

User Guide

BlackBerry Pearl 8130 Smartphone

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BlackBerry basics

About typing input methods

You can type on your BlackBerry® device using the SureType® input method or the multi-tap input method.

SureType technology combines a traditional phone-style key layout with a familiar computer-style letter layout that is designed to provide a quick and comfortable typing and dialing experience.

SureType technology is designed to predict words as you type them. When you use SureType technology, you press the letter key for each letter in a word once until the word appears in a list that appears on the screen. For example, to type **run**, you would press the **R** key once, the **U** key once, and so on until **run** appears in the list.

When you use multi-tap, you press a letter key once to type the first letter on the key and twice to type the second letter. For example, to type **run**, you would press the  key twice, the  key once, and the  key twice.

SureType technology is the default typing input method for most fields. Multi-tap is the default typing input method for phone number and password fields.

Type text using SureType technology

1. Press the letter key once for each letter in a word.
2. Perform one of the following actions:
 - To select an item from the list that appears when you type and start typing a new word, highlight the item. Press the **Enter** key.
 - To select an item from the list that appears when you type and continue typing the same word, click the item.
 - To change a letter in a word that you are typing, highlight the letter. Click the alternate letter that appears on the screen.

To change a letter in a word after you finish typing the word, click the word. Highlight the letter. Click the alternate letter that appears on the screen.

Switch typing input methods

1. In the device options, click **Language**.
2. Perform one of the following actions:
 - To use the multi-tap input method, set the **Input Language** field to **<Language> Multitap**.
 - To use the SureType® input method, set the **Input Language** field to **<Language>**.
3. Press the **Menu** key.
4. Click **Save**.

Switch applications

1. In any application, press the **Menu** key.
2. Click **Switch Application**.
3. Perform one of the following actions:
 - If the application that you want to switch to appears, highlight an application and press the **Enter** key.
 - If the application that you want to switch to does not appear, highlight **Home Screen** and press the **Enter** key.

Assign an application to a Convenience key

Your BlackBerry® device has one Convenience key on the left side of the device and one on the right side. Depending on your theme, you might not be able to change the application that is assigned to a Convenience key.

1. In the device options, click **Screen/Keyboard**.
2. Set the **Convenience Key Opens** fields.
3. Press the **Menu** key.
4. Click **Save**.

Set owner information

Owner information appears on your BlackBerry® device screen when the device is locked.

1. In the device options, click **Owner**.
2. Type your contact information.
3. Press the **Menu** key.
4. Click **Save**.

Turn on standby mode

If you are not on a call, you can turn on standby mode to avoid pressing keys accidentally when you are not using your BlackBerry® device. Hold the **Mute** key.

To turn off standby mode, press the **Mute** key again.

About links

Links appear on your BlackBerry® device as underlined text. You can have links to various items such as phone numbers, web sites, and email addresses and can use these links to make calls, visit web sites, or start composing messages quickly.

Create a link for a PIN

You can create a link for a PIN in messages, calendar entries, tasks, or memos. If you click the link, you can send a PIN message. When typing text, type **pin:** and the PIN.

BlackBerry basics shortcuts

- To move the cursor, roll the trackball.
- To move back a screen, press the **Escape** key.
- To move to a list item or menu item, type the first letter of the item.
- To select or clear a check box, press the **Space** key.
- To view available values in a field, press the **Alt** key.
- To switch applications, hold the **Alt** key and press the **Escape** key. Continue to hold the **Alt** key and highlight an application. Release the **Alt** key.
- To return to the Home screen or application list, press the **End** key.
- To delete a highlighted item, press the **Backspace/Delete** key.

On the Home screen

- To lock the keyboard, hold the asterisk (*) key. To unlock the keyboard, press the asterisk (*) key and the **Send** key.
- To lock the device, set a password. Hold the asterisk (*) key. To unlock the device, type your password. Press the **Enter** key.
- To switch between the active notification profile and the Vibrate notification profile, hold the **#** key.

BlackBerry basics troubleshooting

I cannot type a password

Verify that you are using the multi-tap input method.

No application opens when I press a Convenience key

Verify that you have not deleted the application that you assigned to the key.

Assign a different application to the key.

Some features are not available on my device

Depending on your wireless service plan or the type of email account that is associated with your BlackBerry® device, some features might not be available on your device.

If your device is associated with an email account that uses a BlackBerry® Enterprise Server, your organization might not have set up some features or might prevent you from using some features or options. If an administrator has set an option for you, a red lock indicator appears beside the option field.

For more information about the features that are available on your device, contact your wireless service provider or administrator.

Shortcuts

BlackBerry basics shortcuts

- To move the cursor, roll the trackball.
- To move back a screen, press the **Escape** key.
- To move to a list item or menu item, type the first letter of the item.
- To select or clear a check box, press the **Space** key.
- To view available values in a field, press the **Alt** key.
- To switch applications, hold the **Alt** key and press the **Escape** key. Continue to hold the **Alt** key and highlight an application. Release the **Alt** key.
- To return to the Home screen or application list, press the **End** key.
- To delete a highlighted item, press the **Backspace/Delete** key.

On the Home screen

- To lock the keyboard, hold the asterisk (*) key. To unlock the keyboard, press the asterisk (*) key and the **Send** key.
- To lock the device, set a password. Hold the asterisk (*) key. To unlock the device, type your password. Press the **Enter** key.
- To switch between the active notification profile and the Vibrate notification profile, hold the **#** key.

Phone shortcuts

- To answer a call, press the **Send** key.
- To insert a plus sign (+) when typing a phone number, hold **0**.
- To add an extension to a phone number, press the **X** key. Type the extension number.
- To set up speed dial for a contact, on the Home screen or in the phone, hold a key.
- To turn on the speakerphone during a call, press the period (.) key. To turn off the speakerphone during a call, press the period (.) key.
- To switch the audio path to wired headphones during a call, press the period (.) key. To switch back to the previous audio path, press the period (.) key again.
- To check your voice mail, hold **1**.
- To type a letter in a phone number field, hold the **Alt** key. Use the multi-tap input method to type the letter.
- To view your contact list in the phone, hold the **Send** key.
- To switch phone numbers, in the phone, click your active phone number. Click a phone number.

Camera and video camera shortcuts

- To take a picture, press the **Right Convenience** key.

- To zoom in to a subject before taking a picture, press the **Volume Up** key.
- To zoom out from a subject before taking a picture, press the **Volume Down** key.
- To change the flash mode for a picture or to turn on low-light mode for a video, press the **Space** key.

Media shortcuts

- To pause a video or song, press the **Mute** key. To resume playing a video or song, press the **Mute** key.
- To move to the controls at the bottom of the screen when you are viewing a list of songs, press the **Space** key.
- To play the next song in a category, press **4**.
- To play the previous song in a category, press **6**.
- To amplify the volume for songs, ring tones, and videos, press the **Volume Up** key until you reach the highest volume setting. Press the **Volume Up** key four times quickly.
- To rotate a picture, press the comma (,) key.
- To zoom in to a picture, press **3**. To zoom to the original picture size, press **7**.
- To zoom out from a picture, press **9**. To zoom to the original picture size, press **7**.
- To fit a picture to the screen size, press **1**.

Message shortcuts

In a message

- To reply to a message, press the exclamation point (!) key.
- To forward a message, press the period (.) key.
- To move to the last cursor position after you close and reopen a received email message or PIN message, press **5**.

In a message list

- To open a highlighted message, press the **Enter** key.
- To compose a message from a message list, press the comma (,) key.
- To view received messages, press the **Alt** key and **3**.
- To view call logs, press the **Alt** key and the period (.) key.
- To view voice mail messages, press the **Alt** key and **7**.
- To view SMS text messages, press the **Alt** key and the question mark (?) key.
- To view all your messages, press the **Escape** key.

Move around a message list

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a message list, press **1**.
- To move to the bottom of a message list, press **7**.
- To move up a message, press **2**.

- To move down a message, press **8**.
- To move to the next date, press **6**.
- To move to the previous date, press **4**.

Typing shortcuts

- To insert a period, press the **Space** key twice. The next letter is capitalized.
- To capitalize a letter, hold the letter key until the capitalized letter appears.
- To type the alternate character on a key, press the **Alt** key and the character key.
- To type an accented or special character, hold the letter key and roll the trackball to the left or right. Click a selected character. For example, to type ü, hold **3** and roll the trackball to the left until ü is highlighted. Click the trackball.
- To type a number in a number field, press a number key. You do not need to press the Alt key.
- To type a number in a text field, hold the **Alt** key and press the number key.
- To type a letter in a number field, hold the **Alt** key and use the multi-tap input method.
- To turn on NUM lock, hold the **Shift** key and press the **Alt** key. To turn off NUM lock, press the **Alt** key.
- To switch typing input languages, in the device options, on the Language screen, verify that the **Use Input Language Shortcut** field is set to **Yes**. Hold the **Alt** key and press the **Enter** key. Continue to hold the **Alt** key and highlight a language. Release the **Alt** key.
- To type a long word quickly, type part of the word. In the list that appears when you type, highlight an item with the same initial letters as the word that you want to type. Roll the trackball to the right. In the second list that appears on the screen, highlight the word that you want to type. Press the **Enter** key.

Insert symbols

- To insert an at sign (@) or a period (.) in an email address field, press the **Space** key.
- To type a symbol, press the **Symbol** key. To view more symbols, press the **Symbol** key again. Type the letter that appears below the symbol.

Work with text

- To highlight a line of text, press the **Shift** key and roll the trackball up or down.
- To highlight text character by character, hold the **Shift** key and roll the trackball left or right.
- To cancel a text selection, press the **Escape** key.
- To cut highlighted text when typing, press the **Shift** key and the **Backspace/Delete** key.
- To copy highlighted text when typing, press the **Alt** key and click the trackball.
- To paste highlighted text when typing, press the **Shift** key and click the trackball.

Search shortcuts

- To search for a contact in a list of contacts, type the contact name or initials separated by a space.
- To search for text in an attachment, press **Q**.

- To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view. Press **Q**.

Attachment shortcuts

- To search for text in an attachment, press **Q**.

In a spreadsheet

- To move to a specific cell, press **A**.
- To view the content of a cell, press the **Space** key.
- To switch worksheets, press **O**. Highlight a worksheet. Press the **Enter** key.

In a presentation

- To switch presentation views, press **Z**.
- To move to the next slide, verify that you are viewing the presentation in slide view. Press **6**.
- To move to the previous slide in slide view, verify that you are viewing the presentation in slide view. Press **4**.

Browser shortcuts

- To insert a period (.) in the web address field, press the **Space** key.
- To insert a slash mark (/) in the web address field, press the **Shift** key and the **Space** key.
- To stop loading a web page, press the **Escape** key.
- To close the browser, hold the **Escape** key.

On a web page

- To switch between Column view and Page view, press the at sign (@) key.
- To move to a specific web page, press the period (.) key.
- To open the bookmark list, press **5**.
- To add a bookmark, press the question mark (?) key.
- To follow a link, highlight or pause on the link. Press the **Enter** key.
- To hide the banner, press the exclamation point (!) key. To view the banner, press the exclamation point (!) key.

Navigate a web page

- To move up a screen, press **3**.
- To move down a screen, press **9**.
- To move to the top of a web page, press **1**.
- To move to the bottom of a web page, press **7**.

Map shortcuts

- To zoom in to a map, press **L**.

- To zoom out from a map, press **O**.
- To view status information at the top of a map, press **Q**. To hide status information at the top of a map, press **Q**.
- To view tracking information at the bottom of a map, press the **Space** key. To hide tracking information at the bottom of a map, press the **Space** key.
- To move to the next direction on a route, press **6**.
- To move to the previous direction on a route, press **4**.

Calendar shortcuts

For shortcuts to work in Day view, in the general calendar options, change the **Enable Quick Entry** field to **No**.

- To schedule an appointment, press the period (.) key.
- To move to the next day, week, or month, press **9**.
- To move to the previous day, week, or month, press **3**.
- To move up an hour in Day view or Week view, press **2**.
- To move down an hour in Day view or Week view, press **8**.
- To move to the current date, press the exclamation point (!) key.


Phone


Phone basics

Find your phone number

In the phone, your phone number appears at the top of the screen. If you have more than one phone number associated with your BlackBerry® device, your active phone number appears at the top of the screen.

Make a call

1. On the Home screen or in the phone, perform one of the following actions:
 - Type a phone number.
 - Type part of a contact name. Highlight a contact or phone number.
2. Press the  key.

To end the call, press the  key.

Answer a second call

1. Press the **Menu** key.
2. Click **Answer - Hold Current**.

To return to the first call, press the **Menu** key. Click **Flash**.

Mute a call

During a call, press the **Mute** key.

To turn mute off, press the **Mute** key again.

Turn on the speakerphone

During a call, press the period (.) key.

To turn off the speakerphone, press the period (.) key again.

Do not hold the BlackBerry® device near your ear while you use the speakerphone. Hearing damage can occur. For more information, see the safety and product information booklet for your device.

Dial an extension

1. Press the **X** key.
2. Type the extension number.

Dial using numbers or letters

When you type a letter in a phone number, your BlackBerry® device dials the number that is associated with the letter on a conventional phone keypad.

- To type a number, press a number key.
- To type the first letter on a key, hold the **Alt** key. Press the letter key once.
- To type the second letter on a key, hold the **Alt** key. Press the letter key twice.

Switch applications during a call

1. During a call, press the **Menu** key.
2. Click **Home Screen**.

Note: If you switch to a different application and you want to end the call, press the **End** key.

Make a call when the device is locked

Verify that dialing from the Lock screen is turned on.

1. On the Lock screen, press the **Enter** key.
2. Click **Place Call**.
3. Perform one of the following actions:
 - Type a phone number.
 - Type part of a contact name. Click a contact or phone number.
4. Press the **Send** key.

To end the call, press the **End** key.

About using a headset

You can purchase an optional headset to use with your BlackBerry® device.

In the phone, you can use a headset button to answer or end a call, or turn on or turn off mute during a call. You can also use a headset button to make a call using a voice command.

Depending on your headset, you might also be able to use a headset button to pause, resume, skip, or adjust the volume of a song or a video in the media application.

For more information about using the headset, see the documentation that came with your headset.

Emergency calls

About emergency calls

Your BlackBerry® device is designed to make emergency calls even when it is locked. If the connection to the wireless network is turned off when you initiate an emergency call, your device is designed to connect to the wireless network automatically.

You can only make emergency calls by typing official emergency access numbers (for example, 911 in North America).

About Emergency Callback Mode

When you end an emergency call, the BlackBerry® device enters Emergency Callback Mode. This mode enables the operator to call you back or determine your approximate location. Depending on your service provider, Emergency Callback Mode is active for five minutes or is canceled when you make a non-emergency call.

In Emergency Callback Mode, you cannot send and receive messages or browse web pages.

Your device exits Emergency Callback Mode at any time if you make a non-emergency call.

About GPS technology

Depending on your wireless service provider, you might be able to use location-based applications and location-based services on your BlackBerry® device to get your GPS location. Location-based applications can use your GPS location to provide you with other location-based information. For example, a location-based application could use your GPS location to provide you with driving directions.

If your device is connected to a CDMA network and you make an emergency call or your device is in emergency callback mode, an emergency operator might be able to use GPS technology to estimate your location.

Note: In an emergency, always provide the emergency operator with as much information as possible. Emergency operators might not be able to estimate your location using only GPS technology.

If your device does not have an internal GPS receiver or your wireless service provider does not support location-based services and you want to use GPS technology, you can pair your BlackBerry device with a Bluetooth® enabled GPS receiver. For more information, contact your wireless service provider.

Make an emergency call

- If your keyboard or BlackBerry® device is unlocked, in the phone, type the emergency number. Press the **Send** key.
- If your keyboard or device is locked, press the **Enter** key. Click **Emergency Call**. Click **Yes**.

Turn on GPS technology

Depending on your wireless service provider, the GPS options that appear on your BlackBerry® device might differ slightly from the options that appear in this task.

1. In the device options, click **Advanced Options**.

2. Click **GPS**.
3. Change the **GPS Services** field to **Location On**.
4. Press the **Menu** key.
5. Click **Save**.

To turn off GPS technology, change the **GPS Services** field to **Location Off**.

Volume

Adjust the volume

- To increase the volume, press the **Volume Up** key.
- To decrease the volume, press the **Volume Down** key.

Change the default volume for calls

You can increase or decrease the default volume for calls. The higher the volume percentage, the louder the volume.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Default Call Volume** field.
5. Press the **Menu** key.
6. Click **Save**.

Improve sound quality during a call

You can only change sound quality for the earpiece on your BlackBerry® device.

1. During a call, press the **Menu** key.
2. Click **Enhance Call Audio**.
3. Select a bass or treble option.

Improve sound quality for all calls

You can only change sound quality for the earpiece on your BlackBerry® device.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Enhance Call Audio** field.
5. Press the **Menu** key.
6. Click **Save**.

Voice mail

Check your voice mail

Verify that you have a voice mail access number.

Depending on your theme, you might be able to check your voice mail from the Home screen.

1. In the phone, press the **Menu** key.
2. Click **Call Voice Mail**.

Change the voice mail access number

If a voice mail access number is not already set on your BlackBerry® device, you can type the access number for a different voice mail system. If you have more than one phone number associated with your device, you can only set the voice mail access number for the active phone number.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Voice Mail**.
4. Type a voice mail access number and a password.
5. Press the **Menu** key.
6. Click **Save**.

Speed dial

Set up speed dial for a contact

1. In the phone, press the **Menu** key.
2. Click **View Speed Dial List**.
3. Click an unassigned key.
4. Click **New Speed Dial**.
5. Click a contact.

To make a call using speed dial, in the phone, on the Home screen, in a message, or in a message list, hold the key that you assigned to the contact.

Change the contact assigned to a speed dial key

1. In the phone, press the **Menu** key.
2. Click **View Speed Dial List**.
3. Click a contact or phone number.
4. Perform one of the following actions:

- To change the contact that is assigned to a speed dial key, click **Edit**. Click a new contact.
- To assign the contact to a different speed dial key, click **Move**. Roll the trackball to move the contact to the new speed dial key. Click the trackball.
- To delete the contact from the speed dial list, click **Delete**.

Conference calls

Make a conference call

You cannot add more than two contacts to a conference call.

1. During a call, press the **Menu** key.
2. Click **Conference Call**.
3. Type a phone number or highlight a contact.
4. Press the **Send** key.
5. During the second call, press the **Send** key.

Create a phone number link for a conference call

1. Type a phone number for the conference call bridge.
2. Type **X** and the access code.

Leave a conference call

Verify that your wireless service provider supports this feature.

If you make a conference call, you can leave the conference call and the call continues without you.

1. During a conference call, press the **Menu** key.
2. Click **Flash**.

Caller ID

Add a caller ID picture for a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Add Picture**.
4. Highlight a picture.
5. Press the **Menu** key.
6. Click **Select**.
7. Center the picture in the box.

8. Press the **Menu** key.
9. Click **Crop and Save**.

Change the caller ID picture for a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Edit**.
4. Highlight the caller ID picture.
5. Press the **Menu** key.
6. Click **Replace Picture**.
7. Highlight a picture.
8. Press the **Menu** key.
9. Click **Select**.
10. Center the picture in the box.
11. Press the **Menu** key.
12. Click **Crop and Save**.

Delete the caller ID picture for a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Edit**.
4. Click the caller ID picture.
5. Click **Delete Picture**.
6. Press the **Menu** key.
7. Click **Save**.

Call logs

About call logs

Call logs include the date on which you called your contact, the phone number that you called, and the duration of the call. You can also add notes to your call logs. You can view call logs in the phone or, depending on how you set your call logging options, you can view call logs in a message list. Depending on your theme, missed calls might also appear on the Home screen.

Your BlackBerry® device stores call logs for 30 days.

View call logs in a message list

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Call Logging**.
4. Select an option for a call log type.

To hide call logs in a message list, select the **None** option.

Add notes to a call log

1. In the phone, highlight a call log.
2. Press the **Menu** key.
3. Click **View History**.
4. Press the **Menu** key.
5. Click **Add Notes**.
6. Type call notes.
7. Click the trackball.
8. Click **Save**.

Change call log notes

1. In the phone, highlight a call log.
2. Press the **Menu** key.
3. Click **View History**.
4. Press the **Menu** key.
5. Click **Edit Notes**.
6. Change the call notes.
7. Click the trackball.
8. Click **Save**.

Send a call log

1. In the phone, highlight a call log.
2. Press the **Menu** key.
3. Click **View History**.
4. Press the **Menu** key.
5. Click **Forward**.

Delete call log notes

1. In the phone, highlight a call log.
2. Press the **Menu** key.
3. Click **View History**.
4. Press the **Menu** key.
5. Click **Edit Notes**.
6. Press the **Menu** key.
7. Click **Clear Field**.
8. Click the trackball.
9. Click **Save**.

Call forwarding

About call forwarding

Depending on your wireless service provider, one or more call forwarding phone numbers might already be available on your BlackBerry® device. You might not be able to change or delete these phone numbers or add new ones. If you have more than one phone number associated with your BlackBerry® device, you can only change call forwarding options for the active phone number.

For more information, contact your wireless service provider.

Prerequisites: Call forwarding

- Verify that your wireless service plan includes this service.

Forward calls

Verify that you have one or more call forwarding numbers.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Press the **Menu** key.
5. Click a call forwarding number.
6. Press the **Menu** key.
7. Click **Save**.

To stop forwarding calls, change the **Forward All Calls** field to **Do Not Forward**.

Add a call forwarding phone number

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Press the **Menu** key.
5. Click **New Number**.
6. Type a phone number.
7. Press the **Enter** key.
8. Press the **Menu** key.
9. Click **Close**.

Change a call forwarding phone number

You can only change call forwarding phone numbers that you have added.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Press the **Menu** key.
5. Click **Edit Numbers**.
6. Click a phone number.
7. Click **Edit**.
8. Change the phone number.
9. Click the trackball.

Delete a call forwarding phone number

You can only delete call forwarding phone numbers that you have added.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Call Forwarding**.
4. Press the **Menu** key.
5. Click **Edit Numbers**.
6. Click a phone number.
7. Click **Delete**.

Smart dialing

About smart dialing

You can change smart-dialing options to specify a default country code and area code for phone numbers. If you specify a default country code and area code, when you make calls, you only need to dial a country code and area code when the codes differ from the codes that you specified in the smart-dialing options.

In the smart-dialing options, you can also specify the main phone number for an organization that you call frequently. If you specify a phone number for an organization, you can call a contact at the organization quickly by dialing the contact's extension only. Likewise, when you add a contact from the organization to your address book, you only need to type the contact's extension.

Set the default country code and area code

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Smart Dialing**.
4. Set the **Country Code** and **Area Code** fields.
5. In the **National Number Length** field, set the default length for phone numbers in your country.
6. Press the **Menu** key.
7. Click **Save**.

Note: When you calculate the default length for phone numbers, include your area code and local number, but do not include your country code or the National Direct Dialing prefix.

Set options for dialing extensions

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Smart Dialing**.
4. In the **Number** field, type the main phone number for an organization.
5. Set how long the BlackBerry® device waits before dialing an extension.
6. In the **Extension Length** field, set the default length for extensions.
7. Press the **Menu** key.
8. Click **Save**.

TTY support

About TTY support

When you turn on TTY support and you connect your BlackBerry® device to a TTY device, you can make calls to and receive calls from TTY devices. Your BlackBerry device is designed to convert received calls to text that you can read on your TTY device.

Prerequisites: TTY support

- Verify that your wireless service provider supports this feature.
- Verify that your TTY device operates at 45.45 bits per second.
- Verify that you have inserted the TTY device connector into the headset jack on your BlackBerry® device. 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 BlackBerry device. To get an adapter accessory that Research In Motion has approved for use with your BlackBerry device, visit www.shopblackberry.com.

Turn on TTY support

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **TTY**.
4. Set the **TTY Mode** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

A TTY indicator appears in the device status section of the screen.

To turn off TTY support, set the **TTY Mode** field to **No**.

Multiple phone numbers

About multiple phone numbers

Your BlackBerry® device might support more than one phone number, or your device might be associated with a phone number provided by your wireless service provider and an enterprise voice phone number provided by your organization.

If you have more than one phone number associated with your device, you can switch the phone number that you use as your active phone number. You make calls from and receive calls to your active phone number. During a call, you can use your active phone number only. For example, you cannot place one call on hold and make a second call using another phone number.

Switch the active phone number

Verify that your BlackBerry® device is connected to the wireless network.

1. In the phone options, click **General Options**.
2. Change the **Active Line** field.
3. Press the **Menu** key.
4. Click **Save**.

Phone options

Turn on dialing from the Lock screen

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Allow Outgoing Calls While Locked** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

Sort phone numbers or contacts on the Phone screen

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Perform one of the following actions:
 - To sort phone numbers or contacts by frequency of use, set the **Phone List View** field to **Most Used**.
 - To sort contacts alphabetically by contact name, set the **Phone List View** field to **Name**.
 - To sort phone numbers or contacts by recency of use, set the **Phone List View** field to **Most Recent**.
5. Press the **Menu** key.
6. Click **Save**.

To sort phone numbers or contacts by call logs again, set the **Phone List View** field to **Call Log**.

Hide or display your phone number when you make calls

The wireless network can override the option that you choose.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Perform one of the following actions:

- To request that your phone number is hidden, set the **Restrict My Identity** field to **Always**.
 - To request that your phone number is displayed, set the **Restrict My Identity** field to **Never**.
 - To request that the network decide whether to hide or display your phone number, set the **Restrict My Identity** field to **Network Determined**.
5. Press the **Menu** key.
 6. Click **Save**.

Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete messages, call logs, contacts, calendar entries, tasks, memos, or passwords.

1. In an application, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Confirm Delete** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Stop ending calls when you insert your device in the holster

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Auto End Calls** field to **Never**.
5. Press the **Menu** key.
6. Click **Save**.

Answer calls automatically when you remove your device from the holster

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Auto Answer Calls** field to **Out Of Holster**.
5. Press the **Menu** key.
6. Click **Save**.

Reset a call timer

1. In the phone, press the **Menu** key.
2. Click **Status**.

3. Click **Last Call** or **Total Calls**.
4. Click **Clear Timer**.
5. Press the **Menu** key.
6. Click **Save**.

About telecoil mode

In telecoil mode, the magnetic signal of the BlackBerry® device is modified to an appropriate level and frequency response to be picked up by hearing aids that are equipped with telecoils.

Turn on telecoil mode

Verify that your BlackBerry® device supports telecoil mode. For more information, contact your wireless service provider.

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Hearing Aid Mode**.
4. Set the **Mode Enabled** field to **Telecoil**.
5. Press the **Menu** key.
6. Click **Save**.

The H-T telecoil indicator appears in the device status section of the screen.

Phone shortcuts

- To answer a call, press the **Send** key.
- To insert a plus sign (+) when typing a phone number, hold **0**.
- To add an extension to a phone number, press the **X** key. Type the extension number.
- To set up speed dial for a contact, on the Home screen or in the phone, hold a key.
- To turn on the speakerphone during a call, press the period (.) key. To turn off the speakerphone during a call, press the period (.) key.
- To switch the audio path to wired headphones during a call, press the period (.) key. To switch back to the previous audio path, press the period (.) key again.
- To check your voice mail, hold **1**.
- To type a letter in a phone number field, hold the **Alt** key. Use the multi-tap input method to type the letter.
- To view your contact list in the phone, hold the **Send** key.
- To switch phone numbers, in the phone, click your active phone number. Click a phone number.

Phone troubleshooting

I cannot make or receive calls

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- If you have traveled to another country and you have not changed your smart-dialing options, dial the full phone number, including the country code and area code, for your contact.
- If you are not receiving calls, verify that call forwarding is turned off.
- If you have more than one phone number associated with your device, you can make calls using the active phone number only.

I cannot make calls using a voice command

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- If you are using a Bluetooth® enabled device, such as a handsfree car kit or wireless headset, verify that the Bluetooth enabled device supports this feature and that you have paired the Bluetooth enabled device with your BlackBerry device.
- Verify that your keyboard is unlocked.
- Verify that the language that you use to say voice commands is the same as the voice dialing language that you have set in the language options. Certain languages might not be supported.

My device does not recognize names or numbers in voice commands

Try performing the following actions:

- Say the first name and the last name of your contact.
- If your BlackBerry® device does not often identify matches, set the matching sensitivity level to reject less.
- If your device often identifies incorrect matches, set the matching sensitivity level to reject more.
- Improve voice recognition of numbers.

I cannot check my voice mail

If you have more than one phone number associated with your BlackBerry® device and you are trying to check your voice mail using a shortcut key, your device calls the voice mail access number for your active phone number.

Try checking the voice mail for your alternate phone number.

I cannot join a call

If your BlackBerry® device is associated with an enterprise voice phone number, you cannot join a call that you make from or receive to your enterprise voice phone number with a call that you make from or receive to the phone number provided by your wireless service provider.

Voice dialing

Make a call using a voice command

If you are using a Bluetooth® enabled device, such as a handsfree car kit or wireless headset, verify that the Bluetooth enabled device supports this feature and that you have paired the Bluetooth enabled device with your BlackBerry® device.

You cannot make calls to emergency numbers using voice commands.

1. In the voice dialing application, wait for the sound.
2. Say "**Call**" and a contact name or phone number.

To end the call, press the **End** key.

Dial an extension using a voice command

Verify that you have set smart dialing options.

You can dial extensions only within your company.

Say "**Call extension**" and the extension number.

Check your phone number using a voice command

1. In the voice dialing application, wait for the sound.
2. Say "**Check my phone number.**"

Check the wireless coverage level using a voice command

1. In the voice dialing application, wait for the sound.
2. Say "**Check coverage.**"

Check the battery power level using a voice command

1. In the voice dialing application, wait for the sound.
2. Say "**Check battery.**"

Change the voice dialing language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your wireless service provider or administrator.

1. In the device options, click **Language**.
2. Change the **Voice Dialing Language** field.

3. Press the **Menu** key.
4. Click **Save**.

Turn off choice lists for voice commands

If your BlackBerry® device identifies more than one possible match to a voice command, your device presents you with a list of possible matches, or a choice list. You can turn off choice lists so that your device always selects the best match and dials the phone number automatically.

1. In the device options, click **Voice Dialing**.
2. Set the **Choice Lists** field to **Always Off**.
3. Press the **Menu** key.
4. Click **Save**.

Turn off voice prompts

After you say a command, you might be prompted for further information or clarification. You can turn off voice prompts using a voice command.

1. In the voice dialing application, wait for the sound.
2. Say "**Turn prompts off**."

To turn on voice prompts again, say "**Turn prompts on**."

Set playback options for voice dialing

After you say the phone number or contact that you want to call, your BlackBerry® device plays your choice back for you. You can set different playback options.

