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- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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- Accessory Support, on page 2

New and Changed for 7800 and 8800 Accessories Guide

New Information for Firmware Release 12.5(1)SR2

No documentation updates were required for Firmware Release 12.5(1)SR2.

New and Changed for Firmware Release 12.5(1) and 12.5(1)SR1

Table 1: Cisco IP Phone 7800 and 8800 Series Accessories Guide Revisions for Firmware Release 12.5(1) and 12.5(1)SR1.

<table>
<thead>
<tr>
<th>Revision</th>
<th>Updated Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco Headset 561 and 562</td>
<td>Cisco Headset 500 Series, on page 7</td>
</tr>
<tr>
<td>Cisco Headset 561 and 562 Multibase</td>
<td>Cisco Headset 560 Series Multibase, on page 15</td>
</tr>
<tr>
<td>Support for Remote Configuration of Headset Parameters</td>
<td>Remote Configuration of Headset Parameters, on page 23</td>
</tr>
</tbody>
</table>

New Accessories Information for 12.1(1)SR1

Table 2: Cisco IP Phone 7800 and 8800 Series Accessories Guide Revisions for Firmware Release 12.1(1)SR1.

<table>
<thead>
<tr>
<th>Revision</th>
<th>Updated Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updated for Cisco Wallpaper on Key Expansion Modules.</td>
<td>Wallpaper and Key Expansion Modules, on page 41</td>
</tr>
<tr>
<td></td>
<td>Change the Wallpaper, on page 41</td>
</tr>
</tbody>
</table>
New Accessories Information for 12.1(1)

Table 3: Cisco IP Phone 7800 and 8800 Series Accessories Guide Revisions for Firmware Release 12.1(1).

<table>
<thead>
<tr>
<th>Revision</th>
<th>Updated Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Updated for Cisco Headset 531 and Cisco Headset 532.</td>
<td>Cisco Headset 500 Series, on page 7</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisco Headset 521 and 522</td>
<td>Cisco Headset 500 Series, on page 7</td>
</tr>
</tbody>
</table>

Accessory Support

Cisco phones support many different accessories, including headsets, external speakers, wall mount kits, and key expansion modules. Accessory support varies between phone models, so review the information in this chapter before you purchase or use an accessory.

In addition to the accessories listed in this document, you may be able to purchase other items for your phone such as power cords, power cubes, or spare bezels. For more information, consult your phone’s data sheet. The Cisco IP Phone 8800 Series data sheets can be viewed here:
The Cisco IP Phone 7800 Series data sheets can be viewed here:

Related Topics

Third Party Headsets, on page 17
Cisco IP Phone Key Expansion Module Setup Overview, on page 37
Wall Mount Kits, on page 53

Accessory Support for the Cisco IP Phone 7800 Series

Use the information in the following table to guide you as you select an accessory.

Table 4: Accessory Support for the Cisco IP Phone 7800 Series

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Type</th>
<th>Cisco IP Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>7811 7821 7841</td>
</tr>
<tr>
<td>Cisco Accessory</td>
<td></td>
<td>Supported Supported Supported Supported</td>
</tr>
<tr>
<td>Wall Mount Kit</td>
<td></td>
<td>Supported Supported Supported Supported</td>
</tr>
</tbody>
</table>
## Accessory Support for the Cisco IP Phone 7800 Series

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Type</th>
<th>Cisco IP Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>7811</td>
</tr>
<tr>
<td>Footstand</td>
<td>Supported (non-adjustable)</td>
<td>Supported</td>
</tr>
<tr>
<td>Cisco Headset 531 and Cisco Headset 532</td>
<td>Analog Cisco IP Phone 7821, 7841, and 7861 cannot detect when an analog headset is plugged into it. The headset is displayed in the Accessories window.</td>
<td>Not supported</td>
</tr>
<tr>
<td>Cisco Headset 561 and 562</td>
<td>Analog Cisco IP Phone 7821, 7841, and 7861 cannot detect when an analog headset is plugged into it. The headset is displayed in the Accessories window.</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

### Third-Party Accessories

<table>
<thead>
<tr>
<th>Headsets</th>
<th>Analog Cisco IP Phone 7821, 7841, and 7861 cannot detect when an analog headset is plugged into it. The headset is displayed in the Accessories window.</th>
<th>Not supported</th>
<th>Supported</th>
<th>Supported</th>
<th>Supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analog Wideband</td>
<td>Not supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>Wired</td>
<td>Not supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>USB</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>Electronic hookswitch</td>
<td>Not supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
<tr>
<td>Cable Lock</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
### Accessory Support for the Cisco IP Phone 8800 Series

Use the information in the following table to guide you as you select an accessory.

**Table 5: Accessory Support for the Cisco IP Phone 8800 Series**

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Type</th>
<th>Cisco IP Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8811</td>
</tr>
<tr>
<td>Microphone</td>
<td>External PC</td>
<td>Not supported</td>
</tr>
<tr>
<td>Speakers</td>
<td>External PC</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

#### Cisco Accessory

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Type</th>
<th>Cisco IP Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8811 and 8841</td>
</tr>
<tr>
<td>Cisco IP Phone 8800 Key Expansion Module</td>
<td>Add-on module</td>
<td>Not supported</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supports up to 2 expansion modules.</td>
</tr>
<tr>
<td>Cisco IP Phone 8851/8861 Key Expansion Module</td>
<td>Add-on module</td>
<td>Not supported</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supports up to 2 expansion modules of the same type.</td>
</tr>
<tr>
<td>Cisco IP Phone 8865 Key Expansion Module</td>
<td>Add-on module</td>
<td>Not supported</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supports up to 3 expansion modules of the same type.</td>
</tr>
<tr>
<td>Wall Mount Kit</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>Footstand</td>
<td></td>
<td>Supported</td>
</tr>
<tr>
<td>Cisco Headset 521 and 522</td>
<td>USB</td>
<td>Not supported</td>
</tr>
<tr>
<td>Cisco Headset 531 and Cisco Headset 532</td>
<td>Standard</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>USB Adapter</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
### Accessories Overview

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Type</th>
<th>Cisco IP Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8811 and 8841</td>
<td>8845</td>
</tr>
<tr>
<td>Cisco Headset 561 and 562</td>
<td>Standard</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>USB</td>
<td>Not supported</td>
</tr>
<tr>
<td><strong>Third-Party Accessories</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Headsets</td>
<td>Analog</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>Analog Wideband</td>
<td>Supported</td>
</tr>
<tr>
<td></td>
<td>Bluetooth</td>
<td>Not supported</td>
</tr>
<tr>
<td></td>
<td>USB</td>
<td>Not supported</td>
</tr>
<tr>
<td></td>
<td>Electronic Hookswitch</td>
<td>Supported</td>
</tr>
<tr>
<td>See Note 1.</td>
<td>See Note 2.</td>
<td></td>
</tr>
<tr>
<td>Microphones</td>
<td>External PC</td>
<td>Not supported</td>
</tr>
<tr>
<td>Cable Lock</td>
<td>Supported</td>
<td>Supported</td>
</tr>
<tr>
<td>Speakers</td>
<td>External PC</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

---

**Note**

Electronic Hookswitch users should be aware of the following:

- The Electronic Hookswitch connects to Cisco IP Phone 8811, 8841, and 8845 with the auxiliary port.
- The Electronic Hookswitch connects to Cisco IP Phone 8851, 8851NR, 8861, 9965, and 8865NR with the auxiliary port, the USB port, or with Bluetooth.

---

**Cisco One-Year Limited Hardware Warranty Terms**

Special terms apply to your hardware warranty and services that you can use during the warranty period.

Your formal Warranty Statement, including the warranties and license agreements applicable to Cisco software, is available on Cisco.com at this URL: https://www.cisco.com/go/hwwarranty.
Headsets

- Important Headset Safety Information, on page 7
- Cisco Headset 500 Series, on page 7
- Third Party Headsets, on page 17
- Required Headset Configuration on Cisco Unified Communications Manager, on page 19
- Connect a Headset to Your Phone, on page 25
- Postpone a Phone Upgrade, on page 28
- Cisco Headset Customization, on page 28
- Configure a Headset on the Phone, on page 30
- Make a Call with a Standard Headset, on page 32
- Audio Path Selection, on page 32
- Swap Headsets While on a Call, on page 33
- Troubleshoot Your Cisco Headset, on page 33

Important Headset Safety Information

⚠️ High Sound Pressure—Avoid listening to high volume levels for long periods to prevent possible hearing damage.

When you plug in your headset, lower the volume of the headset speaker before you put the headset on. If you remember to lower the volume before you take the headset off, the volume will start lower when you plug in your headset again.

Be aware of your surroundings. When you use your headset, it may block out important external sounds, particularly in emergencies or in noisy environments. Don’t use the headset while driving. Don’t leave your headset or headset cables in an area where people or pets can trip over them. Always supervise children who are near your headset or headset cables.

Cisco Headset 500 Series

The following Cisco headsets are available:
- Cisco Headset 521—A headset with a single earpiece that comes with an inline USB controller.
- Cisco Headset 522—A headset with a dual earpiece that comes with an inline USB controller.
- Cisco Headset 531—A headset with a single earpiece that can be used as either a standard headset or a USB headset with the USB adapter.
- Cisco Headset 532—A standard headset with a dual earpiece that can be used as either a standard headset or a USB headset with the USB adapter.
- Cisco Headset 561—A wireless headset with a single earpiece that comes with a base.
- Cisco Headset 562—A wireless headset with a dual earpiece that comes with a base.

**Cisco Headset 521 and 522**

The Cisco Headset 521 and 522 are two wired headsets that have been developed for use on Cisco IP Phones and devices. The Cisco Headset 521 features a single earpiece for extended wear and comfort. The Cisco Headset 522 features two earpieces for use in a noisy workplace.

Both headsets feature a 3.5-mm connector for use on laptops and mobile devices. An inline USB controller is also available for use on the Cisco IP Phone 8851, 8851NR, 8861, 8865, and 8865NR. The controller is an easy way to answer your calls, and to access basic phone features such as hold and resume, mute, and volume control.

Phone Firmware Release 12.1(1) and later is required for these headsets to function properly.

*Figure 1: Cisco Headset 521*

*Figure 2: Cisco Headset 522*

**Cisco Headset 531 and 532**

The Cisco Headset 531 and 532 can be used as standard headsets on the phones. You plug the headset into the headset port using the RJ connector.
The Cisco Headset USB Adapter is also available for use on the Cisco IP Phone 8851, 8851NR, 8861, 8865, and 8865NR. The adapter converts the Cisco Headset 531 and 532 into a USB headset, and it gives you a few extra features. It provides a convenient way to handle calls, to test your microphone, and to customize your bass and treble, gain, and sidetone settings.

