to open the complete list of apps.



Customize app notifications: You can change notification settings for each app.

1. From Settings, tap  Notifications > See all.
2. Tap an app for the following options:
 - Show notifications: Receive notifications from this app.
 - App icon badges: Show a badge on the icon when there are notifications.
 - Categories: Configure notification options that are specific to this app

Smart alert: You can set the device to notify you about missed calls and messages by vibrating when you pick it up.

- From Settings, tap  Advanced features > Motions and gestures > Smart alert, and tap to enable.


Smart pop-up view: Receive notifications as icons that can be tapped and expanded in pop-up view. This is featured on the Galaxy A20 only.

- From Settings, tap  Advanced features > Smart pop-up view, and tap  to enable.


Display

You can configure the screen brightness, timeout delay, font size, and many other display settings.

Screen brightness: Adjust the screen brightness according to lighting conditions or personal preference.

1. From Settings, tap  Display.
2. Customize options under Brightness:
 - Drag the Brightness slider to set a custom brightness level.
 - Tap Outdoor mode to increase the screen brightness for 15 minutes for greater visibility when outdoors.


Blue light filter: The Blue light filter can help you sleep better if you use your device at night. You can set a schedule to automatically turn this feature on and off. This is featured on the Galaxy A20 only.


- From Settings, tap  Display > Blue light filter, and then choose one of the following options:
 - Drag the Opacity slider to set the opacity of the filter.
 - Tap Turn on now to enable this feature.
 - Tap Turn on as scheduled to set a schedule for when Blue light filter should be enabled. You can choose Sunset to sunrise or Custom schedule.

Screen mode: Your device has several screen mode options which adjust the screen quality for different situations. You can select the mode according to your preference. This is featured on the Galaxy A20 only.


1. From Settings, tap Display > Screen mode.
2. Tap an option to set a different screen mode.

Font size and style: You can change the font size and style to customize your device.


- From Settings, tap  Display > Font size and style for the following options:
 - Drag the Font size slider to adjust the size of text.

- Tap Font style to choose a different font. – Tap a font to select it, or tap  Download fonts to add fonts from Galaxy Store.
- Tap Bold font to make all fonts appear with bold weight.


Screen zoom: Adjust the zoom level to increase or decrease the size of content on the screen.

1. From Settings, tap  Display > Screen zoom.
2. Drag the Screen zoom slider to adjust the zoom level.

Full screen apps: You can choose which apps you want to use in the full screen aspect ratio.

- From Settings, tap  Display > Full screen apps and tap apps to enable this feature.

Screen timeout: You can set the screen to turn off after a set amount of time.

- From Settings, tap  Display > Screen timeout, and tap a time limit to set it.

Device maintenance

View the status of your device's battery, storage, and memory. You can also automatically optimize your device's system resources.


Quick optimization: The quick optimization feature improves device performance through the following actions:

- Identifying apps that use excessive battery power and clearing unneeded items from memory.
- Deleting unnecessary files and closing apps running in the background.
- Scanning for malware.


To use the quick optimization feature:

- From Settings, tap  Device care > Optimize now.

Battery: View how battery power is used for your various device activities.

- From Settings, tap  Device care > Battery for options:
 - Battery usage: View power usage by app and service.
 - Power mode: Select a power mode to extend battery life.
 - Usage by apps: View power usage by app today or over the past week.
 - More options > Settings: Configure advanced battery settings and notifications.




Memory: Check the amount of available memory. You can close background apps and reduce the amount of memory you are using to speed up your device.

1.  From Settings, tap **Device care > Memory**.
 - The used and available memory are shown.
2. To free up as much memory as possible, tap **Clean now** and follow the prompts.
 - The selected apps and services in the list will be closed.


Language and input

Configure your device's language and input settings.


Change the device language: You can add languages to your list and organize them according to preference. If an app does not support your default language, then it will move to the next supported language in your list.

