



User Guide

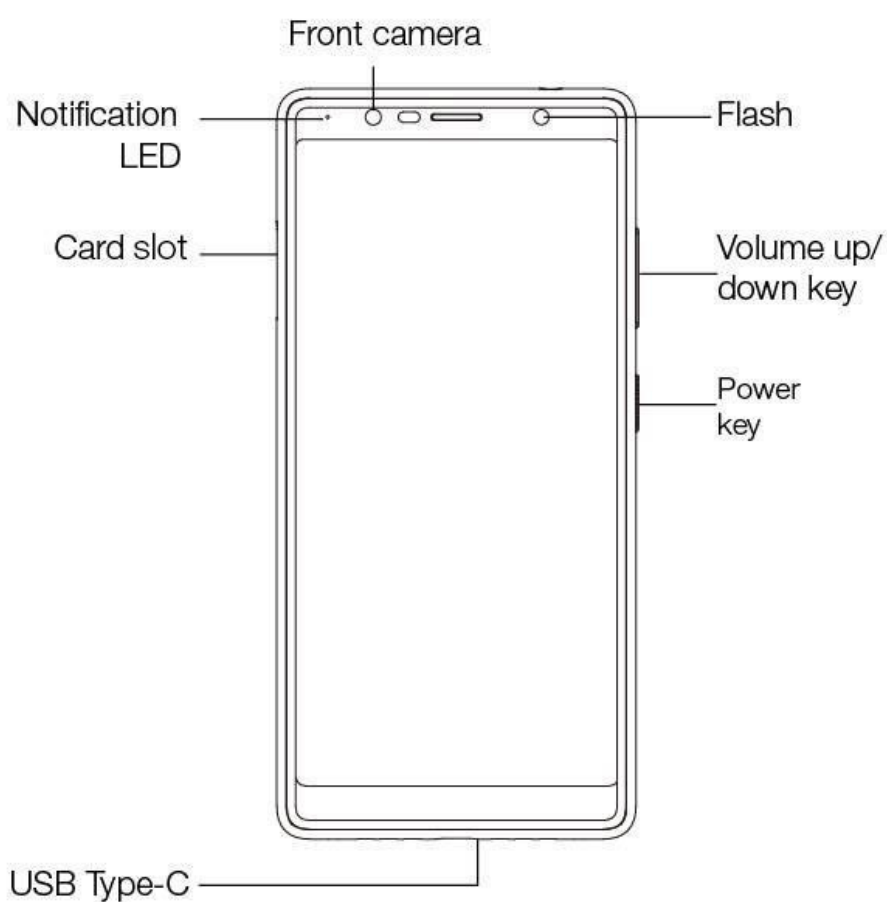
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Setup and basics

Your device at a glance

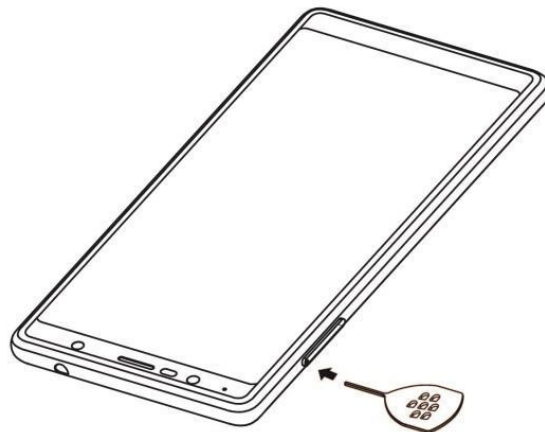


Insert the SIM card

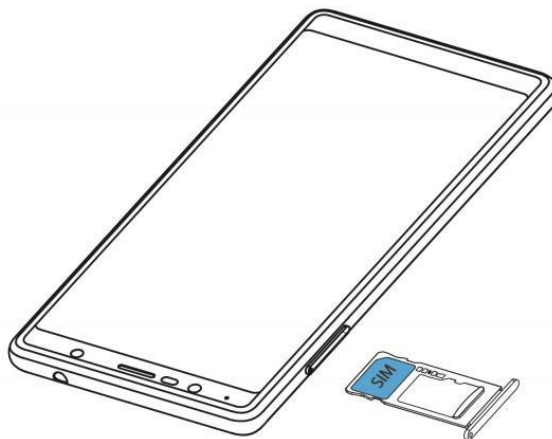
Your device uses a nano SIM card. If you don't have a SIM card or don't have the right type of SIM card, contact your service provider.

CAUTION: Do not use a larger SIM card that was cut to a smaller size. Your device might not recognize the SIM card, or the SIM card might get stuck because it is thicker than a nano SIM card.

1. Release the tray by pushing the tip of the tool (provided in the box) into the hole on the right side of your device. If you don't have the tool that came with your device, you can also use a paper clip.



2. Pull out the tray completely and set it on a flat surface.
3. Hold the SIM card so that the metal contacts are facing away from you. Align the notch on the SIM card with the notch in the smaller section of the tray.
4. Put the SIM card in the tray.

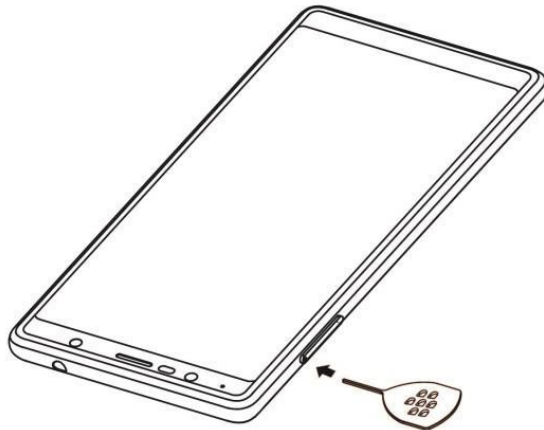


5. Push the tray back into the slot.

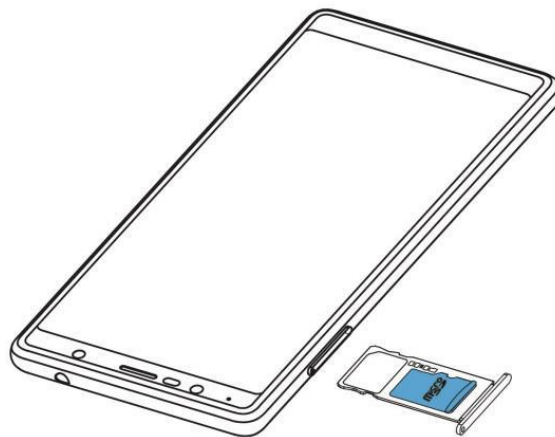
Insert a media card

If you want more storage for pictures, videos, music, and documents, you can insert a media card (microSD card).

1. Release the tray by pushing the tip of the tool (provided in the box) into the hole on the right side of your device.
If you don't have the tool that came with your device, you can also use a paper clip.



2. Pull out the tray completely and set it on a flat surface.
3. Hold the media card so that the metal contacts are facing away from you. Align the notch on the media card with the notch in the larger section of the tray.
4. Put the media card in the tray.



5. Push the tray back into the slot.

Turn your device on or off

Press and hold the **Power on/off** key (on the left side of your device).

- To turn off your device, tap **Power off**.
- To turn your device off and then on again, tap **Restart**.

Turn off the screen

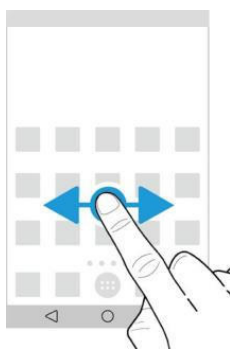
Press the **Power on/off** key (on the left side of your device).

To turn the screen back on, press the **Power on/off** key, or tap the screen twice.

Move between home screens

You can move between your home screens with a gesture on the screen.

On the screen, swipe left or right.



Get around with navigation buttons

No matter what you're doing on your device, navigation buttons appear at the bottom of your screen.

Do any of the following:

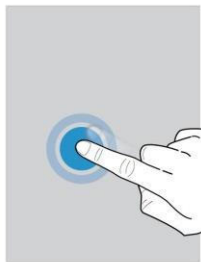
- To go back to the previous screen, tap ◀.
- To go to your home screen, tap ○.
- To see your recently opened apps and screens, tap ■.

Touch screen gestures

Take a moment to learn the common gestures that you can use on the touch screen.

Wake up your device

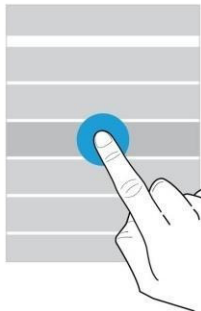
Tap the screen twice.



Select items

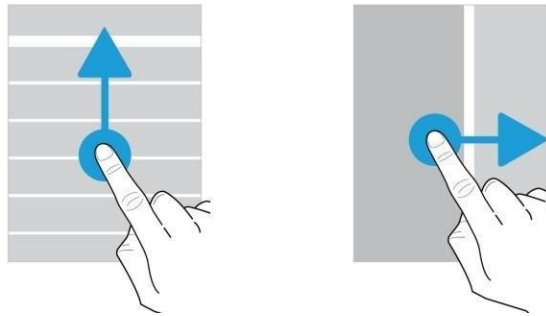
Do any of the following:

- To select an item, tap it. If the item can be opened, it opens.
- To select multiple items, such as photos that you want to share or email messages that you want to delete, touch and hold one item. Tap more items. To clear an item, tap it again.



Scroll or move between items

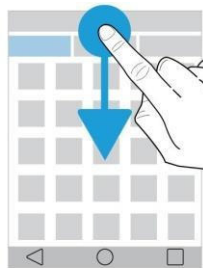
Slide your finger to scroll through a list or move between items, such as photos.



Check your notifications

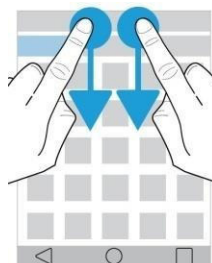
You can check your latest notifications (for example, email messages and text messages) at any time.

Swipe down from the top of the screen. Tap a notification to open it or pull down to see more notifications.



Open Quick Settings

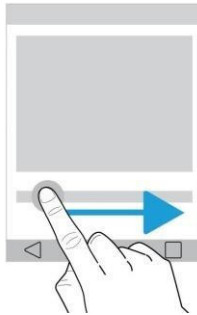
You can open Quick Settings to turn on or turn off common settings such as Wi-Fi and airplane mode. Swipe down from the top of the screen once using two fingers, or twice using one finger.



Use a slider

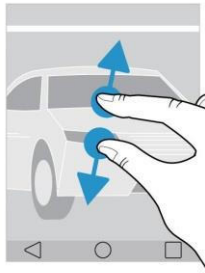
If a slider appears on your screen, you can progress through a file, such as a song or video, or adjust a setting, such as the screen brightness.

Drag the slider handle to the right or left.



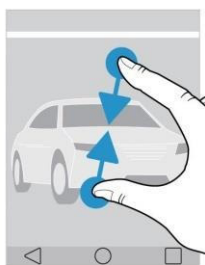
Zoom in to or zoom out from the screen

If you want to see something in more detail, such as a photo or part of a map, you can magnify the image. To zoom in, slide two fingers apart.



To zoom out, slide two fingers together.

Tip: In some cases, you can tap twice to zoom in or zoom out.



Soft Keyboard

Select text

To select a word, double-tap it or touch and hold it.

To select more, or to change your selection, drag the selection handles  and .

Switch the cursor

Tap the text box and then swipe left or right to switch the cursor.

Delete a word

Quickly swipe left on the soft keyboard to delete a word.

Type faster with suggested words

Suggested words appear while you type. They can appear above the soft keyboard or above a letter. To use a word, you can swipe up on the soft keyboard or flick the word up onto the screen.

Type an alternate character or word

You can type an alternate character or word variant, depending on the input language that you're using on your device. Press and hold a letter key. Tap the character or word.

Type numbers and symbols

Press **?123** key once to display symbols and numbers.

Cut, copy, and paste text

When you select text, a text menu appears. Tap **Cut** or **Copy**, and then touch and hold where you want to paste the text, tap **Paste**.

Switch your input language

1. To turn on input languages, swipe down from the top of the screen. Tap  > **System** > **Languages & input** > **Languages** > **Add a language**. Touch a language that you want to use.
2. To switch between input languages, while you type, press and hold the **Space** key, tap an input language.

Apps, widgets, and shortcuts

About apps, widgets, and shortcuts

When you tap  on your home screen, a tray opens where you can access installed apps and widgets and set up shortcuts.

- The **Apps** tab includes a complete list of the apps installed on your device, including apps that you download on Google Play.
- **Widgets** are like miniature apps that you can often interact with on the home screen. For example, The Bookmarks widget shows all of the websites that you have bookmarked so that you can open them right from the home screen.
- **Shortcuts** help you perform the tasks that you do the most. For example, if you frequently write email, you can set up an email shortcut. Tapping the shortcut opens an email composer.

Search for installed apps, widgets, and shortcuts

1. On the home screen, tap .
2. Enter a search term in the **Search apps, widgets, and shortcuts** field.

Add an app, a widget, or a shortcut to your home screen

1. On the home screen, tap .
2. Tap **Apps**, **Widgets**, or **Shortcuts**.
3. Touch and hold an app, a widget, or a shortcut, and then release your finger when the home screen appears.