Phone Firmware Release 12.1(1) and later is required for the headsets to function properly.

**Figure 3: Cisco Headset 531**

![Cisco Headset 531](image1)

**Figure 4: Cisco Headset 532**

![Cisco Headset 532](image2)

**Cisco Headset 561 and 562**

Cisco Headset 561 and 562 are two wireless headsets that have been developed for use in today's office. The Cisco Headset 561 features a single earpiece for extended wear and comfort. Cisco Headset 562 features two earpieces for use in a noisy workplace.

Both headsets come with either the Standard base or the Multibase for charging your headset, and for monitoring the headset power level with the LED display. Both bases also displays your call status, such as incoming call, active call, and calls on mute. If your headset is upgrading the firmware, then the LEDs show the upgrade progress.

The base connects to the phone using either a USB connector or a Y cable depending upon your phone model and your personal preference. The Y cable plugs into the AUX and headset ports of the phone.

An AC plug is included for connecting the base to a power outlet. You have to install the power clip for your region before you can plug in the power adapter.

Occasionally a tone is played over your Cisco Headset 561 or 562. Some of these tones alert you when you perform an action, such as pressing a button. Other tones warn you that the headset requires attention, such as when the battery needs recharging, or when you are too far from the base station.

Phone Firmware Release 12.5(1) or later and the defaultheadsetconfig.json file for the Cisco Headset 561 and 562 to function properly with Cisco Unified Communications Manager 12.5(1) or earlier.
Cisco Headset 500 Series Support

The Cisco IP Phone 7811 is the only phone in the Cisco IP Phone 7800 Series that does not support a headset. The Cisco IP Phone 7821, 7841, and 7861 use an RJ-style connector to connect with a headset or base.

The Cisco IP Phone 8800 Series has both RJ-style connectors and USB ports to connect to headsets and bases to a phone. But the type of connection depends upon your phone model. The following table describes headset connection and phone model support on the Cisco IP Phone 8800 Series.

Table 6: Headset Support on the Cisco IP Phone 8800 Series.

<table>
<thead>
<tr>
<th>Cisco Headset 500 Series</th>
<th>Cisco IP Phone 8811</th>
<th>Cisco IP Phone 8841</th>
<th>Cisco IP Phone 8845</th>
<th>Cisco IP Phone 8851NR</th>
<th>Cisco IP Phone 8861</th>
<th>Cisco IP Phone 8865</th>
<th>Cisco IP Phone 8865NR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco Headset 521</td>
<td>Not Supported</td>
<td></td>
<td></td>
<td>Supported</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisco Headset 522</td>
<td></td>
<td></td>
<td></td>
<td>(With USB Inline Controller)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisco Headset 531</td>
<td>Supported</td>
<td></td>
<td></td>
<td>Supported</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cisco Headset 532</td>
<td>(RJ connector)</td>
<td></td>
<td></td>
<td>(RJ connector or with USB Adapter)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Cisco Headset 521 and 522 Controller Buttons and Hardware

Your controller buttons are used for basic call features.

*Figure 7: Cisco Headset 521 and 522 Controller*

The following table describes the Cisco Headset 521 and 522 controller buttons.

*Table 7: Cisco Headset 521 and 522 Controller Buttons*

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mute button</td>
<td>Toggle the microphone on and off.</td>
</tr>
<tr>
<td>2</td>
<td>Volume button</td>
<td>Adjust the volume on your headset.</td>
</tr>
<tr>
<td>3</td>
<td>Call</td>
<td>Use to manage calls:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press once to answer an incoming call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press and hold to end a call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press twice to reject an incoming call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press once to put an active call on hold. Press again to retrieve a call from hold.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press once to put an active call on hold, and to answer an incoming call.</td>
</tr>
</tbody>
</table>

Supported (Y-cable or USB cable)

<table>
<thead>
<tr>
<th>Cisco Headset 500 Series</th>
<th>Cisco IP Phone 8811</th>
<th>Cisco IP Phone 8851NR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cisco IP Phone 8841</td>
<td>Cisco IP Phone 8861</td>
</tr>
<tr>
<td></td>
<td>Cisco IP Phone 8845</td>
<td>Cisco IP Phone 8865</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cisco IP Phone 8865NR</td>
</tr>
</tbody>
</table>

Cisco Headset 561
Cisco Headset 562

Supported (Y-cable)
Cisco Headset 531 and 532 USB Adapter Buttons and Hardware

Your adapter is used for basic call features.

Figure 8: Cisco Headset USB Adapter

The following table describes the Cisco Headset USB Adapter buttons.

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mute button</td>
<td>Toggle the microphone on and off.</td>
</tr>
<tr>
<td>2</td>
<td>Volume button</td>
<td>Adjust the volume on your headset.</td>
</tr>
<tr>
<td>3</td>
<td>Call button</td>
<td>Use to place, answer, and manage your calls:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press once to place a call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press once to answer an incoming call. Press twice to reject an incoming call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press once to put an active call on hold, and to answer an incoming call.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press once to put an active call on hold.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press and hold to end a call.</td>
</tr>
</tbody>
</table>

Cisco Headset 561 and 562 Buttons and LED

Your headset buttons are used for basic call features.
The following table describes the Cisco Headset 561 and 562 Headset buttons.

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1      | Power and Call button       | Use to power the headset on and off. Press and hold for 4 seconds to power on and off the headset. Incoming and active call management depends upon if you have one call or multiple calls. One call:  
  • Press once to answer incoming calls.  
  • Press once to put an active call on hold. Press again to retrieve a call from hold.  
  • Press twice to reject an incoming call.  
  • Press and hold to end an active call.  
  Multiple calls:  
  • Press once to put an active call on hold, and to answer a second incoming call.  
  • Press once to put a current call on hold. Press again to resume a call, or press and hold for 2 seconds to end the current call and to resume a held call.  
  • Press and hold to end an active call, and to answer another incoming call.  
  • Press twice to stay on a current call, and to reject a second incoming call. |
The Cisco Headset 561 and 562 come with a standard base to charge your headset. The base's LED display shows the current battery level, and your call state. In addition to the call control buttons on the headset, you can also answer and end calls when you lift or set down your headset on the base.

The connection between the base and the headset is made with Digital Enhanced Cordless Telecommunications (DECT).

Figure 10: LED Display on the Standard Base for Cisco 561 and 562 Headset

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Mute button</td>
<td>Toggle the microphone on and off. The Mute button on the phone lits up when Mute on the headset is enabled.</td>
</tr>
<tr>
<td>3</td>
<td>Volume button</td>
<td>Adjust the volume on your headset.</td>
</tr>
</tbody>
</table>
| 4      | LED             | Shows the headset status:  
- Blinking red—Incoming call.  
- Steady red—Active call.  
- Blinking white—Firmware upgrade is in progress. |

The following table describes the standard base for Cisco 561 and 562 Headset.

Table 10: Standard Base for Cisco 561 and 562 Headset

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Battery Status LED</td>
<td>Indicates the headset battery charge.</td>
</tr>
</tbody>
</table>
### Cisco Headset 560 Series Multibase

The multibase can connect up to three call sources through Bluetooth, the USB connector, or the Y-cable. The multibase can save up to four Bluetooth devices. You can switch between call sources using the buttons on the multibase. You use the call control buttons on the headset to answer and end calls. When your headset is in the base, you automatically answer the call when you remove the headset from the base. You can return the headset to the base to end the call.

*Figure 11: Multibase LEDs*

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Call Status LED</td>
<td>Alerts you to the call state:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Incoming call—Blinking green.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Active call—Steady green.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Muted call—Steady red.</td>
</tr>
</tbody>
</table>
The following table describes the multibase.

**Table 11: Multibase LEDs**

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Battery Status LED</td>
<td>Indicates the headset battery charge and base status:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Headset battery strength—LEDs blink and change to solid as the battery charges.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Headset update in progress—LEDs blink in sequence, left to right.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Headset and base not paired—All LEDs blink</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Power save mode—Middle LED shows solid.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The base enters power save mode when there is no call source connectivity after 10 minutes.</td>
</tr>
<tr>
<td>2</td>
<td>Call Status LEDs</td>
<td>Alerts you to the call state of each source:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Active Source—Steady white</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Incoming call—Blinks green</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Active call—Steady green</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Incoming call on an unselected source—Pulses green</td>
</tr>
<tr>
<td>3</td>
<td>Mute Status LED</td>
<td>Alerts you when your headset is muted.</td>
</tr>
<tr>
<td>4</td>
<td>Bluetooth Status LED</td>
<td>Alerts you to the Bluetooth status:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Paired with a call source—Steady white</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Pairing mode—Blinking white</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Searching for a call source—Pulse white</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Bluetooth is Off—LED is blank</td>
</tr>
</tbody>
</table>

You select which call source you want to use with the call source controls on the Multibase. The LED next to each selected source lights up when the source is selected.

Even if you are connected to a source, the LED may not be lit. The source LED only lights when the source is selected or has an active call. For example, you may be properly connected to a Cisco IP Phone, your PC, and your mobile phone through Bluetooth. However, the respective source LED is only lit when it is selected, has an active call, or has an incoming call. Press the source button to check if a source is properly connected. The source LED flashes three times if there is no connection.

You can alternate between active call sources.
Third Party Headsets

Cisco performs internal testing of third-party headsets for use with Cisco IP Phones. But Cisco does not certify or support products from headset or handset vendors. Check with the headset manufacturer to confirm whether you can use it with your Cisco phone.

Headsets connect to your phone using either the USB or the auxiliary port. Depending upon your headset model, you have to adjust your phone's audio settings for the best audio experience, including the headset sidetone setting.

If you have a third party headset, and you apply a new sidetone setting, then wait one minute and reboot the phone so the setting is stored in flash.

The phone reduces some background noise that a headset microphone detects. You can use a noise canceling headset to further reduce the background noise and improve the overall audio quality.

If you are considering a third party headset, we recommend the use of good quality external devices; for example, headsets that are screened against unwanted radio frequency (RF) and audio frequency (AF) signals. Depending on the quality of headsets and their proximity to other devices, such as mobile phones and two-way radios, some audio noise or echo may still occur. Either the remote party or both the remote party and the Cisco IP Phone user may hear an audible hum or buzz. A range of outside sources can cause humming or buzzing sounds; for example, electric lights, electric motors, or large PC monitors.

Sometimes, use of a local power cube or power injector may reduce or eliminate hum.

Environmental and hardware inconsistencies in the locations where Cisco IP Phones are deployed mean that no single headset solution is optimal for all environments.

We recommend that customers test headsets in the intended environment to determine performance before making a purchasing decision to deploy on a large scale.

You can use only one headset at a time. The most-recently connected headset is the active headset.