1.  From Settings, tap **General management > Language and input > Language**.
2.  Tap **Add language**, and select a language from the list.
3. Tap **Set as default** to change the device language.
 -  To switch to another language on the list, drag **Move next** to the desired language to the top of the list, and then tap **Apply**.


Default keyboard: You can select a default keyboard for your device's menus and keyboards. Additional keyboards can be downloaded from the Google Play store.


1.  From Settings, tap **General management > Language and input**.
2. Tap **Default keyboard**, and select a keyboard

Google Voice typing: Speak rather than type your text entries using Google Voice™ typing.


1.  From Settings, tap **General management > Language and input**.
2. Tap **On-screen keyboard > Google Voice typing** to customize settings.

Manage on-screen keyboards: Enable or disable on-screen keyboards.


1.  From Settings, tap **General management > Language and input**.

2. Tap On-screen keyboard >  Manage keyboards.
3. Tap each keyboard to enable or disable


Physical keyboards: Customize options when you have a physical keyboard connected to your device (sold separately).

1. From Settings, tap  General management > Language and input.
2. Tap Physical keyboard, and then choose an option:
 - Show on-screen keyboard: Show the on-screen keyboard while a physical keyboard is also being used.
 - Keyboard shortcuts: Show explanations of the keyboard shortcuts on the screen.

Show keyboard button: Show a button on the Navigation bar to quickly switch between keyboards.


1. From Settings, tap  General management > Language and input.
2. Tap Show keyboard button to enable this feature.

Autofill service: Save time entering information using autofill services.

1. From Settings, tap  General Management > Language and input.
2. Tap Autofill service and select your preferred service.

Date and time



By default, your device receives date and time information from the wireless network. Outside of network coverage, you can set the date and time manually.

1. From Settings, tap  General management > Date and time. The following options are available:
 - Automatic date and time: Receive date and time updates from your wireless network. When Automatic date and time is disabled, the following options are available:
 - Select time zone: Choose a new time zone.
 - Set date: Enter the current date.
 - Set time: Enter the current time.
 - Use 24-hour format: Set the format for displaying time.

Troubleshooting

You can also check for software updates, and if necessary, reset services on your device.



1. *System updates*: Check for and install available software updates for your device.

-  From Settings, tap  System updates for the following options:
 - Check for system updates: Manually check for available software updates.
 - Show system update history: View previous software updates.
 - Automatic security updates: Install security updates automatically.
 - Use Software Upgrade Assistant: Install a tool to install system updates.

2. *Reset*



Reset device and network settings. You can also reset your device to its factory defaults.

Reset settings: You can reset your device to its factory default settings, which resets everything except the security, language, and account settings. Personal data is not affected.



1.  From Settings, tap  General management > Reset > Reset settings.
2. Tap Reset settings, and confirm when prompted.

Reset network settings:



You can reset Wi-Fi, mobile data, and Bluetooth settings with Reset network settings.

1.  From Settings, tap  General management > Reset > Reset network settings.
2. Tap Reset settings, and confirm when prompted.

Reset accessibility settings: You can reset device accessibility settings. Accessibility settings in downloaded apps and your personal data are not affected.

1.  From Settings, tap  General management > Reset > Reset accessibility settings.
2. Tap Reset settings, and confirm when prompted

Auto restart: Optimize your device by restarting it automatically at set times. Any unsaved data will be lost when the device restarts.

1.  From Settings, tap  General management > Reset > Auto restart.

2.



Tap to activate Auto restart, and then set the following parameters:

- Day: Select the day of the week to automatically restart your device.
- Time: Set the time of day to restart your device.

3. Factory data reset

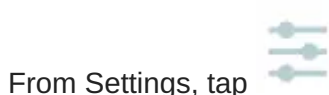
- You can reset your device to factory defaults, erasing all data from your device.
- This action permanently erases ALL data from the device, including Google or other account settings, system and application data and settings, downloaded applications, as well as your music, photos, videos, and other files. Any data stored on an external SD card is not affected.
- NOTE When you sign in to a Google Account on your device, Factory Reset Protection is activated. This protects your device in the event it is lost or stolen.
- If you reset your device to factory default settings with the Factory Reset Protection (FRP) feature activated, you must enter the user name and password for a registered Google Account to regain access to the device. You will not be able to access the device without the correct credentials.
- NOTE If you reset your Google Account password, it can take 24 hours for the password reset to sync with all devices registered to the account.