After you add a shortcut to your home screen, you might be prompted to set up the shortcut. For example, if you add the Contact shortcut, you must tap the contact that you want to send an email to.

Sort your apps

You can sort your apps in the Apps list in several different ways:

- **Default:** The ten apps that you use the most appear at the top, followed by an alphabetical list of your apps. If you're using Android™ for Work on your device, your work apps appear at the bottom of the list.
- **Alphabetical/Classic:** Your apps are sorted alphabetically.
- **Newest:** The apps that you most recently installed appear at the top.
- **Most Used:** The apps that you use the most appear at the top.

To change how your apps are sorted, do the following:

1. On the home screen, tap .
2. Tap the drop-down list that appears in the top-right corner. If you haven't changed how your apps are sorted, the word **Default** appears beside the drop-down list.
3. Tap a sorting option.

About pop-up widgets

Pop-up widgets are associated with the apps that you add to the home screen. When you add an app that includes a pop-up widget, an indicator appears beneath the app icon (•••). Pop-up widgets are useful because they allow you to have widgets that don't take up space on the home screen.

Turn on pop-up widgets

1. On the home screen, touch and hold an empty area of the screen, and then tap .
2. Select the **Pop-up widgets** and enable the function.

Open a pop-up widget for an app

With pop-up widgets, you can access a widget for an app without having that widget on the home screen. If a pop-up widget is available for an app, an indicator (•••) appears beneath the app icon.

On the home screen, swipe up or down on an app that has a pop-up widget.

Change the pop-up widget for an app

If an app has more than one widget available, when you first swipe up or down on the app icon, you choose a widget to set as the pop-up widget. You can change the pop-up widget at any time.

1. Swipe up or down on an app icon.
2. In the upper-right corner of the widget, tap ••• > **Change widget**.
3. In the list of available widgets, tap another widget.

Turn off pop-up widgets

On the home screen, do one of the following:

- To turn off a pop-up widget, on the app icon, swipe up or down. In the upper-right corner of the widget, tap  > **Turn off pop-up widget**.

- To turn off all pop-up widgets, touch and hold an empty area of the screen, and then tap  . Disable **Pop-up widgets** function.

Personalizing your device

Learn how to personalize your device and make it uniquely yours. For example, you can change your ringtone or set a picture as your wallpaper.

- [Change your device settings](#)
- [Change your ringtone](#)
- [Change your wallpaper](#)
- [Add a contact or number to your speed dial list](#)
- [Add an app, a widget, or a shortcut to your home screen](#)
- [Change your font size](#)
- [Change how you view your recent apps and screens](#)
- [Set up or change a screen lock](#)

Phone and voice

Phone icons

During a call

Icon	Description
	Show the dial pad
	Mute your microphone Tip: You can also press the Convenience key to mute your microphone.
	Put a call on hold
	Make another call
	Turn on the speakerphone
	Merge calls to start a conference call
	Swap the calls

Find your own phone number

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **System** > **About phone** > **Status** > **SIM Status**.

Your phone number appears at the bottom of the screen. If it doesn't appear, your service provider might not have added your phone number to your SIM card. For more info, contact your service provider.

Change your ringtone

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Sound** > **Phone ringtone**.
3. Tap a ringtone, and then tap **OK**.

Tip: To use a song or a custom sound as your ringtone, move the .mp3 file you want to use to the **Ringtones** folder on your device. You might need to install a file manager app from the Google Play store first.

Making calls

Make a call

1. In the Phone app, tap .
2. Enter the number.
3. Tap .

Call a recent number

1. In the Phone app, tap .
2. Beside a name or number, tap .

Call a contact

1. In the Phone app, tap .
2. Tap a contact.
3. Tap the number that you want to call.

Tip: To send a text message to a contact, beside the number, tap .

Speed dial a contact

For more info about speed dial, see [Add a contact or number to your speed dial list](#).

1. In the Phone app, tap .
2. Tap a speed dial contact.

View your call history

You can view past outgoing, incoming, and missed calls on the History screen.

1. In the Phone app, in the upper-right corner of the screen, tap  > **Call history**.
2. Do any of the following:
 - To see the details of a specific call, tap a name or phone number, and then tap .
 - To view missed calls, tap **Missed**.
 - To clear your call history, tap  > **Clear call history** > **OK**.

Receiving calls

Answer or dismiss a call

1. If your device is locked, touch and hold .
 - To answer a call, slide your finger until it covers . Release your finger.
 - To dismiss a call, slide your finger until it covers . Release your finger.
2. If your device is unlocked, in the call notification, tap **ANSWER** or **DECLINE**.

Send a quick response to a caller

You can send a caller a brief text message instead of answering an incoming call. Depending on the recipient of the quick response, additional text messaging charges might apply.

Note: If a call is from an unknown caller, the option to send a quick response does not appear.

1. When you receive an incoming call, slide your finger until it covers  and then release your finger.
2. Do any of the following:
 - To send a default message, tap a message.
 - To compose a new message, tap **Input your own**

When you dismiss a call to send a quick response, the caller is sent to voicemail. If you do not have voicemail, the caller receives a busy signal instead.

Change your default quick response messages

You can create your own quick response messages to replace the available defaults.

1. In the Phone app, in the upper-right corner of the screen, tap  > **Settings** > **Quick responses**.
2. Tap the quick response you want to change.
3. Type a new message.

4. Tap **OK**.

Silence the ringtone when you receive a call

If you receive a call while your sound or vibration notifications are turned on, you can quickly silence your ringtone and stop your device from vibrating. After you silence the ringtone, you can still answer or decline the call.

When you receive an incoming call, press the **Volume** key.

Move a call from your headset to your device

When you have a Bluetooth headset connected to your device, incoming calls are automatically received on your headset. You can manually move the call back to the device.

1. While on a call, tap .
2. Do one of the following:
 - To move the call to your device, tap **Bluetooth**.
 - To move the call to your device speakerphone, tap **Speaker**.

Prevent calls from going to your Bluetooth headset

You can disconnect your Bluetooth headset from the Phone app so that calls are sent to your device instead.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Beside the paired headset you want to disconnect, tap Bluetooth ▼ > **MORE SETTINGS** > .
3. Clear the **Phone calls** checkbox.

Put a call on hold

While on a call, tap .

To resume a call, tap  again.

Blocking calls

Block incoming calls

When you block calls, you won't receive calls or texts from the blocked specific phone number. Contact your service provider for more information.

1. In the Phone app, in the upper-right corner of the screen, tap  > **Settings** > **Blocked numbers**.
2. tap **ADD A NUMBER**, enter a blocking phone number, tap **Block**.
3. tap  > **Unblock** to remove the blocked number.

Block a caller

Verify that the number you want to block is listed as a number for a contact in your Contacts app.

1. In the Contacts app, tap a contact.
2. Tap  > .
3. Select the **All calls to voicemail** checkbox.

Block callers who aren't contacts

You can use the priority only mode to ignore calls from callers who aren't contacts. Your phone doesn't ring when you receive a call from someone who's not in your contact list, but your device still lets you know that you missed a call.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap **Do not disturb** ▼ > **Priority only**.
3. Tap **MORE SETTINGS** > **Priority only allows** > **Calls** > **From contacts only**.

Note: By default, priority only mode lasts for one hour. To change how long it lasts, swipe down from the top of the screen once using two fingers, or twice using one finger. Tap **Do not disturb** ▼ > **Priority only**. To increase how long the mode stays on, tap , or tap **Until you turn off Do Not Disturb**.

Limit the phone numbers that you can call

When you set up and use fixed dialing numbers, you can make calls and send text messages (SMS or MMS) only to the phone numbers that you add to the fixed dialing numbers list. For example, if you give your device to your child to use, you can limit the phone numbers that your child can call. To use fixed dialing numbers, your service provider must set up your SIM card for this feature. Depending on your service provider, this feature might not be supported.

1. In the Phone app, in the upper-right corner of the screen, tap .
2. Tap **Settings** > **Calling accounts**, touch the SIM card1 or SIM card2, touch **Fixed Dialing Numbers**.
3. Tap **Enable FDN**.
4. Enter the SIM security code provided to you by your service provider.
5. Tap **OK**.
6. Tap **FDN list** >  > **Add contact**.
7. Type a name and phone number.
8. Tap **Save**.

Add a contact or number to your speed dial list

Contacts that you add to your speed dial list appear in the ★ tab in the Phone app.

1. In the Phone app, tap .
2. Tap the picture or letter beside a contact's name.
3. Tap .

Remove a contact or number from your speed dial list

1. In the Phone app, tap .
2. Touch and hold the contact you want to remove.
3. Drag the contact over  **Remove**. Release your finger.

Call waiting and call forwarding

Turn call waiting on or off

Depending on your service provider, this feature might not be supported.

1. In the Phone app, in the upper-right corner of the screen, tap .
2. Tap **Settings** > **Calling accounts**, touch the SIM card1 or SIM card2, touch **Additional settings**.
3. Tap the **Call waiting** checkbox.

Set up call forwarding

Depending on your service provider, this feature might not be available.

1. In the Phone app, in the upper-right corner of the screen, tap .
2. Tap **Settings** > **Calling accounts**, touch the SIM card1 or SIM card2, touch **Call forwarding**.
3. To change the number that your calls are forwarded to, tap a call forwarding option and type a number.

Start a conference call

1. While on a call, make or answer another call.
2. To merge the calls, tap .

Answer a second call while already on a call

Verify that call waiting is turned on.

1. While you are on a call and receive a second call, do one of the following:
 - To put the first call on hold and answer the second call, tap **Hold**.
 - To end the first call and answer the second call, tap .
2. Touch and hold , slide your finger until it covers  and then release your finger.
3. Tap  to switch the first call and the second call.
4. To merge both calls and start a conference call, tap .

To add more people to the conference call, repeat steps 1 and 2.

Make another call while already on a call

When you make another call while you're already on a call, your first call is automatically put on hold.

1. While on a call, tap .
2. Do any of the following:
 - Use the dial pad to enter a number.
 - Tap above the dial pad to go to the Phone screen. Tap a contact.
3. To merge both calls and start a conference call, tap .

To add more people to the conference call, repeat steps 1 to 3.

Remove people from a conference call

1. While in a conference call, to view the conference call participants, tap **Manage**.
2. Do one of the following:
 - To remove a person from the conference call and hang up, tap .
 - To remove a person from the conference call and keep them in a separate call, tap .

LTE calling

Turn on Voice over LTE and LTE video calling

Voice over LTE and LTE video calling provide high-definition voice and video calling using 4G LTE connections. To use LTE video calling, you must turn on Voice over LTE.

Depending on your service provider, this feature might not be supported. For more information, contact your service provider.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap .
3. Depending on the available options, tap **Network & Internet** > **Mobile network** > **Advanced** > **Enhanced 4G LTE Mode**.
4. During the call, you can switch between voice over LTE or LTE video call.

Make an LTE video call

If your service provider supports LTE video calling, you can make a video call to contacts who have this feature.

1. In the Phone app, do one of the following:
 - To dial a number, tap , and then enter the number.
 - To call a contact, tap , and then tap a contact.
 - To call a speed dial contact, tap , and then tap a contact.
2. Tap .

Note: Depending on your service provider, you might not be able to make an LTE video call to a contact directly from  or . Instead, call the contact, and then after the call connects, tap .

Switch to a voice-only call

During a video call, tap .

To switch back to a voice call, tap  again.

Switch between the front-facing and rear-facing camera

During a video call, do one of the following:

- Tap .

Answer an LTE video call

1. When you receive a call, touch and hold .
2. Do one of the following:
 - To answer the call as a video call, slide your finger until it covers .
 - To answer the call as a voice call, slide your finger until it covers .

Wi-Fi calling

Turn on Wi-Fi calling

Your device might be able to make and receive calls over Wi-Fi networks, even if you have limited or no mobile network coverage.

Depending on your service provider, this feature might not be supported. Contact your service provider for more information.

1. In the Phone app, in the upper-right corner of the screen, tap .
2. Tap **Settings** > **Calling accounts**, select SIM card1 or SIM card2, tap **Wi-Fi calling**.
3. Turn on the **Wi-Fi Calling** switch.
4. Tap **Wi-Fi calling preferences**.
 - To use a Wi-Fi network, even when you have a cellular signal, tap **Wi-Fi preferred**.
 - To only use a Wi-Fi network for calls when you don't have a cellular signal, tap **Mobile preferred**.

Make a Wi-Fi call

Make sure that  appears at the top of your screen.

1. In the Phone app, tap .
2. Enter the number.
3. Tap .

Voicemail

Set up your voicemail

Depending on your service provider, this feature might not be supported. Contact your service provider for more info.

1. In the Phone app, in the upper-right corner of the screen, tap .
2. Tap **Settings** > **Voicemail**.
3. To set up voicemail, tap **Advanced Settings** > **Setup**. If the **Voicemail number** field is blank, tap **Voicemail number**, and then enter your voicemail access number. If you don't have a voicemail access number, contact your service provider.

To call your voicemail from the Phone app, touch and hold **1** key.

Applications and features

Download an app on Google Play

1. Open the Google Play store app.
2. If necessary, sign in with your Google™ account.
3. Browse or search for an app that you want to download.
4. Tap the app, and then tap **Install**.