Related Topics

Accessory Support, on page 2

Audio Quality

Beyond physical, mechanical, and technical performance, the audio portion of a headset must sound good to the user and to the party on the far end. Sound quality is subjective, and we cannot guarantee the performance of any headsets. However, various headsets from leading headset manufacturers are reported to perform well with Cisco IP Phones.

For additional information, see https://www.cisco.com/c/en/us/products/unified-communications/uc_endpoints_accessories.html
Wired Headsets

A wired headset works with all Cisco IP Phone features, including the Volume and Mute buttons. These buttons adjust the earpiece volume and mute the audio from the headset microphone.

When you install a wired headset, make sure you press the cable into the channel in the phone.

Caution

Failure to press the cable into the channel in the phone can lead to cable damage.

Bluetooth Wireless Headsets

Cisco IP Phone 8845, 8851, 8861 and 8865 support Bluetooth. For a list of supported third party headsets, see http://www.cisco.com/c/en/us/products/unified-communications/uc_endpoints_accessories.html.

Bluetooth enables low-bandwidth wireless connections within a range of 66 feet (20 meters). The best performance is in the 3- to 6-foot (1- to 2-meter) range. Bluetooth wireless technology operates in the 2.4 GHz band, which is the same as the 802.11b/g band. Interference issues can occur. We recommend that you:

- Use 802.11a, 802.11n, or 802.11ac that operates in the 5 GHz band.
- Reduce the proximity of other 802.11b/g devices, Bluetooth devices, microwave ovens, and large metal objects.

The Cisco IP Phone uses a shared key authentication and encryption method to connect with headsets. The Cisco IP Phone can connect with up to 50 headsets, one at a time. The last connected headset is used as the default. Pairing is typically performed once for each headset.

After a device is paired, the Bluetooth connection is maintained as long as both devices (phone and headset) are enabled and within range of each other. The connection typically reestablishes itself automatically if either of the devices powers down then powers up. However, some headsets require user action to reestablish the connection.

The Bluetooth icon indicates that Bluetooth is on, whether a device is connected or not.

Potential interference issues can occur. We recommend that you reduce the proximity of other 802.11b/g devices, Bluetooth devices, microwave ovens, and large metal objects. If possible, configure other 802.11 devices to use the 802.11a channels.

For a Bluetooth wireless headset to work, it does not need to be within direct line-of-sight of the phone. But some barriers such as walls or doors can affect the connection. Interference from other electronic devices can also affect performance.

When headsets are more than 30 feet (10 meters) away from the Cisco IP Phone, Bluetooth drops the connection after a 15- to 20-second timeout. The paired headset reconnects when it is comes back into range of the Cisco IP Phone. For certain phone types that operate in power-save modes, you can wake up the headset by tapping on the operational button.

Enable the headset before you add it as a phone accessory.

The phone supports various Handsfree Profile features that allow you to use devices such as Bluetooth wireless headsets for certain tasks. For example, instead of pressing Redial on the phone, you can redial a number from the Bluetooth wireless headset by following instructions from the headset manufacturer.
Cisco IP Phone 8811, 8841, 8851NR, and 8865NR do not support Bluetooth wireless headsets. These hands free features apply to Bluetooth wireless headsets that are used with the Cisco IP Phone 8845, 8851, 8861 and 8865:

- Answer a call
- End a call
- Change the headset volume for a call
- Redial
- Caller ID
- Divert
- Hold and Accept
- Release and Accept

Hands free devices have different feature activation methods. Device manufacturers may also use different terms when referring to the same feature.

---

**Important**

Only one headset type works at any given time. If you use both a Bluetooth headset and an analog headset that are attached to the phone, enabling the Bluetooth headset disables the analog headset. To enable the analog headset, disable the Bluetooth headset. Plugging a USB headset into a phone that has Bluetooth headset enabled disables both the Bluetooth and analog headset. If you unplug the USB headset, you can either enable the Bluetooth headset or disable the Bluetooth headset to use the analog headset.

For information about how to use your Bluetooth wireless headset, see:

- *Cisco IP Phone 8800 Series User Guide*
- *User Guides provided with your headset*

---

**Wireless Headsets**


Refer to your wireless headset documentation for information about connecting the headset and using the features.

---

**Required Headset Configuration on Cisco Unified Communications Manager**

Cisco Headset 500 Series is supported by most Cisco Unified Communications Manager (CUCM) releases. But you should install the latest phone firmware release and device packages before connecting your headset to a phone. When the headset is first connected, it will download the required firmware and begin the upgrade process.
The following tables list the CUCM parameters and the phone firmware release that is required for your Cisco headset to function.

**Table 12: Cisco Headset 500 Series Headset Parameters for Cisco IP Phone 7800 Series**

<table>
<thead>
<tr>
<th>Cisco Headset</th>
<th>Phone Firmware</th>
<th>Product Specific Configuration Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco Headset 531 and 532</td>
<td>Phone Firmware Release 12.1(1) or later</td>
<td>Wideband Headset</td>
<td>The headset usually requires about 5 seconds to upgrade.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wideband Headset UI Control</td>
<td></td>
</tr>
<tr>
<td>Cisco Headset 561 and 562</td>
<td>Phone Firmware Release 12.5(1)SR1 or later, and the latest device package</td>
<td>Wireless Headset Hookswitch Control</td>
<td>The headset usually requires 5 to 15 minutes to upgrade, and the base LEDs light in sequence to show the upgrade progress. The user can postpone the upgrade up to 4 times.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wideband Headset</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wideband Headset UI Control</td>
<td></td>
</tr>
</tbody>
</table>

**Table 13: Cisco Headset 500 Series Headset Parameters for Cisco IP Phone 8800 Series**

<table>
<thead>
<tr>
<th>Cisco Headset</th>
<th>Phone Firmware</th>
<th>Product Specific Configuration Parameter</th>
<th>Description and Usage Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco Headset 521 and 522</td>
<td>Phone Firmware Release 12.1(1) or later</td>
<td>Side USB Port Back USB Port</td>
<td>The headset usually requires about 5 seconds to upgrade.</td>
</tr>
<tr>
<td>Cisco Headset 531 and 532</td>
<td>Phone Firmware Release 12.1(1) or later</td>
<td>Side USB Port Back USB Port</td>
<td>The headset usually requires about 5 seconds to upgrade.</td>
</tr>
<tr>
<td>Cisco Headset 561 and 562</td>
<td>Phone Firmware Release 12.5(1)SR1 or later, and the latest device package</td>
<td>Wireless Headset Hookswitch Control Side USB Port Back USB Port</td>
<td>The headset usually requires 5 to 15 minutes to upgrade, and the base LEDs light in sequence to show the upgrade progress. The user can postpone the upgrade up to 4 times. If you are using the Y cable to connect the headset base to the phone, then you must enable Wireless Headset Hookswitch Control. If you are using the USB cable to connect the headset base to the phone, then you must use the appropriate USB port.</td>
</tr>
</tbody>
</table>
Set Up a Headset for a Single Phone

You can configure a single phone or a group of phones for headset support. To configure a group of phones, use the Common Phone Profile.

Procedure

Step 1 Sign into Cisco Unified Communications Manager Administration as an administrator.
Step 2 Select Device > Phone
Step 3 Locate the phone associated with the user.
Step 4 Navigate to the Product Specific Configuration Layout pane and set the fields.
Step 5 Check the Override Common Settings check box for any changed fields.
Step 6 Click Save.
Step 7 Click Apply Config.
Step 8 Restart the phone.

Headset Parameters on Cisco Unified Communications Manager

The following table describes the fields in the Product Specific Configuration Layout pane that control headset use.

Table 14: Product Specific Configuration Fields for Headsets

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Type or Choices</th>
<th>Default</th>
<th>Description and Usage Guidelines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disable Speakerphone and Headset</td>
<td>Check box</td>
<td>Unchecked</td>
<td>Turns off the speakerphone and headset capability of the phone.</td>
</tr>
<tr>
<td>Disable Handset</td>
<td>Checkbox</td>
<td>Unchecked</td>
<td>Turns off the handset audio path.</td>
</tr>
<tr>
<td>Wireless Headset Hookswitch Control</td>
<td>Disabled Enabled</td>
<td>Disabled</td>
<td>Enables users to remotely control basic IP phone functionality from the wireless headset. Basic IP phone functionality includes off-hook and on-hook, ring indication, audio volume control, and mute. To use a wireless headset, users connect a base station to the auxiliary port. The base station communicates with the wireless headset.</td>
</tr>
</tbody>
</table>
### Field Name
- **Wideband Headset**
- **Wideband Headset UI Control**
- **Wi-Fi**
- **Side USB Port**
- **Back USB Port**
- **Bluetooth**
- **Bluetooth Profiles**

### Field Type or Choices
- **Disabled**
- **Enabled**

### Default
- **Enabled**
- **8861, 8865, and 8865NR: Enabled**
- **Enabled**
- **Enabled**
- **Enabled**
- **Enabled**
- **Handsfree**

### Description and Usage Guidelines
- Enables or disables the use of a Wideband Headset on the phone. Used in conjunction with User Control Wideband Headset. For more information, see **Set Up Wideband Codec**, on page 22.

- Allows the user to use the wideband codec for an analog headset.

- Enables the Cisco IP Phones 8861 and 8865 to connect to the Wi-Fi network. Phones that do not support this feature do not display the field.

- Controls the ability to use the USB port on the side of the Cisco IP Phones 8851, 8851NR, 8861, 8865, and 8865NR. Phones that do not support this feature do not display the field.

- Controls the ability to use the USB port on the back of the Cisco IP Phones 8861 and 8865. Phones that do not support this feature do not display the field.

- Enables or disables the Bluetooth option on the phone. If disabled, the user cannot enable Bluetooth on the phone. Supported on the Cisco IP Phones 8845, 8851, 8861, and 8865. Phones that do not support this feature do not display the field.

- Indicates which Bluetooth profiles on the phone are enabled or disabled.

---

### Set Up Wideband Codec

By default, the G.722 codec is enabled for the Cisco IP Phone. If Cisco Unified Communications Manager is configured to use G.722 and if the far endpoint supports G.722, the call connects using the G.722 codec in place of G.711.

This situation occurs regardless of whether the user has enabled a wideband headset or wideband handset, but if either the headset or handset is enabled, the user may notice greater audio sensitivity during the call. Greater sensitivity means improved audio clarity but also means that the far endpoint can hear more background noise.
noise: noise such as rustling papers or nearby conversations. Even without a wideband headset or handset, some users may prefer the additional sensitivity of G.722 distracting. Other users may prefer the additional sensitivity of G.722.

The Advertise G.722 and iSAC Codec service parameter affects whether wideband support exists for all devices that register with this Cisco Unified Communications Manager server or for a specific phone, depending on the Cisco Unified Communications Manager Administration window where the parameter is configured.