Before resetting your device:

1. Verify that the information you want to keep has transferred to your storage area.
2. Log in to your Google Account and confirm your user name and password.

To reset your device:

1.



From Settings, tap General management > Reset > Factory data reset.

2. Tap Reset and follow the prompts to perform the reset.
3. When the device restarts, follow the prompts to set up your device.

Factory reset protection


- When you sign in to a Google Account on your device, Factory Reset Protection is activated. Factory Reset Protection (FRP) prevents other people from using your device if it is reset to factory settings without your permission. For example, if your device is lost or stolen and a factory data reset is performed, only someone with your Google Account username and password can use the device.
- You will not be able to access the device after a factory data reset if you do not have your Google Account username and password.

- CAUTION Before sending your device to Samsung or taking it to a Samsung authorized service center, remove your Google Account and then perform a factory data reset. For more information, visit samsung.com/us/support/frp.

Enable factory reset protection

- Adding a Google Account to your device automatically activates the FRP security feature.

Disable factory reset protection: To disable FRP, remove all Google Accounts from the device.

1. From Settings, tap  Accounts and backup > Accounts > [Google Account].
2. Tap Remove account.



4. Lock screen and security

You can secure your device and protect your data by setting a screen lock.

Screen lock types


- You can choose from the following screen lock types that offer high, medium, or no security: Swipe, Pattern, PIN, Password, and None.
- NOTE Biometric locks are also available to protect access to your device and sensitive data on your device. For more information, see Flexible security

Set a secure screen lock: It is recommended that you secure your device using a secure screen lock (Pattern, PIN, or Password).

1. From Settings, tap  Lock screen > Screen lock type and tap a secure screen lock (Pattern, PIN, or Password).
2. Tap  to enable showing notifications on the lock screen. The following options are available:
 - View style: Display notification details or hide them and show only an icon.
 - Hide content: Do not show notifications in the notification panel.
3. Tap Done when finished.
4. Configure the following screen lock options:
 - Smart Lock: Unlock your device automatically when trusted locations or other devices have been detected. A secure screen lock is required for this feature.
 - Secure lock settings: Customize your secure lock settings. A secure screen lock is required for this feature.

Clock and information: You can configure features that appear on the Lock screen, like the clock and other useful information.


•

From Settings, tap  Lock screen for the following options:

- Clock style: Set the type and color of the clock on the Lock screen.
- Roaming clock: Change to digital clocks showing both local and home time zones when roaming.
- FaceWidgets: Enable widgets on the Lock screen to get quick access to useful information.
- Contact information: Show your contact information, such as your phone number or email address.
- Notifications: Select which notifications to display on the Lock screen.
- App shortcuts: Select which apps to open from the Lock screen.
- About Lock screen: Update the Lock screen's software.

Google Play Protect: You can configure Google Play Protect to regularly check your apps and device for security risks and threats.


1.

From Settings, tap  Biometrics and security > Google Play Protect.

2. Tap options to customize security features.

Find My Device: You can protect your device from loss or theft by allowing your device to be locked, tracked online, and for your data to be deleted remotely.

1.

From Settings, tap  Biometrics and security > Find My Device.


- If you are not logged in to a Google Account, tap Find My Device won't work and follow the prompts to sign in.

2. The following options are available:


- Find My Device: Download the app from Google Play.
- Web: Access Find My Device on the Internet.
- Google: Search for "find my device" topics online.

TIP A Google Account is required, and Google location service must be turned on.


Security update: You can easily check the date of the last installed security software update and find out if newer updates are available.

- From Settings, tap  Biometrics and security > Security update to see the latest security update installed and check if a newer update is available.