1. In the device options, click **Voice Dialing**.
2. Perform any of the following actions:
 - To turn off playback for phone numbers, set the **Digit Playback** field to **Disabled**.
 - To turn off playback for contacts, set the **Name Playback** field to **Disabled**.
 - To set how quickly playback for contacts occurs, set the **Name Playback Speed** field.
 - To set the playback volume for contacts, set the **Name Playback Volume** field.
3. Press the **Menu** key.
4. Click **Save**.

Set the matching sensitivity level for voice commands

1. In the device options, click **Voice Dialing**.
2. Perform one of the following actions:

- To increase matches, set the **Sensitivity** field closer to **Reject Less**.
 - To reduce the number of incorrect matches, set the **Sensitivity** field closer to **Reject More**.
3. Press the **Menu** key.
 4. Click **Save**.

Improve voice recognition of numbers

1. In the device options, click **Voice Dialing**.
2. Press the **Menu** key.
3. Click **Adapt Digits**.
4. Complete the instructions on the screen.

Voice dialing troubleshooting

I cannot make calls using a voice command

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- If you are using a Bluetooth® enabled device, such as a handsfree car kit or wireless headset, verify that the Bluetooth enabled device supports this feature and that you have paired the Bluetooth enabled device with your BlackBerry device.
- Verify that your keyboard is unlocked.
- Verify that the language that you use to say voice commands is the same as the voice dialing language that you have set in the language options. Certain languages might not be supported.






My device does not recognize names or numbers in voice commands

Try performing the following actions:

- Say the first name and the last name of your contact.
- If your BlackBerry® device does not often identify matches, set the matching sensitivity level to reject less.
- If your device often identifies incorrect matches, set the matching sensitivity level to reject more.
- Improve voice recognition of numbers.

Camera and video camera

Take a picture

1. In the camera, click the trackball.
2. Perform one of the following actions:
 - To take another picture, click the  icon.
 - To set the picture as a caller ID picture or Home screen background, click the  icon.
 - To rename and save the picture, click the  icon.
 - To send the picture, click the  icon.
 - To delete the picture, click the  icon.

Zoom in to or out from a subject

In the camera, perform one of the following actions:







- To zoom in, roll the trackball up.
- To zoom out, roll the trackball down.

View the number of remaining pictures

In the camera, the approximate number of pictures that you can save appears in the lower-left corner of the screen.

Record a video

Verify that you have inserted a media card into your BlackBerry® device.

1. In the video camera, click the trackball.
2. To pause recording, click the trackball.
3. Perform one of the following actions:
 - To resume recording, click the  icon.
 - To stop recording and save the video, click the  icon.
 - To play the video, click the  icon.
 - To rename and save the video, click the  icon.
 - To delete the video, click the  icon.
 - To send the video, click the  icon.

View the amount of memory available for recording videos

In the video camera, the approximate amount of memory available for recording videos appears in the lower-left corner of the screen.

Camera and video camera options

Change the location for storing pictures or videos

1. In the camera or video camera, press the **Menu** key.
2. Click **Options**.
3. Perform one of the following actions:
 - In the camera, change the **Store Pictures** and **Folder** fields.
 - In the video camera, change the **Folder** field.
4. Press the **Menu** key.
5. Click **Save**.

Change options for pictures or videos to compensate for different lighting conditions

1. In the camera or video camera, press the **Menu** key.
2. Click **Options**.
3. Perform any of the following actions:
 - To change the default flash mode for pictures, change the **Default Flash Setting** field.
 - To turn on low-light mode for videos, change the **Video Light** field.
 - To compensate for the current lighting conditions, change the **White Balance** field.

Change the video size and format

1. In the video camera, press the **Menu** key.
2. Click **Options**.
3. Change the **Video Format** field.
4. Press the **Menu** key.
5. Click **Save**.

Set picture size

1. In the camera, press the **Menu** key.
2. Click **Options**.
3. Set the **Picture Size** field.

4. Press the **Menu** key.
5. Click **Save**.

Set picture quality

You can set the fineness of detail that the camera captures in pictures. The finer the detail of a picture, the more memory the picture requires.

1. In the camera, press the **Menu** key.
2. Click **Options**.
3. Set the **Picture Quality** field.
4. Press the **Menu** key.
5. Click **Save**.

Apply a color effect to pictures

You can apply a sepia or black-and-white color effect to pictures that you take.

1. In the camera, press the **Menu** key.
2. Click **Options**.
3. Change the **Color Effect** field.
4. Press the **Menu** key.
5. Click **Save**.

Camera and video camera shortcuts

- To take a picture, press the **Right Convenience** key.
- To zoom in to a subject before taking a picture, press the **Volume Up** key.
- To zoom out from a subject before taking a picture, press the **Volume Down** key.
- To change the flash mode for a picture or to turn on low-light mode for a video, press the **Space** key.

Camera and video camera troubleshooting

I cannot save pictures or videos

Your BlackBerry® device memory or media card might not have enough available memory to store pictures or videos.

Try performing the following actions:

- If you are trying to save a picture to your device memory, delete old data or messages from your device.
- If you are trying to save a picture or video on your media card, delete old media files.
- In the camera options, verify that the **Picture Quality** field is not set to **Superfine**. Superfine pictures use more memory than fine or normal pictures.

- Increase the maximum amount of memory available for pictures.

The flash dims or turns off

If the battery power level drops below 20 percent, the flash dims to conserve battery power. In cold temperatures, when the battery power level drops below 20 percent, the flash might turn off.

Some pictures that I take are blurry

In low lighting conditions, the camera might compensate for the lack of exposure by using a slower shutter speed. If you move the camera before the shutter clicks, the picture might be blurry. If the camera is using a slower shutter speed, an exclamation point indicator appears at the bottom of the screen.

Media

Transferring and downloading media files

About transferring media files

You can connect your BlackBerry® device to your computer to transfer files between your device and your computer, or you can use Bluetooth® technology to send media files to or receive media files from a Bluetooth enabled device.

If you connect your device to your computer, you can transfer files between your media card and your computer using mass storage mode, or you can transfer media files between your device and your computer using the media manager tool of the BlackBerry® Desktop Manager. For more information about using the media manager tool, see the *Media Manager Online Help*.

If you turn on media card encryption and you transfer files to your media card using mass storage mode or Bluetooth technology, your device does not encrypt the transferred files. If you transfer encrypted files from your media card using mass storage mode or Bluetooth technology, you cannot decrypt the files on your computer or on a Bluetooth enabled device.

Transfer a file between your device and your computer using the Roxio Media Manager

1. Connect your BlackBerry® device to your computer.
2. On your computer, open the BlackBerry® Desktop Manager.
3. Double-click **Media Manager**.
4. Drag a file or folder from one location to another.

For more information about transferring and managing media files, see the online help that is available in the Roxio® Media Manager.

Transfer a file between your device and your computer in mass storage mode

Verify that mass storage mode is turned on.

1. Connect your BlackBerry® device to your computer.
2. On your computer, double-click **My Computer**.
3. In the **Devices with Removable Storage** section, click **Removable Disk**.
4. Drag a file from one location to another.

To exit mass storage mode, disconnect your device from your computer.

Save a song or video from a web page

1. In the browser, click a link for a song or video.
2. Click **Save**.
3. Type a name for the song or video.
4. Click **Save**.

Receive a media file using Bluetooth technology

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. In the media application, click a media type.
2. Press the **Menu** key.
3. Click **Receive Using Bluetooth**.
4. Click **Yes**.
5. Click **Save**.

Send a media file

If you send a media file using Bluetooth® technology, verify that Bluetooth technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

You can only send media files that you added.

1. In the media application, click a media type.
2. If necessary, click a category.
3. Highlight a media file.
4. Press the **Menu** key.
5. Click one of the following menu items:
 - **Send As Email**
 - **Send As MMS**
 - **Send Using Bluetooth**

Download a ring tone

Verify that your wireless service provider supports this feature.

1. In the media application, click **Ring Tones**.
2. Click **All Ring Tones**.
3. Press the **Menu** key.
4. Click **Download Ring Tones**.

Download a Home screen background

Verify that your wireless service provider supports this feature.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Press the **Menu** key.
4. Click **Download Images**.

Playing media files and recording voice notes

Play a media file

1. In the media application, click a media type.
2. If necessary, click a category.
3. Click a song, ring tone, video, or voice note.

Play a song or video on a web page

1. In the browser, click a link for a song or video.
2. Click **Open**.

Shuffle songs

1. In the media application, click **Music**.
2. Perform one of the following actions:
 - To shuffle all songs, click **Shuffle Songs**.
 - To shuffle all the songs in a category, click a category. Click a song. Press the **Menu** key. Click **Shuffle**.

To stop shuffling songs, press the **Menu** key. Click **Shuffle**.

Pause a media file

When playing a song, video, or voice note, click the **pause** icon.

To resume playing the song, video, or voice note, click the **play** icon.

Fast-forward or rewind a media file

1. When playing a song, video, or voice note, click the progress bar.
2. Roll the trackball to the right or left.
3. Click the trackball.

Play the next or previous song in a category

1. When playing a song, press the **Menu** key.
2. Click **Next Track** or **Previous Track**.

Repeat a media file

1. In the media application, click a media type.

2. If necessary, click a category.
3. Click a song, video, or voice note.
4. Press the **Menu** key.
5. Click **Repeat**.

To stop repeating a song, video, or voice note, press the **Menu** key. Click **Repeat**.

Search for a media file

1. In the media application, click a media type.
2. If necessary, click a category.
3. In the **Find** field, type part or all of a name for a song, ring tone, video, or voice note.

Switch applications during a song

1. Press the **End** key.
2. Click an application.

To return to the media application, press the **Menu** key. Click **Now Playing**.

Record a voice note

1. In the media application, click **Voice Notes**.
2. Click **Record**.
3. Click the **record** icon.
4. Perform any of the following actions:
 - To pause recording, click the **pause** icon. To resume recording, click the **record** icon.
 - To stop recording, click the **pause** icon. Click the **stop** icon.

Adjust the volume

- To increase the volume, press the **Volume Up** key.
- To decrease the volume, press the **Volume Down** key.

Amplify the volume

You can amplify the volume for songs, ring tones, and videos.

1. In the media application, press the **Menu** key.
2. Click **Options**.
3. Change the **Audio Boost** field to **On**.
4. Press the **Menu** key.
5. Click **Save**.

Improve sound quality for media files

You can only improve sound quality when you use stereo headphones with your BlackBerry® device.

1. In the media application, press the **Menu** key.
2. Click **Options**.
3. Change the **Equalizer** field.

Keep backlighting on when you play a video

1. In the media application, press the **Menu** key.
2. Click **Options**.
3. Change the **Turn Off Auto Backlighting** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

About using a headset

You can purchase an optional headset to use with your BlackBerry® device.

In the phone, you can use a headset button to answer or end a call, or turn on or turn off mute during a call. You can also use a headset button to make a call using a voice command.

Depending on your headset, you might also be able to use a headset button to pause, resume, skip, or adjust the volume of a song or a video in the media application.

For more information about using the headset, see the documentation that came with your headset.

Managing media files

Playlists

About playlists

You can create both standard and automatic playlists for songs. You create a standard playlist by manually adding songs that are on your BlackBerry® device. You create an automatic playlist by specifying criteria for artists, albums, or genres of songs. When you add a song to your device that meets the criteria, your device adds it to the playlist automatically. An indicator appears beside automatic playlists in your list of playlists.

Create a standard playlist

1. In the media application, click **Music**.
2. Click **Playlists**.

3. Click **New Playlist**.
4. Click **Standard Playlist**.
5. Type a name for the playlist.
6. Press the **Menu** key.
7. Click **Add Songs**.
8. Click a song.
9. To add more songs, repeat steps 6 to 8.
10. Press the **Menu** key.
11. Click **Save**.

Create an automatic playlist

1. In the media application, click **Music**.
2. Click **Playlists**.
3. Click **New Playlist**.
4. Click **Automatic Playlist**.
5. Type a name for the playlist.
6. Click the plus sign (+) beside **Artists**, **Albums**, or **Genres**.
7. Click an artist, album, or genre.
8. To add more criteria, repeat steps 6 and 7.
9. Press the **Menu** key.
10. Click **Save**.

Change an automatic playlist

1. In the media application, click **Music**.
2. Click **Playlists**.
3. Click an automatic playlist.
4. Perform any of the following actions:
 - To add an artist, album, or genre, click the plus sign (+) beside **Artists**, **Albums**, or **Genres**. Click an artist, album, or genre.
 - To delete an artist, album, or genre, click the corresponding minus sign (-).
5. Press the **Menu** key.
6. Click **Save**.

Add a song to a standard playlist

1. In the media application, click **Music**.
2. Click a category.
3. Highlight a song, artist, album, or genre.

4. Press the **Menu** key.
5. Click **Add to Playlist**.
6. Click a standard playlist.

Change the order of songs in a standard playlist

1. In the media application, click **Music**.
2. Click **Playlists**.
3. Click a standard playlist.
4. Highlight a song.
5. Press the **Menu** key.
6. Click **Move**.
7. Roll the trackball to the new location.
8. Click the trackball.
9. Press the **Menu** key.
10. Click **Save**.

Delete a song from a standard playlist

1. In the media application, click **Music**.
2. Click **Playlists**.
3. Click a standard playlist.
4. Highlight a song.
5. Press the **Menu** key.
6. Click **Delete**.

Rename a playlist

1. In the media application, click **Music**.
2. Click **Playlists**.
3. Highlight a playlist.
4. Press the **Menu** key.
5. Click **Rename**.
6. Type a name for the playlist.
7. Click **Save**.

Delete a playlist

1. In the media application, click **Music**.
2. Click **Playlists**.

3. Highlight a playlist.
4. Press the **Menu** key.
5. Click **Delete**.

View properties for a media file

1. In the media application, click a media type.
2. If necessary, click a category.
3. Highlight a media file.
4. Press the **Menu** key.
5. Click **Properties**.

Change the amount of memory available for media files

1. In the media application, press the **Menu** key.
2. Click **Options**.
3. Perform any of the following actions:
 - To change the maximum amount of BlackBerry® device memory available for all media files, change the **Device Memory Limit** field.
 - To change the minimum amount of device memory available for pictures, change the **Reserved Pictures Memory** field.
4. Press the **Menu** key.
5. Click **Save**.

Rename a media file

You can only rename songs, ring tones, videos, or voice notes that you added.

1. In the media application, press the **Menu** key.
2. Click **Explore**.
3. Navigate to a folder that contains songs, ring tones, videos, or voice notes.
4. Highlight a song, ring tone, video, or voice note.
5. Press the **Menu** key.
6. Click **Rename**.
7. Type a name for the file.
8. Click **Save**.

Move a media file

You can only move songs, ring tones, videos, or voice notes that you added.

1. In the media application, press the **Menu** key.
2. Click **Explore**.

3. Navigate to a folder that contains media files.
4. Highlight a media file.
5. Press the **Menu** key.
6. Click **Move**.
7. Click a folder.
8. Click **Move Here**.

Delete a media file

You can only delete songs, ring tones, videos, or voice notes that you added.

1. In the media application, click a media type.
2. If necessary, click a category.
3. Highlight a song, ring tone, video, or voice note.
4. Press the **Menu** key.
5. Click **Delete**.


Note: If you delete a ring tone that you use in a notification profile, the notification profile uses the default ring tone.


Viewing pictures

View a picture

1. In the media application, click **Pictures**.
2. Click a category.
3. Click a picture.

Use a picture as the Home screen background

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.
4. Press the  key.
5. Click **Set As Home Screen Image**.

To clear the picture from the Home screen, press the  key. Click **Reset Home Screen Image**.

View pictures as a slide show

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.

4. Press the **Menu** key.
5. Click **View Slide Show**.

To close the slide show, press the **Escape** key.

Change the number of seconds between slides in a slide show

1. In the media application, press the **Menu** key.
2. Click **Options**.
3. Change the **Slide Show Interval** field.
4. Press the **Menu** key.
5. Click **Save**.

View pictures in a list

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Press the **Menu** key.
4. Click **View List**.

Zoom in to or out from a picture

1. In a picture, press the **Menu** key.
2. Click **Zoom**.
3. Roll the trackball up or down.

To zoom back to the original picture size, press the **Menu** key. Click **View Actual Size**.

Pan a picture

Verify that you have zoomed in to the picture.

In a picture, roll the trackball.

Rotate a picture

1. In a picture, press the **Menu** key.
2. Click **Rotate**.

The picture turns 90 degrees in a clockwise direction.

Managing pictures

Add a picture folder

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Press the **Menu** key.
4. Click **New Folder**.
5. Type a name for the folder.
6. Click **Save**.

Save a picture

Save picture files, such as .jpg, .png, .gif, or .bmp files, to the BlackBerry® device memory or a media card.

1. Open a picture attachment or highlight a picture on a web page.
2. Press the **Menu** key.
3. Click **Save Image**.
4. Click **Save**.

Sort pictures

1. In the media application, press the **Menu** key.
2. Click **Options**.
3. Change the **Sort By** field.
4. Press the **Menu** key.
5. Click **Save**.

Rename a picture or picture folder

You can only rename pictures or picture folders that you added.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture or picture folder.
4. Press the **Menu** key.
5. Click **Rename**.
6. Type a name for the picture or picture folder.
7. Click **Save**.

Move a picture

You can only move pictures that you added.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.
4. Press the **Menu** key.
5. Click **Move**.
6. Highlight a picture folder.
7. Press the **Menu** key.
8. Click **Move Here**.

Delete a picture or picture folder

You can only delete pictures or picture folders that you added.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture or picture folder.
4. Press the **Menu** key.
5. Click **Delete**.

Media card options

About media cards

Insert a microSD media card into your BlackBerry® device to extend the memory that is available on your device for storing media files such as songs, ring tones, videos, or pictures. For more information about inserting a media card into your device, see the printed documentation that came with your device.

About media card encryption

Media card encryption is designed to protect the data that you store on the media card that is inserted in your BlackBerry® device. You can encrypt the files on your media card using a media card encryption key, your device password, or both.

You can set media card encryption to include or exclude media files.

Encrypt the files on a media card

To encrypt files on the media card that is inserted in your BlackBerry® device using your device password, verify that you have set a device password.

1. In the device options, click **Media Card**.
2. Perform one of the following actions:
 - To encrypt files using an encryption key that your device generates for your media card, set the **Encryption Mode** field to **Device**.
 - To encrypt files using your device password, set the **Encryption Mode** field to **Security Password**.
 - To encrypt files using a media card encryption key and your device password, set the **Encryption Mode** field to **Security Password & Device**.
3. To encrypt media files on your media card, set the **Encrypt Media Files** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

To turn off media card encryption, set the **Encryption Mode** field to **None**.

Format a media card

1. In the device options, click **Media Card**.
2. Press the **Menu** key.
3. Click **Format Card**.

View the amount of available memory on a media card

Verify that media card support is turned on.

In the device options, click **Media Card**.

Turn on mass storage mode manually

1. Connect your BlackBerry® device to your computer.
2. In the device options, click **Media Card**.
3. Verify that the **Mass Storage Mode Support** field is set to **On**.
4. Verify that the **Auto Enable Mass Storage Mode When Connected** field is set to **No** or **Prompt**.
5. Press the **Menu** key.
6. Click **Enable USB Mass Storage**.

Turn off the mass storage mode prompt

1. In the device options, click **Media Card**.
2. Perform one of the following actions:
 - To turn on mass storage mode automatically when you connect your BlackBerry® device to your computer, set the **Auto Enable Mass Storage Mode When Connected** field to **Yes**.
 - To turn on mass storage mode manually when you connect your device to your computer, set the **Auto Enable Mass Storage Mode When Connected** field to **No**.

3. Press the **Menu** key.
4. Click **Save**.

Turn off mass storage mode support

1. In the device options, click **Media Card**.
2. Set the **Mass Storage Mode Support** field to **Off**.
3. Press the **Menu** key.
4. Click **Save**.

Turn off media card support

1. In the device options, click **Media Card**.
2. Set the **Media Card Support** field to **Off**.
3. Press the **Menu** key.
4. Click **Save**.

Media shortcuts

- To pause a video or song, press the **Mute** key. To resume playing a video or song, press the **Mute** key.
- To move to the controls at the bottom of the screen when you are viewing a list of songs, press the **Space** key.
- To play the next song in a category, press **4**.
- To play the previous song in a category, press **6**.
- To amplify the volume for songs, ring tones, and videos, press the **Volume Up** key until you reach the highest volume setting. Press the **Volume Up** key four times quickly.
- To rotate a picture, press the comma (,) key.
- To zoom in to a picture, press **3**. To zoom to the original picture size, press **7**.
- To zoom out from a picture, press **9**. To zoom to the original picture size, press **7**.
- To fit a picture to the screen size, press **1**.

Media troubleshooting

I cannot play a song or video on a web page

Your BlackBerry® device might not support the size or file format of the song or video file.

I cannot open media files

Try performing the following actions:

- If you are trying to open a media file on your BlackBerry® device and your device is connected to your computer, disconnect your device from the computer or turn off mass storage mode.
- If you are trying to open a media file on your computer using mass storage mode, verify that you have closed the media manager tool of the BlackBerry® Desktop Manager.
- If you are trying to open a media file on your computer using the media manager tool of the BlackBerry Desktop Manager, verify that mass storage mode is turned off on your device.
- If you encrypted the media files on your media card using a media card encryption key and you are trying to open an encrypted media file using your computer or a device other than the BlackBerry device that you used to encrypt the file, insert the media card into the BlackBerry device that you used to encrypt the file. In the media card options, change the **Encryption Mode** field to **None** or **Security Password**.

My device does not recognize my media card

Disconnect your BlackBerry® device from your computer. Turn off mass storage mode support. Format the media card.

My device is not using the correct ring tone or Home screen background

If you are using a ring tone or Home screen background picture that you encrypted on your media card using your BlackBerry® device password and you reset your device, unlock your device.

Messages

Message basics

Composing messages

Check spelling

You can check spelling in messages, calendar entries, tasks, or memos that you create.

1. In a message, calendar entry, task, or memo, press the **Menu** key.
2. Click **Check Spelling**.
3. Perform any of the following actions:
 - To accept the suggested spelling, click the highlighted word.
 - To ignore the suggested spelling, press the **Escape** key.
 - To ignore all instances of the suggested spelling, press the **Menu** key. Click **Ignore All**.
 - To add the word to the custom dictionary, press the **Menu** key. Click **Add To Dictionary**.
 - To stop checking spelling, press the **Menu** key. Click **Cancel Spell Check**.

Save a draft of a message

1. When composing a message, press the **Menu** key.
2. Click **Save Draft**.

Set the importance level for a message

You can set the importance level for an email message, PIN message, or MMS message.

1. When composing a message, press the **Menu** key.
2. Click **Options**.
3. Set the **Importance** field.
4. Press the **Menu** key.
5. Click **Save**.

Blind carbon copy a contact

You can blind carbon copy a contact in an email message, a PIN message, or an MMS message.

1. When composing a message, press the **Menu** key.
2. Click **Add Bcc**.

Add a signature

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator. If you use the BlackBerry® Internet Service, see the *BlackBerry Internet Service Online Help* for more information.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. Set the **Use Auto Signature** field to **Yes**.
5. Type a signature.
6. Press the **Menu** key.
7. Click **Save**.

Your signature is added to email messages after you send them.

Delete the disclaimer from an email message

If your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature, the BlackBerry Enterprise Server might add a disclaimer to email messages after you send them. You cannot change this disclaimer.

1. When composing an email message, press the **Menu** key.
2. Click **Remove Disclaimer**.

To add the disclaimer again, press the **Menu** key. Click **Add Disclaimer**.



Create a link for a PIN

You can create a link for a PIN in messages, calendar entries, tasks, or memos. If you click the link, you can send a PIN message.

When typing text, type **pin:** and the PIN.

Sending messages


Send an email message

1. In a message list, press the  key.
2. Click **Compose Email**.
3. In the **To** field, perform one of the following actions:
 - Type an email address.
 - Type a contact name.
 - Type part of a contact name. Click a contact.
4. Type a message.
5. Press the  key.
6. Click **Send**.



Send a PIN message

1. In a message list, press the **Menu** key.
2. Click **Compose PIN**.
3. In the **To** field, perform one of the following actions:
 - Type a PIN. Click the trackball.
 - Type a contact name. Click the trackball.
 - Type part of a contact name. Click a contact.
4. Type a message.
5. Press the **Menu** key.
6. Click **Send**.

Send an SMS text message

1. In a message list, press the  key.
2. Click **Compose SMS**.
3. Perform one of the following actions:
 - If the contact is not in your address book, click **Use Once**. Type an SMS phone number (include the country code and area code) or an email address. Click the trackball.
 - If the contact is in your address book, click a contact.
4. Type a message.
5. Click the trackball.
6. Click **Send**.

Send an MMS message

1. In a message list, press the  key.
2. Click **Compose MMS**.
3. Perform one of the following actions:
 - If the contact is not in your address book, click **[Use Once]**. Click **Email** or **Phone**. Type an email address or an MMS phone number. Click the trackball.
 - If the contact is in your address book, click a contact. Click an email address or MMS phone number.
4. Type a message.
5. Press the  key.
6. Click **Send**.

Reply to a message

1. In a message, click the trackball.

2. Click **Reply** or **Reply to All**.

Forward a message

You cannot forward MMS messages that contain content that is copyright protected.

1. In a message, press the **Menu** key.
2. Perform one of the following actions:
 - Click **Forward**.
 - Click **Forward As**. Click a message type.

Resend a message

1. In a sent message, press the **Menu** key.
2. Perform one of the following actions:
 - To change the message, click **Edit**. Change the message. Click the trackball. Click **Send**.
 - To change the recipients, click **Edit**. Highlight a contact. Press the **Menu** key. Click **Change Address**. Click a new contact. Click the trackball. Click **Send**.
 - To resend the message without changing it, click **Resend**.

Stop a message from sending

Verify that you are not in a wireless coverage area and your BlackBerry® device is not connected to the wireless network. A clock icon should appear beside the message.

1. In a message list, highlight the message.
2. Press the **Menu** key.
3. Click **Delete**.

Managing messages

Open a message

If your BlackBerry® device is associated with more than one email address, you might be able to open messages from the message list for a specific email address.

In a message list, click a message.

If you open an MMS message and the content does not appear, press the **Menu** key. Click **Retrieve**.

Save a message

1. In a message, press the **Menu** key.
2. Click **Save**.

Search for text in a message, in an attachment, or on a web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, in an attachment, or on a web page, press the **Menu** key.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, press the **Menu** key. Click **Find Next**.

Mark a message as opened or unopened

In a message list, perform one of the following actions:

- Highlight a message. Press the **Menu** key. Click **Mark Opened** or **Mark Unopened**.
- Highlight a date field. Press the **Menu** key. Click **Mark Prior Opened**. Click **Mark Opened**.

View an address instead of a display name

1. In a message, click a contact.
2. Click **Show Address**.

To view the display name again, click a contact. Click **Show Name**.

View messages in a specific folder

You can view email messages and MMS messages in a specific folder.

1. In a message list, press the **Menu** key.
2. Click **View Folder**.
3. Click a folder.

Delete a message

1. In a message, press the **Menu** key.
2. Click **Delete**.

Delete multiple messages

In a message list, perform one of the following actions:



- To delete a range of messages, highlight a message. Hold the **Alt** key. Roll the trackball up or down. Release the **Alt** key. Press the **Menu** key. Click **Delete Messages**.
- To delete all message prior to a certain date, highlight a date field. Press the **Menu** key. Click **Delete Prior**. Click **Delete**.

Note: Email messages that you delete using the Delete Prior menu item are not deleted from the email application on your computer during email reconciliation.

Email messages

Email message basics

Send an email message

1. In a message list, press the  key.
2. Click **Compose Email**.
3. In the **To** field, perform one of the following actions:
 - Type an email address.
 - Type a contact name.
 - Type part of a contact name. Click a contact.
4. Type a message.
5. Press the  key.
6. Click **Send**.

Delete the original text from a reply message

1. When replying to a message, press the **Menu** key.
2. Click **Delete Original Text**.

File an email message

Verify that wireless email reconciliation is turned on.

1. In a message list, highlight an email message.
2. Press the **Menu** key.
3. Click **File**.
4. Highlight a message folder.
5. Press the **Menu** key.
6. Click **File**.

Add, change, or delete an email message folder

You can add, change, or delete email message folders in the email application on your computer. If wireless email reconciliation is turned on, your BlackBerry® device receives changes that you make to the email message folder on your computer over the wireless network. If wireless email reconciliation is turned off or is not available for your device, reconcile the changes using the email settings tool of the BlackBerry® Desktop Manager. For more information about email reconciliation, see the *BlackBerry Desktop Software Online Help*.

Forward messages from a specific email message folder to your device

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. Press the **Menu** key.
5. Click **Folder Redirection**.
6. Select the check box beside an email message folder.
7. Press the **Menu** key.
8. Click **Save**.

Note: If you click the Select All menu item, all email messages, including email messages that appear in the sent items folder in the email application on your computer, appear on your device.

Stop storing messages sent from your device on your computer

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. Change the **Save Copy In Sent Folder** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Stop storing messages sent from your computer on your device

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. Press the **Menu** key.
5. Click **Folder Redirection**.
6. Clear the check box beside the **Sent Items** folder.
7. Press the **Menu** key.
8. Click **Save**.

Email message filters

About email message filters

You can create email message filters to specify which email messages are forwarded to your BlackBerry® device and which remain in the email application on your computer.

Email message filters are applied to email messages based on the order in which they appear in your list of email message filters. If you create multiple email message filters that could apply to the same email message, you must decide which one should be applied first by placing that filter higher in the list.

Create an email message filter

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator. If you use the BlackBerry® Internet Service, see the *BlackBerry Internet Service Online Help* for more information.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Filters**.
4. Press the **Menu** key.
5. Click **New**.
6. Type a name for the email message filter.
7. Set the email message filter options.
8. Press the **Menu** key.
9. Click **Save**.

Create an email message filter based on a contact or subject

1. In a message list, highlight an email message.
2. Press the **Menu** key.
3. Click **Filter Sender** or **Filter Subject**.
4. Type a name for the email message filter.
5. Set the email message filter options.
6. Press the **Menu** key.
7. Click **Save**.

Options for email message filters

From:

Specify one or more contacts or email addresses that the email message filter should search for in the From field of email messages. Separate multiple contacts or email addresses with a semicolon (;). To specify that the email message filter should search for all contacts or email addresses that contain specific text, type the text and use an asterisk (*) as a wildcard character to represent the rest of the contact or email address.

Sent To:

Specify one or more contacts or email addresses that the email message filter should search for in the Sent To field of email messages. Separate multiple contacts or email addresses with a semicolon (;). To specify that the email message filter should search for all contacts or email addresses that contain specific text, type the text and use an asterisk (*) as a wildcard character to represent the rest of the contact or email address.

Sent directly to me:

Set whether the email message filter applies to email messages that include your email address in the To field.

CC to me:

Set whether the email message filter applies to email messages that include your email address in the CC field.

BCC to me:

Set whether the email message filter applies to email messages that include your email address in the BCC field.

Importance:

Set the importance level of email messages that the email message filter applies to.