Procedure

**Step 1**
To configure wideband support for all devices:

a) From Cisco Unified Communications Manager Administration, choose *System > Enterprise Parameters*

b) Set the Advertise G.722 and iSAC Codec field

The default value of this enterprise parameter is **True**, which means that all Cisco IP Phone Models that register to this Cisco Unified Communications Manager advertise G.722 to Cisco Unified Communications Manager. If each endpoint in the attempted call supports G.722 in the capabilities set, Cisco Unified Communications Manager chooses that codec for the call whenever possible.

**Step 2**
To configure wideband support for a specific device:

a) From Cisco Unified Communications Manager Administration, choose *Device > Phone.*

b) Set the Advertise G.722 and iSAC Codec parameter in the Product Specific Configuration area.

The default value of this product-specific parameter is to use the value that the enterprise parameter specifies. If you want to override this on a per-phone basis, choose **Enabled** or **Disabled**

Remote Configuration of Headset Parameters

You can remotely configure your Cisco Headsets settings for use with your on-premises phones. This is a convenient way to set up or modify the default headset settings.

Remote Configuration is supported by:

- Firmware Release 12.5(1) and later
- Cisco Unified Communications Manager Software Releases 11.0(1), 11.5(1), or 12.0(1).

Remote Configuration is supported on the following Cisco headsets:

- Cisco Headset 521 and 522
- Cisco Headset 531 and 532
- Cisco Headset 561 and 562

**Note**

The Bluetooth headset setting is enabled by default for use with Cisco Headset 561 and 562 with the Multibase. If you do not plan to use the Cisco Headset 561 and 562 with the Multibase, then we recommend that you download the JSON file, and disable the Bluetooth parameter.
Download the default headsetconfig.json sample file from the Cisco Headset 500 Series section of the Cisco Software Download website. The URL is http://software.cisco.com/download/navigator.html?mdfid=286320550. The JSON file is stored with headset Firmware Release 1.0(2).

Edit the sample file using a text editor, and install the revised file on Cisco Unified Communications Manager using the TFTP File Management tool. It takes 10 to 30-minute for the settings to be applied. Use the documentation included with the sample file to guide you.

For more information on the TFTP service, see the "Manage Device Firmware" chapter of the Administration Guide for Cisco Unified Communications Manager and IM and Presence Service.

Note the following as you work with the sample file:

- The settings aren't applied if you are missing a bracket or brackets in the code. Use an online tool such as JSON Formatter and check the format.
- Set the "updatedAt" setting to the current epoch time or the configuration is not applied.
- Confirm that firmwareName is LATEST or the configurations will not be applied.
- Do not change a parameter name or the setting will not be applied.

Use the information in the following table as a guide when configuring the headset parameters.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
<th>Default</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speaker Volume</td>
<td>0-15</td>
<td>7</td>
<td>-</td>
</tr>
<tr>
<td>Microphone Gain</td>
<td>0 (+6dB) - 4 (-6dB)</td>
<td>2</td>
<td>Gain controls how loud the user sounds to other people on the call.</td>
</tr>
<tr>
<td>Sidetone</td>
<td>0 (Off) - 3 (high)</td>
<td>1</td>
<td>Sidetone is the term for when you hear your own voice in your headset. Some people find it distracting to hear their own voice during a call, while other people want to know that their headset is working.</td>
</tr>
<tr>
<td>Equalizer</td>
<td>0 (Warmest) - 6 (Brightest)</td>
<td>3</td>
<td>If you like a headset with a lot of bass, then adjust toward the warm setting. If you prefer more treble, then adjust toward the bright setting.</td>
</tr>
</tbody>
</table>
### Connect a Headset to Your Phone

Each type of wired headset, adapter, or base connects to a phone using a different port and a different type of connector and cable. Common types include an RJ connector, a USB connector, and a Y-cable.

#### Connect a Standard Headset

You can use a standard headset with your desk phone. Standard headsets plug into the headset jack on the back of the phone with an RJ-type connector.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
<th>Default</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Bandwidth</td>
<td>1 (Narrow Band), 0 (Wide Band)</td>
<td>0</td>
<td>When you set the bandwidth to narrow, Standard Base and Multibase headsets are limited to the DECT codec G.726. Set the audio bandwidth to Narrow Band if your wireless headsets are used in a dense DECT environment.</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>0 (On), 1 (Off)</td>
<td>0</td>
<td>Bluetooth is only supported on Cisco Headset 561 and 562 with Multibase. If you do not plan to use Bluetooth, then we recommend that you disable this setting.</td>
</tr>
<tr>
<td>DECT Radio Range</td>
<td>0 (autorange), 1 (short range)</td>
<td>0</td>
<td>By default, the Standard Base and Multibase have a DECT range of over 100 feet (30 meters). If you configure the DECT radio range to short, the headset base consumes less power but users can't move as far from the base while on a call.</td>
</tr>
</tbody>
</table>
Failure to press the cable into the channel in the phone can damage the printed circuit board inside the phone. The cable channel reduces the strain on the connector and the printed circuit board.

**Procedure**

Plug the headset into the headset jack on the back of the phone. Press the cable into the cable channel.

---

**Connect a USB Headset**

When you use USB headsets with your phone, keep in mind the following:

- You can use only one headset at a time. The most-recently connected headset is the active headset.
- If you are on an active call and unplug a USB headset, the audio path does not change automatically. Press the **Speakerphone** button or pick up the handset to change the audio.

Your phone may have more than one USB port, depending upon your model. The Cisco IP Phone 8851 and 8851NR has one USB located on the side of the phone. The Cisco IP Phone 8861, 8865, and 8865NR have two USB ports, located on the back and side of the phone.

You may have to remove the plastic cover to access the side USB ports.

**Procedure**

Plug the USB headset connector into the USB port on the phone.
Connect a Cisco Standard Base with the Y-Cable

You can connect the standard base to your phone with the included Y-cable. But note that the Y-cable has two RJ-type connectors - one for the auxiliary or AUX port, and one for the headset port. You can distinguish between the two connectors by their size, as the AUX port connector is slightly larger than the headset port connector.

Caution
Failure to press the cable into the channel in the phone can damage the printed circuit board inside the phone. The cable channel reduces the strain on the connector and the printed circuit board.

Procedure

Step 1
Plug the smaller connector into the headset jack that is located on the back of the phone. Press the cable into the cable channel.

Step 2
Plug the larger cable into the AUX port located next to the headset port.

Connect the Multibase to a Bluetooth Device

The Cisco Headset 560 Series with Multibase can connect to Bluetooth devices such as a mobile phone or tablet. The headset base appears on your call device as Cisco Headset followed by the last three digits on your headset serial number.

Note
You can find your headset serial number in the lower right corner on the underside of your base.

Procedure

Step 1
Press the Bluetooth button on the back of the multibase twice to start pairing.

Step 2
Select your headset from the Settings menu on your device.

The Bluetooth LED lights white when pairing is successful.

Disconnect the Multibase from a Bluetooth Device

You can disconnect your Multibase from its paired Bluetooth call device.

Procedure

Step 1
Press the Bluetooth button on the back of the base once. The LED may take a moment to turn off.
Change the Bluetooth Device Connected to Your Multibase

The multibase only remembers one Bluetooth device at a time.

Procedure

Step 1  Press and hold the Bluetooth button on the back of the multibase for four seconds to clear the memory.

Step 2  After the Bluetooth LED starts to slowly pulse, press the Bluetooth button twice to search for Bluetooth devices.

Step 3  Select your headset from the Settings menu on your device.

Postpone a Phone Upgrade

When new firmware is available, the New firmware available window is displayed on your phone and a timer begins a 30-second countdown. If you do nothing, the upgrade proceeds.

You can postpone your firmware upgrade for 2 hours and up to 3 times. The upgrade is also postponed if you make or receive a phone call.

Once the upgrade is complete, the headset restarts, and you are prompted to configure your settings.

Procedure

Select Postpone to postpone a firmware upgrade.

Cisco Headset Customization

Some Cisco 500 series headsets are available with a USB adapter that allows you to customize your settings. The headset retains the settings when you switch phones.

You can customize your headset settings if you have one of the following Cisco headsets:

- Cisco Headset 521 and 522
- Cisco Headset 531 and 532
**Adjust Your Bass and Treble**

You can adjust the bass and treble to customize the headset sound. If you like a headset with a lot of bass, then adjust toward the warm setting. If you prefer more treble, then adjust toward the bright setting.

**Procedure**

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Press Applications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Select Accessories and then your headset.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Navigate Setup &gt; Speaker &gt; Tuning.</td>
</tr>
<tr>
<td>Step 4</td>
<td>Press the Navigation cluster left, or right, to adjust the tuning.</td>
</tr>
</tbody>
</table>

**Adjust Your Speaker Sidetone**

Sidetone is the term for when you hear your own voice in your headset. Some people find it distracting to hear their own voice during a call, while other people want to know that their headset is working.

**Procedure**

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Press Applications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Select Accessories and then your headset.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Navigate Setup &gt; Speaker &gt; Sidetone.</td>
</tr>
<tr>
<td>Step 4</td>
<td>Press the Navigation cluster up or down to adjust the sidetone.</td>
</tr>
<tr>
<td>Step 5</td>
<td>Select Set to apply your settings.</td>
</tr>
</tbody>
</table>

**Adjust Your Microphone Volume**

Microphone volume is also known as gain, and this setting controls how loud you are to other people on the call.

**Procedure**

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Press Applications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Select Accessories and then your headset.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Navigate Setup &gt; Microphone &gt; Gain.</td>
</tr>
<tr>
<td>Step 4</td>
<td>Press the Navigation cluster, left or right, to adjust the gain.</td>
</tr>
</tbody>
</table>
Test Your Microphone

Check your microphone when you first install it, and before you begin a call.

Procedure

Step 1  Press Applications.
Step 2  Select Accessories and then your headset.
Step 3  Navigate to Setup > Microphone > Test.
Step 4  Press Record and speak into the microphone.
Step 5  Press Stop rec when you finish speaking.
Step 6  Press Play to review your test recording.

Configure a Headset on the Phone

After you have connected the headset, you may have to configure it on your phone.

If you have a Cisco headset with a USB adapter, then follow the steps in Cisco Headset Customization, on page 28.

Adjust the Headset Feedback

When you use a headset, you can hear your own voice in the earpiece, which is called headset sidetone or headset feedback. You can control the amount of headset sidetone on your phone.

Procedure

Step 1  Press Applications.
Step 2  Select Settings > Headset sidetone.
Step 3  Select a setting.

Turn Bluetooth On or Off

When Bluetooth is active, the Bluetooth icon appears in the phone screen header.