Organizing your home screen

Move an app, a widget, or a shortcut around

1. Touch and hold an app, a widget, or a shortcut, and then drag it to a new spot.
2. Release your finger.

Move an app or a shortcut to the favorites tray

The favorites tray appears at the bottom of each home screen, giving you easy access to your favorite apps or shortcuts. You can add up to four apps or shortcuts to the favorites tray.

1. If the favorites tray is full, touch and hold one of the apps or shortcuts in the tray. Drag it to a spot on the home screen.
2. Touch and hold the app or shortcut that you want to add, and then drag it to the favorites tray.

Add a home screen

You can add as many home screens as you want to organize your apps, widgets, and shortcuts.

1. On the home screen, touch and hold the item that you want to move, and then drag it to the right edge of the screen.
2. Hold the item at the right edge of the screen until the next home screen appears. If necessary, continue to hold the item until a blank home screen appears.
3. Release your finger.

Tip: To view different home screens quickly, tap the circles that appear above the favorites tray, and then slide your finger left or right.

Change the default home screen

Change the home screen that is displayed when you turn on your device or when you tap .

Note: You might have to tap  twice to open your default home screen.

1. On the home screen, touch and hold an empty area on the screen.
2. Above the home screen that you want to set as your default, tap .

Delete a home screen

If you're not using one of your home screens, you can delete it. If you delete the default home screen, the home screen to the right becomes the default home screen.

Note: After you delete a home screen, you can't restore it.

1. On the home screen, touch and hold an empty area of the screen.
2. Touch and hold the home screen that you want to remove, and then drag it to the **Remove** bar at the top of the screen.

Organize apps and shortcuts into folders

1. On the home screen, touch and hold an app or a shortcut.
2. Drag the app or shortcut on top of another app or shortcut that you want to include in the same folder.
3. To name the folder, tap the folder. Tap **New folder**, and then enter a name.

Uninstall an app or remove an app, a widget, or a shortcut from a home screen

If you uninstall an app, the app is no longer available on your device. You must reinstall the app if you want to use it. Some built-in apps can't be uninstalled; instead, you can turn off these apps so that they no longer appear in  and so that you no longer receive notifications for them.

If you remove an app from the home screen, the app is still installed on your device, and you can open the app from .

1. Touch and hold an app, a widget, or a shortcut.
2. Drag the app, widget, or shortcut toward the top of the screen.
 - To uninstall an app, drag the app toward **UNINSTALL**.
 - To turn off an app, drag the app toward **DISABLE**.
 - To remove an app, a widget, or a shortcut from the home screen, drag the app toward **Remove**.

You can use the Google Play store to reinstall apps that you uninstall. In the Google Play store, tap  > **My apps** > **All**.

You can turn on apps that you turned off in  > **Apps & notifications** > **See all apps**. At the top of the screen, swipe left on the categories until you see the **Disabled apps** category. Tap an app, and then tap **ENABLE**.

Messages

Using Messages

You can use the default Messages app on your device to send, receive, and manage text messages, including SMS and MMS messages.

Send a text message

1. In the Message app, tap .
2. In the **To** field, enter a mobile phone number or start typing a contact's name.
3. After enter a mobile phone number, then tap .
4. In the **Type an SMS message** field, type your message, and then tap

 . **Tip:** You can add an emoticon by tapping  in the message field.

Send a multimedia message

1. In the Messages app, tap .
2. In the **To** field, enter a mobile phone number or start typing a contact's name.

Tip: tap  or  to switch the keyboard.

3. After enter a mobile phone number, then tap .
4. Tap  and attach a media file:
 - To attach a picture you take, tap . To expand the camera view to full screen, tap .
 - To attach a picture from your library, tap .
 - To attach a sticker, tap . You can also download other stickers and attach them.
 - To attach an audio message you record, tap , and then touch and hold  to record the audio.
 - To attach your location, tap .

5. Tap .

Note: If you close the screen while composing a message, it is saved as a draft. You can tap on the conversation to resume typing the message.

Delete a message

1. In the Messages app, touch and hold the message.
2. Tap  > **Delete**.

Manage conversations

1. In the Messages app, touch and hold a conversation until a toolbar appears along the top of the screen.
2. Do any of the following:
 - To archive a conversation, tap . To return the archived conversation to your message list, touch and hold the conversation, and then tap .
 - To delete a conversation, tap .
 - To turn notifications on or off, tap  or .
 - To add a contact, tap .
 - To block a number, tap .

Search for messages in the Messages app

You can easily search the Messages app for items, such as a contact, phone number, or message.

1. In the Messages app, tap .
2. In the Search field, type your search term or terms.

Clock

Setting the alarm clock

Set an alarm

1. In the Clock app, tap .
 - To set an existing alarm, tap the time shown on the alarm.
 - To create a new alarm, tap .
2. To adjust the alarm time, tap the hour or minute. Touch and hold the dial, and then slide the dial to your desired time.
3. Tap **AM** or **PM**.
4. Tap **OK**.

Create or delete an alarm

In the Clock app, do one of the following:

- To create an alarm, tap  > .
- To delete an alarm, under the alarm that you want to delete, tap  > .

Tip: You can add labels to your alarms to help you remember what each alarm is for.

Change your alarm ringtone

1. In the Clock app, tap .
2. Under the alarm you want to change, tap  > .
3. Select a ringtone.
4. Tap **OK**.

Set an alarm for multiple days

1. In the Clock app, tap .
2. Under an alarm, tap .
3. Select the **Repeat** checkbox.
Days that the alarm is set to go off are indicated by a letter inside a white circle.
4. To add or remove a day, tap its letter.

Set the snooze length

By default, the alarm snoozes for ten minutes.

1. In the Clock app, tap  > **Settings** > **Snooze length**.
2. Slide your finger up or down over the numbers.
3. Tap a time.

Set the silence time

By default, the alarm is silenced after ten minutes.

1. In the Clock app, tap  > **Settings**.
2. Tap **Silence after**.
3. Tap a time.

Use the stopwatch

1. In the Clock app, tap .
2. Tap the stopwatch.
 - To stop the stopwatch, tap the stopwatch again.
 - To restart the stopwatch after it's been stopped, tap the stopwatch again.
 - To add a lap, tap **LAP**.
 - To reset the stopwatch, tap **RESET**.

Set the timer

1. In the Clock app, tap .
2. Enter the time in hours, minutes, and seconds. For example, if you want to set an hour-long timer, type **1 00 00**.
3. To start the timer, tap .

You can do more than just set your timer:

- To add an extra minute to your running timer, tap **+1:00**.
- To set another timer, tap **ADD TIMER**.
- To reset a timer, tap , and then tap .
- To delete a timer, tap **DELETE**.

Set your home time zone

1. In the Clock app, tap  > **Settings**.
2. Tap **Home time zone**.
3. Tap a time zone.

Tip: If you would like the clock to update automatically to your current location's time zone when you're traveling, turn on the **Automatic home clock** switch.

View the time for other locations

You can view the time for multiple locations on the clock screen.

1. In the Clock app, tap .
2. Tap .
3. Tap the locations that you want to appear on your clock screen.
4. Tap .

Remove a location from the clock screen

1. In the Clock app, tap .
2. Clear the checkbox next to the location that you want to remove.
3. Tap .

Switch to night mode

You can dim your screen and keep the time displayed like a bedside clock by switching to night mode. In the Clock app, do one of the following:

- Tap  > **Screen saver**.
- Touch and hold anywhere on the clock screen.

Change the clock style

To view the clock in either digital or analog format, in the Clock app, tap  > **Settings** > **Style** > **Analog** or **Digital**.

Location services and Google Maps

About location services

You can turn on location services so that location-based applications and services, like Google Maps, can find your location. Location-based applications can use GPS technology and other positioning information to provide you with information, such as driving directions.

From the Location settings screen, you can also see the apps that are using location services. If you decide that you don't want an app to know your location, you can turn off location permissions for that app. For more information about turning app permissions on or off, [see the help for Security](#).

Turn location services on or off

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & Location** > **Location**.
3. At the top of the screen, turn the switch on or off.

Change location modes

With location modes, you can set how accurately your device detects your location. You can choose from the following location modes:

- **High accuracy:** Uses GPS, Wi-Fi networks, mobile networks, and Google location services to find your location accurately.
- **Battery saving:** Uses Wi-Fi networks, mobile networks, and Google location services to find your location, while conserving your battery life.
- **Device only:** Uses GPS only to find your location. This mode might use more battery life than battery saving mode, and might not be as fast as high accuracy mode.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & Location** > **Location** > **Mode**.
3. Tap an option.

Turn Location History on or off

Location History is a Google service that creates a private map of where you go with your device, and uses the map to give you useful information, such as commute predictions and more relevant search results.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & Location** > **Location** > **Google Location History**.
3. If necessary, add your Google account.
4. At the top of the screen, turn the switch on or off.

About Google Maps

Google Maps helps you to find businesses, restaurants, and other places of interest, and can provide you with turn-by-turn directions to your destination.

Find help for Google Maps

Do one of the following:

- In Google Maps, tap  > **Help**.
- Visit the Maps for mobile Help Center at support.google.com/gmm/android.

Google Chrome and Downloads

Find help for Google Chrome

Visit the [Chrome for Android Help Center](https://support.google.com/chrome/android) or, in Google Chrome, tap  > **Help & feedback**.

Downloads

You can use the Downloads app to manage files that you download from email, BBM messages, hangouts, Google Chrome, and more. Streamed music and videos don't appear in the Downloads app.

Printing

Print from your device

You can print webpages, photos, documents, and more from your device using compatible Wi-Fi or Bluetooth enabled printers and printers connected to your computer. Not all applications support printing.

1. In an app, tap  > **Print**. Depending on the app, this option might appear in a different location, or might be called something different, such as **Share....**
2. Tap the top of the screen, and then tap the printer that you want to use.
3. Tap .

Note: You may have to install a printing service and add a printer before you can print.

Install a printing service

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Printing**.
3. Tap **Add service**.
4. Tap the service that's compatible with your printer, and then tap **INSTALL**. To find a compatible service, find your wireless printer's brand or consult its user guide.
5. Tap  twice, and tap .
6. Tap the printer service that you just installed. If the service isn't listed, swipe down from the top of your screen, and then tap the notification for your newly installed printer service.
7. Turn on the switch for that service. Wait for the service to find printers automatically.

Add a printer

In most cases, after you install a printer service, your device finds your printer automatically. If your device can't find your printer, you might be able to add it manually.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Printing**.
3. Tap the printer service for the printer that you want to use. If the printer service is turned off, turn it on.
4. Tap  > **Add printer**.
5. Follow the instructions on the screen.

Printing using Google Cloud Print

You can use Google Cloud Print to print from your device to a Cloud Ready printer or to any printer that's connected to a computer.

To print to a printer that's not Cloud Ready, you must also do the following:

- Make sure that Google Chrome is installed on your computer, and then log in to the same Google account that you use on your device.
- When you print, make sure that your computer is turned on.

To learn more about setting up and using Google Cloud Print, see <https://support.google.com/cloudprint/>.

Settings

Change your device settings

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap a setting or, to see more settings, tap .

Tip: To find a setting quickly, tap , and then type the setting that you're looking for.

Customize the quick settings menu

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap .
3. Drag a setting icon to another position, and then release your finger.
4. Tap  > **Reset** to use the default quick settings.

Notifications

Manage your notifications

Notifications let you know about new messages, calendar events, app updates, and more. When you receive a notification, an indicator appears in the upper-left corner of the screen.

Check and open your latest notifications

1. Swipe down from the top of the screen with one finger.
2. If necessary, pull down to see more notifications.
3. Tap a notification to open it.

Block or prioritize a notification

1. Swipe down from the top of the screen with one finger.
2. Touch and hold a notification, and **MORE SETTINGS**.
3. Turn on the **Allow notifications dot** switch, you can also disable the notification.

Dismiss a notification

1. Swipe down from the top of the screen with one finger.
2. Swipe left or right on a notification.

Note: To dismiss all of your notifications at once, tap **Clear all**.

Change the volume of your notifications

You can quickly access the volume sliders for notifications, media, and alarms when you press the "Volume up/down key" and then tap . You can also customize the volume from the device settings screen.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Sound**.
3. Drag any of the sliders to the right or left.

Note: The  **Ring volume** slider adjusts the volume for both your ringtone and your notification sounds. If you want to control these volumes separately, you can find apps for that in the Google Play store.

Change your notification sounds

Note: To change notification sounds and vibration settings for a specific app, look in the Settings screen inside the app. For example, if you want to turn off notification sounds for new emails, open BlackBerry Hub, open the Settings screen, and change the notification settings for your email account.

Change the default notification sound

The default sound only applies to apps that are set to use the default.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Sound** > **Advanced** > **Default notification sound**.
3. Tap a notification sound.
4. Tap **OK**.

To turn sounds on or off for features such as screen locking or the dial pad, tap **Other sounds**. Turn any of the switches on or off.

Add a custom notification sound

Note: If your device uses Android for Work, you can't select custom notification sounds for apps inside your work space.

1. Save the .mp3 file you want to use to the **Notifications** folder in your device's internal storage.
2. When you set the notification sound in an app's settings or change the default notification sound, tap the file name of your .mp3 file.
3. Tap **OK**.