Sensitivity:

Set the sensitivity level of email messages that the email message filter applies to.

Action:

Set whether email messages that the email message filter applies to are forwarded to your BlackBerry® device. If email messages are forwarded, specify whether they are forwarded with high importance or with the email message header only.

Turn on an email message filter

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Filters**.
4. Select the check box beside an email message filter.

Change an email message filter

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Filters**.
4. Highlight an email message filter.
5. Press the **Menu** key.

6. Click **Edit**.
7. Change the options for the email message filter.
8. Press the **Menu** key.
9. Click **Save**.

Prioritize email message filters

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Filters**.
4. Highlight an email message filter.
5. Press the **Menu** key.
6. Click **Move**.
7. Roll the trackball to the new location.
8. Click the trackball.

Delete an email message filter

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Filters**.
4. Highlight an email message filter.
5. Press the **Menu** key.
6. Click **Delete**.

Email message options

Check spelling automatically before sending email messages

1. In the device options, click **Spell Check**.
2. Select the **Spell Check Email Before Sending** option.
3. Press the **Menu** key.
4. Click **Save**.

Set an out-of-office reply

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.

1. In a message list, press the **Menu** key.
2. Click **Options**.

3. Click **Email Settings**.
4. Change the **Use Out Of Office Reply** field to **Yes**.
5. Type a reply.
6. If you use IBM® Lotus Notes®, in the **Until** field, set the date on which the out-of-office reply should turn off.
7. Press the **Menu** key.
8. Click **Save**.

To turn off the out-of-office reply, change the **Use Out Of Office Reply** field to **No**.

Request delivery or read confirmation for email messages

Verify that your wireless service provider supports this feature.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. If necessary, change the **Message Services** field to the email account that uses the BlackBerry Internet Service.
5. Perform any of the following actions:
 - To send read notification when a sender requests it, change the **Send Read Receipts** field.
 - To request delivery or read notification when you send email messages, change the **Confirm Delivery** and **Confirm Read** fields.
6. Press the **Menu** key.
7. Click **Save**.

View email messages in plain text format

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. Change the **Enable HTML Email** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Stop loading pictures in HTML email messages

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. Change the **Show Images Automatically** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

To view pictures in an HTML email message, press the **Menu** key. Click **Get Images**.

Hide filed email messages

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Hide Filed Messages** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

Receive only the first section of long email messages

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Auto More** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

To download more of an email message, press the **Menu** key. Click **More** or **More All**.

Change the email address that you use to send messages or meeting invitations

Verify that your BlackBerry® device is associated with more than one email address.

1. In the device options, click **Advanced Options**.
2. Click **Default Services**.
3. Change the **Messaging (CMIME)** field or the **Calendar (CICAL)** field.
4. Press the **Menu** key.
5. Click **Save**.

Stop forwarding email messages to your device

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Settings**.
4. Change the **Send Email to Handheld** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

To forward email messages to your device again, change the **Send Email to Handheld** field to **Yes**.

PIN messages

About PIN messages

A PIN uniquely identifies BlackBerry® devices and BlackBerry enabled devices on the wireless network. If you have contacts who use a BlackBerry device or a BlackBerry enabled device and you know their PIN number, you can send them PIN messages. PIN messages are not routed through your email account.

When your PIN message is delivered to the recipient, in a message list, a D appears with a check mark beside the PIN message.

Find your PIN

In the device options, click **Status**.

Send a PIN message

1. In a message list, press the **Menu** key.
2. Click **Compose PIN**.
3. In the **To** field, perform one of the following actions:
 - Type a PIN. Click the trackball.
 - Type a contact name. Click the trackball.
 - Type part of a contact name. Click a contact.
4. Type a message.
5. Press the **Menu** key.
6. Click **Send**.

Set a high importance level for received PIN messages

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Make PIN Messages Level 1** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

SMS text messages

SMS text message basics

About SMS text messages

With an SMS phone number, you can send and receive SMS text messages. An SMS phone number is a phone number that your wireless service provider sets up for SMS text messaging. If you have more than one phone number associated with your BlackBerry® device, your device sends SMS text messages using the first phone number that appears in the drop-down list at the top of the phone screen.


You can send SMS text messages to contacts who have SMS phone numbers. You can also forward SMS text messages as PIN or email messages.

Find your SMS phone number

In the phone, your phone number appears at the top of the screen. If your wireless service provider has set up your BlackBerry® device for SMS text messaging, this number is also your SMS phone number.

If you have more than one phone number associated with your device, the first phone number that appears in the drop-down list at the top of the screen is your SMS phone number.

Send an SMS text message

1. In a message list, press the  key.
2. Click **Compose SMS**.
3. Perform one of the following actions:
 - If the contact is not in your address book, click **Use Once**. Type an SMS phone number (include the country code and area code) or an email address. Click the trackball.
 - If the contact is in your address book, click a contact.
4. Type a message.
5. Click the trackball.
6. Click **Send**.

Add a contact to an SMS text message

You can send an SMS text message to up to ten recipients.

1. When composing an SMS text message, press the **Menu** key.
2. Click **Add Recipient**.
3. Click a contact.

Delete the history from an SMS text message

1. When replying to an SMS text message, press the **Menu** key.
2. Click **Remove History**.

Options for SMS text messages

Turn off AutoText for SMS text messages

1. In the device options, click **SMS**.
2. Set the **Disable AutoText** field to **Yes**.
3. Press the **Menu** key.
4. Click **Save**.

View more of the history in SMS text messages

1. In the device options, click **SMS**.
2. Set the **Number of Previous Items** field.
3. Press the **Menu** key.
4. Click **Save**.

Request delivery notification for all SMS text messages

Depending on your wireless service provider, this option might not appear.

1. In the device options, click **SMS**.
2. Set the **Delivery Reports** field to **On**.
3. Press the **Menu** key.
4. Click **Save**.

Set how long your service center attempts to send SMS text messages

If you send an SMS text message and it cannot be delivered immediately, your service center tries to send the SMS text message for the amount of time set in the Validity Period field. Depending on your wireless service provider, this option might not appear.

1. In the device options, click **SMS**.
2. Set the **Validity Period** field.
3. Press the **Menu** key.
4. Click **Save**.

MMS messages

MMS message basics

About MMS messages

With an MMS phone number, you can send and receive MMS messages that contain media files such as .jpg, .gif, .wbmp, .midi, .vcf (vCard®), .ics (iCalendar), .avi, .mpg, or .mov files. An MMS phone number is a phone number that your wireless service provider sets up for MMS messaging. If you have more than one phone number associated with your BlackBerry® device, your device sends MMS messages using the first phone number that appears in the drop-down list at the top of the Phone screen.

Prerequisites: MMS messaging

- Verify that your BlackBerry® device supports MMS messaging.
- Verify that your wireless service plan includes this service.



For more information, contact your wireless service provider or administrator.

Find your MMS phone number

In the phone, your phone number appears at the top of the screen. If your wireless service provider has set up your BlackBerry® device for MMS messaging, this number is also your MMS phone number.

If you have more than one phone number associated with your device, the first phone number that appears in the drop-down list at the top of the screen is your MMS phone number.

Send an MMS message

1. In a message list, press the  key.
2. Click **Compose MMS**.
3. Perform one of the following actions:
 - If the contact is not in your address book, click **[Use Once]**. Click **Email** or **Phone**. Type an email address or an MMS phone number. Click the trackball.
 - If the contact is in your address book, click a contact. Click an email address or MMS phone number.
4. Type a message.
5. Press the  key.
6. Click **Send**.

Create a slide show in an MMS message

1. When composing an MMS message, press the **Menu** key.

2. Click one of the following menu items:
 - **Attach Picture**
 - **Attach Audio**
 - **Attach Video**
 - **Attach Voice Note**
3. Click a media file.
4. To add another media file, repeat steps 1 to 3.
5. To customize the slide show, perform any of the following actions:
 - To add text to a slide, highlight the empty field below the attachment. Type text.
 - To change how long a slide appears, change the **Slide Duration** field.
 - To move an item on a slide, click the item. Click **Move Field**. Roll the trackball to the new location. Click the trackball.

MMS message attachments

Attach a media file to an MMS message

1. When composing an MMS message, press the **Menu** key.
2. Click one of the following menu items:
 - **Attach Picture**
 - **Attach Audio**
 - **Attach Video**
 - **Attach Voice Note**
3. Click a media file.

Attach an appointment to an MMS message

You can only send nonrecurring appointments in MMS messages. If you attach a meeting, the list of meeting participants is not included in the attachment.

1. When composing an MMS message, press the **Menu** key.
2. Click **Attach Appointment**.
3. Highlight an appointment.
4. Press the **Menu** key.
5. Click **Continue**.

Add an appointment to your calendar from an MMS message

1. In an MMS message, highlight an iCalendar attachment.
2. Press the **Menu** key.
3. Click **View Appointment**.

4. Press the **Menu** key.
5. Click **Add To Calendar**.

Add a contact to your address book from an MMS message

1. In an MMS message, highlight a vCard® attachment.
2. Press the **Menu** key.
3. Click **View Attachment**.
4. Press the **Menu** key.
5. Click **Add Contact**.

Save a media file from an MMS message

1. In an MMS message, press the **Menu** key.
2. Click one of the following menu items:
 - **Save Image**
 - **Save Audio**
 - **Save Ringtone**
 - **Save Video**
 - **Save Voice Note**

MMS message options

Request delivery or read notification for an MMS message

1. When composing an MMS message, press the **Menu** key.
2. Click **Options**.
3. Perform any of the following actions:
 - To receive notification when the message is delivered to the recipient, set the **Confirm Delivery** field to **Yes**.
 - To receive notification when the recipient opens the message, set the **Confirm Read** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

Request delivery notification or read notification for all MMS messages

1. In the device options, click **MMS**.
2. In the **Notifications** section, perform any of the following actions:
 - To receive notification when MMS messages are delivered to recipients, change the **Confirm Delivery** field to **Yes**.
 - To receive notification when recipients open MMS messages, change the **Confirm Read** field to **Yes**.

3. Press the **Menu** key.
4. Click **Save**.

View the size of an MMS message before sending it

1. In an MMS message, press the **Menu** key.
2. Click **Options**.

The Estimated Size field displays the size of the MMS message.

Stop receiving MMS messages when roaming

1. In the device options, click **MMS**.
2. Set the **Multimedia Reception** and **Automatic Retrieval** fields to **Home Only**.
3. Press the **Menu** key.
4. Click **Save**.

Block MMS messages

1. In the device options, click **MMS**.
2. In the **Message Filtering** section, select the **Reject Anonymous Messages** check box or the **Reject Advertisements** check box.
3. Press the **Menu** key.
4. Click **Save**.

Message list options

Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete messages, call logs, contacts, calendar entries, tasks, memos, or passwords.

1. In an application, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Confirm Delete** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Turn off the prompt that appears when you mark messages as opened

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.

4. Change the **Confirm Mark Prior Opened** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Set how long your device stores messages

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Set the **Keep Messages** field.
5. Press the **Menu** key.
6. Click **Save**.

To restore messages, set the **Keep Messages** field to a longer period of time. Messages that you received on your BlackBerry® device within the set period of time appear in a message list.

Use color to differentiate work messages from other messages

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Perform any of the following actions:
 - To set a background color for email messages that are sent to your device through a BlackBerry Enterprise Server, change the **Enterprise Messages** field.
 - To set a background color for messages that are not sent to your device through a BlackBerry Enterprise Server, change the **Other Messages** field.
4. Press the **Menu** key.
5. Click **Save**.

Note: PIN messages might use the background color that you have set for work email messages. For more information, contact your administrator.

Change how a message list displays messages

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Perform any of the following actions:
 - To view more of the subject line, change the **Display Message Header On** field to **2 lines**.
 - To change the order of the subject line and sender, change the **Display Order** field.
 - To change how messages are separated, change the **Separators** field.

5. Press the **Menu** key.
6. Click **Save**.

About multiple message lists

Depending on your email setup option, you might be able to associate your BlackBerry® device with more than one email account. For example, you might be able to associate your device with a work email account and one or more personal email accounts. If you associate your device with more than one email account, multiple message lists might appear on your device. In a message list for a specific email account, you can open and manage email messages for that email account, and you can send messages using the email address for the email account. For more information about associating your device with more than one email account, see the *BlackBerry Internet Service Online Help*.

Depending on your theme, a separate message list might appear for SMS text messages and MMS messages.

Use one message list or multiple message lists

By default, your BlackBerry® device theme determines whether SMS text messages appear in the same message list as email messages.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Perform one of the following actions:
 - To use one message list for all messages, set the **SMS and Email Inboxes** field to **Combined**.
 - To separate SMS text messages from email messages, set the **SMS and Email Inboxes** field to **Separate**.
5. Press the **Menu** key.
6. Click **Save**.

Hide the new or unopened message indicator

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Perform one of the following actions:
 - To hide the new message indicator, change the **Display New Message Indicator** field to **No**.
 - To hide the unopened message indicator, change the **Display Message Count** field to **None**.
5. Press the **Menu** key.
6. Click **Save**.

Hide sent messages

1. In a message list, press the **Menu** key.
2. Click **Options**.

3. Click **General Options**.
4. Change the **Hide Sent Messages** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

View call logs in a message list

1. In the phone, press the **Menu** key.
2. Click **Options**.
3. Click **Call Logging**.
4. Select an option for a call log type.

To hide call logs in a message list, select the **None** option.

Block incoming messages

If your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server, you might not be able to block PIN messages from contacts in your organization. For more information, contact your administrator.

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Select the check box beside one or more message types.
4. Press the **Menu** key.
5. Click **Save**.

Note: Even though you do not receive blocked messages on your device, blocked messages might contribute to data usage in your wireless service plan. You can stop email messages from being forwarded to your device without contributing to data usage by turning off email message forwarding or using email message filters.

Allow messages from contacts in your address book or allowed sender list

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Select the **Address book contacts** check box or the **Specific address** check box.
4. Press the **Menu** key.
5. Click **Save**.

Add a contact to your allowed sender list

Verify that you have set your BlackBerry® device to allow messages from contacts in your allowed sender list.

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Press the **Menu** key.
4. Click **Configure Exceptions**.

5. Press the **Menu** key.
6. Click one of the following menu items:
 - **Add Email Address**
 - **Add Phone Number**
 - **Add PIN**
7. Type the contact information.
8. Press the **Enter** key.
9. Press the **Menu** key.
10. Click **Save**.

Reset a blocked message counter

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Highlight a message type.
4. Press the **Menu** key.
5. Click **Reset Count** or **Reset All Counts**.

Message shortcuts

In a message

- To reply to a message, press the exclamation point (!) key.
- To forward a message, press the period (.) key.
- To move to the last cursor position after you close and reopen a received email message or PIN message, press **5**.

In a message list

- To open a highlighted message, press the **Enter** key.
- To compose a message from a message list, press the comma (,) key.
- To view received messages, press the **Alt** key and **3**.
- To view call logs, press the **Alt** key and the period (.) key.
- To view voice mail messages, press the **Alt** key and **7**.
- To view SMS text messages, press the **Alt** key and the question mark (?) key.
- To view all your messages, press the **Escape** key.

Move around a message list

- To move up a screen, press the **Shift** key and the **Space** key.
- To move down a screen, press the **Space** key.
- To move to the top of a message list, press **1**.
- To move to the bottom of a message list, press **7**.

- To move up a message, press **2**.
- To move down a message, press **8**.
- To move to the next date, press **6**.
- To move to the previous date, press **4**.

Message troubleshooting

I cannot send messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send messages when you return to a wireless coverage area.
- If the menu item for sending a message does not appear, verify that you have added an email address, a PIN, or a phone number for your contact.
- If you created an email address or added an existing email address to your device using the email setup screen in the setup wizard, verify that you have received an activation message on your device from the BlackBerry® Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), in the setup wizard, open the email setup screen to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Press the **Menu** key. Click **Register Now**.
- Generate an encryption key.
- Verify that data service is turned on.
- Resend the message.

I am not receiving messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- If you created an email address or added an existing email address to your device using the email setup screen in the setup wizard, verify that you have received an activation message on your device from the BlackBerry® Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), in the setup wizard, open the email setup screen to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Press the **Menu** key. Click **Register Now**.
- Verify that data service is turned on.
- If you use email message filters, verify that the options for email message filters are set correctly.
- Verify that email message forwarding is turned on and that you have selected all the email message folders, including your inbox folder, that you want to receive email messages from.

- Verify that your device is not blocking messages. For more information, contact your administrator.

I cannot file email messages

Try performing the following actions:

- Verify that wireless email reconciliation is turned on.
- If your email message folders do not appear on your BlackBerry® device, reconcile your email messages using the email settings tool of the BlackBerry® Desktop Manager. For more information, see the *BlackBerry Desktop Software Online Help*.

I cannot send SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.

I am not receiving SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.

I received notification of a new message, but no new messages appear in my message list

If you have set your BlackBerry® device to hide filed messages and you receive a new message from an email message folder in the email application on your computer other than your inbox, your device files the message.

Some messages no longer appear on my device

If your BlackBerry® device memory is full, your device deletes the oldest messages from a message list. Your device does not delete saved messages.

If wireless email reconciliation is turned on, and, in the message options, the **Delete On** field is set to **Mailbox & Handheld**, email messages that you delete in the email application on your computer are also deleted from your device.

A message or attachment does not appear or is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, press the **Menu** key. Click **More** or **More All**.

- If you are downloading an attachment, cancel the download and wait for a short period of time. Try downloading the attachment again.

HTML email messages do not appear correctly

Try performing the following actions:

- Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.
- Wait for a short period of time. Your device receives long messages and attachments in sections.
- Try viewing your message in plain text. Press the **Menu** key. Click **Get Plain Text**.

Some email message folders appear dimmed

If you cannot forward email messages from an email message folder, the check box beside the folder appears dimmed.

Try performing the following actions:

- Wait for a few seconds. The email message folders might become available after a short period of time.
- Turn off wireless email reconciliation, and then turn it on again.

Email message filters are not working correctly

Try performing the following actions:

- Verify that your email message filters are turned on.
- Verify that your email message filters appear in the order that you want your BlackBerry® device to apply them to email messages.

I cannot attach a file to an MMS message

Depending on your wireless service provider, if you attach a video, you might not be able to attach another file or create a slide show.

Try performing the following actions:

- Verify that the file is a .vcf (vCard®) file, an .ics (iCalendar) file, or a media file (for example, a .jpg, .gif, or .midi file).
- Verify that the file is not copyright protected.
- If MMS templates are available for your BlackBerry® device, use a blank template to compose your MMS message.

I cannot use a shortcut to view one type of message in a message list

If you switch BlackBerry® devices and you restore device data from your previous device to your current device, the message list shortcuts for your previous device replace the message list shortcuts for your current device.

To view the shortcuts for viewing one type of message in a message list, view your list of saved searches.

Typing

Typing basics

Type a symbol

1. Press the **Symbol** key. To view more symbols, press the **Symbol** key again.
2. Type the letter that appears below the symbol.

Type an accent or special character

To type an accented or special character, hold the letter key and roll the trackball to the left or right. Click a selected character. For example, to type ü, hold **3** and roll the trackball to the left until ü is highlighted. Click the trackball.

Cut, copy, and paste text

1. With text highlighted, press the **Menu** key.
2. Click **Cut** or **Copy**.
3. Place the cursor where you want to insert the cut or copied text.
4. Press the **Menu** key.
5. Click **Paste**.

Clear a field

1. When typing text, press the **Menu** key.
2. Click **Clear Field**.

Highlight a line of text

1. Place the cursor where you want to highlight the line of text.
2. Press the **Menu** key.
3. Click **Select**.
4. Roll the trackball up or down.

Highlight text character by character

1. Place the cursor where you want to highlight the text.
2. Press the **Menu** key.
3. Click **Select**.

4. Roll the trackball left or right.

Cancel a text selection

1. With text selected, press the **Menu** key.
2. Click **Cancel Selection**.

Set the cursor speed

1. In the device options, click **Screen/Keyboard**.
2. Set the **Key Rate** field.
3. Press the **Menu** key.
4. Click **Save**.

Turn on key tones

1. In the device options, click **Screen/Keyboard**.
2. Set the **Key Tone** field to **On**.
3. Press the **Menu** key.
4. Click **Save**.

Set the trackball sensitivity

You can set how the trackball responds to your touch. A high sensitivity level requires less pressure than a lower sensitivity level.

1. In the device options, click **Screen/Keyboard**.
2. Set the **Horizontal Sensitivity** and **Vertical Sensitivity** fields.
3. Press the **Menu** key.
4. Click **Save**.

Turn off trackball sounds

1. In the device options, click **Screen/Keyboard**.
2. Set the **Audible Roll** field to **Mute**.
3. Press the **Menu** key.
4. Click **Save**.

To turn on trackball sounds again, set the **Audible Roll** field to **Click**.




Typing input methods

About typing input methods

You can type on your BlackBerry® device using the SureType® input method or the multi-tap input method.

SureType technology combines a traditional phone-style key layout with a familiar computer-style letter layout that is designed to provide a quick and comfortable typing and dialing experience.

SureType technology is designed to predict words as you type them. When you use SureType technology, you press the letter key for each letter in a word once until the word appears in a list that appears on the screen. For example, to type **run**, you would press the **R** key once, the **U** key once, and so on until **run** appears in the list.

When you use multi-tap, you press a letter key once to type the first letter on the key and twice to type the second letter. For example, to type **run**, you would press the  key twice, the  key once, and the  key twice.

SureType technology is the default typing input method for most fields. Multi-tap is the default typing input method for phone number and password fields.

Type text using SureType technology

1. Press the letter key once for each letter in a word.
2. Perform one of the following actions:
 - To select an item from the list that appears when you type and start typing a new word, highlight the item. Press the **Enter** key.
 - To select an item from the list that appears when you type and continue typing the same word, click the item.
 - To change a letter in a word that you are typing, highlight the letter. Click the alternate letter that appears on the screen.

To change a letter in a word after you finish typing the word, click the word. Highlight the letter. Click the alternate letter that appears on the screen.

Type text using multi-tap

- To type the first letter on a key, press the letter key once.
- To type the second letter on a key, press the letter key twice.

Switch typing input methods

1. In the device options, click **Language**.
2. Perform one of the following actions:
 - To use the multi-tap input method, set the **Input Language** field to **<Language> Multitap**.
 - To use the SureType® input method, set the **Input Language** field to **<Language>**.
3. Press the **Menu** key.

4. Click **Save**.

Switch typing input methods when typing

1. Press the **Menu** key.
2. Click **Enable Multitap** or **Enable SureType**.

About typing input languages

You can set a typing input language to use when you type. The typing input language can be different from the display language. When you set a typing input language, AutoText and other typing options change to the selected language. For example, you might use your BlackBerry® device in French, but type messages in English.

When you set the typing input language, you also set whether your device uses the multi-tap or the SureType® input method.

If the typing input language is different from the display language, a rectangle with the abbreviated form of the current typing input language appears in the list that appears when typing.

Change the typing input language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your wireless service provider or administrator.

1. In the device options, click **Language**.
2. Change the **Input Language** field.
3. Press the **Menu** key.
4. Click **Save**.

Change the input options for SureType technology

1. In the device options, click **Language**.
2. Click **Input Options**.
3. Change the input options.
4. Press the **Menu** key.
5. Click **Save**.

Spelling checker

Check spelling

You can check spelling in messages, calendar entries, tasks, or memos that you create.

1. In a message, calendar entry, task, or memo, press the **Menu** key.
2. Click **Check Spelling**.

3. Perform any of the following actions:

- To accept the suggested spelling, click the highlighted word.
- To ignore the suggested spelling, press the **Escape** key.
- To ignore all instances of the suggested spelling, press the **Menu** key. Click **Ignore All**.
- To add the word to the custom dictionary, press the **Menu** key. Click **Add To Dictionary**.
- To stop checking spelling, press the **Menu** key. Click **Cancel Spell Check**.

Check spelling automatically before sending email messages

1. In the device options, click **Spell Check**.
2. Select the **Spell Check Email Before Sending** option.
3. Press the **Menu** key.
4. Click **Save**.

Change options for checking spelling

You can change the type and length of words that the spelling checker includes when checking spelling.

1. In the device options, click **Spell Check**.
2. Select or clear the check box beside one or more options.
3. Press the **Menu** key.
4. Click **Save**.

Add a word to the custom dictionary

1. In the device options, click **Spell Check**.
2. Click **Custom Dictionary**.
3. Press the **Menu** key.
4. Click **New**.
5. Type a word or letter combination.
6. Click the trackball.

Change a word in the custom dictionary

1. In the device options, click **Spell Check**.
2. Click **Custom Dictionary**.
3. Highlight a word.
4. Press the **Menu** key.
5. Click **Edit**.
6. Change the word.

7. Click the trackball.

Delete a word from the custom dictionary

1. In the device options, click **Spell Check**.
2. Click **Custom Dictionary**.
3. Highlight a word.
4. Press the **Menu** key.
5. Click **Delete**.

Custom dictionary

About the custom dictionary

If you type a word or letter combination that your BlackBerry® device does not recognize, your device adds the word or letter combination to the custom dictionary. You can also add words or letter combinations manually to the custom dictionary.

Your device deletes words from the custom dictionary if you do not use them.

Add a custom dictionary item

1. In the device options, click **Custom Dictionary**.
2. Press the **Menu** key.
3. Click **New**.
4. Type a word or letter combination.
5. Click the trackball.
6. Click **Save**.

Change a custom dictionary item

1. In the device options, click **Custom Dictionary**.
2. Click a custom dictionary item.
3. Change the custom dictionary item.
4. Click the trackball twice.
5. Click **Save**.

Delete custom dictionary items

1. In the device options, click **Custom Dictionary**.
2. Perform one of the following actions:

- To delete one custom dictionary item, highlight an item. Press the **Menu** key. Click **Delete**.
- To delete all custom dictionary items, press the **Menu** key. Click **Clear Custom Dictionary**.

Stop adding items to the custom dictionary automatically

1. In the device options, click **Language**.
2. Click **Input Options**.
3. Clear the **Auto Word Learning** check box.
4. Change the **Learn Words From Email Messages** field to **Off**.
5. Press the **Menu** key.
6. Click **Save**.

Stop displaying contacts in the list that appears when you type

By default, your BlackBerry® device recognizes contacts when you type them.

1. In the device options, click **Language**.
2. Click **Input Options**.
3. Change the **Use Address Book as Data Source** field to **Off**.
4. Press the **Menu** key.
5. Click **Save**.

AutoText

About AutoText

AutoText is designed to replace specific text that you type with preloaded AutoText entries. If you type text that can be replaced with an AutoText entry, the text changes after you press the Space key.

Your BlackBerry® device has built-in AutoText entries that correct common mistakes. For example, AutoText changes hte to the. You can create AutoText entries for your common typing mistakes or for abbreviations. For example, you might create an AutoText entry that replaces ttyl with talk to you later.

Create an AutoText entry

1. In the device options, click **AutoText**.
2. Press the **Menu** key.
3. Click **New**.
4. In the **Replace** field, type the text to replace.
5. In the **With** field, perform one of the following actions:
 - Type replacement text.

- To insert a macro (for example, the current date or time), press the **Menu** key. Click **Insert Macro**.
6. In the **Using** field, perform one of the following actions:
 - To capitalize the entry exactly as you typed it, click **Specified Case**.
 - To capitalize the entry according to the context, click **SmartCase**.
 7. Set the language.
 8. Press the **Menu** key.
 9. Click **Save**.

Turn off AutoText for SMS text messages

1. In the device options, click **SMS**.
2. Set the **Disable AutoText** field to **Yes**.
3. Press the **Menu** key.
4. Click **Save**.

Change an AutoText entry

1. In the device options, click **AutoText**.
2. Click an AutoText entry.
3. Change the AutoText entry.
4. Click the trackball.
5. Click **Save**.

Delete an AutoText entry

1. In the device options, click **AutoText**.
2. Highlight an AutoText entry.
3. Press the **Menu** key.
4. Click **Delete**.

Undo an AutoText change

Press the **Backspace/Delete** key twice.

Typing shortcuts

- To insert a period, press the **Space** key twice. The next letter is capitalized.
- To capitalize a letter, hold the letter key until the capitalized letter appears.
- To type the alternate character on a key, press the **Alt** key and the character key.

- To type an accented or special character, hold the letter key and roll the trackball to the left or right. Click a selected character. For example, to type ü, hold **3** and roll the trackball to the left until ü is highlighted. Click the trackball.
- To type a number in a number field, press a number key. You do not need to press the **Alt** key.
- To type a number in a text field, hold the **Alt** key and press the number key.
- To type a letter in a number field, hold the **Alt** key and use the multi-tap input method.
- To turn on NUM lock, hold the **Shift** key and press the **Alt** key. To turn off NUM lock, press the **Alt** key.
- To switch typing input languages, in the device options, on the Language screen, verify that the **Use Input Language Shortcut** field is set to **Yes**. Hold the **Alt** key and press the **Enter** key. Continue to hold the **Alt** key and highlight a language. Release the **Alt** key.
- To type a long word quickly, type part of the word. In the list that appears when you type, highlight an item with the same initial letters as the word that you want to type. Roll the trackball to the right. In the second list that appears on the screen, highlight the word that you want to type. Press the **Enter** key.

Insert symbols

- To insert an at sign (@) or a period (.) in an email address field, press the **Space** key.
- To type a symbol, press the **Symbol** key. To view more symbols, press the **Symbol** key again. Type the letter that appears below the symbol.

Work with text

- To highlight a line of text, press the **Shift** key and roll the trackball up or down.
- To highlight text character by character, hold the **Shift** key and roll the trackball left or right.
- To cancel a text selection, press the **Escape** key.
- To cut highlighted text when typing, press the **Shift** key and the **Backspace/Delete** key.
- To copy highlighted text when typing, press the **Alt** key and click the trackball.
- To paste highlighted text when typing, press the **Shift** key and click the trackball.

Typing troubleshooting

I cannot type a password

Verify that you are using the multi-tap input method.

SureType technology does not recognize a word

Use the list that appears when you type to help you build words that SureType® technology does not recognize. Press the letter key for the first letter in the word once. Highlight a letter in the list. Press the letter key for the next letter in the word once. Highlight a letter combination. Click the trackball. Continue typing the word.

I cannot check spelling

You can only check spelling in English, French, German, Italian, and Spanish.

You can only check the spelling of text that you type.

Search

Messages, attachments, and web pages

Search for messages

You can search for messages on your BlackBerry® device. You might also be able to search for messages in the email application on your computer or in another integrated email account if your device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature.

1. In a message list, press the **Menu** key.
2. Click **Search**.
3. Specify the search criteria.
4. Press the **Menu** key.
5. Perform one of the following actions:
 - To search for messages without saving your search criteria, click **Search**.
 - To save the search criteria, click **Save**. Type a title. Press the **Menu** key. Click **Save**.
 - To search for messages using the criteria from your last search, click **Last**. Press the **Menu** key. Click **Search**.

Note: If you search for messages, your device does not search attachments.
To stop a search, press the **Escape** key.