Samsung Pass: Use Samsung Pass to access your favorite services with biometric data. You must sign in to your Samsung account to use Samsung Pass. This is featured on the Galaxy A20 only. Visit samsung.com/us/support/owners/app/samsung-pass to learn more.

1. From Settings, tap  Biometrics and security > Samsung Pass.
2. Sign in to your Samsung account and add your biometric data.


Install unknown apps: You can allow installation of unknown third-party apps from selected apps or sources.

1. From Settings, tap  Biometrics and security > Install unknown apps.
2. Tap an app or source, and then tap Allow from this source. TIP Installing unknown third-party apps could make your device and personal data more vulnerable to security risks.


Secure Folder

- You can create a secure folder on your device to protect private content and apps from anyone who may be using your device.
 - From Settings, tap  Biometrics and security > Secure Folder and follow the prompts to secure content on your device.
- TIP You must sign in to your Samsung account, and use secured lock on your device to set up and use Secure Folder.


Encrypt SD card

- You can encrypt your optional memory card (not included) to protect its data. This only allows the SD card information to be accessed from your device with a password.
 1. From Settings, tap  Biometrics and security > Encrypt SD card.
 2. Tap Encrypt SD card and follow the prompts to encrypt all data on your memory card. NOTE Performing a Factory data reset on your device prevents it from accessing an encrypted SD card. Before initiating a Factory data reset, make sure to decrypt the installed SD card first.


- **Decrypt SD card:** You can decrypt an optional memory card (not included) if it was encrypted by this device. You may want to decrypt the memory card if you plan to use it with another device or before performing a Factory data reset.

1. From Settings, tap  Biometrics and security > Decrypt SD card.
2. Tap Decrypt SD card and follow the prompts to decrypt all data on your memory card.


Set up SIM card lock: You can set up a PIN to lock your SIM card, which prevents unauthorized use of your SIM card if someone attempts to use it another device.

- From Settings, tap  Biometrics and security > Other security settings > Set up SIM card lock and follow the prompts.
 - Tap Lock SIM card to turn on the feature.
 - Tap Change SIM card PIN to create a new PIN.


View passwords: You can have characters displayed briefly in password fields as you type them.

- From Settings, tap  Biometrics and security > Other security settings > Make passwords visible to turn on the feature.

Security update service: You can set your device to automatically check for security updates.

- From Settings, tap  Biometrics and security > Other security settings, and then tap Security policy updates to check for security updates.

Device administration: You can authorize security features and apps (like Find My Device) to have administrative access to your device.



1. From Settings, tap  Biometrics and security > Other security settings > Device admin apps.
2. Tap an option to turn it on as a device administrator.

Credential storage: You can manage the trusted security certificates installed on your device, which verify the identity of servers for secure connections.

- From Settings, tap  Biometrics and security > Other security settings for the following options:
 - Storage type: Select a storage location for credential contents.

- View security certificates: Display certificates in your device's ROM and other certificates you have installed.
- User certificates: View user certificates that identify your device.
- Install from phone storage: Install a new certificate from storage.
- Clear credentials: Erase credential contents from the device and reset the password.


Strong Protection: Better protect your device by encrypting it using a secure lock type.

- From Settings, tap  Biometrics and security > Other security settings > Strong protection, and then tap  to enable this feature.


Advanced security settings: You can use these options to configure advanced security settings to better protect your device. From Settings, tap Biometrics and security > Other security settings for the following options:

- Trust agents: Allow trusted devices to perform selected actions when connected.
 - This option is only displayed when a lock screen is turned on. For more information, see Set a secure screen lock
- Pin windows: Pin an app on your device screen, which prevents access to other features of your device.


Location: Location services use a combination of GPS, mobile network and Wi-Fi to determine the location of your device.

1. From Settings, tap  Biometrics and security > Location.
2. Tap to turn on Location services.
3. Tap Improve accuracy to use other connections for determining your location:
 - Wi-Fi scanning: Allow apps and services to scan for Wi-Fi networks automatically, even when Wi-Fi is turned off.
 - Bluetooth scanning: Allow apps to scan for and connect to nearby devices automatically through Bluetooth, even when Bluetooth is turned off. TIP Some apps require location services be turned on for full functionality.