Turn off all sounds and notifications

Do not disturb lets you quickly silence your device when you don't want to be interrupted, like in a movie theater or during an important meeting. You can also choose to receive only certain notifications, like calls or alarms.

Turn on Do not disturb

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap .
3. Tap **Total silence**, **Alarms only**, or **Priority only**.
4. To change how long do not disturb stays on, tap + or -, or tap **Until you turn this off**.
5. Tap **DONE**.

Tip: You can quickly turn on alarms only mode by pressing the **Volume down** key until the volume is all the way down, then pressing the key once more.

Keep some sounds and notifications on

You can use priority only mode to receive the notifications that are most important to you while keeping everything else silent.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Priority only** > **More settings** > **Priority only allows**.
3. Choose the types of notifications you want to keep on.

Turn off all sounds and notifications except calls

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Priority only** > **More settings** > **Priority only allows**.
3. Turn off the **Reminders** and **Events** switches.
4. Tap **Messages** > **None**.
5. Tap **Calls** > **From anyone**.

Automatically turn on Do not disturb at certain times

You can automatically turn on Do not disturb at regular times or during all events of a certain type in your calendar.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Sound** > **Do Not Disturb preference** > **Automatic rules**.
3. Tap one of the existing rules or add a new one.
4. If necessary, change the rule's settings.
5. If necessary, tap the switch at the top of the screen to turn on the rule.

Add owner info to your lock screen

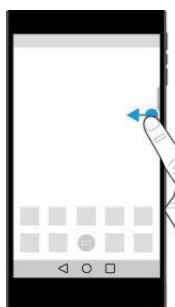
You can add your name, a personal message, or any other information that displays on your device when the screen is locked.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Screen lock** > tap  > **Lock screen message**.
3. Type your name or the message you want to display on the lock screen and tap **Save**.

BlackBerry Productivity Tab

The BlackBerry Productivity Tab provides quick access to your upcoming events, new messages, tasks, and contacts. The tab is available on all device screens.

By default, the tab is turned on and is centered on the right edge of the device screen. If you want to turn off the tab, swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Display**, and then turn off the **Productivity tab** switch.



View productivity information and open apps

1. Swipe on the tab toward the center of the screen.
2. Tap an app icon, such as Calendar or Contacts.
3. Do any of the following:
 - To see more details about an item, tap the notification.To open the app associated with the notification, tap the app icon above of the screen. You can return to the BlackBerry **Productivity Tab** screen from an app when you swipe on the tab again.

4. To close the tab, swipe toward the edge of the screen.

Create an item using the BlackBerry Productivity Tab

You can add new items, such as calendar events or email messages, right from the BlackBerry Productivity Tab without opening your calendar or email apps.

1. Swipe on the tab toward the center of the screen.
2. Tap an app icon.
3. Do one of the following:
 - To add an event, task, or contact, tap .
 - To compose an email, tap .

Customize the BlackBerry Productivity Tab settings

You can adjust the BlackBerry Productivity Tab to best suit your needs and find what works for you.

1. Swipe in on the tab toward the center of the screen.
2. Tap , and then do any of the following:
 - To remove the tab from your screen, tap **Remove**. To turn on the tab, in Display settings, turn on the **Productivity tab** switch.
 - To change the placement of the tab to another side of your device screen, tap Left edge or Right edge.
 - To change the length of the tab, slide your finger left or right on the Height slider.
 - To adjust the transparency of the tab, slide your finger left or right on the Transparency slider.

Tip: By default, the tab is centered on the side of your screen, but you can move the tab up or down along the edge of the screen. Touch and hold the tab, and drag it to your preferred spot. Release your finger to place the tab.

Storage space and media cards

Manage your files and folders

Search for a file or folder

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Storage**.
3. If necessary, tap **Internal shared storage**.
4. Tap **Files**.
5. Tap .
6. Enter a search term, and then, on the keyboard, tap .

Share, copy, or delete a file or folder

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Storage**.
3. If necessary, tap **Internal shared storage**.
4. Tap **Files**.
5. Touch and hold a file or folder.
6. Do any of the following actions:
 - To share a file, tap , and then select how you want to share the file.
 - To copy a file or folder, tap  > **Copy to...**, and then select where you want to copy the file to. Tap **Copy**.
 - To delete a file or folder, tap .

Tip: To select multiple files or folders, touch and hold a file or folder, and then tap each additional file or folder. To select all of the files in a folder or all of the folders on a screen, touch and hold a file or folder, and then tap  > **Select all**.

Sort your files or folders

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Storage**.
3. If necessary, tap **Internal shared storage**.
4. Tap **Files**.
5. Touch and hold a file or folder.
6. Tap **Name**, and then tap **Name**, **Modified**, **Type** or **size**.

Tip: To change how your files and folders are displayed, tap  or .

Using a media card

Get more space to store your ringtones, videos, pictures, songs, and more when you insert a microSD card into your device. By using a media card, you can expand your device's storage space by up to 128G. Using a media card can also help increase the performance and power efficiency of your device, and can allow you to transfer your data from your current device to another device that supports media card transfers.

Please see [Insert a media card](#).

Delete the data from your media card

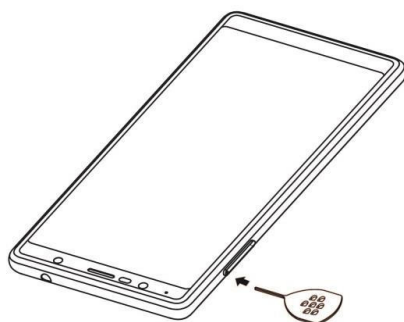
To help protect your privacy, you can format your media card to permanently delete all of the data. Depending on the amount of data, this process might take some time.

CAUTION: When you format your media card, you can't recover any of the deleted data.

1. Make sure that your device isn't connected to a computer.
2. Swipe down from the top of the screen once using two fingers, or twice using one finger.
3. Tap  > **Storage**.
4. Tap your media card.
5. Tap  > **Storage settings** > **Format**.

Remove a media card

1. Do one of the following:
 - Turn off your device.
 - Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Storage**. Tap your media card. Tap  > **Storage settings** > **Eject**.
 - Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Storage**. Tap  to unmount the media card.
2. Release the tray by pushing the tip of the tool (provided in the box) into the hole on the right side of your device. If you don't have the tool that came with your device, you can also use a paper clip.



3. Pull out the tray completely and remove the media card.
4. Push the tray back into the slot.

Check how much storage space is free

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Storage**.
3. If necessary, tap **Internal shared storage**.

4. To see more details about an item in the list, tap the item. For example, to see which apps are using the most storage space, tap **Other apps**.

Free up storage space

You may notice slower performance on your device if your device's internal storage space is full or almost full. You can try removing unnecessary files and clearing cached data to free up space and improve your device's performance.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Storage**.
3. If necessary, tap **Internal shared storage**.
4. Do any of the following:
 - To disable or uninstall an app that you don't use, tap **Games, Movie & TV apps**, or **Other apps**, and then tap an app. Tap **CLEAR DATA** or **CLEAR CACHE**.
 - To delete files that you don't need, touch and hold the file. Tap any additional files that you want to delete. Tap .
 - To delete temporary files from your device by clearing your cache, tap **FREE UP SPACE** > **FREE UP**.

Transfer files between your computer and device using a USB connection

1. Using a USB cable, connect your device to your computer.
2. On your device, swipe down from the top of the screen and tap the **Connected in charging mode** notification.
3. Tap **CHARGE & DATA**.
4. Tap **Transfer files** or **Transfer photos (PTP)**.
5. On your computer, if necessary, enter your device password. Your device and media card appear as drives on your computer.
6. Go to the files or folders that you want to copy.
7. Drag and drop the files or folders into the desired folders.
8. If necessary, before disconnecting your device, on your computer, right-click your device's drive. Click **Eject**.

Change how your device connects to your computer

Each time you connect your device to your computer, by default, your device connects in charging mode, and a notification appears in the notification tray that tells you which mode is in use. To change the connection mode, your device must be connected to your computer.

1. Swipe down from the top of the screen.
2. Tap the USB connection notification.
3. Select an option.

Connections

Wireless connection icons

The following icons might appear at the top of your screen to indicate the wireless coverage level that your device currently has.

Icon	Description
	The amount of solid color indicates the strength of the mobile signal. If the signal is weak, your device might use more power to try to maintain the connection.
VOLTE, 4G, 3G, E	Your device is connected to the mobile network and can access all of the features of your mobile network plan.
	You have no mobile network coverage. You can only make emergency calls.
R	Your device is roaming. Extra charges might apply.
	The amount of solid color indicates the strength of the Wi-Fi signal. If the signal is weak, your device might use more power to maintain the connection.
	Your device is connected to a Wi-Fi network but there is no Internet connectivity. Your device uses the mobile network instead.
	Wi-Fi is turned off on your device.
	Your device is connected to a VPN.
	Your device is in airplane mode and all of your wireless network connections are turned off. You can turn on Wi-Fi or Bluetooth technology, but not your connection to the mobile network.
	There is no SIM card in your device.

The following icons appear at the top of your screen if your device is connected or trying to connect to another device using mobile hotspot mode, Internet tethering, Bluetooth technology, a USB cable.

Icon	Description
	Mobile hotspot mode is turned on.
	Bluetooth technology is turned on. If this icon is inside a box, your device is connected to another device using Bluetooth tethering.

Turn on airplane mode

When you turn on airplane mode, all of the connections on your device turn off.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet**.
3. Turn on the **Airplane mode** switch.

After you turn on airplane mode, you can turn on certain connections, such as Wi-Fi or Bluetooth technology. This feature allows you to connect to a Wi-Fi network on an airplane, for example.

Mobile network

A mobile network connection allows your device to make calls and, if you have a data plan, use data services such as Internet browsing.

If your device is set up for roaming and you travel outside of your service provider's wireless coverage area, in most cases, your device connects to another service provider's wireless network automatically. If you're not sure whether your device is set up for roaming, or what roaming fees apply, check with your service provider before you travel.

Connect to the mobile network

To connect to the mobile network, airplane mode must be turned off.

Your device is designed to connect automatically to your service provider's mobile network after you insert your SIM card into your device. If your device doesn't connect automatically, you can manually select the mobile network.

1. Insert your SIM card into your device.
2. If necessary, swipe down from the top of the screen once using two fingers, or twice using one finger.
3. Tap  > **Network & Internet** > **Mobile network** > **Advanced**.

If you disable **Automatically select network**, tap a network from a list.

If you enable **Automatically select network**, your device will connect a network automatically.

To turn off your mobile network connection, turn on airplane mode.

Set a preferred network type

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Mobile network** > **Advanced** > **Preferred network type**.
3. Tap the type of network you prefer.

Switch mobile networks manually

If you can't connect to a mobile network or if the network signal is weak, you can try switching networks manually.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Mobile network** > **Advanced**, disable **Automatically select network**.
3. Tap a network.

Turn off data services over the mobile network

To turn off data services, you must have a SIM card in your device.

If you turn off data services, your device can't send or receive data over the mobile network and many features and apps might not work correctly.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Data usage**.
3. Turn off the **Mobile data** switch.

To turn on data services, turn on the **Mobile data** switch.

Turn off data services while roaming

Depending on your wireless service plan, you might be able to turn off data services (email messages, PIN messages, text messages with attachments, and browser service) on your device so that only the phone and basic text messaging are available. Turning off data services while roaming might prevent you from receiving additional roaming charges. For more information, contact your service provider.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Mobile network**.
3. Disable **Roaming**.

To turn on data services while roaming, tap **On**.

Change the APN settings for your default Internet connection

Your device uses Access Point Name (APN) settings to open a data connection with your service provider's wireless network. You might need to change your APN settings if you change your wireless service plan or if the default settings don't apply to your service provider. Depending on your service provider, you might not be able to change the APN settings.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Mobile network** > **Access Point Names**.
3. Do one of the following:
 - To create a new APN, tap .
 - To change an existing APN, tap an APN.
4. Complete the fields. If you don't have the required information, contact your service provider.
5. Tap  > **Save**.

To reset the default APN settings, tap  > **Reset to default**.

Troubleshooting: Mobile network

I can't connect to the mobile network

Try the following:

- Check that airplane mode is turned off. Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Network & Internet**. Check that the **Airplane mode** switch is turned off.
- Try switching to another mobile network. Please see [Switch mobile networks manually](#).
- Check that the SIM card is inserted correctly in your device. Please see [Insert the SIM card](#).

Wi-Fi network

A Wi-Fi network connection allows your device to use data services, but unlike using the mobile network, using Wi-Fi doesn't add charges to your data plan.

When you connect to a Wi-Fi network, your device saves the network information. The next time your device is within range of the saved Wi-Fi network, and Wi-Fi is turned on, your device can connect to the network automatically.

Your device can be connected to the mobile network and a Wi-Fi network at the same time. For basic data functions, such as using the Internet or downloading apps, your device is designed to try to use a saved Wi-Fi network before it tries to use the mobile network. Keep in mind that if you leave Wi-Fi turned on, your battery might lose power more quickly.