Search criteria

Search Type:

Change whether you search for messages on your device or for messages in an email application on your computer or in another integrated email account.

Name:

Specify one or more contacts or email addresses that your BlackBerry® device should search for in messages. You can also specify part of a name to widen the search.

In:

Change the type of address field that your device should search in for the name or email address.

Subject:

Specify one or more words that your device should search for in the subject of messages.

Message:

Specify one or more words that your device should search for in the body of messages.

Include Encrypted Messages:

Specify whether your device searches encrypted messages, plain text messages, and digitally signed messages.

Service:

If your device is associated with more than one email address, change the email account that your device should search in for messages.

Folder:

Change the folder that your device should search for messages in.

Show:

Change the status of messages that your device should search for.

Type:

Change the type of messages that your device should search for.

Manage message search results

You can manage results of searches for messages in an email application on your computer or in another integrated email account.

1. In the search results, highlight a message.
2. Press the **Menu** key.
3. Perform one of the following actions:
 - To view more available search results, click **Get More Results**.
 - To add a message to a message list, click **Add**.
 - To add all the messages to a message list, click **Add All**.
 - To delete a message from the search results, click **Delete**.
 - To delete the search results, click **Delete Search**.
 - To start a new search, click **Search**.

CAUTION: If you delete a message from the message search results, the message is also deleted from the email application on your computer or another integrated email account.

Search for messages by contact or subject

You can search for messages on your BlackBerry® device by contact or subject.

1. In a message list, highlight a message.
2. Press the **Menu** key.
3. Click one of the following menu items:
 - **Search Sender**
 - **Search Recipient**
 - **Search Subject**

Search for text in a message, in an attachment, or on a web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, in an attachment, or on a web page, press the **Menu** key.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, press the **Menu** key. Click **Find Next**.

View a list of saved searches

1. In a message list, press the **Menu** key.
2. Click **Search**.
3. Press the **Menu** key.
4. Click **Recall**.

Change a saved search

1. In the list of saved searches, highlight a search.
2. Press the **Menu** key.
3. Click **Edit Search**.
4. Edit the search criteria.
5. Press the **Menu** key.
6. Click **Save**.

Delete a saved search

1. In the list of saved searches, highlight a search.
2. Press the **Menu** key.
3. Click **Delete Search**.

Organizer data

Search for organizer data

You can search for organizer data on your BlackBerry® device that contains specific information.

1. In the search application, perform any of the following actions:
 - In the **Text** field, type text or a phone number to search for.
 - In the **Name** field, specify a contact name to search for.
2. Select the check box beside one or more applications.
3. Press the **Menu** key.

4. Click **Search**.

Note: If you type more than one word in the Text or Name field, only items that contain all the words appear. To stop a search, press the **Escape** key.

Search for contacts in your organization's address book

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.

1. In the address book, press the **Menu** key.
2. Click **Lookup**.
3. Type part or all of a contact name.
4. Click the trackball.

Manage address lookup results

1. In the address lookup results, highlight a contact.
2. Press the **Menu** key.
3. Perform one of the following actions:
 - To add a contact to your address book, click **Add**.
 - To add all the contacts, click **Add All**.
 - To view information for a contact, click **View**.
 - To delete a contact from the address lookup results, click **Delete**.
 - To delete the address lookup results, click **Delete Lookup**.
 - To start a new address lookup, click **Lookup**.

Search shortcuts

- To search for a contact in a list of contacts, type the contact name or initials separated by a space.
- To search for text in an attachment, press **Q**.
- To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view. Press **Q**.

Attachments

Attachment basics

About attachments

You can view several attachment types on your BlackBerry® device, including .zip, .htm, .html, .doc, .dot, .ppt, .pdf, .wpd, .txt, .vcf, and .xls files. You can also view .bmp, .gif, .jpg, .png, .tif, and .wmf files, and play .wav and .mp3 files.

If you save an email message that contains an attachment that you have previewed, the email message and the attachment are stored in the device memory until you delete the email message.

You can download attachments and store them in the device memory. You can also store attachments on a media card. If you delete an email message that contains an attachment you have downloaded, the attachment is stored in the device memory or on the media card until you delete it from your device.

To change attachments that you download, you can use third-party editing applications that are designed for use on BlackBerry devices. If Word to Go™ by DataViz® is available on your device, you can use this application to change some document attachments. For more information about Word to Go, visit www.dataviz.com.

Open an attachment

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or administrator.

1. In a message, press the **Menu** key.
2. If necessary, click **Retrieve Attachment Information**.
3. Click **Open Attachment**.
4. If necessary, on the Attachments screen, click an attachment.
5. If necessary, in the dialog box, click an option.

Download an attachment

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or administrator.

1. In a message, highlight an attachment.
2. Press the **Menu** key.
3. Click **Download Attachment**.
4. Click **Download**.
5. Highlight the folder that you want to save the attachment in.
6. Press the **Menu** key.
7. Click **Select Folder**.

Stop downloading an attachment

1. In a message, highlight an attachment that you are downloading.
2. Press the **Menu** key.
3. Click **Cancel Download**.

Open a link in an attachment

Some attachments might contain links to embedded content, such as tables, pictures, footnotes, text boxes, or comments.

1. In an attachment, click a link.
2. Click **Retrieve**.

To return to the attachment, press the **Escape** key.

View properties for an attachment

You can view the size, author, publication date, and other attachment properties for an attachment.

1. In an attachment, press the **Menu** key.
2. Click **Retrieve Info** or **View Info**.

Set font options for an attachment

1. In an attachment, press the **Menu** key.
2. Click **Options**.
3. Set the font fields.
4. Press the **Menu** key.
5. Click **Save**.

Search for text in a message, in an attachment, or on a web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, in an attachment, or on a web page, press the **Menu** key.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, press the **Menu** key. Click **Find Next**.

Document attachments

Open a password-protected .pdf file attachment

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or administrator.

1. When the "Password protected document" message appears, press the **Escape** key.
2. Press the **Menu** key.
3. Click **Password**.
4. Type the password.
5. Press the **Enter** key.
6. Click **Retrieve**.
7. Click **Yes**.

View tracked changes in a document

1. In a document, press the **Menu** key.
2. Click **Show Changes**.

To hide tracked changes, press the **Menu** key. Click **Hide Changes**.

View the table of contents in a document

Depending on the document type, you might not be able to view the table of contents.

1. In a document, press the **Menu** key.
2. Click **Table of Contents**.

To move to a specific heading, click a heading.

Spreadsheet attachments

Move to a specific cell

1. In a spreadsheet, click the trackball.
2. Click **Go to Cell**.
3. Type the cell co-ordinates.
4. Click the trackball.

View the content of a cell

In a spreadsheet cell, click the trackball.

View a list of worksheets

1. In a spreadsheet, press the **Menu** key.
2. Click **Table of Contents**.

To move to a specific worksheet, click a worksheet.

Switch worksheets

1. In a spreadsheet, press the **Menu** key.
2. Click **Next Sheet** or **Prev Sheet**.

Change the size of a column

In a spreadsheet, perform one of the following actions:

- To change the size of a column, click the column label. Click a size.
- To view all the text in a column, click the column label. Click **Fit**.
- To change the size of all the columns in the spreadsheet, click the unmarked column label in the upper-left corner of the spreadsheet. Click a size.
- To change the column size for all spreadsheets, press the **Menu** key. Click **Options**. Set the **Column Width** field. Press the **Menu** key. Click **Save**.

Set display options for a spreadsheet

1. In a spreadsheet, press the **Menu** key.
2. Click **Options**.
3. Perform any of the following actions:
 - To view the gridlines in the spreadsheet, set the **Show Gridlines** field to **Yes**.
 - To label spreadsheet rows with numbers and columns with letters, set the **Display Labels** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

Media attachments

View a list of pages in a multi-page .tif file attachment

You can view a list of pages in a multi-page .tif file attachment, such as a scanned fax document saved as a .tif file.

1. In a multi-page .tif file attachment, press the **Menu** key.
2. Click **Table of Contents**.

To move to a specific page, click a page.

Switch pages in a multi-page .tif file attachment

1. In a multi-page .tif file attachment, press the **Menu** key.
2. Click **Next Page** or **Prev Page**.

Presentation attachments

Switch presentation views

1. In a presentation, press the **Menu** key.
2. Perform one of the following actions:
 - To view text only, click **View Text**.
 - To view text and slides, click **View Both**.

To view the presentation in its original format, click **View Slides**.

Switch slides

1. In a presentation, press the **Menu** key.
2. Click **Next Slide** or **Prev Slide**.

Rotate a slide

1. When viewing a presentation in slide view, click a slide.
2. Click **Rotate**.

Zoom in to or out from a slide

1. When viewing a presentation in slide view, click a slide.
2. Click **Zoom**.
3. Roll the trackball up or down.

To zoom back to the original slide size, press the **Menu** key. Click **Fit to Screen**.

Save a slide

1. When viewing a presentation in slide view, press the **Menu** key.
2. Click **Save Slide**.

3. Type a name for the file.
4. Click **Save**.

vCard contact attachments

About vCard contact attachments

vCard® contact attachments (.vcf files) contain information for a specific contact. When you add a vCard contact attachment to an email message, recipients of your email message can view your contact information or add it to the address book on their BlackBerry® device. When you open an email message that contains a vCard contact attachment, a book icon appears at the end of the message with the name of the attached contact.

Open a vCard contact attachment

1. In a message, highlight a vCard® contact attachment.
2. Press the **Menu** key.
3. Click **View Attachment**.

Add a contact to your address book from a vCard contact attachment

1. In a vCard® contact attachment, press the **Menu** key.
2. Click **Add to Address Book** or **Update Address**.

Attachment shortcuts

- To search for text in an attachment, press **Q**.

In a spreadsheet

- To move to a specific cell, press **A**.
- To view the content of a cell, press the **Space** key.
- To switch worksheets, press **O**. Highlight a worksheet. Press the **Enter** key.

In a presentation

- To switch presentation views, press **Z**.
- To move to the next slide, verify that you are viewing the presentation in slide view. Press **6**.
- To move to the previous slide in slide view, verify that you are viewing the presentation in slide view. Press **4**.

Attachment troubleshooting

A skipped content bar appears in a document

More attachment content is available for you to download to your BlackBerry® device.

To download the content, click the skipped content bar. Click **More**.

A message or attachment does not appear or is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, press the **Menu** key. Click **More** or **More All**.
- If you are downloading an attachment, cancel the download and wait for a short period of time. Try downloading the attachment again.

A question mark appears on a slide

A question mark appears on a slide if your BlackBerry® device has not downloaded the slide.

To download the slide, highlight the slide. Press the **Menu** key. Click **Retrieve**.

Synchronization

About synchronization

The wireless data synchronization feature is designed to synchronize organizer data (contacts, calendar entries, tasks, and memos) between your BlackBerry® device and the email application on your computer over the wireless network.

The wireless email reconciliation feature is designed to reconcile email messages between your device and the email application on your computer over the wireless network. When you file or delete email messages on your device, these email messages should be filed or deleted in your email application. Likewise, any changes that you make to email messages in the email application on your computer should be reflected on your device.

If wireless data synchronization or wireless email reconciliation is not available on your device or you have turned them off, you can use the synchronization tool of the BlackBerry® Desktop Manager to synchronize your organizer data and email messages. For more information, see the *BlackBerry Desktop Software Online Help*.

Reconcile email messages over the wireless network

Set the Wireless Reconcile option for each email address that is associated with your BlackBerry® device.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Reconciliation**.
4. Set the **Wireless Reconcile** field to **On**.
5. Press the **Menu** key.
6. Click **Save**.

To stop reconciling email messages over the wireless network, set the **Wireless Reconcile** field to **Off**.

Delete email messages over the wireless network

Set the Delete On option for each email address that is associated with your BlackBerry® device.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Reconciliation**.
4. Set the **Delete On** field.
5. Press the **Menu** key.
6. Click **Save**.

It takes a short period of time for messages to be deleted over the wireless network.

To delete messages on your device only, set the **Delete On** field to **Handheld**.

Prerequisites: Wireless data synchronization

- Verify that you have synchronized your organizer data using the synchronization tool of the BlackBerry® Desktop Manager. For more information, see the *BlackBerry Desktop Software Online Help*.
- Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.

Synchronize organizer data over the wireless network

1. In the address book, a calendar, the task list, or the memo list, press the **Menu** key.
2. Click **Options**.
3. To synchronize calendar entries, click a calendar.
4. Change the **Wireless Synchronization** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

To stop synchronizing organizer data over the wireless network, change the **Wireless Synchronization** field to **No**.

About synchronization conflicts

A synchronization conflict occurs when you change the same email message or organizer data item on your BlackBerry® device and in the email application on your computer.

If you reconcile your email messages using wireless email reconciliation, on your device, you can set whether the email messages on your device or the email messages on your computer take precedence when an email reconciliation conflict occurs.

If you synchronize your organizer data using wireless data synchronization, the organizer data on your computer takes precedence over the organizer data on your device when a data synchronization conflict occurs.

Manage email reconciliation conflicts

Set the On Conflicts option for each email address that is associated with your BlackBerry® device.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Reconciliation**.
4. Set the **On Conflicts** field.
5. Press the **Menu** key.
6. Click **Save**.

Manage data synchronization conflicts

You can change how conflicts that occur during organizer data synchronization are resolved by turning off wireless data synchronization, changing conflict resolution options, and synchronizing organizer data using the synchronization tool of the BlackBerry® Desktop Manager. For more information about managing conflicts that occur during organizer data synchronization, see the *BlackBerry Desktop Software Online Help*.

About backing up and restoring device data

If you have installed the BlackBerry® Desktop Software on your computer, you can back up and restore most of your BlackBerry® device data, including messages, organizer data, fonts, saved searches, and browser bookmarks using the backup and restore tool of the BlackBerry® Desktop Manager. For more information, see the *BlackBerry Desktop Software Online Help*.

If your device is associated with an email account that uses a BlackBerry® Enterprise Server, you might be able to restore synchronized organizer data to your device over the wireless network. To restore synchronized organizer data over the wireless network, you must have an activation password. For more information, contact your administrator.

Prerequisites: Wireless data restoration

- Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.
- Verify that your administrator has provided you with an enterprise activation password.
- Verify that your device is connected to the wireless network.

Delete all device data

Verify that you have a backup copy of your BlackBerry® device data.

CAUTION: If you have turned on content protection, the process for deleting all device data can take up to an hour to complete. You cannot stop the process after you start it. If you reset your device, the process continues after the device restarts.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Press the **Menu** key.
4. Click **Wipe Handheld**.
5. To delete all third-party applications from your device, select the **Include third-party applications** check box.
6. Click **Continue**.
7. Type **blackberry**.

Empty the deleted items folder on your computer from your device

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature and that wireless email reconciliation is turned on. For more information, contact your administrator.

1. In a message list, press the **Menu** key.
2. Click **Options**.
3. Click **Email Reconciliation**.
4. Press the **Menu** key.
5. Click **Purge Deleted Items**.

Synchronization troubleshooting

Email messages are not reconciling over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless email reconciliation is turned on.
- Reconcile email messages manually. In a message list, press the **Menu** key. Click **Reconcile Now**.

I am not receiving email messages from personal folders on my computer

If your BlackBerry® device is associated with a Microsoft® Outlook® email account, you must use the synchronization tool of the BlackBerry® Desktop Manager to reconcile email messages in personal folders. For more information, see the *BlackBerry Desktop Software Online Help*.

Email messages are not being deleted over the wireless network

Try performing the following actions:

- If you delete multiple email messages on your BlackBerry® device, highlight the email messages and press the **Backspace/Delete** key. If you delete multiple email messages using the Delete Prior menu item, the email messages are not deleted during wireless email reconciliation.
- In the email reconciliation options, verify that the **Delete On** field is set to **Mailbox & Handheld**.

Organizer data is not synchronizing over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless data synchronization is turned on in the address book, calendar, task list, and memo list.
- If you use the BlackBerry® Internet Service, you must use the synchronization tool of the BlackBerry® Desktop Manager to synchronize calendar data. For more information, see the *BlackBerry Desktop Software Online Help*.

Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.

Some characters in calendar entries do not appear correctly after synchronization

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. For more information, see the documentation for the operating system on your computer.


Browser

Browser basics

Browsing web pages

Visit a web page

Depending on your wireless service provider, multiple browsers might appear on your BlackBerry® device. For more information about the charges associated with using each browser, contact your wireless service provider.

1. In the browser, perform one of the following actions:
 - If a web address field appears on the screen, type a web address.
 - If a web address field does not appear on the screen, press the  key. Click **Go To**. Type a web address.
2. Click the trackball.

Search the Internet

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Internet Service that supports this feature. For more information, contact your wireless service provider.

1. In the browser, perform one of the following actions:
 - If the **Search here** field appears on the screen, type the search terms.
 - If the **Search here** field does not appear on the screen, press the **Menu** key. Click **Go To**. Type the search terms.
2. Press the **Enter** key.

About browser views

You can view web pages in Column view or Page view. Column view displays web pages in a mobile view format. Page view displays web pages in a wide screen format that is similar to the format that the browser on your computer uses to display web pages. You can also set the default browser view so that your BlackBerry® device selects the most appropriate browser view automatically.

Switch browser views

1. On a web page, press the **Menu** key.
2. Click **Column View** or **Page View**.

Zoom in to a web page

Verify that you are viewing the web page in Page view.

On a web page, click the trackball.

To zoom out from the web page, press the **Escape** key.

Move back or forward a web page

1. On a web page, press the **Menu** key.
2. Click **Back** or **Forward**.

Move through a web page line by line

1. On a web page, press the **Menu** key.
2. Click **Select Mode**.

To select only links and fields as you move through a web page, press the **Menu** key. Click **View Mode**.

Refresh a web page

1. On a web page, press the **Menu** key.
2. Click **Refresh**.

Save a web page to a message list

A saved web page displays content that was current at the time that you saved the web page.

1. On a web page, press the **Menu** key.
2. Click **Save Page**.
3. Click **OK**.

Stop loading a web page

1. When a web page is loading, press the **Menu** key.
2. Click **Stop**.

Search for text in a message, in an attachment, or on a web page

To search for text in a presentation attachment, verify that you are viewing the presentation in text view or in text and slide view.

1. In a message, in an attachment, or on a web page, press the **Menu** key.
2. Click **Find**.
3. Type the text.
4. Press the **Enter** key.

To search for the next instance of the text, press the **Menu** key. Click **Find Next**.

View a list of web pages you visited recently

1. On a web page, press the **Menu** key.

2. Click **History**.

Return to the home page

1. On a web page, press the **Menu** key.
2. Click **Home**.

Close the browser

1. In the browser, press the **Menu** key.
2. Click **Close**.

Viewing, copying, and forwarding addresses

View the address for a web page

1. On a web page, press the **Menu** key.
2. Click **Page Address**.

View the address for a link or picture

1. On a web page, highlight or pause on a link or picture.
2. Press the **Menu** key.
3. Click **Link Address** or **Image Address**.

Copy an address for a web page, link, or picture

1. On a web page, perform one of the following actions:
 - Highlight or pause on a link. Press the **Menu** key. Click **Link Address**.
 - Highlight or pause on a picture. Press the **Menu** key. Click **Image Address**.
 - Press the **Menu** key. Click **Page Address**.
2. Click **Copy Address**.

To paste the address, press the **Menu** key. Click **Paste**.

Send a web page address

1. On a web page, press the **Menu** key.
2. Click **Send Address**.
3. Click a message type.

To return to the browser after you send the message, press the **Escape** key.

Send a link or picture from a web page

1. On a web page, highlight or pause on a link or picture.
2. Press the **Menu** key.
3. Click **Link Address** or **Image Address**.
4. Click **Send Address**.
5. Click a message type.

To return to the browser after you send the message, press the **Escape** key.

Viewing pictures and playing media files

Play a song or video on a web page

1. In the browser, click a link for a song or video.
2. Click **Open**.

Save a song or video from a web page

1. In the browser, click a link for a song or video.
2. Click **Save**.
3. Type a name for the song or video.
4. Click **Save**.

View a full picture on a web page

1. On a web page, highlight or pause on a picture.
2. Press the **Menu** key.
3. Click **Full Image**.

Zoom in to or out from a picture

1. In a picture, press the **Menu** key.
2. Click **Zoom**.
3. Roll the trackball up or down.

To zoom back to the original picture size, press the **Menu** key. Click **View Actual Size**.

Browser bookmarks

About bookmarks for web pages

You can add bookmarks for web pages that you visit frequently. When you add a bookmark, you can set whether you want the browser to check the web page for updates periodically. Bookmarks for web pages that have been updated since the last time you visited them appear in italic.

Add a bookmark for a web page

1. On a web page, press the **Menu** key.
2. Click **Add Bookmark**.
3. In the **Auto Synchronize** field, set how often the browser should check for updates to the web page.
4. In the **Start time** field, set the time of day when the browser should start checking for updates.
5. Click **Add**.

If you visit the web page offline, the browser displays the content that was current the last time that you viewed the web page online.

Change a bookmark for a web page

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a bookmark.
4. Press the **Menu** key.
5. Click **Edit Bookmark**.
6. Change the bookmark.
7. Click **Accept**.

Send a bookmark for a web page

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a bookmark.
4. Press the **Menu** key.
5. Click **Send Bookmark**.
6. Click a message type.

To return to the browser after you send the message, press the **Escape** key.

Delete a bookmark for a web page

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a bookmark.
4. Press the **Menu** key.
5. Click **Delete Bookmark**.

Add a bookmark folder for web pages

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a bookmark folder.
4. Press the **Menu** key.
5. Click **Add Subfolder**.

File a bookmark for a web page

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a bookmark.
4. Press the **Menu** key.
5. Click **Move Bookmark**.
6. Roll the trackball to the new location.
7. Click the trackball.

Rename a bookmark folder for web pages

You can only rename folders that you created.

1. Highlight a folder.
2. Press the **Menu** key.
3. Click **Rename Folder**.

Delete a bookmark folder for web pages

You can only delete folders that you created.

1. Highlight a folder.
2. Press the **Menu** key.
3. Click **Delete Folder**.

Web feeds

About web feeds

Web feeds provide you with information about updates to web site content. You can open a web feed to view a list of titles and descriptions for updated web site content. For example, if you open a sports web feed for a news web site, you can scan a list of sports stories that the web site has published since the last time that you checked the web feed. If a title interests you, you can view the web feed content, or if an audio version of the content is available, you can listen to the web feed content.

You can open web feeds on web pages, or you can subscribe to web feeds and open them from your bookmark list. In your bookmark list, web feeds that have been updated since the last time you checked them appear in italic. In a web feed, unopened web feed titles appear in bold.

If one or more web feeds are available on a web page, the Add Web Feed option appears in the menu.

Subscribe to a web feed

1. On a web page, press the **Menu** key.
2. Click **Add Web Feed**.
3. Select the check box beside a web feed.
4. In the **Auto Synchronize** field, set how often the browser should check for updates to the web feed.
5. In the **Start time** field, set the time of day when the browser should start checking for updates.
6. Click **Add**.

View web feed content

1. In a web feed, highlight a title.
2. Press the **Menu** key.
3. Perform one of the following actions:
 - To view a summary of the story, click **Show Description**.
 - To view the full story, click **Read Story**.

To hide a description, highlight a title. Press the **Menu** key. Click **Hide Description**.

Listen to web feed content

If your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service, you can listen to web feed content that does not exceed 5 MB. If your BlackBerry device is associated with an email account that uses the BlackBerry® Enterprise Server, you might not be able to listen to web feed content that exceeds 128 KB. For more information, contact your administrator.

1. In a web feed, highlight a title.
2. Press the **Menu** key.
3. Click **Get Audio**.

Mark a web feed title as opened or unopened

In a web feed, perform one of the following actions:

- Highlight a title. Press the **Menu** key. Click **Mark Opened** or **Mark Unopened**.
- Highlight a date field. Press the **Menu** key. Click **Mark Prior Opened**.

Change a web feed

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a web feed.
4. Press the **Menu** key.
5. Click **Edit Bookmark**.
6. Change the web feed.
7. Click **Accept**.

File a web feed

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a web feed.
4. Press the **Menu** key.
5. Click **Move Bookmark**.
6. Roll the trackball to the new location.
7. Click the trackball.

Delete a web feed

1. On a web page, press the **Menu** key.
2. Click **Bookmarks**.
3. Highlight a web feed.
4. Press the **Menu** key.
5. Click **Delete Bookmark**.

Browser options

Change the default browser view

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Click **General Properties**.
4. Change the **Default View** field.
5. Press the **Menu** key.
6. Click **Save Options**.

Change the home page or start page

Depending on your wireless service provider, you might not be able to change the home page.

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Click **Browser Configuration**.
4. Perform any of the following actions:
 - In the **Home Page Address** field, type a web address.
 - Change the **Start Page** field.
5. Press the **Menu** key.
6. Click **Save Options**.

Change JavaScript options

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Click **Browser Configuration**.
4. Select any of the following check boxes:
 - **Support JavaScript**
 - **Allow JavaScript popups**
 - **Terminate slow running scripts**
5. Press the **Menu** key.
6. Click **Save Options**.

Change options for pictures and animation on web pages

1. In the browser, press the **Menu** key.

2. Click **Options**.
3. Perform any of the following actions:
 - To stop displaying pictures, click **Browser Configuration**. Change the **Show Images** field.
 - To change the quality of pictures, click **General Properties**. Change the **Image Quality** field.
 - To change the number of times that animated graphics repeat, click **General Properties**. Change the **Repeat Animations** field.
4. Press the **Menu** key.
5. Click **Save Options**.

Change display options for web pages

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Perform any of the following actions:
 - To view a cursor in Column view, click **General Properties**. Select the **Enable cursor in column view** check box.
 - To view background images, click **Browser Configuration**. Select the **Use Background Images** check box.
 - To stop viewing foreground and background colors, click **Browser Configuration**. Clear the **Use Foreground and Background Colors** check box.
 - To change the browsing experience, click **Browser Configuration**. Change the **Emulation Mode** field.
4. Press the **Menu** key.
5. Click **Save Options**.

Change font options for web pages

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Click **General Properties**.
4. Perform any of the following actions:
 - Change the **Default Font Family** and **Default Font Size** fields.
 - Change the **Minimum Font Style** and **Minimum Font Size** fields.
5. Press the **Menu** key.
6. Click **Save Options**.

Set the character encoding for all web pages

By default, your BlackBerry® device uses the optimal character encoding for a web page.

1. On a web page, press the **Menu** key.
2. Click **Set Encoding**.
3. Clear the **Auto mode** check box.

4. Set the **Default charset** field.
5. Click **OK**.

Receive a prompt before closing the browser or running a script

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Click **General Properties**.
4. Select any of the following check boxes:
 - **Prompt Before Closing Browser On Escape**
 - **Prompt Before Closing Modified Pages**
 - **Prompt Before Running WML Scripts**
5. Press the **Menu** key.
6. Click **Save Options**.

Clear a browser cache

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Click **Cache Operations**.
4. Beside a cache type, click **Clear**.

Clear the browser history

1. In the browser, press the **Menu** key.
2. Click **Options**.
3. Click **Cache Operations**.
4. Click **Clear History**.

About browser configurations

The browser on your BlackBerry® device supports multiple browser configurations for optimizing your browsing experience.

If your BlackBerry device is associated with an email account that uses a BlackBerry® Enterprise Server that supports the BlackBerry Browser, you can use the BlackBerry Browser configuration to browse the Internet and your organization's intranet. If you use the BlackBerry Browser configuration, you might not be able to change some browser options.

You can use the Internet Browser configuration to access web pages that enable you to subscribe to BlackBerry web push services or access ring tones. Depending on your wireless service provider, the Internet Browser configuration might not be available on your device or might use a different name. For more information about the Internet Browser configuration, contact your wireless service provider.

You can use the WAP Browser configuration to access web pages from your wireless service provider that enable you to configure your account information and subscribe to services such as voice mail.

Set the default browser configuration

1. In the device options, click **Advanced Options**.
2. Click **Browser**.
3. Set the **Default browser configuration** field.
4. Press the **Menu** key.
5. Click **Save**.

Browser security

About TLS

The BlackBerry® Browser configuration is designed to use TLS or SSL to encrypt data that your device sends or receives over the Internet through the BlackBerry® Enterprise Server. Communication between your device and the BlackBerry Enterprise Server is encrypted using Triple DES. Communication between the BlackBerry Enterprise Server and content servers is encrypted using SSL or TLS. To increase security, you can set up TLS for HTTP connections between your device and the BlackBerry Enterprise Server and use Triple DES encryption for all other communication between your device and the BlackBerry Enterprise Server.

About WTLS

The WAP Browser configuration is designed to use WTLS to encrypt data that your BlackBerry® device sends and receives over the Internet through a WAP gateway. Communication between your device and the WAP gateway is encrypted using WTLS. Communication between the WAP gateway and content servers is encrypted using TLS or SSL.

Manage browser security

1. In the device options, click **Security Options**.
2. Click **TLS** or **WTLS**.
3. Set the security options.
4. Press the **Menu** key.
5. Click **Save**.

TLS options

TLS Default:

Specify the type of TLS or SSL connection that your browser uses for HTTP connections. To use a direct TLS or SSL connection, change this field to **Handheld**. To use Triple DES and TLS or SSL, change this field to **Proxy**.

Allow HTTP Redirections:

Specify whether a prompt appears before a secure web page redirects your browser to another web page.

Protocol:

Specify the protocol that your BlackBerry® device uses for TLS connections between the browser and content servers.

Encryption Strength:

Specify whether your browser only accepts and sends data that is encrypted using 128-bit encryption. To accept and send only data that is encrypted using 128-bit encryption, change this field to **Strong Only**. To accept and send data that is encrypted using 128-bit encryption or 56-bit encryption, change this field to **Allow Weak**.

Allow FIPS Algorithms Only:

Specify whether your browser accepts and sends data that is encrypted using only FIPS-approved algorithms.

Prompt for Server Trust:

Specify whether a prompt appears when your browser tries to connect to an untrusted content server that your device does not have an authentication certificate for.

Prompt for Domain Name:

Specify whether a prompt appears when your browser tries to connect to a content server and the domain name on the authentication certificate for the content server does not match the web address that the browser is trying to connect to.

Prompt for Certificate:

Specify whether a prompt appears when your browser tries to connect to a content server. You might want a prompt to appear if your device has more than one certificate that you use to authenticate with content servers.

Prompt if Client Cert Not Found:

Specify whether a prompt appears when your browser tries to connect to a content server, but your device does not have a certificate that can be used to authenticate with the content server.

Default Client Cert:

Specify the certificate that your browser uses to authenticate with content servers.

WTLS options

Encryption Strength:

Specify whether your browser only accepts and sends data that is encrypted using 128-bit encryption. To accept and send only data that is encrypted using 128-bit encryption, change this field to **Strong Only**. To accept and send data that is encrypted using 128-bit encryption or 56-bit encryption, change this field to **Allow Weak**.