Procedure

Step 1  Press Applications.
Add a Bluetooth Headset

Procedure

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Make your Bluetooth headset discoverable.</td>
</tr>
<tr>
<td>2</td>
<td>Press Applications.</td>
</tr>
<tr>
<td>3</td>
<td>Select Bluetooth &gt; Add Bluetooth device. Your phone searches for discoverable accessories.</td>
</tr>
<tr>
<td>4</td>
<td>Select your headset and press Connect.</td>
</tr>
<tr>
<td>5</td>
<td>(Optional) If prompted, enter the PIN for your headset.</td>
</tr>
</tbody>
</table>

Disconnect a Bluetooth Headset

You should disconnect your Bluetooth headset before you use it with another device.

Procedure

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Press Applications.</td>
</tr>
<tr>
<td>2</td>
<td>Select Bluetooth.</td>
</tr>
<tr>
<td>3</td>
<td>Select a Bluetooth headset.</td>
</tr>
<tr>
<td>4</td>
<td>Press Disconnect.</td>
</tr>
</tbody>
</table>

Remove a Bluetooth Headset

Remove your Bluetooth headset if you aren't going to use it with your phone again.

Procedure

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Press Applications.</td>
</tr>
<tr>
<td>2</td>
<td>Select Bluetooth.</td>
</tr>
<tr>
<td>3</td>
<td>Select a Bluetooth headset and press Delete.</td>
</tr>
</tbody>
</table>
Set Up a Wideband Standard Headset

You can use a headset that supports wideband audio. Wideband audio improves the quality of the sound you hear in the headset.

**Procedure**

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Press Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Select Accessories &gt; Analog headset &gt; Setup.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Press On or Off to enable or disable wideband for the analog headset.</td>
</tr>
<tr>
<td>Step 4</td>
<td>Press Return</td>
</tr>
</tbody>
</table>

Enable an E-Hookswitch Headset

Electronic Hookswitch headsets use a base station and a wireless headset. The base station plugs into your phone headset jack. After installing the headset, you enable it on the Cisco Unified Communications Manager.

**Procedure**

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Press Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Navigate to Settings &gt; E-Hookswitch connected.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Select Yes.</td>
</tr>
</tbody>
</table>

Make a Call with a Standard Headset

Use your headset for hands-free calling that won't disturb your coworker and gives you some privacy.

**Procedure**

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Plug in a headset.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Enter a number using the keypad.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Press Headset</td>
</tr>
</tbody>
</table>

Audio Path Selection

When you make or receive a call, the audio path goes to the last device used by you, either the handset, the headset, or the speakerphone. The following list describes each scenario:
• Pick up the handset when you make or answer a call, and all of your calls are routed to your handset until you select **Headset** or **Speakerphone**.

• Select **Headset** when you make or answer a call, and all of your calls are routed to your headset until you pick up the handset or select **Speakerphone**.

If your administrator sets your headset as the audio path on your phone, then you can remove the handset and use your headset. This is ideal for anyone who prefers the convenience of a headset. But you must still select **Headset** the first time you handle a call.

• Select **Speakerphone** when you make or answer a call, and all of your calls are routed to your speakerphone until you pick up the handset or select **Headset**.

### Swap Headsets While on a Call

You can connect an analog headset, a Bluetooth headset, and a USB headset simultaneously to your phone. However, you can use only one headset at a time.

When you connect multiple headsets to the phone, you can switch among the headsets during a call by pressing the **Headset** key on the phone. Though the phone is connected to multiple devices, you see a specific headset selected as the preferred audio device in the following priority order:

- When you connect a USB headset, a Bluetooth, and an analog headset to the phone, you can make your USB headset the preferred audio device.

- When you connect a Bluetooth and an analog headset to the phone, you can make your Bluetooth device the preferred audio device. The Bluetooth headset takes priority over wired headset, so audio is sent or received from Bluetooth headset and there will be no audio on wired headset.

- When you connect only an analog headset to the phone, you make your analog headset the preferred audio device.

### Procedure

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Before you make or answer a call, press <strong>Headset</strong>.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>(Optional) If you place a call, dial the number.</td>
</tr>
</tbody>
</table>

### Troubleshoot Your Cisco Headset

Try the following basic troubleshooting steps if you have trouble with your Cisco headset.

- Restart your headset.

- Make sure that all cords are properly plugged in and functioning properly.

- Test a different headset with your device to determine if the problem is with your wireless headset or your device.
• Make sure that your phone firmware is the latest release.

Confirm that Your Headset Is Registered

Procedure

Check to see if your headset is registered with the phone.

Step 1 Press Applications.
Step 2 Navigate to Accessories. Select Show detail.

No Sound in Headset

Problem
There is little or no sound coming through the headset.

Solution
Check the volume level on your headset by pressing the volume controls to adjust the sound level. If the problem continues, use the following workflow to troubleshoot your problem.

Figure 13: No Audio Workflow
**Poor Audio**

**Problem**
Your headset is functioning, but the audio quality is poor.

**Solution**
Use the following workflow to troubleshoot your problem.

*Figure 14: Poor Audio*

![Flowchart](image)

**Microphone Not Picking up Sound**

**Problem**
You cannot be heard when using your headset.

**Solutions**
- Check to make sure your microphone is not muted. Press the mute button on your headset to mute and unmute your microphone.
- Make sure that the microphone boom has been lowered. For optimal sound, keep the headset microphone no further than 1 in or 2.5 cm from your face.
- Make sure that your headset is properly plugged into your device.
- Check that you are not taking your headset too far from the headset base. The headset has an effective range of approximately 100 feet or 30 meters.

**Headset Not Charging**

**Problem**
Your Cisco Headset 561 and 562 is not charging when placed on the base.

**Solution**
- Check that your base is plugged into a reliable power source.
• Make sure that your headset is properly seated on the base. When the headset is properly seated, the LED shows solid white. When charging, the LEDs on the base light up in sequence from left to right. When the headset is fully charged, all five battery indicator LEDs show solid white.

Headset Battery Not Holding a Charge

Problem
The wireless headset is not holding a full charge.

Solution
Your Cisco Headset 561 and 562 holds a charge for up to 8 hours of continuous use. If your headset battery seems weak or defective, contact Cisco support.
Key Expansion Modules

- Cisco IP Phone Key Expansion Module Setup Overview, on page 37
- Set up the Key Expansion Module in Cisco Unified Communications Manager, on page 40
- Wallpaper and Key Expansion Modules, on page 41
- Column Mode for the Cisco IP Phone 8800 Key Expansion Module, on page 41
- Connect a Key Expansion Module to a Cisco IP Phone, on page 43
- Key Expansion Module Buttons, on page 47
- Access Key Expansion Module Setup, on page 48
- Place a Call on the Key Expansion Module, on page 49
- Adjust the Key Expansion Module Screen Brightness, on page 49
- Reset the Single LCD Screen Key Expansion Module, on page 50
- Reset the Dual LCD Screen Key Expansion Module, on page 50
- Troubleshoot the Key Expansion Module, on page 50
- Key Expansion Module Power Information, on page 51

Cisco IP Phone Key Expansion Module Setup Overview

Key expansion modules add extra line appearances, speed dials, or programmable buttons to the phone. The programmable buttons can be set up as phone line buttons, speed-dial buttons, or phone feature buttons. But Simplified dialing is not supported on expansion modules.

Caution

The slots in the side of the phone are designed only for use with the spine connectors on the key expansion module. Insertion of other objects permanently damages the phone.

There are 3 expansion modules available:

- Cisco IP Phone 8800 Key Expansion Module—Single LCD screen module, 18 line keys, 2 pages, configure with one or two column displays.

- Cisco IP Phone 8851/8861 Key Expansion Module—Dual LCD screen module for audio phones, 14 line keys, 2 pages, configure with one-column display only. If you use Enhanced line mode, and you receive a call on a key expansion line, then a Call Alert displays on the phone, and the Caller ID displays on the expansion module line.
• Cisco IP Phone 8865 Key Expansion Module—Dual LCD screen module for video phones, 14 line keys, 2 pages, configure with one-column display only. If you receive a call on a key expansion line, then a Call Alert displays on the phone, and the Caller ID displays on the expansion module line.

The Cisco IP Phone 8851/8861 Key Expansion Module and the Cisco IP Phone 8865 Key Expansion Module require firmware release 12.0(1) or later, and Cisco Unified Communications Manager 10.5(2) or later to function. Enhanced line mode (ELM) is supported only on the Cisco IP Phone 8851/8861 Key Expansion Module and the Cisco IP Phone 8865 Key Expansion Module. ELM is not supported on the single LCD expansion modules.

You can use more than one expansion module per phone. The Cisco IP Phone 8851 and 8851NR support up to 2 modules. The Cisco IP Phone 8861, 8865, and 8865NR support up to 3 modules. But each module must be the same type. This means that you cannot mix audio expansion modules with video expansion modules. You also cannot use a video expansion module on an audio phone or an audio expansion module on a video phone.

Most calling features are supported on your expansion module, and they are configured by your administrator from the Cisco Unified Communications Manager. If a feature is available on the Self Care Portal, then you can add the feature to your expansion module.

When adding features to your expansion module, remember that each line button supports only one feature. You cannot add more features than the number of programmable line keys on your expansion module.

Also note the line mode when working with a key expansion module. In Session line mode, the first line key on the expansion module is line 6 of the phone template. In Enhanced line mode, it is line 11 of the phone template. Only the first 25 characters are displayed on a line.

Table 16: Available Line Keys in Each Session Mode

<table>
<thead>
<tr>
<th>Cisco IP Phone Model</th>
<th>Single LCD screen expansion module</th>
<th>Dual LCD screen expansion module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco IP Phone 8851 and 8851NR</td>
<td>Session Line Mode: 77</td>
<td>Session Line Mode: 61</td>
</tr>
<tr>
<td></td>
<td>Enhanced Line Mode: Not supported</td>
<td>Enhanced Line Mode: 66</td>
</tr>
<tr>
<td>Cisco IP Phone 8861</td>
<td>Session Line Mode: 113</td>
<td>Session Line Mode: 89</td>
</tr>
<tr>
<td>Cisco IP Phone 8865 and 8865NR</td>
<td>Enhanced Line Mode: Not supported</td>
<td>Enhanced Line Mode: 94</td>
</tr>
</tbody>
</table>
Figure 15: Cisco IP Phone 8865 with Three Cisco IP Phone 8865 Key Expansion Modules

Figure 16: Cisco IP Phone 8861 with Three Cisco IP Phone 8800 Key Expansion Modules

Related Topics
Accessory Support, on page 2
Set up the Key Expansion Module in Cisco Unified Communications Manager

Expansion modules are enabled from the Expansion Module Information area of the Phone Configuration page on Cisco Unified Communications Manager. If you configure the expansion module incorrectly, an error message displays on the phone. You cannot configure the phone for a dual LCD module and then install a single LCD module. But your choice of expansion module is not permanent. You can configure another module if your needs change.