Connect to a Wi-Fi network

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Wi-Fi**.
3. If necessary, turn on the switch.
4. Tap a network.
5. If necessary, do one of the following:
 - Enter the password for the Wi-Fi network, and then tap **Connect**.
 - To connect to a Wi-Fi network at work, enter your username and password, and then tap **Connect**.
 - To connect to a public network, tap the sign-in notification and, if necessary, accept the license agreement. If necessary, tap  > **Use this network as is**.

Add a Wi-Fi network manually

If your device doesn't connect automatically to a saved Wi-Fi network, you can set up a connection to a Wi-Fi network manually. If you don't have the required information, ask your network administrator or the person who manages the Wi-Fi network.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Wi-Fi**.
3. If necessary, turn on the switch.
4. Tap **Add network**.
5. In the **Network name** field, type the SSID for the network.
6. In the **Security** drop-down list, tap the network's security type.
7. If necessary, tap **Advanced options** and specify additional information.
8. Tap **SAVE**.

Connect to a Wi-Fi network using a proxy

You can connect to any Wi-Fi network using a proxy. You must be within range of the Wi-Fi network to change the proxy settings.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Wi-Fi**.
3. If necessary, turn on the switch.
4. Connect with a network, touch and hold the network.
5. Tap **Modify network**.

6. Tap **Advanced options**. You might need to slide your finger up to see this option.
7. In the **Proxy** drop-down list, do one of the following:
 - To set up a proxy, tap **Manual**, and then enter the proxy settings.
 - To use a proxy already set up for the network, tap **Proxy Auto-Config**, and then confirm the proxy settings.
8. Tap **Save**.

Delete a saved Wi-Fi network

If you don't want your device to connect to a Wi-Fi network automatically, you can delete the information used to connect to the network.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Wi-Fi**.
3. If necessary, turn on the switch.
4. Tap the connected network, and then tap **Forget network**.

Set a static IP address for a Wi-Fi connection

You must be within range of your Wi-Fi network to change the IP settings.

By default, when you connect your device to a Wi-Fi network, your device assigns an IP address to the connection. You can set a static IP address that doesn't change each time you connect to a Wi-Fi network.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Wi-Fi**.
3. If necessary, turn on the switch.
4. Connect with a network, touch and hold the network.
5. Tap **Modify network**.
6. Tap **Advanced options**. You might need to slide your finger up to see this option.
7. In the **IP settings** drop-down list, tap **Static**.
8. Change the IP address fields.
9. Tap **SAVE**.

Change advanced settings for your Wi-Fi connections

You can change advanced settings for your Wi-Fi connections. For example, you can set whether your Wi-Fi connection remains active when your device sleeps and you can change the Wi-Fi frequency band. You can also find the Media Access Control (MAC) address and IP address for your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Wi-Fi**.
3. If necessary, turn on the switch.

4. Tap **Wi-Fi preferences** > **Advanced**.

Advanced Wi-Fi connection settings

Setting	Description
Open Network notification	Turn on this switch to receive a notification when your device is within range of a public Wi-Fi network.
Install certificates	Tap this option to install digital certificates that can identify your device when, for example, your device connects to VPN or a Wi-Fi network.
Wi-Fi Direct	Tap this option to connect with available Wi-Fi Direct compatible devices. WPS Push Button Tap this option to turn on the Wi-Fi Protected Setup feature.
WPS Pin Entry	Tap this option to enter the PIN for the Wi-Fi Protected Setup feature.

Troubleshooting: Wi-Fi connections

I can't connect to a Wi-Fi network

Start by checking the following:

- Verify that Wi-Fi is turned on. Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Network & Internet** > **Wi-Fi**. Check that the switch is turned on.
- Try turning airplane mode on and off. Please see [Turn on airplane mode](#).
- Check that your password for the Wi-Fi network is correct.
- Turn off your device, and then turn it on again.
- Delete the information used to connect to the Wi-Fi network, and then try to connect again. Please see [Delete a saved Wi-Fi network](#).
- Verify that mobile hotspot mode is turned off. If mobile hotspot mode is on, your device can't connect to a Wi-Fi network. Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Network & Internet** > **Hotspot & tethering**. Check that the **Mobile Hotspot** switch is turned off.
- Unplug your modem or router for 15 seconds, and then plug it in again.

- Try connecting your device to another Wi-Fi network at another location. If you can connect to another Wi-Fi network, the problem might be specific to the Wi-Fi network at the original location.

Try more advanced troubleshooting options:

- Try choosing a different authentication type. Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Network & Internet** > **Wi-Fi**. Touch and hold the Wi-Fi network, and then tap **Modify network**.
- Check that the time on your device is correct and synchronized with the network time. If the times are different, it could prevent your device from connecting (for example, connecting to a network might require that you have a certificate on your device, and the certificate has an expiration date).
- If you use your device for work, your organization might prevent connections to certain wireless access points. For more information, contact your administrator.

If you still can't connect, contact your Internet service provider.

Bluetooth technology

Bluetooth wireless technology allows you to create a direct connection between your device and another Bluetooth enabled device. For example, you can use a Bluetooth connection to play music through a separate speaker, make calls on a headset, share files, or connect to Android Wear™ or a car kit.

Before you can connect to a Bluetooth enabled device, you must turn on Bluetooth technology on your device and then pair the two devices. Some paired devices, for example, a car kit, usually connect to your device automatically.

Turn on Bluetooth technology

If you turn on Bluetooth technology, your device is discoverable and visible to other Bluetooth enabled devices nearby.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Bluetooth**.
3. Turn on the switch.

To turn off Bluetooth technology, turn off the switch.

Pair and connect your device with a Bluetooth enabled device

Make sure that you turn on Bluetooth technology on the device that you want to connect to.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Bluetooth**.
3. If necessary, turn on the switch.
4. To pair the devices, tap **Pair new device**, in the **Available devices** list, tap the device name, and complete the instructions on the screen. If you're prompted to enter a pairing code, try entering 0000 or 1234, or check the documentation that came with the device.
5. To connect the devices, in the **Paired devices** list, tap the device name. Your devices are ready to communicate over the Bluetooth connection.

Change the name of your device for Bluetooth connections

If you turn on Bluetooth technology, the name of your device is visible to other Bluetooth enabled devices nearby.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Bluetooth**.
3. If necessary, turn on the switch.
4. Tap **Device name**.
5. Enter a new name for your device.
6. Tap **RENAME**.

Change the settings for a paired Bluetooth enabled device

Some Bluetooth enabled devices support more than one Bluetooth feature. You can turn a feature on or off for a paired Bluetooth enabled device. You can also change the name of a paired device as it appears on your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Bluetooth**.
3. Tap  beside the device you want to change.
4. Make your changes.
5. Tap **OK**.

Delete a paired Bluetooth enabled device

If you no longer want to connect to a Bluetooth enabled device, you can delete the device from the list of paired devices.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Bluetooth**.
3. Tap  beside the device you want to disconnect.
4. Tap **FORGET**.

View a list of files you received over Bluetooth

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Bluetooth**.
3. If necessary, turn on the switch.
4. Tap **Received files**.

Supported Bluetooth profiles

Your device is a Bluetooth Smart Ready device, and supports the following profiles.

Profile	Description
Advanced Audio Distribution Profile (A2DP)	This profile allows your device to stream audio files to Bluetooth enabled devices that support stereo audio, such as stereo headsets, speakers, and car kits.
Audio/Video Remote Control Profile (AVRCP)	This profile allows you to use the buttons on a Bluetooth enabled device, such as a headset, to perform actions such as adjusting the volume or playing the next or previous media file on your device. This profile also displays information about songs on a Bluetooth enabled device.
Device Identification Profile (DID)	This profile allows Bluetooth enabled devices to access information about your device model to support plug and play features, such as automatically downloading the required drivers.
Hands-Free Profile (HFP)	This profile allows you to connect your device to Bluetooth enabled headsets and car kits to make hands-free calls. This profile supports wideband audio.
Headset Profile (HSP)	This profile allows you to connect your device to a Bluetooth enabled headset.
Human Interface Device Profile (HID)	This profile allows you to connect your device to a Bluetooth enabled device, such as a keyboard or mouse.
Human Interface Device over Gatt Profile (HOGP)	This profile allows you to connect your device to a Bluetooth Smart device, such as a keyboard or mouse.
Message Access Profile (MAP)	This profile allows a car kit to access text messages (SMS and MMS) on your device and lets you browse and read the text messages. If supported by the car kit, you can also delete, compose, and send text messages from your car.
Object Push Profile (OPP)	This profile allows your device to send files to and receive files from a Bluetooth enabled device.
Personal Area Network Profile (PAN)	This profile allows you to use your device to share your network connection when connected to a Bluetooth enabled computer. This profile also lets you connect your device to another device that is sharing its network connection.
Phone Book Access Profile (PBAP)	This profile allows a Bluetooth enabled car kit to access contact information and recent call history information on your device. This profile allows the car kit to display the contact name for an incoming call.
Serial Port Profile (SPP)	This profile allows you to connect your device to another Bluetooth enabled devices that support the Serial Port Profile for data transfer.
Remote SIM Access Profile (rSAP)	This profile allows a Bluetooth enabled device, such as a car kit, to access the SIM card on your device.

Troubleshooting: Bluetooth connections

I can't pair my device with a Bluetooth enabled device

- Check that your device and the device that you want to connect to have Bluetooth technology turned on.
- If your Bluetooth enabled device requires a passkey and you don't know what the passkey is, try 0000 or 1234, or check the documentation that came with your Bluetooth enabled device.
- If the Bluetooth enabled device uses a battery, connect the device to a power source and then try again. If the battery power level is too low, the device might be unable to pair with another device.
- Check that your device is compatible with the Bluetooth enabled device. For more information, see the documentation that came with the Bluetooth enabled device.
- If mobile hotspot mode is turned on, verify that the device that you want to connect to uses the Hands-Free, Serial Port, or Personal Area Network profile.

I keep losing the connection with my Bluetooth enabled car kit

- Check that your car kit is using the latest software version. For more information about your car kit's software version, see the documentation that came with your car kit.
- Move your device to another location in your vehicle or turn your device to face another direction. The location of your device's antenna in relation to your car kit's Bluetooth antenna may affect the Bluetooth connection.

Tethering and mobile hotspot mode

Internet tethering

Internet tethering allows another device, such as a laptop or tablet, to share your device's connection to the mobile network. You can connect the other device to your BlackBerry device using a USB cable or, if both devices are Bluetooth enabled, you can use Bluetooth technology instead.

Mobile hotspot

When you use the mobile hotspot feature, your device becomes a wireless access point for other Wi-Fi enabled devices to connect to and access the Internet. For the best performance, plug your device into a battery charger and connect it to a power source.

Since the mobile hotspot feature uses the mobile network, you might incur additional data charges.

Use Internet tethering to share your mobile network connection

If your device has a data plan, you can share its Internet connection with another device, such as a laptop or tablet. You can tether your devices using an appropriate cable or a Bluetooth connection.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Hotspot & tethering**.
3. Do one of the following:
 - Connect your device to another device using an appropriate cable, and then turn on the **USB tethering** switch.
 - Turn on the **Bluetooth tethering** switch, and then connect your device to another device using Bluetooth technology.

To stop sharing your Internet connection, turn off the **USB tethering** or **Bluetooth tethering** switch.

Use mobile hotspot to share your Internet connection

Before you turn on mobile hotspot, confirm that your device is connected to the mobile network.

When you set up your mobile hotspot, record the name of your mobile hotspot and the password. You, or the user of another device that wants to connect to your mobile hotspot, must know the name of your mobile hotspot and the password to connect.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Hotspot & tethering**.
3. To change your settings, tap **Set up Mobile Hotspot**. Make your changes, and then tap **SAVE**. To stop sharing your Internet connection, turn off the **Wi-Fi hotspot** switch.

Troubleshooting: Tethering and mobile hotspot

I can't use Internet tethering

- Check that your device is connected to the mobile network.
- Check that data services are turned on. Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Network & Internet** > **Data usage**. Confirm that the **Mobile data** switch is turned on.
- Check that your wireless service plan is set up to use Internet tethering.
- If your wireless service plan supports Internet tethering while roaming, check that data roaming is turned on. Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Network & Internet** > **Mobile networks**. Confirm that the **Roaming** setting is set to on.
- If you use your device for work, your organization might not allow Internet tethering. For more information, check with your administrator.

I can't use my device as a mobile hotspot

- Check that you're connected to the mobile network.
- Check that your wireless service plan is set up to use the mobile hotspot feature. If not, you must change your wireless service plan before mobile hotspot can work on your device.
- Your service provider might not allow the use of the mobile hotspot feature while roaming. For more information, check your wireless service plan or contact your service provider.
- If you're using your device for work, your organization might not allow the use of the mobile hotspot feature. For more information, check with your administrator.

I can't find the mobile hotspot password

- If you set up a mobile hotspot, you must enter the mobile hotspot password on the device that is trying to connect to your mobile hotspot.
- To find your password, on your BlackBerry device, swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **Network & Internet** > **Hotspot & tethering**, and then tap **Set up Wi-Fi hotspot**. Tap the **Show password** checkbox.

VPN

A connection to a virtual private network (VPN) allows your device to use a wireless network connection to send data to and receive data from a private network. For example, a VPN connection allows your device to connect securely to your organization's network when you are working outside the office. When you connect to a VPN, the security and data management policies for the private network protect your data.