Recent location requests: View a list of apps that have requested your location.

1. From Settings, tap  Biometrics and security > Location.
2. Tap to turn on Location services.
3. Tap an entry under Recent location requests to view the app's settings.


Location services: Location services store and use your device's most recent location data. Certain apps can use this data to improve your search results based on places that you have visited.

1. From Settings, tap  Biometrics and security > Location.
2. Tap an entry under Location services to see how your location information is used.

App permissions: Apps might access features of your device that you permit them to (like the camera, microphone, or location) when they are running in the background, not just when you are using the app. You can set your device to notify you when this happens.

1. From Settings, tap  Biometrics and security > App permissions.
2. Tap a category, and tap  next to the apps you want to be notified about.
 - Tap an app to select which permissions you want to be notified about.



Send diagnostic data: Send diagnostic information about your device to Samsung when you are having technical problems.

1. From Settings, tap  Biometrics and security > Send diagnostic data.
2. Read and accept the consent information to enable this feature.


5. Accounts

You can connect to and manage your accounts, including your Google Account, Samsung account, email, and social networking accounts.

Add an account: You can add and sync all your email, social networking, and picture and video sharing accounts.


1. From Settings, tap  Accounts and backup > Accounts >  Add account.
2. Tap one of the account types.
3. Follow the prompts to enter your credentials and set up the account.
 - Tap Auto sync data to enable automatic updates to your accounts.

Account settings: Each account has its own custom settings. You can configure common settings for all accounts of the same type. Account settings and available features vary between account types.

1. From Settings, tap  Accounts and backup > Accounts.
2. Tap an account to configure that account's sync settings.

3. Tap other available options for the account type.


Remove an account: You can remove accounts from your device.

1. From Settings, tap  Accounts and backup > Accounts.
2. Tap the account and then tap Remove account.

Backup and restore

You can configure your device to back up data to your personal accounts.


Google Account: You can enable backup of your information to your Google Account.

- From Settings, tap  Accounts and backup > Backup and restore for options:
 - Back up my data: Enable back up of application data, Wi-Fi passwords, and other settings to Google servers.
 - Backup account: Select a Google Account to be used as your backup account.
 - Automatic restore: Enable automatic restoration of settings from Google servers.

External storage transfer: You can back up your data to an SD card or a USB storage device, or restore backup data using Smart Switch. For more information, see Transfer data from an old device

- From Settings, tap Accounts and backup > Backup and restore > External storage transfer.


Google settings: You can configure your device's Google settings. Available options depend on your Google Account.

- From Settings, tap  Google, and select an option to customize.

6. Accessibility

There are accessibility settings for people who need help seeing, hearing, or otherwise operating their device. Accessibility services are special features that make using the device easier for everyone. For more information about Accessibility for Samsung products, please contact us at accessibility@sea.samsung.com.

Screen Reader: Use special controls and settings that let you navigate without needing to see the screen.


- From Settings, tap  Accessibility > Screen reader and tap an option:
 - Voice assistant: Receive spoken feedback when using your device, such as what you touch, select, or activate.

- Tutorial: Learn how to use Voice assistant.
- Settings: Configure Voice assistant to better assist you.


Visibility enhancements

You can configure Accessibility features to assist with visual aspects of your device.

Colors and clarity: You can adjust the colors and contrast of text and other screen elements for easier viewing.

- From Settings, tap  Accessibility > Visibility enhancements and tap an option:
 - High contrast theme: Adjust colors and screen fonts to increase the contrast for easier viewing.
 - High contrast fonts: Adjust the color and outline of fonts to increase the contrast with the background.
 - High contrast keyboard: Adjust the size of the Samsung keyboard and change its colors to increase the contrast between the keys and the background.
 - Show button shapes: Show buttons with shaded backgrounds to make them stand out better against the wallpaper.
 - Remove animations: Remove certain screen effects if you are sensitive to motion.
 - Color inversion: Reverse the display of colors from white text on a black background to black text on a white background.
 - Color correction: Adjust the color of the screen if you find it difficult to see some colors.