Prompt for Server Trust:

Specify whether a prompt appears when your browser tries to connect to an untrusted content server that your device does not have an authentication certificate for.

Add a trusted content server

Add content servers to your trusted content server list to accelerate the authentication process when you are authenticating with a content server.

1. In the device options, click **Security Options**.
2. Click **TLS**.
3. Press the **Menu** key.
4. Click **Add Host**.
5. Perform one of the following actions:
 - If the **TLS Default** field is set to **Proxy**, in the **Host Name** field, type the web address for the content server.
 - If the **TLS Default** field is set to **Handheld**, in the **Host Name** field, type the web address for the content server. Set the **Certificate** field to the client certificate that you want to use to authenticate with the content server.
6. Click **OK**.
7. Press the **Menu** key.
8. Click **Save**.

Browser push

About browser push

Browser push is designed to push information from a web application to your BlackBerry® device as the information becomes available. For example, you can use browser push to receive updates for weather reports, stock quotes, or breaking news. When your device receives an update, a new browser push message might appear in a message list or, an icon on the Home screen or in the application list might change to indicate that new information is available. The web application might also push updated information to your browser cache without notifying you. If information is pushed to your browser cache, the information is available on your device even when your device is not connected to the wireless network.

Your device supports different types of browser push messages. Service loading messages and service indication messages include updated information. Other browser push messages include messages that appear in your browser cache.

Turn off browser push

1. In the device options, click **Advanced Options**.
2. Click **Browser Push**.
3. Perform one of the following actions:
 - To reject all browser push messages, clear the **Enable Push**, **Enable MDS Push**, and **Enable WAP Push** check boxes.
 - To reject browser push messages through a BlackBerry® Enterprise Server or BlackBerry® Internet Service, clear the **Enable MDS Push** check box.
 - To reject browser push messages through WAP gateways, clear the **Enable WAP Push** check box.

4. Press the **Menu** key.
5. Click **Save**.

Browser push options

Process MDS:

Set whether your BlackBerry® device accepts browser push messages from the BlackBerry® Enterprise Server or BlackBerry® Internet Service.

MDS Hosts:

Set whether your device accepts push messages from all BlackBerry Enterprise Servers or BlackBerry Internet Services, or no BlackBerry Enterprise Servers or BlackBerry Internet Services.

Process SMSC:

Set whether your device accepts SMS-based browser push messages.

SMSC Hosts:

Set which SMSC hosts your device accepts browser push messages from. To accept browser push messages from a specific SMSC host, type the phone number for the SMSC host.

Process IP:

Set whether your device accepts browser push messages that web applications send through a WAP gateway.

IP Hosts:

Set which WAP gateways your device accepts browser push messages from. To accept browser push messages from a specific IP host, type the IP address for the WAP gateway.

Browser shortcuts

- To insert a period (.) in the web address field, press the **Space** key.
- To insert a slash mark (/) in the web address field, press the **Shift** key and the **Space** key.
- To stop loading a web page, press the **Escape** key.
- To close the browser, hold the **Escape** key.

On a web page

- To switch between Column view and Page view, press the at sign (@) key.
- To move to a specific web page, press the period (.) key.
- To open the bookmark list, press **5**.
- To add a bookmark, press the question mark (?) key.
- To follow a link, highlight or pause on the link. Press the **Enter** key.
- To hide the banner, press the exclamation point (!) key. To view the banner, press the exclamation point (!) key.

Navigate a web page

- To move up a screen, press **3**.
- To move down a screen, press **9**.
- To move to the top of a web page, press **1**.
- To move to the bottom of a web page, press **7**.

Browser troubleshooting

No browser is available on my device

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your wireless service plan includes this service.

I cannot set up automatic synchronization for bookmarks

When you add a bookmark, you can only set the Auto Synchronize and Start Time fields if content protection is turned off.

I cannot play a song or video on a web page

Your BlackBerry® device might not support the size or file format of the song or video file.

Applications

Add an application

1. On a web page, highlight a link for an application.
2. Press the **Menu** key.
3. Click **Download**.
4. Click **OK**.

View properties for an application

1. In the device options, click **Advanced Options**.
2. Click **Applications**.
3. Click an application.

Delete a third-party application

1. In the device options, click **Advanced Options**.
2. Click **Applications**.
3. Highlight a third-party application.
4. Press the **Menu** key.
5. Click **Delete**.

Receive a device password prompt before you add an application

Verify that you have set a BlackBerry® device password.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Change the **Prompt on application install** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

View the size of an application database

1. In the device options, click **Status**.
2. Press the **Menu** key.
3. Click **Database Sizes**.

About upgrading the BlackBerry Device Software

You can upgrade the BlackBerry® Device Software over the wireless network, or if you have installed the BlackBerry® Desktop Software on your computer, you can upgrade the BlackBerry Device Software using the application loader tool of the BlackBerry® Desktop Manager. For more information about upgrading using the BlackBerry Desktop Manager, see the *BlackBerry Desktop Software Online Help*.

When a BlackBerry Device Software upgrade is available for you to download over the wireless network, a Wireless Upgrade icon appears on the Home screen. The available upgrade might be a complete software upgrade or a software update only. If the available upgrade is a complete software upgrade, your BlackBerry device data is backed up and restored over the wireless network during the installation process.

The duration of the upgrade process can range from 15 minutes to 2 hours, depending on the type of upgrade, the amount of device data, and the number of applications on your device. You can use your device when you download the software, but you cannot use your device or make emergency calls when you install the software.

For more information, contact your wireless service provider or administrator.

Prerequisites: Upgrading the BlackBerry Device Software over the wireless network

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that the battery power level is 50 percent or higher.
- If you have installed the BlackBerry® Desktop Software on your computer, verify that your device is not connected to your computer.

Upgrade the BlackBerry Device Software

You can use your BlackBerry® device when you download BlackBerry® Device Software but not when you install the software.

If content protection is turned on, you might need to type your password at various times during the installation process.

1. On the Home screen, click the **Wireless Upgrade** icon.
2. Complete the instructions on the screen.

Note: During the installation process, your device might reset multiple times.

Return to the previous version of the BlackBerry Device Software

You can only return to the previous version of the BlackBerry® Device Software within 30 days of upgrading the software.

1. In the device options, click **Advanced Options**.
2. Click **Wireless Upgrade**.
3. Click **Previous upgrade succeeded**.
4. Click **Downgrade**.

Delete the previous version of the BlackBerry Device Software

If you upgrade your BlackBerry® Device Software, your BlackBerry device deletes the previous version of the software after 30 days. To increase the amount of available memory on your device, you can remove the previous version manually.

1. In the device options, click **Advanced Options**.
2. Click **Wireless Upgrade**.
3. Click **Previous upgrade succeeded**.
4. Press the **Menu** key.
5. Click **Delete Downgrade Data**.

Application troubleshooting

I cannot add applications

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your device has enough memory to add the application.

My device does not have enough available memory to upgrade the BlackBerry Device Software

Try performing the following actions:

- Delete media files, display languages, or third-party applications that you do not use.
- Transfer media files that you have stored in the BlackBerry® device memory to a media card.

Maps

Map basics

Get directions

1. On a map, press the **Menu** key.
2. Click **Get Directions**.
3. Perform one of the following actions to specify a starting location:
 - To specify your current location, click **Where I Am**.
 - To specify a new location, click **Enter An Address**.
 - To specify a saved location, click **From Favorites**.
 - To specify a location for a contact, click **From Address Book**.
 - To specify a recently viewed location for a contact, click the location.
4. Repeat step 3 to specify an ending location.

To get directions from the ending location to the starting location, press the **Menu** key. Click **Reverse Directions**.

View directions as a route on a map

When viewing text directions, click **View On Map**.

To view text directions again, press the **Menu** key. Click **View Directions**.

Send a route or a map

1. On a map, press the **Menu** key.
2. Click **Send Directions** or **Send Location**.
3. Click a message type.

View a location on a map

1. On a map, press the **Menu** key.
2. Click **Find Location**.
3. Perform one of the following actions:
 - To view your current location, click **Where I Am**.
 - To view a new location, click **Enter An Address**. To type location information in specific address fields, select the **Advanced** check box.
 - To view a saved location, click **From Favorites**.
 - To view a location for a contact, click **From Address Book**.

- To view a location that you viewed recently, click the location.

View a list of points of interest near a location

You can search for points of interest such as businesses, airports, schools, parks, or landmarks.

1. On a map, press the **Menu** key.
2. Click **Local Search**.
3. Type the point of interest information.
4. Click the trackball.

View points of interest on a map

When viewing a list of points of interest, click **View On Map**.

To view a list of points of interest again, press the **Menu** key. Click **View Businesses**.

Track your movement

Verify that you have set a GPS receiver to use when you track your movement.

1. On a map, click the trackball.
2. Click **Start GPS Navigation**.

To stop tracking your movement, press the **Menu** key. Click **Stop GPS Navigation**.

Navigation

Zoom in to a direction on a route

1. On a map, highlight a direction on a route.
2. Press the **Menu** key.
3. Click **Zoom To Point**.

Zoom in to or out from a map

1. On a map, click the trackball.
2. Perform one of the following actions:
 - To zoom in, roll the trackball up.
 - To zoom out, roll the trackball down.
3. Click the trackball.

Pan a map

Roll the trackball.

Maps bookmarks

Add a bookmark for a location or route

1. On a map, press the **Menu** key.
2. Click **Add To Favorites**.

Change a bookmark for a location or route

1. On a map, press the **Menu** key.
2. Click **Find Location**.
3. Click **From Favorites**.
4. Highlight a bookmark.
5. Press the **Menu** key.
6. Click **Edit**.
7. Change the bookmark.
8. Press the **Menu** key.
9. Click **Save**.

Delete a bookmark for a location or route

1. On a map, press the **Menu** key.
2. Click **Find Location**.
3. Click **From Favorites**.
4. Highlight a bookmark.
5. Press the **Menu** key.
6. Click **Delete**.

Add a bookmark folder for locations or routes

1. On a map, press the **Menu** key.
2. Click **Find Location**.
3. Click **From Favorites**.
4. Press the **Menu** key.

5. Click **Add Subfolder**.

File a bookmark for a location or route

1. On a map, press the **Menu** key.
2. Click **Find Location**.
3. Click **From Favorites**.
4. Highlight a bookmark.
5. Press the **Menu** key.
6. Click **Move**.
7. Roll the trackball to the new location.
8. Click the trackball.

Map options

Set the GPS receiver that you use to track your movement

1. On a map, press the **Menu** key.
2. Click **Options**.
3. Change the **GPS Data Source** field.
4. Press the **Menu** key.
5. Click **Save**.

Clear the map cache

1. On a map, press the **Menu** key.
2. Click **Options**.
3. Press the **Menu** key.
4. Click **Clear Cache**.

View status information at the top of a map

You can view the battery power level, wireless coverage level indicators, the time, and satellite and Bluetooth® connection information at the top of maps.

1. On a map, press the **Menu** key.
2. Click **Options**.
3. Change the **Hide Title Bar** field to **No**.
4. Press the **Menu** key.

5. Click **Save**.

To hide the status information again, change the **Hide Title Bar** field to **Yes**.

View north at the top of a map

By default, when you are tracking your movement, the direction that you are moving appears at the top of the map.

1. On a map, press the **Menu** key.
2. Click **North Up**.

To view the direction that you are moving at the top of the map again, press the **Menu** key. Click **Track Up**.

Hide the tracking information at the bottom of a map

1. When tracking your movement on a map, press the **Menu** key.
2. Click **Hide Dashboard**.

To view the tracking information again, press the **Menu** key. Click **Show Dashboard**.

Keep backlighting on when you track your movement

By default, backlighting turns off automatically after a timeout to conserve battery power. You can change maps options so that backlighting remains on when you track your movement unless the battery power level drops below a specified percentage.

1. On a map, press the **Menu** key.
2. Click **Options**.
3. Change the **Backlight Timeout When** field.
4. Press the **Menu** key.
5. Click **Save**.

Add GPS location information to pictures

You can add the latitude and longitude coordinates for your current location to pictures that you take.

1. In the camera, press the **Menu** key.
2. Click **Options**.
3. Change the **Geotagging** field to **Enabled**.
4. Press the **Menu** key.
5. Click **Save**.

To stop adding GPS location information to pictures, set the **Geotagging** field to **Disabled**.

View GPS location information for a picture on a map

When you highlight a picture that includes GPS location information, a globe indicator appears beside the file name in the lower-left corner of the screen.

1. In the media application, click **Pictures**.
2. Click a category.

3. Highlight a picture that includes GPS location information.
4. Press the **Menu** key.
5. Click **View on Map**.

Map shortcuts

- To zoom in to a map, press **L**.
- To zoom out from a map, press **O**.
- To view status information at the top of a map, press **Q**. To hide status information at the top of a map, press **Q**.
- To view tracking information at the bottom of a map, press the **Space** key. To hide tracking information at the bottom of a map, press the **Space** key.
- To move to the next direction on a route, press **6**.
- To move to the previous direction on a route, press **4**.

Maps troubleshooting

Diagonal lines appear on a map

Diagonal lines appear on a map when your BlackBerry® device loads a new map or when your device is not connected to the wireless network.

If diagonal lines appear for a long period of time, verify that your device is connected to the wireless network.

GPS technology

About GPS technology

Depending on your wireless service provider, you might be able to use location-based applications and location-based services on your BlackBerry® device to get your GPS location. Location-based applications can use your GPS location to provide you with other location-based information. For example, a location-based application could use your GPS location to provide you with driving directions.

If your device is connected to a CDMA network and you make an emergency call or your device is in emergency callback mode, an emergency operator might be able to use GPS technology to estimate your location.

Note: In an emergency, always provide the emergency operator with as much information as possible. Emergency operators might not be able to estimate your location using only GPS technology.

If your device does not have an internal GPS receiver or your wireless service provider does not support location-based services and you want to use GPS technology, you can pair your BlackBerry device with a Bluetooth® enabled GPS receiver. For more information, contact your wireless service provider.

Get your GPS location

1. In the device options, click **Advanced Options**.
2. Click **GPS**.
3. Press the **Menu** key.
4. Click **Refresh GPS**.

The longitude and latitude coordinates for your current location appear.

Prevent others from tracking your location

If your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server, your administrator might be able to track the location of your device.

1. In the device options, click **Advanced Options**.
2. Click **GPS**.
3. Change the **Location Tracking** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

GPS technology troubleshooting

I cannot use GPS technology


Try performing the following actions:

- If you are outdoors, move away from buildings and expose your device to open sky.
- If you are indoors, move close to a window.
- If you have paired your BlackBerry® device with a Bluetooth® enabled GPS receiver, verify that the Bluetooth enabled GPS receiver is turned on.
- If you are using GPS technology for the first time, wait a short period of time for your device to get your GPS location.

Contacts

Contact basics

Add a contact

1. In the address book, press the  key.
2. Click **New Address**.
3. Type the contact information.
4. Press the **Menu** key.
5. Click **Save**.

Add a contact from a message, call log, or web page

1. In a message, a call log, or on a web page, highlight a contact.
2. Press the **Menu** key.
3. Click **Add to Address Book**.
4. Type the contact information.
5. Press the **Menu** key.
6. Click **Save**.

Name a custom address book field

If you change the name of a custom address book field, it changes for all contacts.

1. When adding or changing a contact, click the **User1**, **User2**, **User3**, or **User4** field.
2. Click **Change Field Name**.
3. Type a name for the custom address book field.
4. Press the **Enter** key.

You can synchronize custom address book fields on your BlackBerry® device with the email application on your computer. For more information about synchronizing custom address book fields, see the *BlackBerry Desktop Software Online Help*.

About pauses and waits

Use a pause or a wait to separate additional numbers, for example a password or extension, from a main phone number. After dialing the main phone number, your BlackBerry® device either pauses before dialing the additional numbers (pause) or prompts you to type them (wait).

Add a pause or a wait to a phone number

1. After typing the main part of a phone number in a phone number field, press the **Menu** key.
2. Click **Add Pause** or **Add Wait**.
3. Type the additional numbers.
4. Press the **Menu** key.
5. Click **Save**.

View a contact

In the address book, click a contact.

Change a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Edit**.
4. Change the contact information.
5. Press the **Menu** key.
6. Click **Save**.

Delete a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Delete**.

Search for contacts in your organization's address book

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.

1. In the address book, press the **Menu** key.
2. Click **Lookup**.
3. Type part or all of a contact name.
4. Click the trackball.

Manage address lookup results

1. In the address lookup results, highlight a contact.
2. Press the **Menu** key.

3. Perform one of the following actions:
 - To add a contact to your address book, click **Add**.
 - To add all the contacts, click **Add All**.
 - To view information for a contact, click **View**.
 - To delete a contact from the address lookup results, click **Delete**.
 - To delete the address lookup results, click **Delete Lookup**.
 - To start a new address lookup, click **Lookup**.

Customizing contacts

About custom ring tones

You can assign a custom ring tone to a contact without changing other notifications.

Custom ring tone options appear with your contacts and your notification profiles. When you assign a custom ring tone to a contact, a new profile exception appears with your notification profiles as "Calls From <contact>". Notification profile exceptions are shared between your contacts and your notification profiles and changes that you make in one application are made in the other application.

Your BlackBerry® device bases the volume for custom ring tones on the volume that you set in the active notification profile.

Assign a ring tone to a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Edit**.
4. Press the **Menu** key.
5. Click **Add Custom Ring Tone**.
6. Change the **Custom Ring Tone** field.
7. Press the **Menu** key.
8. Click **Save**.

Add a caller ID picture for a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Add Picture**.
4. Highlight a picture.
5. Press the **Menu** key.
6. Click **Select**.

7. Center the picture in the box.
8. Press the **Menu** key.
9. Click **Crop and Save**.

Change the caller ID picture for a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Edit**.
4. Highlight the caller ID picture.
5. Press the **Menu** key.
6. Click **Replace Picture**.
7. Highlight a picture.
8. Press the **Menu** key.
9. Click **Select**.
10. Center the picture in the box.
11. Press the **Menu** key.
12. Click **Crop and Save**.

Delete the caller ID picture for a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Edit**.
4. Click the caller ID picture.
5. Click **Delete Picture**.
6. Press the **Menu** key.
7. Click **Save**.

Categories

About categories

You can create categories to group your contacts, tasks, and memos. You can also narrow the contacts, tasks, and memos that appear based on categories.

Category names are not case sensitive. More than one category can apply to a contact, task, or memo. If you use IBM® Lotus Notes®, you can apply more than one category to a task on your BlackBerry® device, but only one category synchronizes with the task in Lotus Notes.

Categories are shared between the address book, the task list, and the memo list and changes that you make in one application are made in all applications.

Create a category for contacts, tasks, or memos

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Press the **Menu** key.
4. Click **New**.
5. Type a name for the category.
6. Press the **Enter** key.

Categorize a contact, task, or memo

1. When creating or changing a contact, task, or memo, press the **Menu** key.
2. Click **Categories**.
3. Select the check box beside a category.
4. Press the **Menu** key.
5. Click **Save**.

Sort contacts, tasks, or memos by category

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Select the check box next to a category.

Delete a contact, task, or memo from a category

1. When changing a contact, task, or memo, press the **Menu** key.
2. Click **Categories**.
3. Clear the check box beside the category.
4. Press the **Menu** key.
5. Click **Save**.

Delete a category

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Highlight a category.
4. Press the **Menu** key.

5. Click **Delete**.

Note: When you delete a category, contacts, tasks, or memos in the category are not deleted.

Mailing lists

About mailing lists

You can use mailing lists when you send email, PIN, SMS text, or MMS messages.

Mailing lists that you create on your BlackBerry® device do not appear in the email application on your computer.

Create a mailing list

1. In the address book, press the **Menu** key.
2. Click **New Group**.
3. Type a name for the mailing list.
4. Press the **Menu** key.
5. Click **Add Member**.
6. Click a contact.
7. To add another contact, repeat steps 4 to 6.
8. Press the **Menu** key.
9. Click **Save Group**.

Change a mailing list

1. In the address book, highlight a mailing list.
2. Press the **Menu** key.
3. Click **Edit Group**.
4. Click a contact.
5. Click one of the following menu items:
 - **Add Member**
 - **Change Member**
 - **Delete Member**
6. Press the **Menu** key.
7. Click **Save Group**.

Note: When you delete a contact from a mailing list, the contact remains in your address book.

View a mailing list

In the address book, click a mailing list.

To view the details for a contact in the mailing list, click a contact. Click **View Member**.

Delete a mailing list

1. In the address book, highlight a mailing list.
2. Press the **Menu** key.
3. Click **Delete Group**.

Multiple address books

About multiple address books

If your BlackBerry® device is associated with multiple email accounts, you might have contacts from each address book on your device. For example, if your device is associated with a work email account and a personal email account, you might be able to view your work address book and your personal address book on your device. For more information, contact your wireless service provider.

Switch address books

Verify that you have multiple address books on your BlackBerry® device.

1. In an address book, press the **Menu** key.
2. Click **Select Address Book**.
3. Click an address book.

Change the default address book

Verify that you have multiple address books on your BlackBerry® device.

1. In the device options, click **Advanced Options**.
2. Click **Default Services**.
3. Change the **Address Book (SYNC)** field.
4. Press the **Menu** key.
5. Click **Save**.

Contact list options

Sort contacts or tasks

1. In the address book or task list, press the **Menu** key.

2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Sort By** field.
5. Press the **Menu** key.
6. Click **Save**.

Change the display options for contacts

You can change how your contacts appear in all applications, including the phone, message list, address book, and calendar.

1. In the device options, click **Language**.
2. Change the **Name Display** field.
3. Press the **Menu** key.
4. Click **Save**.

Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete messages, call logs, contacts, calendar entries, tasks, memos, or passwords.

1. In an application, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Confirm Delete** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

View the number of contacts stored on your device

1. In the address book, press the **Menu** key.
2. Click **Options**.
3. Click an address book.

The Number of Entries field displays the number of contacts that are stored in the address book.

Contact troubleshooting

Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.

Caller ID pictures are not appearing on my device

If your BlackBerry® device is associated with a Microsoft® Outlook® 2000 email account and you add a picture for a contact in the email application on your computer, verify that the file name for the picture is ContactPicture.jpg.

Calendar

Calendar basics

About calendar views

You can view your appointments and meetings in one of four calendar views. Day, Week, and Month views display all your appointments and meetings for the selected time period. Agenda view displays all your scheduled appointments and meetings in a list. Agenda view also displays free time that you have between appointments.


Switch calendar views

1. In a calendar, press the **Menu** key.
2. Click a view.

Move around a calendar

1. In a calendar, press the **Menu** key.
2. Perform one of the following actions:
 - To move to a specific date, click **Go To Date**.
 - To move to the current date, click **Today**.
 - To move forward or back by a time period, click **Prev** or **Next**.

Schedule an appointment

1. In a calendar, press the  key.
2. Click **New**.
3. Type the appointment information.
4. If the appointment recurs, change the **Recurrence** field.
5. Press the **Menu** key.
6. Click **Save**.

Schedule an appointment quickly in Day view

In the general calendar options, verify that the Enable Quick Entry field is set to Yes.

1. In Day view, beside the start time, type the subject of the appointment.
2. Type a location in parentheses.
3. To change the end time, roll the trackball.

4. Click the trackball.

If you have multiple calendars on your BlackBerry® device, the appointment appears in your default calendar.

Schedule a meeting

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or administrator.

1. In a calendar, press the **Menu** key.
2. Click **New**.
3. Type the meeting information.
4. Press the **Menu** key.
5. Click **Invite Attendee**.
6. Click a contact.
7. To add another contact to your meeting, repeat steps 4 to 6.
8. Press the **Menu** key.
9. Click **Save**.

Recurrence fields

Every:

Set the frequency of the daily, weekly, or monthly recurring appointment, meeting, or task.

Relative Date:

Set whether the monthly or yearly recurring appointment, meeting, or task recurs on a relative date (for example, on the last Friday of each month).

Check spelling

You can check spelling in messages, calendar entries, tasks, or memos that you create.

1. In a message, calendar entry, task, or memo, press the **Menu** key.
2. Click **Check Spelling**.
3. Perform any of the following actions:
 - To accept the suggested spelling, click the highlighted word.
 - To ignore the suggested spelling, press the **Escape** key.
 - To ignore all instances of the suggested spelling, press the **Menu** key. Click **Ignore All**.
 - To add the word to the custom dictionary, press the **Menu** key. Click **Add To Dictionary**.
 - To stop checking spelling, press the **Menu** key. Click **Cancel Spell Check**.

Open an appointment or a meeting

In a calendar, click an appointment or a meeting.

Delete an appointment or a meeting

1. In a calendar, highlight an appointment or a meeting.
2. Press the **Menu** key.
3. Click **Delete**.

Switch days in Day view

To move from one day to another using the navigation bar in the upper-right corner of the screen, click a day.

Meetings

Schedule a meeting

Verify that your BlackBerry® device is associated with an email account that uses the BlackBerry® Internet Service or a BlackBerry® Enterprise Server that supports this feature. For more information, contact your wireless service provider or administrator.

1. In a calendar, press the **Menu** key.
2. Click **New**.
3. Type the meeting information.
4. Press the **Menu** key.
5. Click **Invite Attendee**.
6. Click a contact.
7. To add another contact to your meeting, repeat steps 4 to 6.
8. Press the **Menu** key.
9. Click **Save**.

Recurrence fields

Every:

Set the frequency of the daily, weekly, or monthly recurring appointment, meeting, or task.

Relative Date:

Set whether the monthly or yearly recurring appointment, meeting, or task recurs on a relative date (for example, on the last Friday of each month).

Respond to a meeting invitation

1. In a meeting invitation, press the **Menu** key.
2. Click one of the following menu items:
 - **Accept** or **Accept with Comments**
 - **Tentative** or **Tentative with Comments**
 - **Decline** or **Decline with Comments**

Note: If you delete a meeting invitation from a message list before you accept or decline it, the meeting is deleted from the email application on your computer.

View your calendar when responding to a meeting

1. In a meeting invitation, press the **Menu** key.
2. Click **View Calendar**.

To return to the meeting invitation, press the **Escape** key.

Check availability of meeting participants

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.

You can only check availability of meeting participants in your organization.

1. In a meeting or meeting invitation, below the list of meeting participants, click **View Availability**.
2. Perform any of the following actions:
 - To select the next time that all meeting participants are available, click **Next Available Time**.
 - To view a list of the statuses that are associated with the colored bars on the screen (for example, busy or tentative), press the **Menu** key. Click **Show Legend**.

Change the list of participants for a meeting

Verify that you are the meeting organizer.

1. In a meeting, in the **Accepted** or **Declined** field, click a contact.
2. Click one of the following menu items:
 - **Invite Attendee**
 - **Change Attendee**
 - **Remove Attendee**
3. Press the **Menu** key.
4. Click **Save**.

Send an email message to all meeting participants

1. In a meeting, meeting invitation, or meeting response, press the **Menu** key.
2. Click **Email All Attendees**.

Contact a meeting participant

1. In a meeting, meeting invitation, or meeting response, highlight a contact.
2. Press the **Menu** key.
3. Click a message type or **Call <contact>**.

Calendar options

Change the default calendar view

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Initial View** field.
5. Press the **Menu** key.
6. Click **Save**.

Change the default reminder time for calendar entries

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Default Reminder** field.
5. Press the **Menu** key.
6. Click **Save**.

Change the start and end time for days

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Start of Day** and **End of Day** fields.
5. Press the **Menu** key.

6. Click **Save**.

Change the snooze time for reminders

1. In a calendar or task list, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Snooze** field.
5. Press the **Menu** key.
6. Click **Save**.

Change the email address that you use to send messages or meeting invitations

Verify that your BlackBerry® device is associated with more than one email address.

1. In the device options, click **Advanced Options**.
2. Click **Default Services**.
3. Change the **Messaging (CMIME)** field or the **Calendar (CICAL)** field.
4. Press the **Menu** key.
5. Click **Save**.

View tasks in a calendar

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Show Tasks** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

Change the first day of the week

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **First Day of Week** field.
5. Press the **Menu** key.
6. Click **Save**.

Hide free time in Agenda view

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Show Free Time in Agenda View** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

View more of the subject line for appointments in Agenda view

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Show End Time in Agenda View** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Change how long your device stores calendar entries

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click **General Options**.
4. Change the **Keep Appointments** field.
5. Press the **Menu** key.
6. Click **Save**.

Your BlackBerry® device deletes calendar entries that are older than the number of days that you set.

To restore calendar entries, change the **Keep Appointments** field to a longer period of time. Calendar entries that you received on your device within the set period of time appear in a calendar.

Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete messages, call logs, contacts, calendar entries, tasks, memos, or passwords.

1. In an application, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Confirm Delete** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

View the number of calendar entries stored in a calendar

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click a calendar.

The Number of Entries field displays the number of entries that are stored in the calendar.

Multiple calendars

About multiple calendars

If your BlackBerry® device is associated with multiple email accounts, you might have multiple calendars on your device. For example, if your device is associated with a work email account and a personal email account, you might be able to view your work calendar and your personal calendar on your device. If you have multiple calendars on your device, you can schedule and manage appointments and meetings in each calendar. For more information, contact your wireless service provider.

Switch calendars

Verify that you have multiple calendars on your BlackBerry® device.

1. In a calendar, press the **Menu** key.
2. Click **Select Calendar**.
3. Click a calendar.

Use color to differentiate calendars

Verify that you have multiple calendars on your BlackBerry® device.

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click a calendar.
4. Change the **Appointment Color** field.
5. Press the **Menu** key.
6. Click **Save**.

Change the calendar that reminds you of appointments

Verify that you have multiple calendars on your BlackBerry® device.

1. In a calendar, press the **Menu** key.
2. Click **Options**.
3. Click a calendar.
4. Change the **Display Reminders** field.

5. Press the **Menu** key.
6. Click **Save**.

Change the default calendar

Verify that you have multiple calendars on your BlackBerry® device.

1. In the device options, click **Advanced Options**.
2. Click **Default Services**.
3. Change the **Calendar (CICAL)** field.
4. Press the **Menu** key.
5. Click **Save**.

Calendar shortcuts

For shortcuts to work in Day view, in the general calendar options, change the **Enable Quick Entry** field to **No**.

- To schedule an appointment, press the period (.) key.
- To move to the next day, week, or month, press **9**.
- To move to the previous day, week, or month, press **3**.
- To move up an hour in Day view or Week view, press **2**.
- To move down an hour in Day view or Week view, press **8**.
- To move to the current date, press the exclamation point (!) key.

Calendar troubleshooting

I cannot schedule appointments that span multiple days

If you use IBM® Lotus Notes®, you cannot schedule appointments that span multiple days.

I cannot set some fields when scheduling appointments

If you use IBM® Lotus Notes®, you can only change the Subject, Location, Reminder, and Notes fields and the Mark as Private check box when you change a recurring appointment or meeting.

Some characters in calendar entries do not appear correctly after synchronization

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. For more information, see the documentation for the operating system on your computer.