Before you can connect to a VPN, you must add a VPN profile. Only the device owner can add and manage VPN profiles on your device. You might also need to install a VPN app on your device. For more information, contact your administrator or download a VPN app from the Google Play store.

Add a VPN profile

Before you can add a VPN profile, you must set a screen lock for your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Hotspot & tethering** > **VPN** > .
3. Complete the fields on the screen. If you don't know the network information, contact your administrator.
4. Tap **SAVE**.

Connect to a VPN

You must add a virtual private network (VPN) profile to your device before you can connect to a VPN.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **VPN**.
3. Tap a VPN profile.
4. Enter your login information, and then tap the **Save account information** checkbox to connect automatically next time.
5. Tap **CONNECT**.

To disconnect from a VPN, on the **VPN** screen, tap the VPN profile you are connected to. Tap **DISCONNECT**.

Connect to a VPN automatically

To connect to a VPN automatically, the VPN must support always-on mode.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **VPN**.
3. Tap  > **Always-on VPN**.
4. Complete the instructions on the screen.

To turn off always-on mode, on the **VPN** screen, tap  > **Always-on VPN** > **None** > **OK**.

Change or delete a VPN profile

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **VPN**.
3. Tap  beside the VPN profile you want to change or delete.
4. Do one of the following:
 - Change the information, and then tap **SAVE**.
 - Tap **FORGET**.

Emergency broadcast messages

Depending on your region, service provider, and wireless network, you might receive text messages (SMS or MMS) about possible threats to safety in your area. For example, you might receive messages with information about severe weather, a missing child, or a national emergency. For more information, contact your service provider or administrator.

Change the settings for emergency broadcast messages

Depending on your region, some settings might not be available.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Sound** > **Emergency alerts**.
3. Do any of the following:
 - To receive a reminder for emergency broadcast messages, tap **Alert reminder sound**, and then tap how often you want to receive a reminder.
 - To stop your device from vibrating when you receive an emergency broadcast message, unmark the **Vibrate** checkbox.
 - To stop receiving emergency broadcast messages, unmark the **Extreme threats**, **Severe threats**, and **AMBER alerts** checkboxes.

Data usage

Data usage refers to the amount of data that your device uploads and downloads when it is connected to the wireless network. If you share your device with others, you can monitor the amount of data used by the device owner, guest, and any user profiles on the device. Only the device owner can change the data usage settings.

If you exceed the data limit of your plan, your service provider might charge you additional fees. For more information about your data limit, check your wireless service plan.

Monitor your wireless data usage

You can check how much data you use by wireless network type, time period, app, or in total.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Data usage**.
3. To see your Wi-Fi usage, tap **Wi-Fi data usage**.
4. Do any of the following:
 - To check how much data you used during the current data usage cycle, view the value beside the time period.
 - To check how much data an app used, view the value beside the app name.
 - To check how much data each user profile set up on the device used, tap a user profile.
 - To check how much data you used during a different time period, beside the current time period, tap ▼ tap a date.

Tip: You can close some apps to help reduce your data usage.

Change when you get notified about data usage

Your wireless service plan must include data services.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Data usage**.
3. If necessary, turn on the **Mobile data** switch.
4. To see your cellular data usage, tap **Mobile data usage**.

Set a limit for data usage

You can set a limit on the amount of data that your device can use when it's connected to the mobile network. If your device reaches that limit, it can turn off data services and send you a notification. When data services are turned off, apps and services on your device might not work correctly.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Data usage**.
3. If necessary, turn on the **Mobile data** switch.
4. Turn on **Billing cycle** > **Set data limit** switch, and then tap **OK**.
5. Tap **Data limit**, enter the limit number, and then tap **SET**.

Stop sending background data over the mobile network

To reduce the amount of data that your device uses when connected to the mobile network, you can stop apps and services from sending data when you aren't actively using the app or service. If you restrict background data, apps and services might not work correctly unless your device connects to a Wi-Fi network.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Data usage**.
3. Tap **Data saver**, and then turn on the switch.

Stop sending data on some Wi-Fi networks

You can stop apps and services from sending data in the background, and prevent your device from downloading large files when it's connected to certain Wi-Fi networks.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Network & Internet** > **Data usage** > **Network restrictions**.
3. Tap a network name.

Troubleshooting: Device temperature

Some of the following use cases may raise the device temperature:

- Continues wireless data transfer, such as application upgrade through Wi-Fi, tethering and mobile hotspot mode;
- Prolonged calls, game playing, and internet surfing or running other complex applications.

This device temperature raise is a normal behavior of the CPU handling excessive data. Ending above actions will make your phone return to normal temperature.

Battery and power

Check your battery power level and usage info

You can see which apps and features are using the most battery power and how much battery power you have left.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Battery**.

Charge your device

CAUTION: Use the charging accessory that came with your device, or a charger specifically approved by BlackBerry for use with your device. Other chargers might not provide adequate power and might damage your device.

1. Insert the cable into the port on your device.
2. Plug the charger into a power outlet.

Keeping your battery charged

Your device uses a lithium-ion battery. To maximize your use of this type of battery, when possible, do the following:

- Avoid using your device while it's charging to help it charge faster.
- Do not leave your device plugged into a charger after it has reached a full charge.
- Avoid charging, using, or storing your device in extremely hot or cold places, such as on a vehicle dashboard.
- Avoid leaving your device turned off for an extended periods when the battery power level is low. If you plan to store your device for an extended period, partially charge the battery and put the device in a cool, dry place.

Battery and charging icons

The battery power level icons appear at the top of the screen.

Icon	Description
	The battery is charging.
	The battery is fully charged and still connected to a power source.
	The battery is getting low on power.
	Battery saver mode is turned on, or you can turn it on from your list of notifications.
	The battery is at 5% power or less. If the battery charge gets too low, your device might turn off. Save any work in progress and charge your device.
	There is a problem with the battery, and the battery might need to be replaced.

About the battery edge indicator

When turned on, the battery edge indicator appears as a strip of color on the right edge of the screen. The strip grows and transitions from red to yellow to green as your device charges.

When your device is charging, the indicator displays the percentage of your current battery power and estimates how much time is left until the device is fully charged.

To avoid disturbing you, the indicator automatically disappears when the room is dark or when your battery power level reaches 100%. If your screen is turned on, the indicator automatically disappears after eight seconds.

Turn off the battery edge indicator

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Battery**.
3. Turn off **Battery percentage**.

How can I extend battery life?

To save battery power, your device automatically goes to sleep when you aren't using it, and apps that you don't use regularly are put in standby mode.

If your battery is still draining quicker than expected, you can change some device settings to extend battery life. Swipe down from the top of the screen once using two fingers, or twice using one finger. Tap , and then change any of the following settings.

Turn off network connections that you aren't using

When your device is outside a wireless coverage area, you can turn off your mobile network or Wi-Fi connections so that your device doesn't search for a wireless network signal continuously.

In the device settings, do any of the following:

- To turn off all connections, tap **Network & Internet**. Turn on the **Airplane mode** switch.
- To turn off Wi-Fi only, tap **Wi-Fi**. Turn off the switch.

Delete saved Wi-Fi networks

1. In the device settings, tap **Network & Internet** > **Wi-Fi**.
2. Tap a Wi-Fi network, and then tap **FORGET**.

Shorten the length of time before your device goes to sleep

1. In the device settings, tap **Display**.
2. Tap **Sleep**, and then tap 15 seconds or 30 seconds.

Dim the screen

1. In the device settings, tap **Display** > **Brightness level**.
2. On the slider, drag the slider handle to the left.

Turn down the volume

1. In the device settings, tap **Sound**.
2. On the **Media volume**, **Alarm volume**, or **Ring volume** sliders, drag the slider handle to the left.

Turn off key press feedback

1. In the device settings, tap **System** > **Languages & input** > **Keyboard Settings** > **Virtual keyboard** > **BlackBerry Keyboard Settings** > **Key press feedback**.
2. Turn off the **Vibrate** switch and the **Sound** switch.

Turn on battery saver

If your device is low on battery power, you can turn on battery saver to limit features that use the most power, such as vibration, location services, and data services. You can set battery saver to turn on automatically when your battery power reaches a certain percentage.

Note: When battery saver is turned on, some applications and messaging services that rely on syncing might not update unless you open them.

1. In the device settings, tap **Battery > Battery saver**.
2. Turn on the switch.
3. To turn on battery saver automatically when your device is low on battery power, tap **Turn on automatically**. Tap a percentage.

Turn on battery optimization

By default, battery optimization is turned on for most apps and features. If you turned off battery optimization for an app, you might want to turn it back on again, at least until you have a chance to charge your device.

1. In the device settings, tap **Battery > ⋮ > Battery optimization**.
2. Tap ▼ > **All apps**.
3. Tap an app.
4. Select the **Optimize** option, and then tap **DONE**.

Device and battery safety

You should use only the battery that BlackBerry specifies for use with your particular BlackBerry device model. If you use any other battery, you might invalidate any warranty provided with your device.

CAUTION: There is a risk of explosion if the battery is replaced with an incorrect battery type. Do not try to replace your nonremovable battery. Only qualified service personnel should perform repairs or battery replacements in your device.

Device and battery disposal

Please recycle your device and battery in accordance with your local regulations. Do not dispose of either your device or battery in a fire. Your device or battery should not be placed in household waste bins.

View the safety, warranty, and privacy information for your device

Take a moment to review the license agreement, limited warranty, safety information, and privacy policies for your device. These documents are available from your device settings screen. They contain important information about terms and conditions of use, the battery, other important safety precautions, and warranty coverage.

To view BlackBerry's *Privacy Policy*, your device must be connected to the Internet.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap ⚙ > **System > About phone > Legal information > BlackBerry**.

Display

Change your wallpaper

Add your favorite photo to the home screen of your device.

1. In the Photos app, tap a picture.
2. Tap  > **Use as** > **Wallpaper**.
3. Slide your fingers apart or together to zoom in or zoom out.
4. Tap **Set wallpaper**.

Tip: To change your wallpaper, touch and hold a blank area on a home screen, tap **WALLPAPERS**. To use a picture as your wallpaper, tap **Select image** and tap a picture.

Take a screenshot

Press and hold the **Volume down** key and the **Power on/off** key at the same time.

Screenshots are saved in the **Photos > Screenshots** folder.

Change the screen brightness

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Drag  to the left or right. Or
3. Tap  > **Display** > **Brightness level**, then drag  to the left or right.

Change your font size

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Display** > **Font size**.
3. Tap the text size that you want to use.

Change your display language

The language that you selected during the initial setup of your device is your display language. The home screen, BlackBerry Hub, and supported applications display content in this language.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **System** > **Languages & input** > **Language**.

3. Tap **Add a language** to select a preference language.
4. Tap  and swipe up to the top of the list.

Turn on or turn off screen rotation

Choose whether or not your screen rotates when you turn your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  or .

Note: If you don't see the rotation icons, tap  > **Accessibility** and turn on the **Auto-rotate screen** switch.

Set the wait time for sleep mode

Set the length of time that your device remains inactive before entering sleep mode.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Display** > **Sleep**.
3. Tap a time.

Cast your screen

Using Chromecast™ or a Wi-Fi CERTIFIED Miracast device, you can display your device's screen onto your TV. With Chromecast™, you can also display content like TV shows, movies, photos, games, and websites from supported apps.

Learn more about Chromecast.

Learn more about Wi-Fi CERTIFIED Miracast.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Connected devices** > **Cast**.
3. If necessary, tap  and select the **Enable wireless display** checkbox.
4. Tap the device that you want to share your screen on.

Tip: After you set up devices that you want to share your screen on, you can access them in the Quick Settings menu by tapping .

To stop casting your screen, swipe down from the top of the screen once with two fingers or twice with one finger . Tap , then tap the device you're casting to and tap **Disconnect**.

Use your device as a flashlight

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap .

To turn off the flashlight, tap .

Accounts

Manage your accounts

Add an account

You can add an account, such as a Microsoft Exchange or Yahoo! email account, to your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Users & accounts** > **Add account**.
3. Tap the type of account that you want to add.
4. Complete the instructions on the screen.

If you added an email account to your device, you can send and respond to messages using the BlackBerry Hub. To add an email account to the BlackBerry Hub, in the BlackBerry Hub, tap  > **Account** . Complete the instructions on the screen.

Change the settings for an account

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Users & accounts**.
3. Tap the type of account, and if necessary, tap the account.
4. Make your changes.

Note: To stop syncing information for all accounts (for example, to save battery life), on the Accounts screen, tap **Account sync**, and then clear the list of checkbox.

Delete an account

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Users & accounts**.
3. Tap the type of account that you want to delete, and if necessary, tap the account.
4. Tap **REMOVE ACCOUNT**.

Accessibility

About accessibility features on your device

Your device comes with several well-established accessibility aids for people with disabilities.

For more information on the following features, visit [Android Accessibility Help](#).

- Magnification settings allow you to zoom in or zoom out to increase or decrease the display magnification.
- Google TalkBack provides audible output based on the visual information displayed on your screen.
- Switch Access allows you to navigate screens on your device using external switches.
- Font customization allows you to choose small, medium, large, or huge sizes.
- Screen Reader technology lets you select the text-to-speech application that you prefer to use (if you have downloaded an alternate text-to-speech engine on Google Play).
- Google Now™ voice assistant answers questions, makes recommendations, and performs actions.
- Voice dictation allows you to dictate text instead of typing.