Size and zoom: You can increase the size of supported screen elements and create shortcuts for accessibility features on your device.

- From Settings, tap  Accessibility > Visibility enhancements and tap an option:
 - Magnifier window: Magnify content shown on the screen.
 - Magnification: Use exaggerated gestures such as triple-tapping, double pinching, and dragging two fingers across the screen.
 - Large mouse/touchpad pointer: Use a large pointer for a connected mouse or touchpad (accessories not included).
 - Font size and style: Configure screen fonts.
 - Screen zoom: Configure the screen zoom level.


Hearing enhancements

You can configure Accessibility features to assist with audial aspects of the device.

Sounds: You can adjust audio quality when using hearing aids or earphones.

- From Settings, tap  Accessibility > Hearing enhancements and tap an option:
 - Real time text: Activate real-time text (RTT) calling.
 - Mute all sounds: Turn off all notifications and audio for privacy.
 - Hearing aid support: Improve the sound quality to work better with hearing aids.
 - Left and right sound balance: Use the slider to adjust the left and right balance when listening to audio in stereo.
 - Mono audio: Switch audio from stereo to mono when using one earphone


Text display: You can convert speech to text and watch closed captions when viewing multimedia.

- From Settings, tap  Accessibility > Hearing enhancements and tap an option:
 - Samsung subtitles (CC): Use Samsung subtitles with multimedia files when available.
 - Google subtitles (CC): Use Google subtitles with multimedia files when available


Interaction and dexterity

You can configure Accessibility features to assist with limited dexterity when interacting with your device.

Alternate input: You can control your device using different kinds of inputs and controls.


- From Settings, tap  Accessibility > Interaction and dexterity and tap an option:
 - Universal switch: Control your device with your customized switches.
 - Assistant menu: Improve device accessibility for users with reduced dexterity.
 - Click after pointer stops: Automatically click on an item after the pointer stops over it.

Interactions: You can simplify the motions needed to answer phone calls or respond to notifications and alarms.

- From Settings, tap  Accessibility > Interaction and dexterity and tap an option:
 - Answering and ending calls:
 - Read caller names aloud: Hear callers' names read aloud when using Bluetooth or headsets (not included).
 - Press Volume up to answer: Use the Volume keys to answer calls.

- Answer automatically: Answer calls after a set duration when using Bluetooth or headsets (not included).
- Press Power key to end: End calls by pressing the Power key.
- Interaction control: Customize areas of screen interactions, hardkeys, and the keyboard.


Touch settings: You can adjust your screen to be less sensitive to taps and touches.

- From Settings, tap  Accessibility > Interaction and dexterity and tap an option:
 - Touch and hold delay: Select a time interval for this action.
 - Tap duration: Set how long an interaction must be held to be recognized as a tap.
 - Ignore repeated touches: Set a time duration in which to ignore repeated touches.


Advanced settings

- You can customize additional accessibility features and services for your device.
- TIP Additional accessibility apps may be downloaded from the Google Play store.


Direct access

- From Settings, tap  Accessibility > Advanced settings and tap an option:
 - Power and Volume up keys: Configure selected Accessibility settings to open by quickly pressing the Power and Volume up keys at the same time.
 - Volume up and down keys: Configure selected services to turn on when you press and hold the Volume up and Volume down keys for three seconds.

Notifications

- From Settings, tap  Accessibility > Advanced settings and tap an option:
 - Flash notification: Flash either the camera light or the screen when you receive notifications or when alarms sound.
 - Notification reminders: Set periodic reminders for any unread notifications.
 - Voice Label: Write voice recordings to NFC tags (not included) to provide you with information about objects or locations as you near them (Galaxy A20 only).

Installed services: You can install additional assistance services for your device.

- From Settings, tap  Accessibility > Installed services. NOTE Additional accessibility services are listed and configured here after they are installed.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.

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