Before you begin
As a best practice, enable power negotiation on both the switch and the phone. This ensures that the expansion module powers up.

Procedure

Step 1
In Cisco Unified Communications Manager Administration, choose **Device > Phone**.
The Find and List Phones window appears. You can search for one or more phones that you want to configure for the Cisco IP Phone 8800 Key Expansion Module.

Step 2
Select and enter your search criteria and click **Find**.
The Find and List Phones window appears with a list of phones that match your search criteria.

Step 3
Click the phone that you want to configure for the Cisco IP Phone 8800 Key Expansion Module. The Phone Configuration window appears.

Step 4
If you have an expansion module with a single LCD screen, scroll down to the Product Specific Configuration area. Enable the One Column Display for KEM field for one-column mode, or disable the field for two-column mode.

Step 5
Scroll down to the Expansion Module Information section. Select the appropriate expansion module for the Module 1 field.
Depending upon your phone, your choices may include:
- **CP-8800-Video 28 Button Key Expansion Module**
- **CP-8800-Audio 28 Button Key Expansion Module**
- **BEKEM 36-Button Line Expansion Module**

Step 6
(Optional) Depending upon your phone model, you can add extra expansion modules. Repeat the previous step for Module 2, and Module 3.

Step 7
Click **Save**.

Step 8
Select **Apply Config**.

Step 9
Restart the phone.
Wallpaper and Key Expansion Modules

When you select one of the Cisco wallpapers for use on your Cisco IP Phone 8800 Series, the wallpaper also displays on the dual LCD key expansion module. This enhancement provides a consistent look across both devices and it replaces the default wallpaper supported by previous releases.

Custom background images may not be supported.

This feature is supported on the following key expansion modules:

- Cisco IP Phone 8851/8861 Key Expansion Module
- Cisco IP Phone 8865 Key Expansion Module

Change the Wallpaper

Your administrator may allow you to change the wallpaper on your phone.

Procedure

**Step 1**
Press **Applications**.

**Step 2**
Select **Settings > Wallpaper**.

**Step 3**
Select a wallpaper option and perform any of the steps:
- Press **Preview** to see the wallpaper on your phone screen.
- Press **Set** to apply the wallpaper to the phone.

**Step 4**
Press **Exit**.

Column Mode for the Cisco IP Phone 8800 Key Expansion Module

If you are using the Cisco IP Phone 8800 Key Expansion Module, you can set it up in one-column mode or two-column mode. Set your mode from the Product Specific Configuration area of your Cisco Unified Communications Manager Administration. Two-column mode is the default on the Cisco IP Phone 8800 Key Expansion Module.

The Cisco IP Phone 8851/8861 Key Expansion Module and the Cisco IP Phone 8865 Key Expansion Module do not support two-column mode.

**Note**
If the label is longer than the display space in both one- and two-column mode, the text contains an ellipsis (…).
One-Column Mode

In one-column mode, each row in the display corresponds to one line accessed by either the left or right-side buttons. In this configuration, the key expansion module displays 9 lines on page 1, and 9 lines on page 2.

Figure 17: A Cisco IP Phone 8800 Key Expansion Module in One Column Mode

Two-Column Mode

In two-column mode, each of the buttons on the left and right of the screen is assigned to different lines. In this configuration, the key expansion module displays 18 lines on page 1, and 18 lines on page 2.

Figure 18: A Cisco IP Phone 8800 Key Expansion Module in Two Column Mode
Connect a Key Expansion Module to a Cisco IP Phone

If you want to install more than one key expansion module, you repeat steps 7-9 to connect the other key expansion modules together.

Procedure

Step 1  Unplug the Ethernet cable from the phone.
Step 2  If installed, remove the footstand from the phone.
Step 3  Locate the accessory connector covers on the side of the phone.
        This diagram shows the location.
        ![Diagram showing the location of the accessory connector covers]

Step 4  Remove the two accessory connector covers, as shown in the diagram.
Caution  The slots are designed for the spine connector only. Insertion of other objects will cause permanent damage to the phone.

Step 5  Position the phone so that the front of the phone faces up.

Step 6  Connect one end of the key expansion module spine connector to the accessory connector on the Cisco IP Phone.

  a) Align the spine connector with the accessory connector ports.

  Note  Install the connector in the orientation shown in the following diagrams.

  b) Firmly press the spine connector into the phone.

This diagram shows the spine connector.

This diagram shows the installation of the spine connector.
Step 7  Connect the other end of the spine connector to the key expansion module as shown in this diagram.
   a)  Align the spine connector with the key expansion module accessory connector ports.
   b)  Firmly press the key expansion module into the spine connector.
Step 8 (Optional) Use a second key expansion module spine connector to connect the second key expansion module to the first key expansion module.

Step 9 (Optional) Use a third key expansion module spine connector to connect the third key expansion module to the second key expansion module.

Step 10 Use a screwdriver to fasten the screws into the phone.

This step ensures that the phone and key expansion module remain connected at all times. This diagram shows the location of the screw holes on the phone and one key expansion module.
Note: Make sure that the screws are fully inserted into the phone and tightened.

Step 11 (Optional) Install the footstands on the phone and on the key expansion module, and adjust both footstands to rest evenly on the work surface.

Step 12 Plug the Ethernet cable into the phone.

---

**Key Expansion Module Buttons**

The following figure and table describes the function and appearance of the buttons on the key expansion module.

*Figure 19: Key Expansion Module Buttons*
Table 17: Placement and Function of Key Expansion Module Buttons

<table>
<thead>
<tr>
<th>Button Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD screen</td>
<td>Displays the phone number, speed-dial number (or name or other text label), phone service, phone feature, or privacy assigned to each button. Icons that indicate line status resemble (in both appearance and function) the icons on the phone to which the key expansion module is attached.</td>
</tr>
<tr>
<td>Lighted buttons</td>
<td>Line buttons. Each button or pair of buttons corresponds to one line. The lights beneath each button indicate the state of the corresponding line as follows:</td>
</tr>
<tr>
<td>1</td>
<td>Light off—Line available or a call is ringing on an inactive page.</td>
</tr>
<tr>
<td>1</td>
<td>Green steady—Line in use by you, or you have a call on hold.</td>
</tr>
<tr>
<td>1</td>
<td>Green, flashing—Enhanced line mode only. You have a call on hold.</td>
</tr>
<tr>
<td>1</td>
<td>Red steady—Line in use by someone else or someone else has a call on hold on a shared line.</td>
</tr>
<tr>
<td>1</td>
<td>Red, flashing—Enhanced line mode only. Someone else has a call on hold on a shared line.</td>
</tr>
<tr>
<td>1</td>
<td>Amber steady—Line ringing.</td>
</tr>
<tr>
<td>1</td>
<td>Amber, flashing—Enhanced line mode only. Line ringing.</td>
</tr>
<tr>
<td>Page buttons</td>
<td>2 buttons. The button for page 1 is labeled as 1 and the button for page 2 is labeled as 2. The lights in each button indicate the state of the page as follows:</td>
</tr>
<tr>
<td>2</td>
<td>Green steady—Page is in view.</td>
</tr>
<tr>
<td>2</td>
<td>Light off—Page is not in view.</td>
</tr>
<tr>
<td>2</td>
<td>Amber steady—Page is not in view with one or more alerting calls on the page.</td>
</tr>
</tbody>
</table>

Access Key Expansion Module Setup

After you install one or more key expansion modules on the phone and configure them in Cisco Unified Communications Manager Administration, the phone automatically recognizes the key expansion modules.

When multiple key expansion modules are attached, they are numbered according to the order in which they connect to the phone:

- Key expansion module 1 is the expansion module closest to the phone.
- Key expansion module 2 is the expansion module in the middle.
- Key expansion module 3 is the expansion module farthest to the right.
You can select a key expansion module, and then choose one of the following softkeys:

- Exit: Returns to the Applications menu.
- Details: Provides details about the selected key expansion module.
- Setup: Allows you to configure the brightness of the selected key expansion module. Setting the brightness can also be done using the Preferences menu on the phone.

Procedure

Step 1
On the phone, press Applications.

Step 2
Press Accessories.

All properly installed and configured key expansion modules display in the list of accessories.

Place a Call on the Key Expansion Module

Procedure

Step 1
Press the line button on the key expansion module.

Step 2
Dial a phone number.

Step 3
Pick up your handset.

Adjust the Key Expansion Module Screen Brightness

Procedure

Step 1
Press Applications.

Step 2
Select Settings > Brightness > Brightness - Key expansion module x, where x is the number of the key expansion module.

Step 3
Press right on the Navigation pad to increase brightness. Press left on the Navigation pad to decrease brightness.

Step 4
Press Save.
Reset the Single LCD Screen Key Expansion Module

If you are having technical difficulties with your Cisco IP Phone 8800 Key Expansion Module, you can reset the module to the factory default settings.

**Procedure**

1. Restart the key expansion module by disconnecting the power source, waiting a few seconds, and then reconnecting it.
2. As the key expansion module powers up, press and hold **Page 1**. As the LCD screen turns white, continue pressing **Page 1** for at least one second.
3. Release **Page 1**. The LEDs turn red.
4. Immediately press **Page 2** and continue pressing **Page 2** for at least one second.
5. Release **Page 2**. The LEDs turn amber.
6. Press Lines 5, 14, 1, 18, 10, and 9 in sequence.
   The LCD screen turns blue. A spinning icon is displayed in the center of the screen.
   The key expansion module resets.

Reset the Dual LCD Screen Key Expansion Module

If you are having technical difficulties with your dual LCD screen key expansion module, you can reset the module to the factory default settings. This task applies only to the Cisco IP Phone 8865 Key Expansion Module and the Cisco IP Phone 8851/8861 Key Expansion Module.

**Procedure**

1. Restart the module by disconnecting it and then reconnecting it to the phone.
2. As the module powers up, hold down both of the page keys until the LEDs on the first 7 line keys turn green.

Troubleshoot the Key Expansion Module

**Procedure**

1. Open a CLI.
2. Enter the following command to enter debug mode:
   ```bash
debugsh
   ```
Step 3
Enter ? to see all available commands and options.

Step 4
Use the applicable commands and options to find the desired information.

Step 5
To exit debug mode, press Ctrl-C.

Key Expansion Module Power Information

If you use a key expansion module with your phone, then Power over Ethernet (PoE) is often enough to power your expansion modules. But a power cube is required for a Cisco IP Phone 8851/8861 Key Expansion Module or a Cisco IP Phone 8865 Key Expansion Module supported by 802.3af PoE. A power cube is also needed for smartphone or tablet charging when your expansion module is attached.