- Display features, such as color inversion and color correction, are applied across all applications.
- The touch & hold delay feature lets you increase the length of time for touch responses on the screen.
- Third-party keyboards are supported.
- An accessibility shortcut is available that you can use to quickly change your accessibility settings.
- Teletypewriter (TTY) support allows you to connect to a TTY device to make and receive calls from TTY devices.
- The BlackBerry Keyboard lets you type more efficiently with contextual autocorrection, next-word prediction, and personalized learning that gets to know the way you type.
- Alerts and notifications can be customized using tone, vibration, onscreen alerts, or the LED indicator.
- An integrated hands-free speakerphone is available, or you can connect your device to a hands-free headset or Bluetooth enabled headset.

Change accessibility settings

You can turn accessibility settings on or off, such as Google TalkBack, captions, touch & hold delay, and color inversion.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Accessibility**.
3. Set the accessibility options switches.

Turn on TTY support

TTY support is designed to allow your device to connect with an external TTY device that converts received calls to text.

The TTY device that you want to connect to your BlackBerry device must operate at 45.45 bps. If your TTY device is designed for use with a 2.5-mm headset jack, you must use an adapter accessory to connect your TTY device to your device. The adapter end that plugs into the TTY device must be a male three pole mono 2.5-mm headset jack, and the end that plugs into your BlackBerry device must be a male four pole stereo 3.5-mm headset jack.

1. Connect a TTY device to your device according to the instructions that came with your TTY device.
2. In the Phone app, in the upper-right corner of the screen, tap .
3. Tap **Settings** > **Accessibility** > **TTY mode**.
4. Select one of the following TTY modes:
 - To turn off all TTY settings, tap **TTY Off**.
 - To turn on all TTY settings, tap **TTY Full**.
 - To turn on TTY Hearing Carry Over mode, tap **TTY HCO**.
 - To turn on TTY Voice Carry Over mode, tap **TTY VCO**.

Users

About users

The users feature lets you share your device with others while keeping your personal or work information private. For example, users that you add to your device can't access your info, such as your email, contacts, pictures, apps, and more. By default, your device is set up with a device owner and a guest. You can also add more user profiles to your device.

To improve privacy between users, each user should set up a screen lock. A screen lock prevents another user from accessing information in a different user profile.

All user profiles use the wireless connection information set up on the device. Any changes that a user makes to some device settings, such as Wi-Fi network connections, are available or applied to all users on the device.

All users can install app updates for any user on the device.

You (owner)

The person who sets up the device for the first time (you) is the device owner. You can add up to three users in addition to the device owner and a guest, and set whether the guest or user can use the device to make calls or send text messages. You control whether someone can add and access a user from the lock screen. You can also install app updates for all users on the device, uninstall apps from a user profile, and delete a user from the device.

Guest

You can use the guest profile to let someone borrow your device. When someone uses the guest profile, the device creates a separate space where the guest can download apps, take pictures, and use other device features. Apps and data added to your device by the guest are only available from the guest profile. When you or the guest delete the guest profile, the apps and data in the guest profile are permanently deleted from the device.

You control whether the guest can make and receive phone calls.

User

While the guest profile allows you to let someone borrow your device occasionally, you can create a user profile for someone that you share your device with frequently. A user profile creates a separate space on the device where another person can use device features and customize the device to their liking. For example, you might want to create a "kids" user profile that contains child-friendly apps. When a child wants to use your device, you can switch to the "kids" user profile and not worry that your apps or data might accidentally be deleted or changed. Apps and data added to the device by the user are only available from the user profile.

You control whether the user can make and receive phone calls, and whether the user can send and receive text messages (SMS).

Add user

A user profile creates a separate space on your device for another person to use and customize. For example, the user can add a Google account or download apps, wallpaper, and music without seeing the device owner or other users' account info, apps, and data.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Users & accounts** > **Users** > **Add user**.
3. Tap **OK**.
4. Tap the new users, and then tap **SET UP NOW**.
5. If necessary, to wake up your device, swipe up from the bottom of the screen.
6. Complete the instructions on the screen.

Switch users

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Users & accounts** > **Users**.
3. Do one of the following:
 - Tap a user.
 - Tap **Guest**.

Allow access to guest and user profiles when your device is locked

Guests and users can access their profiles from the lock screen if you set up your device to allow this feature. This feature also lets you add a user from the lock screen without having to unlock the screen first.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.

2. Tap  > **Users & accounts** > **Users**.
3. Turn on **Add users** switch.

Allow a user to make calls and send text messages

You can set whether a guest or user can make or receive calls when they use the guest profile or a user profile on your device. You can also set whether a user can send or receive text messages (SMS).

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Users & accounts** > **Users**.
3. Do any of the following:
 - Beside the guest profile, tap . Tap the **Turn on phone calls** switch.
 - Beside a user profile, tap . Tap the **Turn on phone calls & SMS** switch.

Delete a user or guest

When you delete a user from your device, you permanently delete the user's space and all of the apps and data in it. The user is no longer available from the list of users. When you delete a guest, all of the apps and data in the guest space are permanently deleted, but the guest profile remains on the device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Users & accounts** > **Users**.
3. Do one of the following:
 - Beside the user you want to delete, tap  > **Remove user** > **DELETE**.
 - Tap **Guest**. Tap  > **Users & accounts** > **Users** > **Remove guest** > **REMOVE**.

A guest or a user can delete the apps and data from the guest space or user profile space on your device. A guest can tap  > **Delete Guest from this device**. A user can tap  > **Delete <username> from this device**.

Backup and reset

About backing up device data

Each method for backing up the data on your device backs up different types of data. Consider using a combination of these methods to back up your data.

Backup method	Description
Android Backup Service	With Android Backup Service, you can back up your data to your Google account. If you must replace your device unexpectedly (for example, if your device is damaged, lost, or stolen), you can restore your data on a device running Android. The following types of data can be backed up to a Google account: • Google Calendar™ settings • Wi-Fi networks and passwords • Home screen wallpapers • Gmail™ settings • Apps installed on Google Play • Display settings • Language and input settings • Date and time settings • Third-party app settings and data (depending on the app)
Transfer files to your computer	You can connect your device to your computer using a USB cable, view your device's files in your computer's file manager, and copy the files (such as pictures and documents) to your computer. This is a manual process. BlackBerry does not provide desktop software for Android devices.
Use a third-party backup service	The Google Play store includes many apps that provide backup services. BlackBerry cannot guarantee the security or trustworthiness of these apps, so use caution when considering a third-party backup service.

Backup and restore data using Android Backup Service

Turn on Android Backup Service

After you turn on Android Backup Service, your data is backed up automatically every 24 hours when your device is plugged in, idle, and connected to a Wi-Fi network.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **System** > **Backup**.
3. Turn on the **Back up to Google Drive** switch.

After you turn on Android Backup Service, if you reset your device or switch to another Android device, your data is restored when you add the Google account that you used to back up your data to your device.

Change the Google account that you use to back up device data

If you have more than one Google account, or if you start using a new Google account, you can change the account that you use to back up your data.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **System** > **Backup** > **Account**.
3. Tap an account. If you haven't added the account to your device yet, tap **add account**, and then follow the prompts to add the account.

Automatically restore app data

If you uninstall an app and then reinstall it later, your device can automatically restore the app data if the app has opted in to use Android Backup Service. App data can be restored as long as you're using the same Google account on your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **System** > **Backup** > **App data**.
3. Turn on the **Automatic restore** switch.

Delete your device data with a factory reset

Before you switch to a new device or give away your current device, you should delete your data. A factory reset is designed to delete all of the data on your device permanently so that it can't be recovered. The permanently deleted data includes email accounts, downloaded apps, media files, documents, browser bookmarks, and settings.

Important: If you delete your device data in any other way, for example, by entering the screen lock incorrectly ten times, when your device restarts, it will not work again until you enter your Google account credentials. After a factory reset, you do not need to enter your Google account credentials.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **System** > **Backup** > **Reset options**.
3. Tap **Erase all data (Factory reset)** > **RESET PHONE**.
4. If necessary, enter your screen lock.
5. When prompted, tap **ERASE EVERYTHING**.

I can't get out of safe mode

To get out of safe mode, press and hold the **Power on/off** key (on the left side of your device). Tap **Restart**.

Update your device software

Updating your device software to the latest version can help your device stay secure and run as expected.

Do one of the following:

- To update your device software when a notification appears, swipe down from the top of the screen using one finger. On the system update notification, tap **Install**.
- To update your device software manually, swipe down from the top of the screen once using two fingers, or twice using one finger. Tap  > **System** > **System updates** > **Check for update**. If an update is available, tap **Restart & install**.

Note: Major updates can take time to download and install and require that you restart your device. To help prevent issues, keep your device connected to a power source and a reliable Wi-Fi network while the update is in progress.

Security

Locks, passwords, and protecting your data

There are several types of locks, PINs, and security features that you can use to help protect the data on your device.

If you use your device for work, your organization might have security rules in place. The organization might require you to enter a password to unlock your device or might prevent you from using the Smart Lock feature.

Screen lock

A screen lock helps prevent someone else from unlocking your device and accessing your data. When you set up a screen lock, you set whether the screen lock must be entered to turn on the device.

Some security features, such as Smart Lock, require that you set up a screen lock before you can set up the feature.

There are several types of screen locks to choose from. Each type is designed to provide a different level of security.

- **Password:** A secure password can contain letters, numbers, and symbols. A password is designed to be a strong screen lock that is difficult for someone else to figure out.
- **PIN:** A PIN must contain a minimum of four numbers. The more numbers there are in your PIN, the more secure your screen lock.
- **Pattern:** A pattern is a continuous line that connects four or more dots on a grid. You trace your pattern to unlock your device.
- **Swipe:** A swipe gesture can unlock your device.

Finger Print

1. Set up a backup screen lock (pattern, PIN, or password).
2. Touch **Settings** > **Security & Location**, and touch **Fingerprint**.
3. Follow the onscreen instructions to scan your fingerprint using the sensor on the bottom front of your phone.

Face Unlock

1. Set up a backup screen lock (pattern, PIN, or password).
2. Touch **Settings** > **Security & Location**, and touch **Face Unlock**.
3. Follow the onscreen instructions to scan your Face.

Smart Lock

The Smart Lock feature lets you set up your device to remain unlocked when it's connected to a trusted Bluetooth enabled device, when it recognizes your face or voice, or when you are carrying it in your hand, pocket, or bag. The Smart Lock feature also allows your device to remain unlocked when it's in a familiar location, such as your home or workplace.

The Smart Lock feature is a convenient way to access the data on your device, but it doesn't confirm that the device owner is the person using the device.

You must have a screen lock set before you can set up the Smart Lock feature.

Data encryption

By default, data on your device, including your account information, apps, music, pictures, and other downloaded files, is stored in a format that can be read only when your device decrypts the data. If you set up a screen lock and require that it must be entered to turn on your device, your password, PIN, or pattern is used to generate a new encryption key to decrypt your data.

SIM card PIN

You can set up a PIN for your SIM card, which you can use to help prevent unauthorized use of your SIM card in another device. For example, if you lose your SIM card and someone tries to use it in another device, the SIM card can't be used unless the PIN is entered correctly.

Network lock and unlock codes

To use a SIM card from another service provider, for example, if you're traveling and want to use a local service provider's network, you can request unlock codes (MEP codes) from your current service provider. After you insert the new SIM card, enter the unlock code.

If you exceed the number of allowed attempts to enter an unlock code, your SIM card allows emergency calls only. For assistance, contact your service provider.

Google account and factory reset protection

The factory reset protection feature uses your Google account information to help protect the data on your device. If your device is lost or stolen, the factory reset protection feature is designed to prevent someone else from being able to set up your device for use, even if that person tries to reset your device to its factory settings. The device must be set up using the same Google account information that was set up on the device before it was reset.

To use the factory reset protection feature, you must set up a screen lock and you must add your Google account to your device.

Set up or change a screen lock

Locking your device can help prevent your device from sending accidental messages or pocket dialing. Before you can unlock your device and access the data on your device, you must enter your password, PIN, or pattern, or swipe the screen.

If you use your device for work, depending on the rules set up by your administrator, you might not be able to use a pattern or swipe gesture to unlock your device.

Note: Using a swipe gesture to unlock your screen is not a secure way to prevent others from accessing the data and features on your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Screen lock**.
3. If necessary, enter your current password, PIN, or pattern.
4. Tap the type of screen lock that you want to use.
5. Complete the instructions on the screen.

Set your screen lock options

After you set up a screen lock for your device, you can set up your screen lock options. For example, you can set how long your device can be inactive before it automatically locks and whether your device automatically deletes your device data if you enter your password incorrectly ten times.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.

2. Tap  > **Security & location**, tap  besides of **Screen lock**.
3. Do any of the following:
 - To lock your device automatically after a certain amount of inactive time, tap **Automatically lock**, and then tap an interval.
 - To lock your device when you press the **Power on/off** key, turn on the **Power button instantly locks** switch.
 - To delete your device data automatically after ten unsuccessful attempts to unlock the device, turn on the **Automatically wipe** switch.
 - To display a message or owner information on the screen when the device is locked, tap **Lock screen message**. Type the info to display, and then tap **SAVE**.

Tip: To hide your password, PIN, or pattern so that it is not visible when you unlock your screen, turn off the **Security & location**, tap  besides of **Screen lock > Make passwords visible** switch.

Creating a strong password

A strong password helps prevent someone else from accessing your information. Weak passwords, such as 1234, might be easy to remember but they're easier to guess as well.

To create a strong password, avoid using a password with the following characteristics (in order of importance):

Avoid	Example
Common passwords	password
Words from a dictionary	quarter
Combining words from a dictionary	SimpleGraph
Names or addresses	Cecilia
Adding numbers at the end of a word	password145

The key is to create a strong password that you can remember easily. Consider the following tips:

Do	Example
Use as many characters as you can remember	–
Combine words from different languages	field of Kühe Instead of: field of cows
Mix character sets	größere3 stre4gth
Use the first letter from each word in a sentence	Tqbfjotld Instead of: The quick brown fox jumps over the lazy dog
Combine misspelled words	SimzleGarph Instead of: SimpleGraph

About Smart Lock

The Smart Lock feature makes it easy for you to unlock your device. You can set up your device to remain unlocked in the following situations:

- When your device is connected to a trusted Bluetooth enabled device or NFC-enabled device
- When your device is in a familiar location, such as your home or workplace
- When your device recognizes your face or voice
- When you carry your device in your hand, pocket, or bag

The Smart Lock feature can't detect who is holding your device when the device is unlocked and connected to a trusted device, in a trusted location, or passed between people while on-body detection is turned on. It might also be possible for someone who looks like you to unlock your device when you turn on the trusted face option.

If you use your device for work, depending on the rules set by your administrator, the Smart Lock feature might not be available.

Set up Smart Lock to unlock your device

Make sure that you have set a screen lock on your device. Depending on the type of Smart Lock you set up, you might need to turn on or set up other features on your device, such as Bluetooth technology, Google Maps, "Ok Google" voice detection, a trust agent, or a wireless network connection.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Smart Lock**.
3. Enter your password, PIN, or pattern, and then tap **Next**.
4. Do any of the following:
 - To keep your device unlocked when it is connected to a Bluetooth enabled device, tap **Trusted devices**.
 - To keep your device unlocked when it detects it is at home or at another trusted location, tap **Trusted places**.
 - To unlock your device when it recognizes your body, tap **On-body detection**.
 - To unlock your device when you say "Ok Google," tap **Voice Match** > **Access with Voice Match**. If necessary, set up the "Ok Google" voice detection feature, and then turn on the **Unlock with Voice Match** switch.
 - To keep your device unlocked when you carry it on your body or in a bag, tap **On-body detection**, and then turn on the switch.
5. Complete the instructions on the screen.

Turn off Smart Lock

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Smart Lock**.
3. Enter your password, pattern, or PIN, and then tap **Next**.

4. Do any of the following:
 - Tap **Trusted devices**. Tap a device, and then tap **REMOVE TRUSTED DEVICE**.
 - Tap **Trusted places**. Tap a location, and then tap **Delete**.
 - Tap **Voice Match**. Turn off the **Access with Voice Match**.
 - Tap **On-body detection**. Turn off the switch.
5. If you turn off all of your Smart Lock settings, you should also turn off the Smart Lock trust agent:
 - a. Go back to the Security screen and tap **Trust agents**.
 - b. Turn off the **Smart Lock (Google)** switch.

Protect your SIM card with a PIN

You can use a SIM card PIN to help prevent unauthorized use of your SIM card in another device. For example, if you lose your SIM card and someone tries to use it in another device, the SIM card can't be used unless the PIN is entered correctly. After you set up a PIN for your SIM card, you must enter the PIN from the lock screen to use your device.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **SIM card lock**.
3. Turn on the **Lock SIM card** switch.
4. Type a PIN, and then tap **OK**.

To remove the PIN from your SIM card, turn off the **Lock SIM card** switch. Type the PIN for your SIM card, and then tap **OK**.

Change the PIN for your SIM card

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **SIM card lock**.
3. Tap **Change SIM PIN**.
4. Follow the instructions on the screen.

About smart cards

Smart cards store certificates and private keys. You can import certificates from a smart card to your device by using an external smart card reader or a microSD smart card. Private key operations such as signing, and decryption use the smart card. Public key operations such as verification and encryption use the public certificates on your device.

You can use smart card certificates with third-party apps that support smart card technology. And you can use smart card certificates to send S/MIME-protected messages.

Troubleshooting: Locks, passwords, and protecting your data

I forgot my password, PIN, or pattern

For security reasons, the only way that you can reset your screen lock without knowing the password, PIN, or pattern is to delete all of your device data and set up the device again.

You can typically do this by entering your password, PIN, or pattern incorrectly ten times. Or, if you have a remote device management app installed on your device, such as the Android Device Manager, you can log in to the website and delete your device data.

If you add your Google account to your device, the factory reset protection feature is turned on. To set up your device again, you must add the same Google account. If you don't use the same Google account, you can't complete the setup process.

Smart Lock doesn't unlock my device as expected

Try any of the following;

- If your device doesn't unlock when you scan your face, try to improve the image Smart Lock uses to recognize your face. Tap  > **Security & location** > **Face unlock**.
- Adjust the distance between your BlackBerry device and a trusted Bluetooth enabled device. The distance of a
- Bluetooth connection can vary depending on your BlackBerry device model and the Bluetooth enabled device.

- If your device remains unlocked when it is close to a trusted location instead of when you are at the trusted location, try improving the accuracy of the trusted location. Delete the trusted location. Tap  > **Security & location** > **Location** > **Mode**. Tap **High accuracy** or **Battery saving**, and then add the trusted location again. Your device might detect a trusted location outside of the physical walls of a building, such as your house. Smart Lock might keep your device unlocked when it is within an 80-meter radius of a trusted location.
- You might need to unlock your device using your screen lock the first time you connect to a trusted device or arrive at a trusted location.

Finding and protecting a lost device

What to do if your device is lost or stolen

If you have a remote device management app, such as Android Device Manager, set up on your device, visit the remote device management website and sign in. Depending on the remote device management app installed on your device, you might be able to:

- Lock your device
- Make your device ring
- Add a phone number or message to the home screen of your device
- View the approximate location of your device on a map
- Delete all of the data on your device

If your device is not connected to the wireless network or if data services are turned off, you should still try to lock your device and delete your device data. The next time your device connects to a wireless network, or data services are turned on, your device is designed to lock and delete all the data.

If you don't have a remote device management app set up on your device, contact your service provider or your administrator and report that your device is lost or stolen. Your service provider can lock your device remotely and delete your data. If you use your device for work, your administrator might also be able to lock your device and delete your data.

If you suspect your device was stolen and you locate your device using a remote device management website, contact the local law enforcement agency to retrieve your device. Don't try to retrieve your device on your own.

Set a device administrator

By default, the Android Device Manager is set up as the device administrator for your device. If you download a third-party remote device management app to help you find your device or protect your device data, you must set the app as a device administrator.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Device admin apps**.
3. Tap the app.
4. Tap **Activate this device admin app**.

About Android Device Manager

Android Device Manager includes features designed to help you find your device and help protect the data on your device if your device is lost or stolen.

On the [Android Device Manager website](#), you can view the approximate location of your device on a map, make it ring, set a password to lock your device and display a message on the lock screen, or delete all of the data from your device. If your device is turned off, doesn't have a valid SIM card in it, or isn't connected to the wireless network, the Android Device Manager will complete the request the next time your device is turned on and connected to the wireless network.

The Android Device Manager app is preloaded on your device. If someone you know loses an Android device, you can let that person log in to the Android Device Manager app to try to find the lost device.

To learn more about how to set up and use Android Device Manager, visit support.google.com and search for Android Device Manager.

Security settings

About app permissions

When you download an app that is designed for Android 6.0 or later, you can install the app on your device without accepting any app permissions. When you use the app, the app prompts you for permission to access certain data or features on your device before it completes an action. For example, if the BlackBerry Hub wants to access your contacts, you can allow or deny the permission request.

You can also turn a permission on or off at any time, although some features of the app might not be available. In some cases, turning off a permission can prevent the app from working properly, or the app might not work at all. For example, if you turn off microphone access for the BlackBerry Keyboard, the voice dictation feature doesn't work. If you turn off camera access for the BlackBerry Camera, the app doesn't work at all.

When you download an app designed for an earlier version of the Android OS, you must accept all permissions before you can successfully install the app. If you install the app, and then later don't want the app to have access to a permission, turning off a permission stops the app from working correctly. If you don't want the app to have access to a permission, you should uninstall the app from your device.

Turn a permission on or off for an app

You can turn a permission on or off to control what features or personal information an app or an Android OS system service can access. When you turn off a permission, depending on the app, the app might continue working, but some features of the app might not be available. The app might also stop working properly, or the app might not work at all.

If you use your device for work, your administrator might control which permissions you can change.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Apps & notifications** > **See all ** apps**.
3. Do one of the following:
 - To view the permissions for an app, tap the app.
 - To view the permissions for an Android OS system app or service, tap  **Show system**, and then tap the app or service.
4. Tap **Permissions**.
5. Turn on or off a permission switch.

To see a list of apps and system services that access a specific type of permission, from the Apps screen, tap **Permissions** >  > **All permissions**, and then tap a permission.

Download apps from sources other than Google Play

Google Play is the default trusted source for downloading Android apps onto your device.

You can set up your device to let you download apps onto your device from other websites and sources. If you want to download apps from other sources, you should also set up your device to scan for malicious app activity.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Apps & notifications** > **Special app access** > **Install unknown apps**.
3. Turn on the **Install unknown apps** sources switch.
4. Tap an app, and enable **Allow from this source**.

About screen pinning

Screen pinning lets you pin one app into the foreground on your device. The feature disables the  and buttons on your device so that the only way to close a pinned app is to unpin the screen. You can set up screen pinning so that you must enter your screen lock to unpin the screen.

Screen pinning allows you to let someone else use your device, for example, to play a game or view a video, without worrying that the person might close the app and access your data.

Turn on screen pinning

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Screen pinning**.
3. Turn on the switch.
4. To unpin a screen without entering your screen lock, turn off the **Ask for password/PIN/pattern before unpinning** switch.

To turn off the screen pinning feature, turn off the switch.

Pin a screen

Make sure that you have turned on the screen pinning feature.

1. Open an app or a screen that you want to pin to the foreground of your device.
2. Tap .
3. On the app or screen that you want to pin, tap .

To unpin a screen, touch and hold  & . If necessary, enter your screen lock.

Install a certificate

Some Wi-Fi and VPN networks require your device to have a security certificate before the device can connect to the network. You can install a certificate to help identify your device. Typically, when you install a client certificate, a certification authority (CA) certificate is installed on your device at the same time.

1. Connect your device to your computer using a USB cable.
2. Copy the certificate or keystore to the root of the internal storage space on your device, your media card, or your Google Drive™ account.
3. Swipe down from the top of the screen once using two fingers, or twice using one finger.
4. Tap  > **Security & location** > **Encryption & credentials** > **Install from storage**.
Your device only displays certificates and keystores that are not already installed on your device.
5. Find and tap the certificate or keystore that you want to install.
6. If necessary, type the password for the certificate or keystore, and then tap **OK**.
After the certificate or keystore is installed, your device deletes the copy of the file on your device or media card.

7. Type a name to identify the certificate or keystore.

Remove or turn off a certificate

When you remove a certificate that you installed, it is deleted from your device. If you require the certificate again, you must reinstall it. When you turn off a system certificate, you can turn it on again.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Encryption & credentials** > **Trusted credentials**.
3. Do one of the following:
 - To view a list of installed certificates, tap the **USER** tab.
 - To view a list of system certificates, tap the **SYSTEM** tab.
4. Tap a certificate.
5. Do one of the following:
 - To remove an installed certificate, tap **REMOVE**.
 - To turn off a system certificate, tap **DISABLE**.

To turn on a certificate that you turned off, on the **SYSTEM** tab, tap the certificate. On the bottom of the certificate information screen, tap **ENABLE**.

Turn off access to the usage info for apps

Some apps and services monitor the active apps on your device. If you turn off access to this info, some apps might not work correctly.

1. Swipe down from the top of the screen once using two fingers, or twice using one finger.
2. Tap  > **Security & location** > **Apps with usage access**.
3. Tap an app and then turn off the **Permit usage access** switch.

Improving your security settings using DTEK

The **DTEK by BlackBerry** app is designed to help you monitor and control the level of security on your BlackBerry device. DTEK is preloaded on your device, and updates are available from the Google Play store.

Evaluating how security features are set up on your device

DTEK evaluates how or if you have set up security features on your device, including screen lock, factory reset protection, and remote device management.

DTEK assigns an overall security rating to your device along with a rating for each of the security features that it monitors. If a security feature receives a poor or fair rating, DTEK recommends how you can improve your security settings to achieve a better rating.

Monitoring how apps access your data

DTEK lets you see and control which third-party apps use features on your device to access your info. DTEK doesn't monitor preloaded apps or apps that your administrator might push to your device if you use your device for work.

DTEK monitors apps that:

- Take a picture or video using the camera
- Read, create, edit, or delete a contact
- Access the location of your device
- Send a text message (SMS or MMS) from your device
- Turn the microphone on or off

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