Tasks

Task basics

Create a task

1. In the task list, press the **Menu** key.
2. Click **New**.
3. Type the task information.
4. Set a due date for the task.
5. If the task recurs, set the **Recurrence** field.
6. Press the **Menu** key.
7. Click **Save**.

Recurrence fields

Every:

Set the frequency of the daily, weekly, or monthly recurring appointment, meeting, or task.

Relative Date:

Set whether the monthly or yearly recurring appointment, meeting, or task recurs on a relative date (for example, on the last Friday of each month).

Change a task

1. In the task list, highlight a task.
2. Press the **Menu** key.
3. Click **Open**.
4. Change the task information.
5. Press the **Menu** key.
6. Click **Save**.

Change the status of a task

1. In the task list, highlight a task.
2. Press the **Menu** key.
3. Perform one of the following actions:
 - To mark the task as complete, click **Mark Completed**.

- To mark the task as deferred, in progress, or waiting, click **Open**. Set the **Status** field. Press the **Menu** key. Click **Save**.

Hide completed tasks

1. In the task list, press the **Menu** key.
2. Click **Hide Completed**.

Send a task or memo

1. In the task list or memo list, highlight a task or memo.
2. Press the **Menu** key.
3. Click **Forward As**.
4. Click a message type.

Check spelling

You can check spelling in messages, calendar entries, tasks, or memos that you create.

1. In a message, calendar entry, task, or memo, press the **Menu** key.
2. Click **Check Spelling**.
3. Perform any of the following actions:
 - To accept the suggested spelling, click the highlighted word.
 - To ignore the suggested spelling, press the **Escape** key.
 - To ignore all instances of the suggested spelling, press the **Menu** key. Click **Ignore All**.
 - To add the word to the custom dictionary, press the **Menu** key. Click **Add To Dictionary**.
 - To stop checking spelling, press the **Menu** key. Click **Cancel Spell Check**.

Delete a task

1. In the task list, highlight a task.
2. Press the **Menu** key.
3. Click **Delete**.

Categories

About categories

You can create categories to group your contacts, tasks, and memos. You can also narrow the contacts, tasks, and memos that appear based on categories.

Category names are not case sensitive. More than one category can apply to a contact, task, or memo. If you use IBM® Lotus Notes®, you can apply more than one category to a task on your BlackBerry® device, but only one category synchronizes with the task in Lotus Notes.

Categories are shared between the address book, the task list, and the memo list and changes that you make in one application are made in all applications.

Create a category for contacts, tasks, or memos

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Press the **Menu** key.
4. Click **New**.
5. Type a name for the category.
6. Press the **Enter** key.

Categorize a contact, task, or memo

1. When creating or changing a contact, task, or memo, press the **Menu** key.
2. Click **Categories**.
3. Select the check box beside a category.
4. Press the **Menu** key.
5. Click **Save**.

Sort contacts, tasks, or memos by category

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Select the check box next to a category.

Delete a contact, task, or memo from a category

1. When changing a contact, task, or memo, press the **Menu** key.
2. Click **Categories**.
3. Clear the check box beside the category.
4. Press the **Menu** key.
5. Click **Save**.

Delete a category

1. In the address book, task list, or memo list, press the **Menu** key.

2. Click **Filter**.
3. Highlight a category.
4. Press the **Menu** key.
5. Click **Delete**.

Note: When you delete a category, contacts, tasks, or memos in the category are not deleted.

Task list options

Sort contacts or tasks

1. In the address book or task list, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Sort By** field.
5. Press the **Menu** key.
6. Click **Save**.

Change the snooze time for reminders

1. In a calendar or task list, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Snooze** field.
5. Press the **Menu** key.
6. Click **Save**.

View tasks in the calendar

1. In the calendar, press the **Menu** key.
2. Click **Options**.
3. Set the **Show Tasks** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete messages, call logs, contacts, calendar entries, tasks, memos, or passwords.

1. In an application, press the **Menu** key.
2. Click **Options**.

3. If necessary, click **General Options**.
4. Change the **Confirm Delete** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

View the number of tasks or memos stored on your device

1. In the task list or memo list, press the **Menu** key.
2. Click **Options**.

The Number of Entries field displays the number of tasks or memos that are stored on your BlackBerry® device.

Memos

Memo basics

Create a memo

1. In the memo list, press the **Menu** key.
2. Click **New**.
3. Type the memo information.
4. Press the **Menu** key.
5. Click **Save**.

Change a memo

1. In the memo list, highlight a memo.
2. Press the **Menu** key.
3. Click **Edit**.
4. Change the memo information.
5. Click the trackball.
6. Click **Save**.

Send a task or memo

1. In the task list or memo list, highlight a task or memo.
2. Press the **Menu** key.
3. Click **Forward As**.
4. Click a message type.

Check spelling

You can check spelling in messages, calendar entries, tasks, or memos that you create.

1. In a message, calendar entry, task, or memo, press the **Menu** key.
2. Click **Check Spelling**.
3. Perform any of the following actions:
 - To accept the suggested spelling, click the highlighted word.
 - To ignore the suggested spelling, press the **Escape** key.
 - To ignore all instances of the suggested spelling, press the **Menu** key. Click **Ignore All**.
 - To add the word to the custom dictionary, press the **Menu** key. Click **Add To Dictionary**.

- To stop checking spelling, press the **Menu** key. Click **Cancel Spell Check**.

Delete a memo

1. In the memo list, highlight a memo.
2. Press the **Menu** key.
3. Click **Delete**.

Categories

About categories

You can create categories to group your contacts, tasks, and memos. You can also narrow the contacts, tasks, and memos that appear based on categories.

Category names are not case sensitive. More than one category can apply to a contact, task, or memo. If you use IBM® Lotus Notes®, you can apply more than one category to a task on your BlackBerry® device, but only one category synchronizes with the task in Lotus Notes.

Categories are shared between the address book, the task list, and the memo list and changes that you make in one application are made in all applications.

Create a category for contacts, tasks, or memos

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Press the **Menu** key.
4. Click **New**.
5. Type a name for the category.
6. Press the **Enter** key.

Categorize a contact, task, or memo

1. When creating or changing a contact, task, or memo, press the **Menu** key.
2. Click **Categories**.
3. Select the check box beside a category.
4. Press the **Menu** key.
5. Click **Save**.

Sort contacts, tasks, or memos by category

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Select the check box next to a category.

Delete a contact, task, or memo from a category

1. When changing a contact, task, or memo, press the **Menu** key.
2. Click **Categories**.
3. Clear the check box beside the category.
4. Press the **Menu** key.
5. Click **Save**.

Delete a category

1. In the address book, task list, or memo list, press the **Menu** key.
2. Click **Filter**.
3. Highlight a category.
4. Press the **Menu** key.
5. Click **Delete**.

Note: When you delete a category, contacts, tasks, or memos in the category are not deleted.

Memo list options

Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete messages, call logs, contacts, calendar entries, tasks, memos, or passwords.

1. In an application, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Confirm Delete** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

View the number of tasks or memos stored on your device

1. In the task list or memo list, press the **Menu** key.

2. Click **Options**.

The Number of Entries field displays the number of tasks or memos that are stored on your BlackBerry® device.

Alarm

About the alarm

In the BlackBerry® device alarm, you can set the alarm to sound at the same time everyday or only on weekdays. You can also set a snooze time for the alarm and adjust the alarm volume.

If you turn off your device by pressing the Power key, or by clicking Turn Power Off and selecting Turn Off, the alarm is designed to sound at the correct time even if the device is turned off.

Turn on the alarm

1. In the alarm, change the **Daily Alarm** field to **On** or **Weekdays Only**.
2. Change the alarm options.

In the device status section of the screen, a bell indicator appears.

Silence the alarm

- If snooze is not turned on, press any key.
- If snooze is turned on, click **Snooze**.

Calculator

Use the calculator

- To press a key in the calculator, press the corresponding key on the BlackBerry® device keyboard.
- To use the alternate function on a key in the calculator, press the **Alt** key and the corresponding key on the device keyboard.

Convert a measurement

1. In the calculator, type a number.
2. Press the **Menu** key.
3. Perform one of the following actions:
 - To convert the number from imperial to metric, click **To Metric**.
 - To convert the number from metric to imperial, click **From Metric**.
4. Click a conversion type.

Bluetooth technology


Bluetooth technology basics


About Bluetooth technology

Bluetooth® technology is designed to enable you to establish a wireless connection between your BlackBerry® device and a Bluetooth enabled device, such as a handsfree car kit or wireless stereo headset. After you pair your BlackBerry device with a Bluetooth enabled device, you can connect to that Bluetooth enabled device when the device is within range of your BlackBerry device (a typical range is approximately 10 meters).

When you turn on Bluetooth technology or when you connect your BlackBerry device to another Bluetooth enabled device, Bluetooth icons appear in the device status section of the screen. For more information about Bluetooth icons, see the printed documentation that came with your BlackBerry device.

Turn on Bluetooth technology

1. In the device options, click **Bluetooth**.
2. Press the  key.
3. Click **Enable Bluetooth**.

To turn off Bluetooth® technology, press the  key. Click **Disable Bluetooth**.

Pair with a Bluetooth enabled device

Some Bluetooth® enabled devices have a passkey that you must type before you can pair with them.

1. In the Bluetooth setup application, click **Search for devices from here** or **Allow another device to find me**.
2. Click **OK**.
3. If necessary, click a Bluetooth enabled device.
4. If necessary, type the passkey for the Bluetooth enabled device on your BlackBerry® device.
5. If necessary, type the passkey for the Bluetooth enabled device on the Bluetooth enabled device.

Connect to a Bluetooth enabled device

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth enabled device.
3. Click **Connect**.

Switch to a paired Bluetooth enabled device during a call

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. During a call, press the **Menu** key.
2. Click **Activate <Bluetooth device>**.

Share contacts with a paired Bluetooth enabled car kit

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled car kit.

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth enabled car kit.
3. Click **Connect**.
4. Press the **Menu** key.
5. Click **Transfer Address Book**.

Receive a media file using Bluetooth technology

Verify that Bluetooth® technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

1. In the media application, click a media type.
2. Press the **Menu** key.
3. Click **Receive Using Bluetooth**.
4. Click **Yes**.
5. Click **Save**.

Forward a media file

If you forward a media file using Bluetooth® technology, verify that Bluetooth technology is turned on and that your BlackBerry® device is paired with a Bluetooth enabled device.

You can only forward media files that you added.

1. In the media application, click a media type.
2. If necessary, click a category.
3. Highlight a media file.
4. Press the **Menu** key.
5. Click one of the following menu items:
 - **Send As Email**
 - **Send As MMS**
 - **Send Using Bluetooth**

Rename a paired Bluetooth enabled device

1. In the device options, click **Bluetooth**.
2. Click a paired Bluetooth® enabled device.
3. Click **Device Properties**.
4. In the **Device Name** field, change the name for the Bluetooth enabled device.
5. Press the **Menu** key.
6. Click **Save**.

Delete a paired Bluetooth enabled device

Verify that your BlackBerry® device is not connected to the Bluetooth® device.

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth enabled device.
3. Click **Delete Device**.

Bluetooth technology options

Prevent your device from sharing contacts with Bluetooth enabled devices

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Change the **Address Book Transfer** field.
5. Press the **Menu** key.
6. Click **Save**.

To share contacts with Bluetooth® enabled devices again, change the **Address Book Transfer** field to **All Entries**.

Restrict outgoing calls

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Set the **Allow outgoing calls** field to **Never** or **If Unlocked**.
5. Press the **Menu** key.
6. Click **Save**.

Make your BlackBerry device discoverable

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Set the **Discoverable** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

Change the pairing name for your BlackBerry device

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. In the **Device Name** field, type a name for your BlackBerry® device.
5. Press the **Menu** key.
6. Click **Save**.

Turn off Bluetooth connection notification

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Change the **LED Connection Indicator** field to **Off**.
5. Press the **Menu** key.
6. Click **Save**.

To turn on Bluetooth® connection notification again, change the **LED Connection Indicator** field to **On**.

Turn off the prompt that appears when connecting or pairing

1. In the device options, click **Bluetooth**.
2. Click a Bluetooth® enabled device.
3. Click **Device Properties**.
4. Set the **Trusted** field to **Yes**.
5. Press the **Menu** key.
6. Click **Save**.

To turn on the prompt again, set the **Trusted** field to **No**.

Turn off a Bluetooth profile

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Clear the check box beside one or more Bluetooth® profiles.
5. Press the **Menu** key.
6. Click **Save**.

Bluetooth profiles

Headset (HSP)

This profile allows you to connect your BlackBerry® device to Bluetooth® enabled headsets that support the Headset profile.

Handsfree (HFP)

This profile allows you to connect your device to Bluetooth enabled headsets and car kits that support the Handsfree profile.

Serial Port Profile

This profile allows you to connect your device to Bluetooth enabled devices that support desktop connectivity, wireless bypass, and data transfer.

Desktop Connectivity

This service allows you to connect your device to a Bluetooth enabled computer that is running BlackBerry® Desktop Software so that you can synchronize your organizer data.

Wireless Bypass

This service allows you to connect your device to a Bluetooth enabled computer that is running BlackBerry® Desktop Software so that you can send and receive email messages and synchronize your organizer data without using a connection to the wireless network. Your device must be associated with an email account that uses a BlackBerry® Enterprise Server.

Data Transfer

This service allows you to connect your device to Bluetooth enabled devices that support the transfer of data such as media files.

Dial-Up Networking (DUN)

This profile allows you to use your device as a modem when it is connected to a Bluetooth enabled computer that is running BlackBerry Desktop Software.

Audio Source (A2DP)

This profile allows you to output audio to Bluetooth enabled devices that support stereo audio such as stereo headsets, speakers, and car kits.

A/V Remote Control (AVRCP)

This profile allows you to use the buttons on a Bluetooth enabled headset to perform actions such as adjusting the volume or playing the next or previous media file on your BlackBerry device.

Encrypt data that you send or receive using Bluetooth technology

Verify that the Bluetooth® enabled device supports data encryption.

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Change the **Security Level** field to **High+Encryption**.
5. Press the **Menu** key.
6. Click **Save**.

Turn off automatic reconnection to Bluetooth enabled devices

By default, when you turn on your BlackBerry® device, your device attempts to connect to the last Bluetooth® enabled device you used.

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Change the **Connect on Power Up** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Bluetooth technology troubleshooting

I cannot type a passkey on a Bluetooth enabled device

If you cannot type a passkey on a Bluetooth® enabled device, the passkey might already be defined.

On your BlackBerry® device, in the **Enter passkey for <device name>** field, try typing **0000**.

My list of paired Bluetooth enabled devices does not appear

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that you have added Bluetooth enabled devices to the paired Bluetooth enabled devices list.

I cannot pair with a Bluetooth enabled device

Try performing the following actions:

- Verify that your BlackBerry® device is compatible with the Bluetooth® enabled device. For more information, see the documentation that came with the Bluetooth enabled device.

- Allow the Bluetooth enabled device to discover your BlackBerry device. In the Bluetooth setup application, click **Allow another device to find me**.
- Turn off encryption for Bluetooth connections between your BlackBerry device and the Bluetooth enabled device. In the device options, click **Bluetooth**. Click a Bluetooth enabled device. Click **Device Properties**. Change the **Encryption** field to **Disabled**. Press the **Menu** key. Click **Save**.

I cannot share contacts with a paired Bluetooth enabled device

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that your BlackBerry® device is paired with the Bluetooth enabled device.
- Verify that, in the Bluetooth options, the **Address Book Transfer** field is not set to **Disabled**.
- Verify that your BlackBerry device is connected to a Bluetooth enabled device that supports the Handsfree profile or the Object Push profile. For more information about supported profiles, see the documentation that came with the Bluetooth enabled device.

Date and time

Set the date and time

1. In the device options, click **Date/Time**.
2. Set the date and time.
3. Press the **Menu** key.
4. Click **Save**.

Get the date and time from the wireless network automatically

1. In the device options, click **Date/Time**.
2. Change the **Time Zone** field.
3. Perform one of the following actions:
 - To get the date and time from the wireless network that your BlackBerry® device is connected to, change the **Date/Time Source** field to **Network**.
 - To get the date and time from the BlackBerry network, change the **Date/Time Source** field to **BlackBerry**.
4. Press the **Menu** key.
5. Click **Update Time**.
6. Press the **Menu** key.
7. Click **Save**.

To set the time yourself, change the **Date/Time Source** field to **Off**.

Date and time troubleshooting

The time on my device is incorrect

Try performing the following actions:

- If you have traveled to a different time zone, set the **Time Zone** field to display the correct time zone.
- If you have set the **Date/Time Source** field to **Network**, try setting the **Date/Time Source** field to **BlackBerry**.

Notification profiles

Notification basics

About notification profiles

Notification profiles define how your BlackBerry® device notifies you of calendar and task reminders, and incoming messages, calls, and browser content. Your device has six preloaded profiles: Loud, Vibrate, Quiet, Normal, Phone Only, and Off.

You can change preloaded notification profiles or create new ones. In your notification profiles, you can set different notification options for different items, set ring tones, or set the volume for notification. If you set notification volume to Escalating, the notification volume gradually increases.

Change your ring tone

1. In the notification profile list, click **Advanced**.
2. Highlight a notification profile.
3. Press the **Menu** key.
4. Click **Show Tunes**.
5. Click a media folder that contains songs, ring tones, or voice notes.
6. Highlight a song, ring tone, or voice note.
7. Press the **Menu** key.
8. Click **Set As Phone Tune**.

Switch notification profiles

In the profile list, click a notification profile.

Create a notification profile

1. In the profile list, click **Advanced**.
2. Press the **Menu** key.
3. Click **New Profile**.
4. Type a name for the profile.
5. Highlight an item.
6. Press the **Menu** key.
7. Click **Edit**.
8. Set notification options.
9. Press the **Menu** key.

10. Click **Save**.
11. To set notification options for another item, repeat steps 5 through 10.
12. Press the **Menu** key.
13. Click **Save**.

Change a notification profile

1. In the profile list, click **Advanced**.
2. Highlight a notification profile.
3. Press the **Menu** key.
4. Click **Edit**.
5. Change the notification profile.
6. Press the **Menu** key.
7. Click **Save**.

Delete a notification profile

You can only delete notification profiles that you created.

1. In the profile list, click **Advanced**.
2. Highlight a notification profile.
3. Press the **Menu** key.
4. Click **Delete**.

Prevent notification during calls

1. In the profile list, click **Advanced**.
2. Highlight a notification profile.
3. Press the **Menu** key.
4. Click **Edit**.
5. Highlight an item.
6. Press the **Menu** key.
7. Click **Edit**.
8. Change the **Notify Me During Calls** field to **No**.
9. Press the **Menu** key.
10. Click **Save**.
11. To change the **Notify Me During Calls** field for another item, repeat steps 5 to 10.
12. Press the **Menu** key.
13. Click **Save**.

Silence your device

In the profile list, perform one of the following actions:

- To receive LED notification only, click **Quiet**.
- To receive vibrate notification only, click **Vibrate**.
- To turn off all notification, including notification profile exceptions and LED notification, click **Off**.

Download a ring tone

Verify that your wireless service provider supports this feature.

1. In the media application, click **Ring Tones**.
2. Click **All Ring Tones**.
3. Press the **Menu** key.
4. Click **Download Ring Tones**.

LED notification

LED notification

The LED light on the top of your BlackBerry® device flashes different colors to indicate different statuses.

Green:

You are in a wireless coverage area.

Blue:

Your device is connected to a Bluetooth® enabled device.

Red:

A new message has arrived and your selected notification profile is set to notify you using the LED.
If you are using your device with a smart card, your device is accessing data on the smart card.

Amber:

The battery power level for your device is low.

Turn off Bluetooth connection notification

1. In the device options, click **Bluetooth**.
2. Press the **Menu** key.
3. Click **Options**.
4. Change the **LED Connection Indicator** field to **Off**.
5. Press the **Menu** key.

6. Click **Save**.

To turn on Bluetooth® connection notification again, change the **LED Connection Indicator** field to **On**.

Turn on wireless coverage notification

1. In the device options, click **Screen/Keyboard**.
2. Set the **LED Coverage Indicator** field to **On**.
3. Press the **Menu** key.
4. Click **Save**.

When your BlackBerry® device is connected to the wireless network, the LED light flashes green.

To turn off wireless coverage notification again, set the **LED Coverage Indicator** field to **Off**.

Custom notification

About custom notification

You can create notification profile exceptions to receive different notification for incoming messages and calls from specific contacts. For example, you can create a notification profile exception that uses the Loud profile for incoming messages and calls from a specific contact, regardless of your active notification profile.

Your BlackBerry® device applies notification profile exceptions in the order in which they appear in the notification profile exception list. If you create multiple notification profile exceptions that include the same contact, place the notification profile exception that you want your device to apply first in the list.

Your device has one preloaded notification profile exception for important calls. You can add contacts to this notification profile exception, or you can delete it.

Set custom notification for calls or messages from a specific contact

1. In the notification profile list, click **Advanced**.
2. Press the **Menu** key.
3. Click **New Exception**.
4. In the **Exception** field, type a name for the notification profile exception.
5. In the **From** field, press the **Menu** key.
6. Click **Add Name**.
7. Click a contact.
8. To add another contact, repeat steps 5 to 7.
9. In the **Use Profile** field, change the notification profile that the exception is based on.
10. Change the **Custom Ring Tone** field.
11. Press the **Menu** key.
12. Click **Save**.

Change the order of notification profile exceptions

1. In the profile list, click **Advanced**.
2. Highlight a notification profile exception.
3. Press the **Menu** key.
4. Click **Move**.
5. Roll the trackball to the new location.
6. Click the trackball.

Change a notification profile exception

1. In the profile list, click **Advanced**.
2. Highlight a notification profile exception.
3. Press the **Menu** key.
4. Click **Edit**.
5. Change the notification profile exception information.
6. Press the **Menu** key.
7. Click **Save**.

Change the list of contacts for a notification profile exception

1. In the profile list, click **Advanced**.
2. Highlight a notification profile exception.
3. Press the **Menu** key.
4. Click **Edit**.
5. In the **From** field, press the **Menu** key.
6. Click one of the following menu items:
 - **Add Name**
 - **Change Name**
 - **Delete Name**

Delete a notification profile exception

1. In the profile list, click **Advanced**.
2. Highlight a notification profile exception.
3. Press the **Menu** key.
4. Click **Delete**.

About custom ring tones

You can assign a custom ring tone to a contact without changing other notifications.

Custom ring tone options appear with your contacts and your notification profiles. When you assign a custom ring tone to a contact, a new profile exception appears with your notification profiles as "Calls From <contact>". Notification profile exceptions are shared between your contacts and your notification profiles and changes that you make in one application are made in the other application.

Your BlackBerry® device bases the volume for custom ring tones on the volume that you set in the active notification profile.

Assign a ring tone to a contact

1. In the address book, highlight a contact.
2. Press the **Menu** key.
3. Click **Edit**.
4. Press the **Menu** key.
5. Click **Add Custom Ring Tone**.
6. Change the **Custom Ring Tone** field.
7. Press the **Menu** key.
8. Click **Save**.

Notification profile troubleshooting

My device is vibrating more times than expected

For calls, the number of times that the BlackBerry® device vibrates is not determined by the number of vibrations that you set in your notification profile. The device vibrates until the caller or the wireless network ends the connection.

I am not receiving notification for incoming calls or messages

Try performing the following actions:

- In the notification profile list, verify that the Off notification profile is not selected.
- In a notification profile exception, verify that the **Custom Ring Tone** field is not set to **Mute**.

I cannot change some fields in a Calls From notification profile exception

If you assign a custom ring tone to a contact in the address book, a Calls From notification profile exception appears in the notification profile list. Because these notification profile exceptions are for calls only, you can only change the Custom Ring Tone field.

BlackBerry Messenger

Contacts

Add a contact

You must invite contacts to use BlackBerry® Messenger before they are added to your contact list.

1. In BlackBerry Messenger, on the contact list screen, press the **Menu** key.
2. Click **Add a Contact**.
3. Perform one of the following actions:
 - If the contact is not in your address book, highlight **Use Once**. Press the **Menu** key. Click **Request by Email** or **Request by PIN**. Type an email address or PIN. Press the **Enter** key.
 - If the contact is in your address book, highlight a contact. Press the **Menu** key. Click **Request (Email)** or **Request (PIN)**.
4. Perform one of the following actions:
 - If you want to set a password, and have turned on invitation passwords, type a question and answer. Click **OK**.
 - If you do not want to set a password, and have turned on invitation passwords, click **Cancel** to proceed to the next step.
5. Perform one of the following actions:
 - To add a custom message to your invitation, type a message. Click **OK**.
 - To use the default invitation message, click **OK**.

Turn on invitation passwords

If you turn on invitation passwords, a question and password screen appears each time you invite a contact.

1. In BlackBerry® Messenger, on the contact list screen, press the **Menu** key.
2. Click **Options**.
3. Change the **Ask Password Question When Adding Contacts** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

Note: To turn off invitation passwords again, change the **Ask Password Question When Adding Contacts** field to **No**.

Respond to an invitation

1. In BlackBerry® Messenger, in the **Requests** group, highlight an invitation.
2. Click the trackball.
3. Click one of the following menu items:
 - **Accept**
 - **Decline**

- **Remove**

Note: If you click Remove, the contact who sent the invitation does not receive confirmation that your email address is a correct email address.

Turn off invitation forwarding options

If you turn off invitation forwarding, contacts that you invite can only accept invitations from the original email address or PIN that you sent the invitation to. If those contacts try to accept the invitation from a different email address or PIN, their acceptance is rejected.

1. In BlackBerry® Messenger, on the contact list screen, press the **Menu** key.
2. Click **Options**.
3. Change the **Allow Forwarding of Requests** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

Note: If you use a BlackBerry® Enterprise Server for IBM® Lotus® Domino®, BlackBerry Enterprise Server for Novell® GroupWise®, or the BlackBerry® Internet Service, when you send an invitation and the recipient accepts, you might not be notified.

Delete a contact

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Press the **Menu** key.
3. Click **Delete Contact**.

View a contact's information

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Press the **Menu** key.
3. Click **Contact Info**.

Rename a contact

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Press the **Menu** key.
3. Click **Rename Contact**.
4. Type a name.
5. Click **OK**.

Add a group

1. In BlackBerry® Messenger, on the contact list screen, press the **Menu** key.
2. Click **Add Group**.
3. Type a name for the group.

4. Click **OK**.

Move a contact to a different group

A contact can only be in one group at a time. If you move a contact to a group, the contact is moved out of the group it was in originally.

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Press the **Menu** key.
3. Click **Move Contact**.
4. Click a group.

Rename a group

1. In BlackBerry® Messenger, on the contact list screen, highlight a group.
2. Press the **Menu** key.
3. Click **Rename Group**.
4. Type a name for the group.
5. Click **OK**.

Delete a group

You must move your contacts out of a group before you can delete that group. There must be at least one group in your BlackBerry Messenger contact list; you cannot delete the last remaining group in your contact list.

1. In BlackBerry® Messenger, highlight a group.
2. Press the **Menu** key.
3. Click **Delete Group**.

Conversations

Start a conversation

1. In BlackBerry® Messenger, on the contact list screen, highlight a contact.
2. Press the **Menu** key.
3. Click **Start Conversation**.
4. Type a message.
5. Press the **Enter** key.

Open a conversation

Conversations appear in the conversation list and in the main message list.

1. In BlackBerry® Messenger, in the conversation list, highlight a contact.

2. Click the trackball.

Add an emoticon

1. When composing a message, press the **Symbol** key three times.
2. Click an emoticon.

Send a file to a contact

1. During a BlackBerry Messenger conversation, click the trackball.
2. Click **Send a File**.
3. Navigate to a folder that contains pictures or audio files.
4. Click a file.

Ping a contact

When you ping a contact, the contact's BlackBerry® device vibrates.

1. During a BlackBerry Messenger conversation, click the trackball.
2. Click **Ping Contact**.

Turn off ping vibration

1. In BlackBerry® Messenger, on the contact list screen, press the **Menu** key.
2. Click **Options**.
3. Change the **Vibrate When Receiving a Ping** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

To turn on ping vibration again, change the **Vibrate When Receiving a Ping** field to **Yes**.

Prevent conversations from appearing in the main message list

1. In BlackBerry® Messenger, on the contact list screen, press the **Menu** key.
2. Click **Options**.
3. Change the **Show Conversations in Message List** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

To view conversations in the main message list again, change the **Show Conversations in Message List** field to **Yes**.

Start a conference

1. In BlackBerry® Messenger, during a conversation, press the **Menu** key.

2. Click **Invite**.
3. In the drop-down list, click a contact.
4. Click **OK**.

Copy a conversation history

When you copy a conversation history, you can paste it into other BlackBerry® device applications.

1. In BlackBerry® Messenger, during a conversation, press the **Menu** key.
2. Click **Copy History**.

Clear a conversation history

1. In BlackBerry® Messenger, during a conversation, press the **Menu** key.
2. Click **Clear History**.

End a conversation

1. In BlackBerry® Messenger, during a conversation, press the **Menu** key.
2. Click **End Conversation**.

Change your display name

1. In BlackBerry® Messenger, on the contact list screen, press the **Menu** key.
2. Click **Edit My Info**.
3. Type a display name.
4. Click **OK**.

Availability

Change your availability status

1. In BlackBerry® Messenger, on the contact list screen, press the **Menu** key.
2. Click **My Status**.
3. Click **Available** or **Unavailable**.
4. Type a message that contacts can see when they view your contact information.
5. Click **OK**.

When you change your availability status to unavailable, you receive BlackBerry Messenger messages, but you are not notified.

Receive notification when a contact becomes available

1. In BlackBerry® Messenger, on the contact list screen, highlight an unavailable contact.
2. Press the **Menu** key.
3. Click **Set Alert**.

Display and keyboard

Backlighting

About backlighting

The screen and keyboard on your BlackBerry® device are designed to be lit so that you can use your device in various lighting conditions. The backlighting is designed to adjust automatically depending on lighting conditions in your environment.

Set the brightness of the backlighting

1. In the device options, click **Screen/Keyboard**.
2. Set the **Backlight Brightness** field.
3. Press the **Menu** key.
4. Click **Save**.

Set how long backlighting remains on

1. In the device options, click **Screen/Keyboard**.
2. Set the **Backlight Timeout** field.
3. Press the **Menu** key.
4. Click **Save**.

Stop backlighting from dimming automatically


1. In the device options, click **Screen/Keyboard**.
2. Change the **Automatically Dim Backlight** field to **Off**.
3. Press the **Menu** key.
4. Click **Save**.

Display options

Use a picture as the Home screen background

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Highlight a picture.

4. Press the  key.
5. Click **Set As Home Screen Image**.

To clear the picture from the Home screen, press the  key. Click **Reset Home Screen Image**.

Download a Home screen background

Verify that your wireless service provider supports this feature.

1. In the media application, click **Pictures**.
2. Click **My Pictures**.
3. Press the **Menu** key.
4. Click **Download Images**.

Set the display font

1. In the device options, click **Screen/Keyboard**.
2. Set the font fields.
3. Press the **Menu** key.
4. Click **Save**.

About organizing applications

Depending on your theme, application icons can appear on the Home screen or in an application list. If your theme uses an application list, the first few applications in the application list might also appear on the Home screen.

Add an application folder

1. In the application list, press the **Menu** key.
2. Click **Add Folder**.
3. Type a name for the folder.
4. To change the folder icon, in the **Icon** field, click the trackball. Roll the trackball to highlight a folder icon. Click a folder icon.
5. Click **Add**.

Move an application icon

1. In the application list, highlight an application icon.
2. Press the **Menu** key.
3. Click **Move**.
4. Perform one of the following actions:
 - To move the application icon, roll the trackball to the new location. Click the trackball.
 - To move the application icon into an application folder, click an application folder.

- To move the application icon out of an application folder, click the **Up** folder.

Hide an application icon

Depending on your theme, you might not be able to hide some application icons.

1. In the application list, highlight an application icon.
2. Press the **Menu** key.
3. Click **Hide**.

To view a hidden application, press the **Menu** key. Click **Show All**.

Delete an application folder

1. In the application list, highlight an application folder.
2. Press the **Menu** key.
3. Click **Delete**.

Keyboard options

Turn on key tones

1. In the device options, click **Screen/Keyboard**.
2. Set the **Key Tone** field to **On**.
3. Press the **Menu** key.
4. Click **Save**.

Turn off trackball sounds

1. In the device options, click **Screen/Keyboard**.
2. Set the **Audible Roll** field to **Mute**.
3. Press the **Menu** key.
4. Click **Save**.

To turn on trackball sounds again, set the **Audible Roll** field to **Click**.

Set the cursor speed

1. In the device options, click **Screen/Keyboard**.
2. Set the **Key Rate** field.
3. Press the **Menu** key.
4. Click **Save**.

Assign an application to a Convenience key

Your BlackBerry® device has one Convenience key on the left side of the device and one on the right side. Depending on your theme, you might not be able to change the application that is assigned to a Convenience key.

1. In the device options, click **Screen/Keyboard**.
2. Set the **Convenience Key Opens** fields.
3. Press the **Menu** key.
4. Click **Save**.

Set the trackball sensitivity

You can set how the trackball responds to your touch. A high sensitivity level requires less pressure than a lower sensitivity level.

1. In the device options, click **Screen/Keyboard**.
2. Set the **Horizontal Sensitivity** and **Vertical Sensitivity** fields.
3. Press the **Menu** key.
4. Click **Save**.

Turn on standby mode

If you are not on a call, you can turn on standby mode to avoid pressing keys accidentally when you are not using your BlackBerry® device. Hold the **Mute** key.

To turn off standby mode, press the **Mute** key again.

Themes

About themes

Depending on your wireless service provider, you might be able to set a theme on your BlackBerry® device that changes how items such as applications, indicators, words, and icons appear. Themes might be preloaded on your device, or you might be able to download themes that are in .cod file format.

Switch themes

1. In the device options, click **Theme**.
2. Click a theme.

Delete a theme

You can only delete themes that you have downloaded to your BlackBerry® device.

1. In the device options, click **Theme**.
2. Highlight a theme.

3. Press the **Menu** key.
4. Click **Delete**.

Download a theme

Verify that your wireless service provider supports this feature.

1. In the device options, click **Theme**.
2. Press the **Menu** key.
3. Click **Download Themes**.

Display troubleshooting

My device screen turns off

When you do not use your BlackBerry® device for a period of time, the screen turns off to conserve battery power.

To turn on the screen, click the trackball or press a key.

My display changed

Depending on your theme, display options, such as your font and Home screen background, might change when you switch themes.

Language

Change the display language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your wireless service provider or administrator.

1. In the device options, click **Language**.
2. Change the **Language** field.
3. Press the **Menu** key.
4. Click **Save**.

Add a display language

You can add a display language using the application loader tool of the BlackBerry® Desktop Manager. For more information about adding applications, including display languages, see the *BlackBerry® Desktop Software Online Help*.

Delete a display language

In the setup wizard, complete the instructions on the Language Removal screen.

About typing input languages

You can set a typing input language to use when you type. The typing input language can be different from the display language. When you set a typing input language, AutoText and other typing options change to the selected language. For example, you might use your BlackBerry® device in French, but type messages in English.

When you set the typing input language, you also set whether your device uses the multi-tap or the SureType® input method.

If the typing input language is different from the display language, a rectangle with the abbreviated form of the current typing input language appears in the list that appears when typing.

Change the typing input language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your wireless service provider or administrator.

1. In the device options, click **Language**.
2. Change the **Input Language** field.
3. Press the **Menu** key.
4. Click **Save**.

Switch typing input methods

1. In the device options, click **Language**.
2. Perform one of the following actions:
 - To use the multi-tap input method, set the **Input Language** field to <Language> **Multitap**.
 - To use the SureType® input method, set the **Input Language** field to <Language>.
3. Press the **Menu** key.
4. Click **Save**.

Turn off the shortcut for switching typing input languages

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your wireless service provider or administrator.

1. In the device options, click **Language**.
2. Change the **Use Input Method Shortcut** field to **No**.
3. Press the **Menu** key.
4. Click **Save**.

To turn on the shortcut for switching typing input languages, change the **Use Input Method Shortcut** field to **Yes**. To receive notification when you switch typing input languages, change the **Notify me** field to **Yes**.

Change the input options for SureType technology

1. In the device options, click **Language**.
2. Click **Input Options**.
3. Change the input options.
4. Press the **Menu** key.
5. Click **Save**.

Change the voice dialing language

Verify that your BlackBerry® Device Software supports multiple languages. For more information, contact your wireless service provider or administrator.

1. In the device options, click **Language**.
2. Change the **Voice Dialing Language** field.
3. Press the **Menu** key.
4. Click **Save**.

Change the display options for contacts

You can change how your contacts appear in all applications, including the phone, message list, address book, and calendar.

1. In the device options, click **Language**.
2. Change the **Name Display** field.
3. Press the **Menu** key.
4. Click **Save**.

Language troubleshooting

Some characters do not appear correctly on my device

The BlackBerry® Enterprise Server or BlackBerry® Internet Service that is associated with your BlackBerry® device might not support the characters. For more information, contact your wireless service provider or administrator.

Wireless network coverage

Find information about wireless coverage indicators

Your BlackBerry® device uses various indicators to indicate the current wireless coverage level. For more information about wireless coverage indicators, see the printed documentation that came with your device.

Turn off a wireless connection

You should turn off wireless connections in certain places, such as on an airplane or in a hospital. For more information, see the safety and product information booklet for your BlackBerry® device.

1. On the Home screen or in the application list, click **Manage Connections**.
2. Perform one of the following actions:
 - To turn off a wireless connection, clear the check box beside the connection type.
 - To turn off all wireless connections, click **Turn All Connections Off**.

To turn on a wireless connection again, select the check box beside the connection type or click **Restore Connections**.

Network connection indicators

Mobile network

Green:

Your BlackBerry® device is connected to the wireless network.

Yellow:

Your connection to the wireless network is turned on, but your device is not connected to the network or you are in a wireless coverage area in which you can only call emergency numbers.

Red:

Your connection to the wireless network is turned off.

Bluetooth

Green:

Your device is connected to another Bluetooth® enabled device.

Yellow:

Bluetooth technology is turned on, but your device is not connected to another Bluetooth enabled device.

Red:

Bluetooth technology is turned off.

Turn on wireless coverage notification

1. In the device options, click **Screen/Keyboard**.
2. Set the **LED Coverage Indicator** field to **On**.
3. Press the **Menu** key.
4. Click **Save**.

When your BlackBerry® device is connected to the wireless network, the LED light flashes green. To turn off wireless coverage notification again, set the **LED Coverage Indicator** field to **Off**.

Check the wireless coverage level using a voice command

1. In the voice dialing application, wait for the sound.
2. Say "**Check coverage**."

Turn off data service

Depending on your wireless service plan, you might be able to turn off data service (email, PIN and MMS messages, and browser service) on your BlackBerry® device so that only phone and SMS text messaging services are available. For more information, contact your wireless service provider.

1. In the device options, click **Mobile Network**.
2. Perform one of the following actions:
 - To turn off data service, change the **Data Services** field to **Off**.
 - To turn off data service when roaming, change the **Data Services** field to **Off When Roaming**.
3. Press the **Menu** key.
4. Click **Save**.

About roaming

In most cases, your BlackBerry® device automatically connects to an appropriate wireless network when you travel outside your wireless service provider's wireless coverage area.

An indicator appears on your device to let you know that you are roaming outside of your wireless service provider's wireless coverage area. You might also have to provide login information before you can access the wireless network. For more information about roaming, contact your wireless service provider.

Verify the status of network connections and services

1. On the Home screen or in the application list, click **Manage Connections**.
2. Click **Services Status**.

Wireless network coverage troubleshooting

I cannot connect to a wireless network

Try performing the following actions:

- Verify that you have turned on the connection to the wireless network.
- If you have set a specific speed for wireless network connections, verify that you are in a wireless coverage area that supports the connection speed.

Power, battery, and memory

Turn off your device

Depending on your theme, the location or name for Turn Power Off might differ from the location or name in this procedure. For more information about application locations and names, see the printed documentation that came with your device.

- If you have not set your BlackBerry® device to turn on and turn off automatically at specific times, hold the **Power** key.
- If you have set your device to turn on and turn off automatically at specific times, on the Home screen, click **Turn Power Off**. If you want the device to stay turned off until you press the **Power** key, click **Full Power Off**. If you want the device to turn on again at the specified time or for alarm or calendar reminders, click **Turn Off**.

Set your device to turn on and turn off automatically

1. In the device options, click **Auto On/Off**.
2. Set the **Weekday** field to **Enabled**.
3. Specify the times when the BlackBerry® device should turn on and off on weekdays.
4. Set the **Weekend** field to **Enabled**.
5. Specify the times when the device should turn on and off on weekends.
6. Press the **Menu** key.
7. Click **Save**.

Check the battery power level

In the device options, click **Status**.

Check the battery power level using a voice command

1. In the voice dialing application, wait for the sound.
2. Say "**Check battery**."

Reset the device

Remove and reinsert the battery.

Extend battery life

Try performing the following actions:

- Set the BlackBerry® device to turn on and turn off automatically.

- Turn off the connection to a wireless network when you are not in a wireless coverage area.
- Delete the original message when you send a reply.
- Lower the brightness of the backlighting.
- Turn off the flash in the camera.
- Send a message to multiple contacts using Add To, Add Cc, or Add Bcc.
- Charge your device regularly.

View the amount of available memory on your device

1. Remove and reinsert the battery.
2. In the device options, click **Status**.

The File Free field displays the amount of available memory on your BlackBerry® device.

Best practice: Optimizing your device performance

Try to maintain at least 400 KB of available memory on your BlackBerry® device. To increase the amount of available memory, try deleting items that you do not need from your device. Consider the following guidelines:

- Delete old email and MMS messages, especially messages with attachments.
- Delete contacts that are already in your organization's address book.
- Delete media files from the device memory.
- Delete applications and languages that you do not use.
- If you recently upgraded the BlackBerry® Device Software over the wireless network, delete the previous version of the BlackBerry Device Software.
- Clear the browser cache.

To use less memory, try changing options for email messages, calendar entries, and media files. Consider the following guidelines:

- Reduce the amount of time that your device stores email messages and calendar entries.
- Stop forwarding email messages to your device when your device is connected to your computer.
- Receive only the first section of long email messages.
- Store media files on a media card.
- Reduce the maximum amount of device memory available for all media files.
- Reduce the minimum amount of device memory available for pictures.
- If you take a picture, verify that the picture quality is set to Normal.
- Reduce the picture quality in the browser.

Security

Security basics

About the device password

If you type your BlackBerry® device password incorrectly, you might be prompted to type **blackberry** before you can continue. When you try to type your password again, the characters that you type appear on the screen.

If you exceed the number of allowed password attempts, your device deletes all your device data for security reasons.

Set a device password

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Password** field to **Enabled**.
4. Press the **Menu** key.
5. Click **Save**.

To turn off the BlackBerry® device password, set the **Password** field to **Disabled**.

Change the device password

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Press the **Menu** key.
4. Click **Change Password**.

Lock the device

Verify that you have set a BlackBerry® device password.

On the Home screen or in the application list, click **Lock**.

To unlock your device, on the Lock screen, click the trackball. Click **Unlock**. Type your device password. Press the **Enter** key.

Lock the keyboard

If you do not set a BlackBerry® device password, you can lock your keyboard to avoid making calls and pressing keys accidentally.

On the Home screen or in the application list, click **Keyboard Lock**.

To unlock the keyboard, press the asterisk (*) key and the **Send** key.

Set a limit for device password attempts

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Number of Password Attempts** field.
4. Press the **Menu** key.
5. Click **Save**.

Password keeper

About the password keeper

Use the password keeper to store all your passwords in one place. The password keeper is designed to protect your passwords with a password keeper password. When you type this password, the password keeper decrypts your passwords.

You can also use the password keeper to generate random passwords that contain numbers, letters, and symbols.

Add a password to the password keeper

1. In the password keeper, press the **Menu** key.
2. Click **New**.
3. Type the password information.
4. Click the trackball.
5. Click **Save**.

Generate a random password

1. In the password keeper, press the **Menu** key.
2. Click **New**.
3. Press the **Menu** key.
4. Click **Random Password**.
5. Type the password information.
6. Click the trackball.
7. Click **Save**.

Set criteria for randomly generated passwords

1. In the password keeper, press the **Menu** key.
2. Click **Options**.

3. Set the random password fields.
4. Press the **Menu** key.
5. Click **Save**.

View a password in the password keeper

In the password keeper, click a password.

Change a password in the password keeper

1. In the password keeper, highlight a password.
2. Press the **Menu** key.
3. Click **Open**.
4. Change the password information.
5. Click the trackball.
6. Click **Save**.

Hide passwords in the password keeper

1. In the password keeper, press the **Menu** key.
2. Click **Options**.
3. Set the **Show Password** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

To show passwords in the password keeper again, set the **Show Password** field to **Yes**.

Turn off the prompt that appears before you delete items

You can turn off the prompt that appears before you delete messages, call logs, contacts, calendar entries, tasks, memos, or passwords.

1. In an application, press the **Menu** key.
2. Click **Options**.
3. If necessary, click **General Options**.
4. Change the **Confirm Delete** field to **No**.
5. Press the **Menu** key.
6. Click **Save**.

Delete a password from the password keeper

1. In the password keeper, highlight a password.
2. Press the **Menu** key.

3. Click **Delete**.

Change the password keeper password

1. In the password keeper, press the **Menu** key.
2. Click **Change Password**.

Copy a password

1. In the password keeper, highlight a password.
2. Press the **Menu** key.
3. Click **Copy Username** or **Copy Password**.

To clear the clipboard, press the **Menu** key. Click **Clear Clipboard**.

Note: Passwords are not encrypted when they are on the clipboard.

Prevent password copying

1. In the password keeper, press the **Menu** key.
2. Click **Options**.
3. Set the **Allow Clipboard Copy** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

Set a limit for password attempts in the password keeper

1. In the password keeper, press the **Menu** key.
2. Click **Options**.
3. Set the **Password Attempts** field.
4. Press the **Menu** key.
5. Click **Save**.

Encryption

About content protection

Content protection is designed to encrypt your BlackBerry® device data. When content protection is turned on, your device uses a private key to encrypt data as it is stored on the device, including data that your device receives when it is locked. Your device decrypts data as you access it.

You can set content protection to include or exclude your contacts. If you turn on content protection for contacts and you receive a call when the device is locked, the caller name does not appear on the screen.

When you lock your device, an open lock indicator appears in the device status section of the screen to indicate that your device is deleting a copy of the private key from the temporary device memory. A lock indicator appears when the device has deleted the key.

Protect your device data

Verify that you have set a BlackBerry® device password.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Change the **Content Protection** field to **Enabled**.
4. Press the **Menu** key.
5. Click **Save**.

Set content protection strength

Verify that content protection is turned on.

You can set the strength of the encryption that your BlackBerry® device uses to protect data that you receive when your device is locked.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Strength** field.
4. Press the **Menu** key.
5. Click **Save**.

About encryption keys

If your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server or BlackBerry® Desktop Redirector, your device is designed to use an encryption key to protect data as it travels between the BlackBerry Enterprise Server or BlackBerry Desktop Redirector and your device.

You should generate a new encryption key every 2 weeks.

Generate an encryption key

Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator. If your device is associated with an email account that uses a BlackBerry Enterprise Server that does not support this feature, you can generate an encryption key using the email settings tool of the BlackBerry® Desktop Manager. For more information, see the *BlackBerry Desktop Software Online Help*.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Click a service.
4. Click **Regenerate Encryption Key**.

About content compression

Content compression is designed to reduce the size of your BlackBerry® device data while maintaining the integrity of that data. When content compression is turned on, your device compresses all device data, including messages, contacts, calendar entries, tasks, and memos. You should keep content compression turned on.

If content compression and content protection are turned on, your device compresses device data before encrypting it.

Memory cleaning

About memory cleaning

Memory cleaning is designed to delete sensitive data from your BlackBerry® device memory. Examples of sensitive data include sensitive data in the cache for the key store browser, unencrypted data from email messages, LDAP authentication passwords, and data from certificate and key searches.

When memory cleaning is turned on, the memory cleaning application is designed to delete sensitive data automatically in the following situations:

- when you insert your device in a holster
- when you do not use your device for a specified period of time
- when you synchronize with your computer
- when you change the time or the time zone for your device
- when you lock your device

Turn on memory cleaning

1. In the device options, click **Security Options**.
2. Click **Memory Cleaning**.
3. Change the **Status** field to **Enabled**.
4. Press the **Menu** key.
5. Click **Save**.

Change when your device deletes sensitive data from the device memory

1. In the device options, click **Security Options**.
2. Click **Memory Cleaning**.
3. Perform any of the following actions:
 - To prevent your BlackBerry® device from deleting sensitive data from the device memory when you insert your device in a holster, change the **Clean When Holstered** field to **No**.

- To prevent your device from deleting sensitive data from the device memory when your device remains idle for a specified period of time, change the **Clean When Idle** field to **No**.
 - To change how long your device waits after you stop using it before it deletes sensitive data from the device memory, change the **Idle Timeout** field.
4. Press the **Menu** key.
 5. Click **Save**.

Delete sensitive application data from the device memory

1. In the device options, click **Security Options**.
2. Click **Memory Cleaning**.
3. In the **Registered Cleaners** section, click an application.
4. Perform one of the following actions:
 - To delete sensitive data for the highlighted application, click **Clean <Application>**. Click **OK**.
 - To delete sensitive data for all applications, click **Clean Now**.

View the icon for the memory cleaning application on the Home screen

1. In the device options, click **Security Options**.
2. Click **Memory Cleaning**.
3. Change the **Show Icon on Home Screen** field to **Yes**.
4. Press the **Menu** key.
5. Click **Save**.

Certificates

Certificate basics

Download a certificate from an LDAP certificate server

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Press the **Menu** key.
4. Click **Fetch Certificates**.
5. Specify the search criteria.
6. Press the **Menu** key.
7. Click **Search**.
8. Click a certificate.

9. Click **Add Certificate to Key Store**.

View properties for a certificate

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Click a certificate.

Certificate properties

Revocation Status:

This field displays the revocation status of the certificate at a specified date and time.

Trust Status:

This field displays the trust status of the certificate chain. A certificate can be explicitly trusted (the certificate itself is trusted), implicitly trusted (the root certificate in the certificate chain is trusted on your BlackBerry® device), or not trusted (the certificate is not explicitly trusted and the root certificate in the certificate chain is not trusted or does not exist on your device).

Expiration Date:

This field displays the date that the certificate issuer specified as the expiration date of the certificate.

Certificate Type:

This field displays the certificate format. Your device supports X.509 and WTLS certificate formats.

Public Key Type:

This field displays the standard to which the public key complies. Your device supports RSA®, DSA, Diffie-Hellman, and ECC keys.

Subject:

This field displays information about the certificate subject.

Issuer:

This field displays information about the certificate issuer.

Serial Number:

This field displays the certificate serial number in hexadecimal format.

Key Usage:

This field displays approved uses of the public key.

Subject Alt Name:

This field displays an alternate email address for the certificate subject, if an alternate email address is available.

SHA1 Thumbprint:

This field displays the SHA-1 digital thumbprint of the certificate.

MD5 Thumbprint:

This field displays the MD5 digital thumbprint of the certificate.

View one type of certificate in the certificate list

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Press the **Menu** key.
4. Click one of the following menu items:
 - **Show My Certs**
 - **Show Others Certs**
 - **Show CA Certs**
 - **Show Root Certs**

To view all the certificates on your BlackBerry® device, press the **Menu** key. Click **Show All Certs**.

Send a certificate

When you send a certificate, your BlackBerry® device sends the public key, but does not send the corresponding private key.

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Send via Email** or **Send via PIN**.

Delete a certificate

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Delete**.

View the certificate chain for a certificate

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Show Chain**.

Certificate status

Certificate status indicators



The certificate has a corresponding private key that is stored on your BlackBerry® device or a smart card.



The certificate chain is trusted and valid, and the revocation status of the certificate chain is good.



The revocation status of the certificate chain is unknown, or a public key for a certificate in the certificate chain is weak.



The certificate is untrusted or revoked, or a certificate in the certificate chain is untrusted, revoked, expired, not valid, or cannot be verified.

Check the revocation status of a certificate or certificate chain

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Fetch Status** or **Fetch Chain Status**.

Change the trust status of a certificate

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Trust** or **Distrust**.
6. If necessary, perform one of the following actions:
 - To trust the highlighted certificate, click **Selected Certificate**.
 - To trust the highlighted certificate and all the other certificates in the chain, click **Entire Chain**.

Revoke a certificate

If you revoke a certificate, the certificate is revoked only in the key store on your BlackBerry® device. Your device does not update the revocation status on the certificate authority or CRL servers.

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Revoke**.
6. Click **Yes**.
7. Change the **Reason** field.
8. Click **OK**.

To cancel a certificate hold, highlight the certificate. Press the **Menu** key. Click **Cancel Hold**.

Certificate revocation reasons

Unknown:

The revocation reason does not match any of the predefined reasons.

Key Compromise:

A person who is not the key subject might have discovered the private key value.

CA Compromise:

Someone might have revealed the private key of the certificate issuer.

Change in Affiliation:

The certificate subject no longer works for the organization.

Superseded:

A new certificate is replacing an existing certificate.

Cessation of Operation:

The certificate subject no longer requires the certificate.

Certificate Hold:

You want to revoke the certificate temporarily.

Certificate options

Change the display name for a certificate

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Change Label**.

6. Type a display name for the certificate.
7. Click **OK**.

Add an email address to a certificate

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Highlight a certificate.
4. Press the **Menu** key.
5. Click **Associate Addresses**.
6. Click the trackball.
7. Click **Add Address**.
8. Perform one of the following actions:
 - Click a contact.
 - Click **Use Once**. Type an email address. Click the trackball.
9. Press the **Menu** key.
10. Click **Save**.

Turn off the display name prompt that appears when you add a certificate to the key store

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Press the **Menu** key.
4. Click **Fetch Certificates**.
5. Press the **Menu** key.
6. Click **Options**.
7. Change the **Prompt for Label** field to **No**.
8. Press the **Menu** key.
9. Click **Save**.

When you add a certificate, your BlackBerry® device uses the certificate subject as the name for the certificate.

Turn off the fetch status prompt that appears when you add a certificate to the key store

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Press the **Menu** key.
4. Click **Fetch Certificates**.
5. Press the **Menu** key.
6. Click **Options**.

7. Perform one of the following actions:
 - To download the revocation status of a certificate when you add it to the key store, change the **Fetch Status** field to **Yes**.
 - To add a certificate to the key store without downloading the revocation status, change the **Fetch Status** field to **No**.
8. Press the **Menu** key.
9. Click **Save**.

Certificate shortcuts

- To view the certificate issuer, press the **Space** key.
- To view the properties of a certificate, press the **Enter** key.
- To view the security level of a certificate, press the **Alt** key and **L**.
- To view the serial number of a certificate, press the **Alt** key and **8**.
- To view certificates for certificate authorities, press the **Alt** key and **7**.
- To view personal certificates and certificates for other people, press the **Alt** key and **3**.
- To view personal certificates, press the **Alt** key and **9**.
- To view certificates for other people, press the **Alt** key and the period (.) key.
- To view root certificates, press the **Alt** key and **1**.
- To view all certificates, press the **Alt** key and the question mark (?) key.

Certificate servers

Add a certificate server

1. In the device options, click **Security Options**.
2. Click **Certificate Servers**.
3. Press the **Menu** key.
4. Click **New Server**.
5. Specify information for the certificate server.
6. Press the **Menu** key.
7. Click **Save**.

Change connection information for a certificate server

1. In the device options, click **Security Options**.
2. Click **Certificate Servers**.
3. Highlight a certificate server.
4. Press the **Menu** key.
5. Click **Edit**.

6. Change connection information for the certificate server.
7. Press the **Menu** key.
8. Click **Save**.

Connection options for LDAP certificate servers

Friendly Name:

Type a display name for the certificate server.

Server Name:

Type the network address of the certificate server.

Base Query:

Type the base query information for the certificate server using X.509 certificate syntax (for example, o=test.rim.net).

Port:

Type the port number for your organization's network. The default port number is 389.

Authentication Type:

Specify whether you must log in to the certificate server.

Connection Type:

Specify whether your BlackBerry® device uses an SSL connection or a TLS connection to connect to the certificate server.

Connection options for OCSP and CRL servers

Friendly Name:

Type a display name for the certificate server.

Server URL:

Type the web address of the certificate server.

Send connection information for a certificate server

1. In the device options, click **Security Options**.
2. Click **Certificate Servers**.
3. Highlight a certificate server.
4. Press the **Menu** key.
5. Click **Email Server** or **PIN Server**.

Delete a certificate server

1. In the device options, click **Security Options**.

2. Click **Certificate Servers**.
3. Highlight a certificate server.
4. Press the **Menu** key.
5. Click **Delete**.

Key stores

About the key store

The key store on your BlackBerry® device might store the following items. To access these items in the key store, you must type a key store password.

- personal certificates (certificate and private key pairs)
- certificates that you download using the certificate synchronization tool of the BlackBerry® Desktop Manager
- certificates that you download from an LDAP certificate server
- certificates that you add from a message
- personal PGP® keys (public and private key pairs)
- PGP public keys that you download from an LDAP certificate server
- PGP public keys that you add from a message
- root certificates that are included in the BlackBerry® Desktop Software

Change the key store password

1. In the device options, click **Security Options**.
2. Click **Key Stores**.
3. Press the **Menu** key.
4. Click **Change Password**.

Change when your device deletes the key store password

1. In the device options, click **Security Options**.
2. Click **Key Stores**.
3. Change the **Private Key Password Timeout** field.
4. Press the **Menu** key.
5. Click **Save**.

To access private keys after your BlackBerry® device deletes the key store password, you must type your key store password.

Add contacts to your address book automatically when you add items to the key store

1. In the device options, click **Security Options**.

2. Click **Key Stores**.
3. Change the **Key Store Address Injector** field to **Enabled**.
4. Press the **Menu** key.
5. Click **Save**.

Change the service that your device uses to download certificates

Depending on your organization, you might not be able to change the service that you use to download certificates. For more information, contact your administrator.

1. In the device options, click **Security Options**.
2. Click **Key Stores**.
3. Change the **Certificate Service** field.
4. Press the **Menu** key.
5. Click **Save**.

Turn off automatic backup of key store data

By default, items in the key store on your BlackBerry® device are backed up or restored when you back up or restore your device data. If you do not want to back up your private key to or restore your private key from your computer for security reasons, you can turn off automatic backup and restore of key store data.

1. In the device options, click **Security Options**.
2. Click **Key Stores**.
3. Change the **Allow Key Store Backup/Restore** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

To turn on automatic backup of key store data, change the **Allow Key Store Backup/Restore** field to **Yes**.

Change the refresh rate for certificate revocation lists

1. In the device options, click **Security Options**.
2. Click **Key Stores**.
3. Change the **Certificate Status Expires After** field.
4. Press the **Menu** key.
5. Click **Save**.

Your BlackBerry® device downloads a new revocation status automatically when your device uses a key store item with a status that is older than the time limit that you set.

Reject certificate revocation lists from unverified CRL servers

1. In the device options, click **Security Options**.
2. Click **Key Stores**.

3. Change the **Accept Unverified CRLs** field to **No**.
4. Press the **Menu** key.
5. Click **Save**.

Your BlackBerry® device rejects certificate revocation lists from CRL servers that the BlackBerry® MDS Connection Service cannot verify.

Smart cards

About using a smart card with your device

Smart cards store certificates and private keys. You can use a smart card reader to import certificates from a smart card to the key store on your BlackBerry® device, but you cannot import private keys. As a result, private key operations such as signing and decryption use the smart card, and public key operations such as verification and encryption use the public certificates on your device.

If you use a smart card certificate to authenticate to your device, after you connect your smart card reader to your device, your device requests authentication from the smart card each time that you unlock your device.

If the S/MIME Support Package for BlackBerry® devices is installed on your device, you can use smart card certificates to send S/MIME-protected messages.

About two-factor authentication

Two-factor authentication, which requires an item that you have (for example, a smart card) and an item that you know (for example, a pass phrase), is designed to provide additional security for your BlackBerry® device. You can use a smart card for two-factor authentication when you log in to your device, or you can use a software token for two-factor authentication when you use your device with RSA® software as a hardware token.

If you use two-factor authentication, you must type your pass phrase when you

- unlock your device
- change a general security option on your device
- change a smart card option
- use your device with RSA software

Prerequisites: Two-factor authentication

- Verify that you have set a BlackBerry® device password.
- Verify that you know the smart card password. You should have received this password when you received your smart card.

Turn on two-factor authentication

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Change the **User Authenticator** field to **Enabled**.

4. Press the **Menu** key.
5. Click **Save**.

Import a certificate from a smart card

1. In the device options, click **Security Options**.
2. Click **Certificates**.
3. Press the **Menu** key.
4. Click **Import Smart Card Certs**.
5. Type your smart card password.
6. Select the check box beside a certificate.
7. Click **OK**.
8. Type your key store password.
9. Click **OK**.

Lock your device when you remove your smart card from your smart card reader

1. In the device options, click **Security Options**.
2. Click **Smart Card**.
3. Change the **Lock On Card Removal** field to **Enabled**.
4. Press the **Menu** key.
5. Click **Save**.

About smart password entry

If you use two-factor authentication and your BlackBerry® device password or smart card password is numeric, you might be able to use smart password entry in some password fields. When smart password entry is turned on, your device is designed to remember the format of a password that you type in a password field. When you type the password again, your device applies a smart password filter to the password field. If the password is numeric, a 123 indicator appears beside the password field and you do not have to press the Alt key to type numbers. If the password is alphanumeric, an ABC indicator appears beside the password field.