**Cisco IP Phone 8800 Key Expansion Module Power Consumption**

48V DC, 5W per key expansion module

**Cisco IP Phone 8851/8861 Key Expansion Module and Cisco IP Phone 8865 Key Expansion Module Power Consumption**

48V DC, 3.5W per key expansion module

**Cisco IP Phone 8800 Key Expansion Module, Cisco IP Phone 8851/8861 Key Expansion Module, and Cisco IP Phone 8865 Key Expansion Module Power Scheme**

The phone can power one key expansion module directly. For more information, see the Power-Supply Compatibility Table.

If you are charging a smartphone or a tablet, the side USB draws up to 500mA/2.5W.

### Table 18: Power-Supply Compatibility Table

<table>
<thead>
<tr>
<th>Configuration</th>
<th>802.3af Power over Ethernet (PoE)</th>
<th>802.3at PoE</th>
<th>Cisco IP Phone Power Cube 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>8851 and 1 expansion module</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>8851 and 2 expansion modules</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>8861 and 1 expansion module</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>8861 and 2 expansion modules</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>8861 and 3 expansion modules</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>8865 and 1 expansion module</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>8865 and 2 expansion modules</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Cisco IP Phone Power Cube 4802.3at PoE

<table>
<thead>
<tr>
<th>Configuration</th>
<th>802.3af Power over Ethernet (PoE)</th>
<th>802.3at PoE</th>
<th>Cisco IP Phone Power Cube 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>8865 and 3 expansion modules</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Note

Be familiar with the following items:

- Cisco IP Phone 8861 using 802.3at PoE: The fast-charging feature on the back USB is not supported when more than one expansion module is used.

- Cisco IP Phone 8865: The fast-charging feature on the back USB requires Cisco Universal PoE (UPoE) when more than one expansion module is attached.

- Cisco IP Phone 8851 with 2 expansion modules: 802.3at PoE is supported only with v08 or later hardware. You can find the phone version information on the lower back of the phone as part of the TAN and PID label. Version information is also located on the individual phone packaging.
Wall Mount Kits

Each wall mount is unique to your phone model and cannot be used for another phone. If you are planning to attach your phone to a wall, purchase the wall mount kit specific to your phone.


To check which phone model you have, press Applications and select Phone information. The Model number field shows your phone model.

Table 19: Wall Mount Kits

<table>
<thead>
<tr>
<th>Cisco IP Phone</th>
<th>Cisco Wall Mount Kit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco IP Phone 7811</td>
<td>Spare Wallmount Kit for Cisco IP Phone 7811 (CP-7811-WMK=)</td>
<td></td>
</tr>
<tr>
<td>Cisco IP Phone 7821 and 7841</td>
<td>Spare Wallmount Kit for Cisco IP Phone 7800 Series (CP-7800-WMK=)</td>
<td></td>
</tr>
<tr>
<td>Cisco IP Phone 7861</td>
<td>Spare Wallmount Kit for Cisco IP Phone 7861 (CP-7861-WMK=)</td>
<td></td>
</tr>
<tr>
<td>Cisco IP Phone 8811 and 8841</td>
<td>Spare Wallmount Kit for Cisco IP Phone 8800 Series (CP-8800-WMK)</td>
<td></td>
</tr>
</tbody>
</table>
Cisco IP Phone 8851, 8851NR, and 8861

<table>
<thead>
<tr>
<th>Cisco IP Phone</th>
<th>Cisco Wall Mount Kit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco IP Phone 8851, 8851NR, and 8861</td>
<td>Spare Wallmount Kit for Cisco IP Phone 8800 Series (CP-8800-WMK)</td>
<td>This wall mount kit cannot be used with a key expansion module.</td>
</tr>
<tr>
<td></td>
<td>Spare Wallmount Kit for Cisco IP Phone 8800 Series with Single 36-key Key Expansion Module (CP-8800-BEKEM-WMK)</td>
<td>This wall mount kit is available for Cisco IP Phone 8851, 8851NR, and 8861 because only these phones support a key expansion module.</td>
</tr>
<tr>
<td></td>
<td>Spare Wallmount Kit for Cisco IP Phone 8800 Series with Single 28-key Key Expansion Module (lockable) (CP-8800-A-KEM-WMK)</td>
<td>This wall mount kit is available for Cisco IP Phone 8851, 8851NR, and 8861 that with a key expansion module. It is lockable.</td>
</tr>
</tbody>
</table>

Cisco IP Phone 8845, 8865, and 8865NR

<table>
<thead>
<tr>
<th>Cisco IP Phone</th>
<th>Cisco Wall Mount Kit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cisco IP Phone 8845, 8865, and 8865NR</td>
<td>Spare Wallmount Kit for Cisco IP Phone 8800 Video Series (CP-8800-VIDEO-WMK=)</td>
<td>This wall mount kit is available for Cisco IP Phone 8845, 8865, and 8865NR only. It can be locked, but it cannot be used with a key expansion module.</td>
</tr>
</tbody>
</table>

### Related Topics

Accessory Support, on page 2

### Wall Mount Components

You can attach a wall mount kit to most surfaces, including concrete, brick, or other hard surfaces. But the items in your wall mount kit are for drywall use only. If you mount your phone on other surfaces, obtain the appropriate screws and anchors.

Check and see that you have the correct components before you install your kit. For each phone model, use the table and diagram to check the contents of your wall mount kit.

#### Spare Wall Mount Kit for Cisco IP Phone 7811

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4 M4 x 25-mm Phillips-head screws</td>
</tr>
<tr>
<td>B</td>
<td>4 anchors</td>
</tr>
<tr>
<td>C</td>
<td>2 M3 x 7-mm self-tapping screws</td>
</tr>
<tr>
<td>D</td>
<td>1 wall bracket</td>
</tr>
<tr>
<td>E</td>
<td>1 phone bracket</td>
</tr>
<tr>
<td>F</td>
<td>One 200-mm Ethernet cable</td>
</tr>
</tbody>
</table>
### Figure 20: Components of Spare Wall Mount Kit for Cisco IP Phone 7811

![Components of Spare Wall Mount Kit for Cisco IP Phone 7811](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4 M8-18 x 1.25-inch Phillips-head screws</td>
</tr>
<tr>
<td>B</td>
<td>4 anchors</td>
</tr>
<tr>
<td>C</td>
<td>2 M2.5 x 6-mm machine screws</td>
</tr>
<tr>
<td>D</td>
<td>1 phone bracket</td>
</tr>
<tr>
<td>E</td>
<td>1 wall bracket</td>
</tr>
<tr>
<td>F</td>
<td>One 6-inch Ethernet cable</td>
</tr>
</tbody>
</table>

### Figure 21: Components of Spare Wall Mount Kit for Cisco IP Phone 7800 Series

![Components of Spare Wall Mount Kit for Cisco IP Phone 7800 Series](image)

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4 M4 x 25-mm Phillips-head screws</td>
</tr>
</tbody>
</table>
### Spare Wall Mount Kit for Cisco IP Phone 7861

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>4 anchors</td>
</tr>
<tr>
<td>C</td>
<td>2 M3 x 7-mm self-tapping screws</td>
</tr>
<tr>
<td>D</td>
<td>1 phone bracket</td>
</tr>
<tr>
<td>E</td>
<td>1 wall bracket</td>
</tr>
<tr>
<td>F</td>
<td>One 200-mm Ethernet cable</td>
</tr>
</tbody>
</table>

*Figure 22: Components of Spare Wall Mount Kit for Cisco IP Phone 7861*

### Spare Wall Mount Kit for Cisco IP Phone 8800 Series

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4 #8-18 x 1.25-inch Phillips-head screws</td>
</tr>
<tr>
<td>B</td>
<td>4 anchors</td>
</tr>
<tr>
<td>C</td>
<td>2 K30x8mm self-tapping screws</td>
</tr>
<tr>
<td>D</td>
<td>1 phone bracket</td>
</tr>
<tr>
<td>E</td>
<td>1 wall bracket</td>
</tr>
<tr>
<td>F</td>
<td>One 6-inch Ethernet cable</td>
</tr>
</tbody>
</table>
Spare Wall Mount Kit for Cisco IP Phone 8800 Series with Single 28-key Key Expansion Module (Lockable)

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>6 #8-18 x 1.25-inch Phillips-head screws</td>
</tr>
<tr>
<td>B</td>
<td>6 anchors</td>
</tr>
<tr>
<td>C</td>
<td>3 K30x8mm self-tapping screws</td>
</tr>
<tr>
<td>D</td>
<td>1 phone bracket</td>
</tr>
<tr>
<td>E</td>
<td>1 wall bracket</td>
</tr>
<tr>
<td>F</td>
<td>One 6-inch Ethernet cable</td>
</tr>
<tr>
<td>G</td>
<td>1 key if the bracket includes the optional lock</td>
</tr>
</tbody>
</table>

Spare Wall Mount Kit for Cisco IP Phone 8800 Series with Single 36-key Key Expansion Module

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>6 #8-18 x 1.25-inch Phillips-head screws</td>
</tr>
</tbody>
</table>
### Spare Wall Mount Kit for Cisco IP Phone 8800 Series

<table>
<thead>
<tr>
<th>Item</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4 #10-12x1-inch Phillips-head screws with</td>
</tr>
<tr>
<td>B</td>
<td>4 anchors</td>
</tr>
<tr>
<td>C</td>
<td>2 #4-40x1/4-inch machine screws</td>
</tr>
<tr>
<td>D</td>
<td>1 phone bracket</td>
</tr>
<tr>
<td>E</td>
<td>1 wall bracket</td>
</tr>
<tr>
<td>F</td>
<td>One 6-inch Ethernet cable</td>
</tr>
<tr>
<td>G</td>
<td>1 key if the bracket includes the optional lock</td>
</tr>
<tr>
<td>H</td>
<td>1 sheet metal screw (not shown)</td>
</tr>
</tbody>
</table>

_Spare Wall Mount Kit for Cisco IP Phone 8800 Video Series_

---

**Figure 25: Components of Spare Wall Mount Kit for Cisco IP Phone 8800 Series with Single 36-key Key Expansion Module**
Install a Spare Wall Mount Kit

Make sure that a working Ethernet connection is available nearby before you install your wall mount kit. If the phone covers the connector, the connector must be flush or recessed to the wall.

Complete your installation in the following order:

- Attach the wall bracket to the wall
- Attach the phone bracket to the phone
- Attach the cables to the phone
- Attach the phone to the wall bracket

Attach the Wall Bracket to the Wall

Each wall mount kit is slightly different, so refer to the appropriate example when attaching the bracket to the wall.