Prerequisites: Smart password entry

- Verify that the correct smart card driver and smart card reader driver are installed on your BlackBerry® device.
- Verify that two-factor authentication is turned on.

Turn off smart password entry

You can turn off smart password entry to reduce the chance that someone might guess your BlackBerry® device password or smart card password based on the smart password filter that your device applies to password fields.

1. In the device options, click **Security Options**.

2. Click **General Settings**.
3. Set the **Smart Password Entry** field to **Disabled**.
4. Press the **Menu** key.
5. Click **Save**.

To turn on smart password entry again, set the **Smart Password Entry** field to **Enabled**.

Switch smart password filters

In a blank password field, press the **Enter** key.

The indicator for the new smart password filter appears beside the password field.

Prerequisites: Authentication certificates

- Verify that the correct smart card driver and smart card reader driver are installed on your BlackBerry® device.
- Verify that you have imported a certificate from your smart card that you can use for signing and verification. For more information, see the user guide supplement for the S/MIME Support Package for BlackBerry® devices.
- Verify that you have set a device password.
- Verify that two-factor authentication is turned on.
- Verify that you have the smart card password. You should have received this password when you received your smart card.

Use a certificate to authenticate your smart card

If you use a certificate to authenticate your smart card, the certificate authenticates your smart card whenever you use your smart card to unlock your BlackBerry® device.

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Set the **Authentication Certificate** field.
4. Press the **Menu** key.
5. Click **Save**.

To stop using a certificate to authenticate your smart card, set the **Authentication Certificate** field to **None**.

Check the status of your authentication certificate automatically

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Change the **Certificate Status Check** field.
4. Press the **Menu** key.
5. Click **Save**.

If your BlackBerry® device checks the status of your authentication certificate and finds that it is revoked or expired, your device locks.

Store the pass phrase for your smart card in the device memory

1. In the device options, click **Security Options**.
2. Click **Smart Card**.
3. Change the **PIN Caching** field to **Enabled**.
4. Press the **Menu** key.
5. Click **Save**.

Your BlackBerry® device stores the pass phrase for the same length of time as it stores your key store password.

Turn off notification for smart card connections

1. In the device options, click **Security Options**.
2. Click **Smart Card**.
3. Change the **LED Session Indicator** field to **Disabled**.
4. Press the **Menu** key.
5. Click **Save**.

To turn on notification for smart card connections, change the **LED Session Indicator** field to **Enabled**.

Software tokens

About software tokens

You might need a software token to log in to a VPN. A software token includes a token code that your BlackBerry® device regenerates periodically and a PIN. For more information about software tokens, contact your administrator.

Change the PIN for a software token on your device

1. In the device options, click **Security Options**.
2. Click **Software Tokens**.
3. Click a software token.
4. Click **Specify PIN**.

About PGP keys

You can use PGP® keys if you install the PGP® Support Package for BlackBerry® devices. For more information, see the user guide supplement for the PGP Support Package for BlackBerry devices.

About security self-tests

Security self-tests are designed to verify that security software is implemented correctly on your BlackBerry® device. The tests should run automatically when your device restarts.

Verify security software

1. In the device options, click **Security Options**.
2. Click **General Settings**.
3. Press the **Menu** key.
4. Click **Verify Security Software**.

Security troubleshooting

I cannot download a certificate

If you changed the connection type that your BlackBerry® device uses to connect to the LDAP certificate server, try switching to the default connection type.

I cannot unlock my device using my smart card

Try performing the following actions:

- Verify that the correct smart card is inserted in the smart card reader.
- Verify that the smart card is inserted in the smart card reader correctly.
- Verify that you typed the smart card password correctly. You should have received this password when you received your smart card.
- If you use a certificate to authenticate your smart card, verify that the certificate is not revoked or expired.

My device prompts me to make an emergency call when I type a password

If your BlackBerry® device password contains a combination of letters that corresponds to an emergency access number, your device might prompt you to make an emergency call when you type your device password.

To continue typing your device password, press the **Escape** key.

Third-party application control

About permissions for third-party applications

You can set permissions that control how third-party applications on your BlackBerry® device interact with the other applications on your device. For example, you can control whether third-party applications can access data or the Internet, make calls, or use Bluetooth® connections.

If you have added third-party applications to your device, the device firewall is designed to prevent these applications from sending or receiving data without your knowledge. Before a third-party application sends or receives data, a dialog box prompts you to accept or deny the connection request. If you turn off the prompt, you can reset the firewall options to receive the connection prompt again.

Reset connection permissions for third-party applications

1. In the device options, click **Security Options**.
2. Click **Firewall**.
3. Press the **Menu** key.
4. Click **Reset Settings**.

About direct Internet connections for third-party applications

Some third-party applications that you add to your BlackBerry® device might require a direct TCP or HTTP connection to the Internet. For example, a stock price application might need to connect to the Internet to retrieve the latest stock prices. You might have to set the APN that the third-party application uses for this connection.

Set up a direct Internet connection for a third-party application

Verify that you have an APN and that you have the user name and password for the APN. For more information, contact your wireless service provider.

1. In the device options, click **Advanced Options**.
2. Click **TCP**.
3. Type the APN information.
4. Press the **Menu** key.
5. Click **Save**.

Set permissions for a third-party application

Note: Changing permissions for third-party applications can significantly affect the operation of applications on your BlackBerry® device. For more information about how changing these permissions might affect the operation of the applications on your device, contact your wireless service provider or administrator.

1. In the device options, click **Advanced Options**.
2. Click **Applications**.
3. Highlight a third-party application.
4. Press the **Menu** key.
5. Perform one of the following actions:
 - To set permissions for the highlighted third-party application, click **Edit Permissions**.
 - To set permissions for all third-party applications, click **Edit Default Permissions**.
6. Expand **Connections, Interactions, or User Data**.
7. Change the permission fields.
8. Press the **Menu** key.
9. Click **Save**.

Connection permissions for third-party applications

USB:

Set whether third-party applications can use physical connections, such as a USB cable or RS-232 cable, that you have set up for your BlackBerry® device.

Bluetooth:

Set whether third-party applications can use Bluetooth® connections.

Phone:

Set whether third-party applications can make calls or access call logs.

Location (GPS):

Set whether third-party applications can use your GPS location information.

Company Network:

Set whether third-party applications can access the Internet or your organization's intranet using your organization's network.

Carrier Internet:

Set whether third-party applications can access the Internet through your wireless service provider (for example, using a direct Internet connection or a WAP gateway).

Interaction permissions for third-party applications

Interprocess Communication:

Specify whether third-party applications can communicate and share data with other applications on your BlackBerry® device.

Device Settings Modification:

Specify whether third-party applications can turn on or turn off your device or change device options, such as display options.

Media Access:

Specify whether third-party applications can access media files on your device.

Module Management:

Specify whether third-party applications can add or delete application modules or access module information such as an application name or version.

Theme Data Injection:

Specify whether your device can use third-party applications as a source for customized themes.

Keystroke Injection:

Specify whether third-party applications can simulate actions, such as pressing a key on your device.

Browser Filtering:

Specify whether third-party applications can register browser filters with the browser on your device to add, change, or delete web site content before it appears in your browser.

Screen Capturing:

Specify whether third-party applications can take screen shots of the device screen.

Security Timer Reset:

Specify whether third-party applications can reset the duration that your device remains unlocked after you stop using it.

Data permissions for third-party applications

Email:

Set whether third-party applications can access email, SMS text, or PIN messages on your BlackBerry® device.

PIM:

Set whether third-party applications can access organizer data such as contacts, calendar entries, tasks, or memos.

Files:

Set whether third-party applications can access files that you store on your device. For example, you can set whether third-party applications can access files that you transfer to your device using the media manager tool of the BlackBerry® Desktop Manager or Bluetooth® technology.

Key Store:

Set whether third-party applications can access certificates or keys in the key store on your device.

Key Store Medium Security:

Set whether third-party applications can access certificates or keys in the key store if your device caches the key store password.

BrickBreaker

About BrickBreaker

The object of BrickBreaker is to destroy bricks using a paddle and a ball. During the game, capsules fall from the bricks that you destroy. The capsules provide you with different mechanisms for destroying bricks or controlling the ball or paddle.

When you hit the ball with your paddle 50 times on any level, the bricks descend one space every few seconds.

BrickBreaker capsules

Long:

This capsule makes the paddle longer.

Slow:

This capsule slows down the ball.

Gun:

This capsule enables you to shoot three bullets at the bricks; a bullet can destroy unbreakable bricks.

Laser:

This capsule enables you to shoot unlimited laser beams at the bricks.

Multi:

This capsule puts four balls in play.

Catch:

This capsule enables you to catch and hold the ball.

Flip:

This capsule changes the direction of the paddle.

Wrap:

This capsule enables you to move the paddle beyond the edge of the screen.

Bomb:

This capsule destroys the next brick that you hit and damages nearby bricks.

Life:

This capsule gives you an additional life.

BrickBreaker scoring

Catching a capsule:

50 points

Shooting a brick with the gun:

50 points

Hitting a brick with the ball:

10 points

Shooting a brick with the laser:

5 points

Damaging a brick with a bomb:

5 points

Play BrickBreaker

- To move the paddle, roll the trackball.
- To release the ball in catch mode, press the **Space** key.
- To shoot the laser or gun, press the **Space** key.

Adjust the volume

- To increase the volume, press the **Volume Up** key.
- To decrease the volume, press the **Volume Down** key.

Set the paddle speed

1. In BrickBreaker, press the **Menu** key.
2. Click **Options**.
3. Perform any of the following actions:
 - To set the paddle speed, set the **Paddle movement speed** field.
 - To accelerate the paddle as you roll the trackball, select the **Paddle acceleration** check box.
4. Press the **Menu** key.
5. Click **Save**.

Submit a score to the BrickBreaker high score web site

1. In BrickBreaker, press the **Menu** key.
2. Click **Send High Score**.

Check the high scores on the BrickBreaker web site

1. In BrickBreaker, press the **Menu** key.
2. Click **High Scores**.

Service books

About service books

Service books determine which services are available on your BlackBerry® device.

Your wireless service provider or administrator can send service books to your device over the wireless network. If your device is associated with an email account that uses a BlackBerry® Enterprise Server, you can also receive service books on your device by connecting your device to the BlackBerry® Desktop Manager.

Accept a service book

1. In the device options, click **Advanced Options**.
2. Click **Service Book**.
3. Highlight the new service book.
4. Press the **Menu** key.
5. Click **Accept**.

Delete a service book

1. In the device options, click **Advanced Options**.
2. Click **Service Book**.
3. Highlight a service book.
4. Press the **Menu** key.
5. Click **Delete**.

To restore a service book, press the **Menu** key. Click **Undelete**.

Troubleshooting

BlackBerry basics troubleshooting

I cannot type a password

Verify that you are using the multi-tap input method.

No application opens when I press a Convenience key

Verify that you have not deleted the application that you assigned to the key.

Assign a different application to the key.

Some features are not available on my device

Depending on your wireless service plan or the type of email account that is associated with your BlackBerry® device, some features might not be available on your device.

If your device is associated with an email account that uses a BlackBerry® Enterprise Server, your organization might not have set up some features or might prevent you from using some features or options. If an administrator has set an option for you, a red lock indicator appears beside the option field.

For more information about the features that are available on your device, contact your wireless service provider or administrator.

Phone troubleshooting

I cannot make or receive calls

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- If you have traveled to another country and you have not changed your smart-dialing options, dial the full phone number, including the country code and area code, for your contact.
- If you are not receiving calls, verify that call forwarding is turned off.
- If you have more than one phone number associated with your device, you can make calls using the active phone number only.

I cannot check my voice mail

If you have more than one phone number associated with your BlackBerry® device and you are trying to check your voice mail using a shortcut key, your device calls the voice mail access number for your active phone number.

Try checking the voice mail for your alternate phone number.

I cannot join a call

If your BlackBerry® device is associated with an enterprise voice phone number, you cannot join a call that you make from or receive to your enterprise voice phone number with a call that you make from or receive to the phone number provided by your wireless service provider.

Voice dialing troubleshooting

I cannot make calls using a voice command

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- If you are using a Bluetooth® enabled device, such as a handsfree car kit or wireless headset, verify that the Bluetooth enabled device supports this feature and that you have paired the Bluetooth enabled device with your BlackBerry device.
- Verify that your keyboard is unlocked.
- Verify that the language that you use to say voice commands is the same as the voice dialing language that you have set in the language options. Certain languages might not be supported.

My device does not recognize names or numbers in voice commands

Try performing the following actions:

- Say the first name and the last name of your contact.
- If your BlackBerry® device does not often identify matches, set the matching sensitivity level to reject less.
- If your device often identifies incorrect matches, set the matching sensitivity level to reject more.
- Improve voice recognition of numbers.

Camera and video camera troubleshooting

I cannot save pictures or videos

Your BlackBerry® device memory or media card might not have enough available memory to store pictures or videos.

Try performing the following actions:

- If you are trying to save a picture to your device memory, delete old data or messages from your device.
- If you are trying to save a picture or video on your media card, delete old media files.
- In the camera options, verify that the **Picture Quality** field is not set to **Superfine**. Superfine pictures use more memory than fine or normal pictures.
- Increase the maximum amount of memory available for pictures.

The flash dims or turns off

If the battery power level drops below 20 percent, the flash dims to conserve battery power. In cold temperatures, when the battery power level drops below 20 percent, the flash might turn off.

Some pictures that I take are blurry

In low lighting conditions, the camera might compensate for the lack of exposure by using a slower shutter speed. If you move the camera before the shutter clicks, the picture might be blurry. If the camera is using a slower shutter speed, an exclamation point indicator appears at the bottom of the screen.

Media troubleshooting

I cannot play a song or video on a web page

Your BlackBerry® device might not support the size or file format of the song or video file.

I cannot open media files

Try performing the following actions:

- If you are trying to open a media file on your BlackBerry® device and your device is connected to your computer, disconnect your device from the computer or turn off mass storage mode.
- If you are trying to open a media file on your computer using mass storage mode, verify that you have closed the media manager tool of the BlackBerry® Desktop Manager.
- If you are trying to open a media file on your computer using the media manager tool of the BlackBerry Desktop Manager, verify that mass storage mode is turned off on your device.
- If you encrypted the media files on your media card using a media card encryption key and you are trying to open an encrypted media file using your computer or a device other than the BlackBerry device that you used to encrypt the file, insert the media card into the BlackBerry device that you used to encrypt the file. In the media card options, change the **Encryption Mode** field to **None** or **Security Password**.

My device does not recognize my media card

Disconnect your BlackBerry® device from your computer. Turn off mass storage mode support. Format the media card.

My device is not using the correct ring tone or Home screen background

If you are using a ring tone or Home screen background picture that you encrypted on your media card using your BlackBerry® device password and you reset your device, unlock your device.

Message troubleshooting

I cannot send messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send messages when you return to a wireless coverage area.
- If the menu item for sending a message does not appear, verify that you have added an email address, a PIN, or a phone number for your contact.
- If you created an email address or added an existing email address to your device using the email setup screen in the setup wizard, verify that you have received an activation message on your device from the BlackBerry® Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), in the setup wizard, open the email setup screen to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Press the **Menu** key. Click **Register Now**.
- Generate an encryption key.
- Verify that data service is turned on.
- Resend the message.

I am not receiving messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- If you created an email address or added an existing email address to your device using the email setup screen in the setup wizard, verify that you have received an activation message on your device from the BlackBerry® Internet Service. If you have not received an activation message (the message might take a short period of time to arrive), in the setup wizard, open the email setup screen to send a service book to your device.
- If you have not received a registration message from the wireless network, register your device. In the device options, click **Advanced Options**. Click **Host Routing Table**. Press the **Menu** key. Click **Register Now**.
- Verify that data service is turned on.
- If you use email message filters, verify that the options for email message filters are set correctly.
- Verify that email message forwarding is turned on and that you have selected all the email message folders, including your inbox folder, that you want to receive email messages from.
- Verify that your device is not blocking messages. For more information, contact your administrator.

I cannot file email messages

Try performing the following actions:

- Verify that wireless email reconciliation is turned on.
- If your email message folders do not appear on your BlackBerry® device, reconcile your email messages using the email settings tool of the BlackBerry® Desktop Manager. For more information, see the *BlackBerry Desktop Software Online Help*.

I received notification of a new message, but no new messages appear in my message list

If you have set your BlackBerry® device to hide filed messages and you receive a new message from an email message folder in the email application on your computer other than your inbox, your device files the message.

Some messages no longer appear on my device

If your BlackBerry® device memory is full, your device deletes the oldest messages from a message list. Your device does not delete saved messages.

If wireless email reconciliation is turned on, and, in the message options, the **Delete On** field is set to **Mailbox & Handheld**, email messages that you delete in the email application on your computer are also deleted from your device.

A message or attachment does not appear or is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, press the **Menu** key. Click **More** or **More All**.
- If you are downloading an attachment, cancel the download and wait for a short period of time. Try downloading the attachment again.

HTML email messages do not appear correctly

Try performing the following actions:

- Verify that your BlackBerry® device is associated with an email account that uses a BlackBerry® Enterprise Server that supports this feature. For more information, contact your administrator.
- Wait for a short period of time. Your device receives long messages and attachments in sections.
- Try viewing your message in plain text. Press the **Menu** key. Click **Get Plain Text**.

Some email message folders appear dimmed

If you cannot forward email messages from an email message folder, the check box beside the folder appears dimmed.

Try performing the following actions:

- Wait for a few seconds. The email message folders might become available after a short period of time.
- Turn off wireless email reconciliation, and then turn it on again.

Email message filters are not working correctly

Try performing the following actions:

- Verify that your email message filters are turned on.
- Verify that your email message filters appear in the order that you want your BlackBerry® device to apply them to email messages.

I cannot use a shortcut to view one type of message in a message list

If you switch BlackBerry® devices and you restore device data from your previous device to your current device, the message list shortcuts for your previous device replace the message list shortcuts for your current device.

To view the shortcuts for viewing one type of message in a message list, view your list of saved searches.

I cannot send SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, your device should send the messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.

I am not receiving SMS text messages

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network. If you are not in a wireless coverage area, you should receive messages when you return to a wireless coverage area.
- Verify that your wireless service plan includes this service.

I cannot attach a file to an MMS message

Depending on your wireless service provider, if you attach a video, you might not be able to attach another file or create a slide show.

Try performing the following actions:

- Verify that the file is a .vcf (vCard®) file, an .ics (iCalendar) file, or a media file (for example, a .jpg, .gif, or .midi file).
- Verify that the file is not copyright protected.
- If MMS templates are available for your BlackBerry® device, use a blank template to compose your MMS message.

Typing troubleshooting

I cannot type a password

Verify that you are using the multi-tap input method.

SureType technology does not recognize a word

Use the list that appears when you type to help you build words that SureType® technology does not recognize. Press the letter key for the first letter in the word once. Highlight a letter in the list. Press the letter key for the next letter in the word once. Highlight a letter combination. Click the trackball. Continue typing the word.

I cannot check spelling

You can only check spelling in English, French, German, Italian, and Spanish.

You can only check the spelling of text that you type.

Attachment troubleshooting

A skipped content bar appears in a document

More attachment content is available for you to download to your BlackBerry® device.

To download the content, click the skipped content bar. Click **More**.

A message or attachment does not appear or is truncated

Try performing the following actions:

- Wait for a short period of time. Your BlackBerry® device receives long messages and attachments in sections.
- If "More available" appears at the end of the message or attachment, press the **Menu** key. Click **More** or **More All**.
- If you are downloading an attachment, cancel the download and wait for a short period of time. Try downloading the attachment again.

A question mark appears on a slide

A question mark appears on a slide if your BlackBerry® device has not downloaded the slide.

To download the slide, highlight the slide. Press the **Menu** key. Click **Retrieve**.

Synchronization troubleshooting

Email messages are not reconciling over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless email reconciliation is turned on.
- Reconcile email messages manually. In a message list, press the **Menu** key. Click **Reconcile Now**.

I am not receiving email messages from personal folders on my computer

If your BlackBerry® device is associated with a Microsoft® Outlook® email account, you must use the synchronization tool of the BlackBerry® Desktop Manager to reconcile email messages in personal folders. For more information, see the *BlackBerry Desktop Software Online Help*.

Email messages are not being deleted over the wireless network

Try performing the following actions:

- If you delete multiple email messages on your BlackBerry® device, highlight the email messages and press the **Backspace/Delete** key. If you delete multiple email messages using the Delete Prior menu item, the email messages are not deleted during wireless email reconciliation.
- In the email reconciliation options, verify that the **Delete On** field is set to **Mailbox & Handheld**.

Organizer data is not synchronizing over the wireless network

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that wireless data synchronization is turned on in the address book, calendar, task list, and memo list.

Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.

Some characters in calendar entries do not appear correctly after synchronization

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. For more information, see the documentation for the operating system on your computer.

Browser troubleshooting

No browser is available on my device

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your wireless service plan includes this service.

I cannot set up automatic synchronization for bookmarks

When you add a bookmark, you can only set the Auto Synchronize and Start Time fields if content protection is turned off.

I cannot play a song or video on a web page

Your BlackBerry® device might not support the size or file format of the song or video file.

Application troubleshooting

I cannot add applications

Try performing the following actions:

- Verify that your BlackBerry® device is connected to the wireless network.
- Verify that your device has enough memory to add the application.

My device does not have enough available memory to upgrade the BlackBerry Device Software

Try performing the following actions:

- Delete media files, display languages, or third-party applications that you do not use.
- Transfer media files that you have stored in the BlackBerry® device memory to a media card.

Maps troubleshooting

Diagonal lines appear on a map

Diagonal lines appear on a map when your BlackBerry® device loads a new map or when your device is not connected to the wireless network.

If diagonal lines appear for a long period of time, verify that your device is connected to the wireless network.

Contact troubleshooting

Custom address book field data is not appearing on my computer

You can only synchronize the data in a custom address book field with a text field in the email application on your computer. For example, you cannot add a contact's birthday to a custom address book field on your BlackBerry® device and synchronize it with the email application on your computer, because the birthday field is a date field in the email application on your computer.

Caller ID pictures are not appearing on my device

If your BlackBerry® device is associated with a Microsoft® Outlook® 2000 email account and you add a picture for a contact in the email application on your computer, verify that the file name for the picture is ContactPicture.jpg.

Calendar troubleshooting

I cannot schedule appointments that span multiple days

If you use IBM® Lotus Notes®, you cannot schedule appointments that span multiple days.

I cannot set some fields when scheduling appointments

If you use IBM® Lotus Notes®, you can only change the Subject, Location, Reminder, and Notes fields and the Mark as Private check box when you change a recurring appointment or meeting.

Some characters in calendar entries do not appear correctly after synchronization

If you schedule appointments or meetings on your BlackBerry® device that contain special characters or accents, your computer might not support these characters.

On your computer, verify that you are using the correct default code page and that the correct font support is installed on your computer. For more information, see the documentation for the operating system on your computer.

Bluetooth technology troubleshooting

I cannot type a passkey on a Bluetooth enabled device

If you cannot type a passkey on a Bluetooth® enabled device, the passkey might already be defined.

On your BlackBerry® device, in the **Enter passkey for <device name>** field, try typing **0000**.

My list of paired Bluetooth enabled devices does not appear

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that you have added Bluetooth enabled devices to the paired Bluetooth enabled devices list.

I cannot pair with a Bluetooth enabled device

Try performing the following actions:

- Verify that your BlackBerry® device is compatible with the Bluetooth® enabled device. For more information, see the documentation that came with the Bluetooth enabled device.

- Allow the Bluetooth enabled device to discover your BlackBerry device. In the Bluetooth setup application, click **Allow another device to find me**.
- Turn off encryption for Bluetooth connections between your BlackBerry device and the Bluetooth enabled device. In the device options, click **Bluetooth**. Click a Bluetooth enabled device. Click **Device Properties**. Change the **Encryption** field to **Disabled**. Press the **Menu** key. Click **Save**.

I cannot share contacts with a paired Bluetooth enabled device

Try performing the following actions:

- Verify that Bluetooth® technology is turned on.
- Verify that your BlackBerry® device is paired with the Bluetooth enabled device.
- Verify that, in the Bluetooth options, the **Address Book Transfer** field is not set to **Disabled**.
- Verify that your BlackBerry device is connected to a Bluetooth enabled device that supports the Handsfree profile or the Object Push profile. For more information about supported profiles, see the documentation that came with the Bluetooth enabled device.

Date and time troubleshooting

The time on my device is incorrect

Try performing the following actions:

- If you have traveled to a different time zone, set the **Time Zone** field to display the correct time zone.
- If you have set the **Date/Time Source** field to **Network**, try setting the **Date/Time Source** field to **BlackBerry**.

Notification profile troubleshooting

My device is vibrating more times than expected

For calls, the number of times that the BlackBerry® device vibrates is not determined by the number of vibrations that you set in your notification profile. The device vibrates until the caller or the wireless network ends the connection.

I am not receiving notification for incoming calls or messages

Try performing the following actions:

- In the notification profile list, verify that the Off notification profile is not selected.
- In a notification profile exception, verify that the **Custom Ring Tone** field is not set to **Mute**.

I cannot change some fields in a Calls From notification profile exception

If you assign a custom ring tone to a contact in the address book, a Calls From notification profile exception appears in the notification profile list. Because these notification profile exceptions are for calls only, you can only change the Custom Ring Tone field.

Display troubleshooting

My device screen turns off

When you do not use your BlackBerry® device for a period of time, the screen turns off to conserve battery power.

To turn on the screen, click the trackball or press a key.

My display changed

Depending on your theme, display options, such as your font and Home screen background, might change when you switch themes.

Language troubleshooting

Some characters do not appear correctly on my device

The BlackBerry® Enterprise Server or BlackBerry® Internet Service that is associated with your BlackBerry® device might not support the characters. For more information, contact your wireless service provider or administrator.

Wireless network coverage troubleshooting

I cannot connect to a wireless network

Try performing the following actions:

- Verify that you have turned on the connection to the wireless network.
- If you have set a specific speed for wireless network connections, verify that you are in a wireless coverage area that supports the connection speed.

Security troubleshooting

I cannot download a certificate

If you changed the connection type that your BlackBerry® device uses to connect to the LDAP certificate server, try switching to the default connection type.

I cannot unlock my device using my smart card

Try performing the following actions:

- Verify that the correct smart card is inserted in the smart card reader.
- Verify that the smart card is inserted in the smart card reader correctly.
- Verify that you typed the smart card password correctly. You should have received this password when you received your smart card.
- If you use a certificate to authenticate your smart card, verify that the certificate is not revoked or expired.

My device prompts me to make an emergency call when I type a password

If your BlackBerry® device password contains a combination of letters that corresponds to an emergency access number, your device might prompt you to make an emergency call when you type your device password.

To continue typing your device password, press the **Escape** key.

Diagnostic reports

About diagnostic reports

Diagnostic reports provide wireless configuration and connection information for your BlackBerry® device. If you cannot connect to the wireless network or access services such as email messaging, your wireless service provider or administrator might ask you to run and submit a diagnostic report. Your wireless service provider or administrator can use the report to help you troubleshoot the problem.

Run a diagnostic report

1. In the device options, click **Mobile Network**.
2. Press the **Menu** key.
3. Click **Diagnostics Test**.
4. Press the **Menu** key.
5. Click **Run**.

View a diagnostic report

1. In the device options, click **Mobile Network**.
2. Press the **Menu** key.
3. Click **Diagnostics Test**.
4. Highlight a report.
5. Press the **Menu** key.
6. Click **View Report**.

Submit a diagnostic report

1. In the device options, click **Mobile Network**.
2. Press the **Menu** key.
3. Click **Diagnostics Test**.
4. Highlight a report.
5. Press the **Menu** key.
6. Click **Email Report** or **PIN Report**.

Delete a diagnostic report

1. In the device options, click **Mobile Network**.
2. Press the **Menu** key.
3. Click **Diagnostics Test**.
4. Highlight a report.
5. Press the **Menu** key.
6. Click **Delete** or **Delete All**.

Set a default recipient for diagnostic reports

If you set the default recipient, each time that you submit a diagnostic report, your BlackBerry® device sends the report to that recipient. If you want to specify a recipient each time that you submit a report, do not set the default recipient.

1. In the device options, click **Mobile Network**.
2. Press the **Menu** key.
3. Click **Diagnostics Test**.
4. Press the **Menu** key.
5. Click **Options**.
6. Type the contact information.
7. Press the **Menu** key.
8. Click **Save**.

I cannot run or submit a diagnostic report

Try performing the following actions:

- Try running the diagnostic report again. In the diagnostic report, press the **Menu** key. Click **Repeat All Steps**.
- If you cannot submit a diagnostic report to an email address, try submitting the report to a PIN. Likewise, if you cannot submit a diagnostic report to a PIN, try submitting the report to an email address.

View the version number of the BlackBerry Device Software on your device

In the device options, click **About**.

To return to the device options, press the **Escape** key three times.

Glossary

ADN

abbreviated dialing number

APN

access point name

BCC

blind carbon copy

BlackBerry enabled device

A BlackBerry enabled device is a device with BlackBerry Connect software, a device with BlackBerry Built-In software, or a device that is running the BlackBerry Application Suite. BlackBerry enabled devices provide users with access to BlackBerry device applications and BlackBerry services.

BlackBerry MDS

BlackBerry® Mobile Data System

CC

carbon copy

CMIME

Compressed Multipurpose Internet Mail Extensions

CRL

certificate revocation list

DSA

Digital Signature Algorithm

ECC

Elliptic Curve Cryptography

FDN

Fixed Dialing Number

FIPS

Federal Information Processing Standards

GPS

Global Positioning System

HTTP

Hypertext Transfer Protocol

IP

Internet Protocol

LDAP

Lightweight Directory Access Protocol

LED

light-emitting diode

mass storage mode

Mass storage mode enables users to transfer files between a media card and their computer when they connect their BlackBerry device to their computer.

MCC

mobile country code

MMS

Multimedia Messaging Service

MNC

mobile network code

PIN

personal identification number

SDN

service dialing number

SHA

Secure Hash Algorithm

S/MIME

Secure Multipurpose Internet Mail Extensions

SMS

Short Message Service

SMSC

Short Message Service Center

SSL

Secure Sockets Layer

TCP

Transmission Control Protocol

TLS

Transport Layer Security

Triple DES

Triple Data Encryption Standard

TTY

teletype

VPN

virtual private network

WAP

Wireless Application Protocol

WML

Wireless Markup Language

WTLS

Wireless Transport Layer Security

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4,901,307	5,490,165	5,056,109	5,504,773	5,101,501
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5,506,865	5,109,390	5,511,073	5,228,054	5,535,239
5,267,261	5,544,196	5,267,262	5,568,483	5,337,338
5,600,754	5,414,796	5,657,420	5,416,797	5,659,569
5,710,784	5,778,338			

BlackBerry® Pearl™ 8130 smartphone model number: RBS21CW

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Published in Canada