Before you begin

Obtain one of each of the following:

- #2 Phillips-head screwdriver
- Level
- Pencil

Procedure

Step 1  Hold the bracket against the wall, with the arrow pointing up.
Step 2  Use the level to ensure that the bracket is level.
Step 3  Use a pencil to mark the screw holes.
Step 4 Center the anchor over the pencil mark and use a #2 Phillips-head screwdriver to press the anchor into the wall. Screw the anchor clockwise into the wall until it is seated flush.

Step 5 Use the included screws and the #2 Phillips-head screwdriver to attach the bracket to the wall through the anchors.

Examples of a Wall Bracket Attached to a Wall

The following diagram illustrates attaching a Cisco IP Phone 7800 and 8800 series wall bracket to a wall.
The following diagram illustrates attaching a Cisco IP Phone 8800 series wall bracket with a key expansion module to a wall.

The following diagram illustrates step 2 to step 5 of attaching a Cisco IP Phone 8845 and 8865 series wall bracket to a wall.
Attach the Phone Bracket to the Phone

Before you attach a phone to the wall, you attach the phone bracket to the phone. The phone bracket attaches the phone to the wall bracket, and it bears the weight of the phone. Ensure that the phone bracket is attached securely to your phone. Because each phone is slightly different, refer to the appropriate example to guide you.

Before you begin

Obtain a #1 Phillips-head screwdriver.
**Procedure**

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Keep the handset cord or headset cords attached, but remove any other cords from the phone base.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>Attach the phone bracket to the phone. Insert the tabs on the bracket into the mounting tabs on the back of the phone.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Use the #1 Phillips-head screwdriver to secure the phone bracket to the phone with the self-tapping or the machine screws.</td>
</tr>
</tbody>
</table>

**Examples of a Phone Bracket Attached to a Phone**

The following diagram illustrates how to attach a Cisco IP Phone 7800 and 8800 series phone to a phone bracket.

The following diagram illustrates how to attach a Cisco IP Phone 8845 and 8865 to a phone bracket.

The following diagram illustrates how to attach a phone bracket to a Cisco IP Phone 8800 series phone equipped with a key expansion module.
Attach the Cables to the Phone

Attach the phone cables to your phone before you mount the phone to the wall.

Procedure

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Attach the Ethernet cable to the 10/100/1000 SW network port and to the wall jack.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 2</td>
<td>(Optional) Attach the cable to the 10/100/1000 computer (PC access) port.</td>
</tr>
<tr>
<td>Step 3</td>
<td>(Optional) Plug the power cord into the phone and seat the cord in the clips next to the PC port.</td>
</tr>
<tr>
<td>Step 4</td>
<td>(Optional) If the cables terminate inside the wall bracket, connect the cables to the jacks.</td>
</tr>
</tbody>
</table>

Attach the Phone to the Wall Bracket

After you have installed your wall bracket on the wall, you attach your phone - with the phone bracket to it - to the wall bracket. Ensure that the phone fits securely into the wall bracket. Because each phone is slightly different, refer to the appropriate example to guide you.

Procedure

<table>
<thead>
<tr>
<th>Step 1</th>
<th>Insert the tabs on the top of the wall bracket into the slots on the phone bracket.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cables that terminate outside of the brackets can be positioned in the openings on the bracket bottom, with one cable per opening.</td>
</tr>
<tr>
<td>Step 2</td>
<td>Press the phone firmly into the wall bracket and slide the phone down. The tabs in the bracket click into position.</td>
</tr>
</tbody>
</table>
Examples of a Cisco IP Phone Attached to the Wall Bracket

The following diagram illustrates how to attach a Cisco IP Phone 7800 and 8800 series to your wall bracket.

The following diagram illustrates how to attach a Cisco IP Phone 8845 and 8865 to your wall bracket.

The following diagram illustrates how to attach a Cisco IP Phone 8800 series with a key expansion module to your wall bracket.
Remove the Phone from the Wall Mount Kit

The wall bracket has two tabs that lock the bracket to the phone mounting plate. These tabs must be released before you can remove the phone from the wall mount kit. Because each phone is slightly different, refer to the appropriate example to guide you.

Before you begin

Obtain two Phillips head screwdrivers or other similar devices that have a diameter of 5 millimeters or 3/16 inch.

Procedure

Step 1  Insert a screw driver or other device into the left and right holes in the phone mounting plate. Insert to a depth of about 3/4 inch or 2 centimeters.

Step 2  Press inwards firmly to disengage the tabs.

Step 3  Lift the phone to release it from the wall bracket and pull the phone toward you.

Examples of Disengaging the Locking Tabs

The following diagram illustrates how to disengage the locking tabs on the Cisco IP Phone 7800 and 8800 series.
The following diagram shows how to disengage the locking tabs on the Cisco IP Phone 8800 series with a key expansion module attached.

**Adjust the Handset Rest on Your Phone**

Each Cisco IP Phone comes with a small removeable tab located in the phone cradle. This tab determines how the phone handset sits in the cradle. If your phone is wall mounted or if the handset slips out of the cradle too easily, you may need to adjust how the handset rests on this tab.

**Before you begin**

Obtain a coin or other similar object with a thickness of about 1.75 mm or 0.069 inch.
**Procedure**

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Step 1</td>
<td>Remove the handset from the cradle. Place the edge of the coin in the space between the handset rest and the plastic tab. Remove the tab by quickly rotating the coin counterclockwise.</td>
</tr>
<tr>
<td>Step 2</td>
<td>Rotate the tab 180 degrees so the ridge points toward you and the smooth back faces down.</td>
</tr>
<tr>
<td>Step 3</td>
<td>Hold the tab between two fingers, with the corner notches facing you.</td>
</tr>
<tr>
<td>Step 4</td>
<td>Line up the tab with the slot in the cradle and press the tab evenly into the slot. An extension protrudes from the top of the rotated tab.</td>
</tr>
<tr>
<td>Step 5</td>
<td>Return the handset to the handset rest.</td>
</tr>
</tbody>
</table>
CHAPTER 5

Other Accessories

- Connect the Footstand, on page 69
- Secure the Phone with a Cable Lock, on page 69
- External Speakers and Microphone, on page 70

Connect the Footstand

If your phone is placed on a table or desk, connect the footstand to the back of the phone.

Procedure

**Step 1**  Insert the connectors into the slots.
**Step 2**  Press the footstand until the connectors snap into place.
**Step 3**  Adjust the angle of the phone.

Related Topics
  Accessory Support, on page 2

Secure the Phone with a Cable Lock

You can secure your Cisco IP Phone 8800 Series with a laptop cable lock up to 20 mm wide.

Procedure

**Step 1**  Take the looped end of the cable lock and wrap it around the object to which you want to secure your phone.
**Step 2**  Pass the lock through the looped end of the cable.
**Step 3**  Unlock the cable lock.
**Step 4**  Press and hold the locking button to align the locking teeth.
**Step 5**  Insert the cable lock into the lock slot of your phone and release the locking button.
Step 6

Lock the cable lock.

Related Topics

Accessory Support, on page 2

External Speakers and Microphone

External speakers and microphones are plug-and-play accessories. You can connect an external PC-type microphone and powered speakers (with amplifier) on the Cisco IP Phone by using the line in/out jacks. Connecting an external microphone disables the internal microphone and connecting an external speaker disables the internal phone speaker.

Note

Using poor quality external audio devices, playing loudspeakers at very loud volumes, or placing the microphone very close to the loudspeaker may result in undesirable echo for other parties on your speakerphone calls.

Related Topics

Accessory Support, on page 2
Product Safety and Security

• Safety and Performance Information, on page 71
• Compliance Statements, on page 72
• Cisco Product Security Overview, on page 74
• Important Online Information, on page 74

Safety and Performance Information

Power Outage

Your access to emergency service through the phone requires that the phone receive power. If a power interruption occurs, service or emergency calling service dialing does not function until power is restored. If a power failure or disruption occurs, you may need to reset or reconfigure the equipment before you can use service or emergency calling service dialing.

External Devices

We recommend that you use good-quality external devices that are shielded against unwanted radio frequency (RF) and audio frequency (AF) signals. External devices include headsets, cables, and connectors.

Depending on the quality of these devices and their proximity to other devices, such as mobile phones or two-way radios, some audio noise may still occur. In these cases, we recommend that you take one or more of these actions:

• Move the external device away from the source of the RF or AF signals.
• Route the external device cables away from the source of the RF or AF signals.
• Use shielded cables for the external device, or use cables with a better shield and connector.
• Shorten the length of the external device cable.
• Apply ferrites or other such devices on the cables for the external device.

Cisco cannot guarantee the performance of external devices, cables, and connectors.
Caution

In European Union countries, use only external speakers, microphones, and headsets that are fully compliant with the EMC Directive [89/336/EC].

Ways to Provide Power to Your Phone

• Use the power adapter that comes with your phone.

If you are not sure whether your network supports PoE, check with your administrator.

Phone Behavior During Times of Network Congestion

• Administrative tasks, such as an internal port scan or security scan
• Attacks that occur on your network, such as a Denial of Service attack

UL Warning

The LAN/Ethernet cable or other cables attached to the device should not be extended outside of the building.

Compliance Statements

Compliance Statements for the European Union

CE Marking

The following CE mark is affixed to the equipment and packaging.

Compliance Statements for Canada

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

Avis de Conformité Canadien

Le présent produit est conforme aux spécifications techniques applicables d'Innovation, Sciences et Développement économique Canada.
Compliance Statements for New Zealand

Permit to Connect (PTC) General Warning

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom’s network services.

Compliance Information for Japan

VCCI Compliance for Class B Equipment

“5.2/5.3GHz is limited to indoor use only in Japan”

FCC Compliance Statements

The Federal Communications Commission requires compliance statements for the following:

FCC Part 15.21 Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must be at least 20 cm from the user and must not be collocated or operating in conjunction with any other antenna or transmitter.

FCC Receivers and Class B Digital Statement

This product has been tested and complies with the specifications for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used according to the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which is found by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna
• Increase the separation between the equipment or devices
• Connect the equipment to an outlet other than the receiver's
• Consult a dealer or an experienced radio/TV technician for assistance
Cisco Product Security Overview

This product contains cryptographic features and is subject to U.S. and local country laws that govern import, export, transfer, and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute, or use encryption. Importers, exporters, distributors, and users are responsible for compliance with U.S. and local country laws. By using this product, you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately. Further information regarding U.S. export regulations can be found at https://www.bis.doc.gov/policiesandregulations/ear/index.htm.

Important Online Information

End User License Agreement
The End User License Agreement (EULA) is located here: https://www.cisco.com/go/eula

Regulatory Compliance and Safety Information
Regulatory Compliance and Safety Information (RCSI) is located here: