

# You make possible



## **Cisco IP Phone Update**

Best Practices and Collaboration Enablement

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BRKUCC-2050



Barcelona | January 27-31, 2020



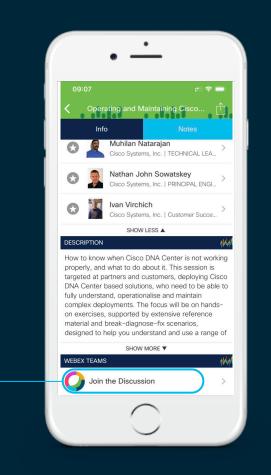
## **Cisco Webex Teams**

#### **Questions?**

Use Cisco Webex Teams to chat with the speaker after the session

#### How

- 1 Find this session in the Cisco Events Mobile App
- 2 Click "Join the Discussion" -
- 3 Install Webex Teams or go directly to the team space
- 4 Enter messages/questions in the team space



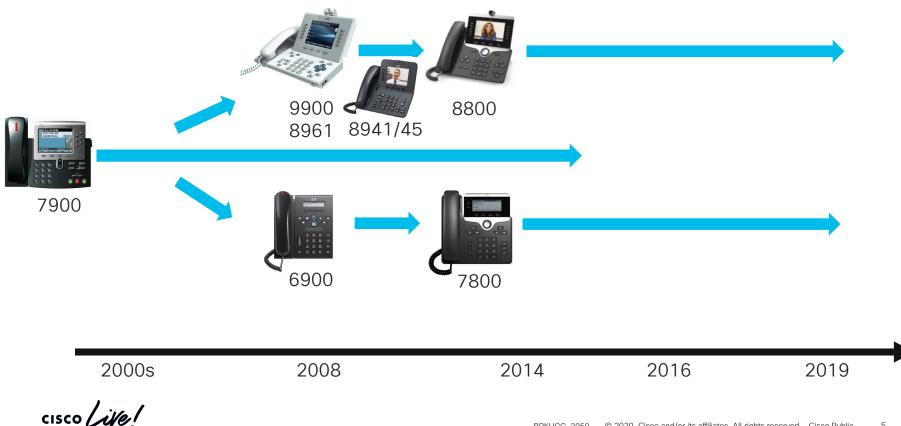
## Agenda

- Introduction
- User Experience and Firmware Updates for 7800/8800
- Cisco Headset 500 and 730 Series
- Cisco Conferencing Phone Updates
- Cisco Wireless IP Phone

cisco /

#### Evolution of 7800/8800

## A Short History of Cisco IP Phones



## Cisco IP Phone 7800 Series Key Features

	CP-7811	CP-7821	CP-7841	CP-7861
Replaceable Bezel	✓	~	~	×
Screen	384 x 106 Mono (3.28")	396 x 162 Mono (3.5")	396 x 162 Mono (3.5")	396 x 162 Mono (3.5")
Ethernet Switch	10/100	10/100	10/100/1000	10/100
Programmable Line Keys	N/A	2	4	16
Programmable Soft Keys	4	4	4	4
Headset Port	N/A	✓	✓	✓
EHH Support (AUX)	N/A	✓	✓	✓
Full Duplex Speakerphone	✓ (Narrowband)	✓	✓	✓
Wideband Audio	Available with additional wideband handset	~	*	*
POE Class	1	1	1	1
Protocols	SIP	SIP	SIP	SIP

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## Cisco IP Phone 8800 Series

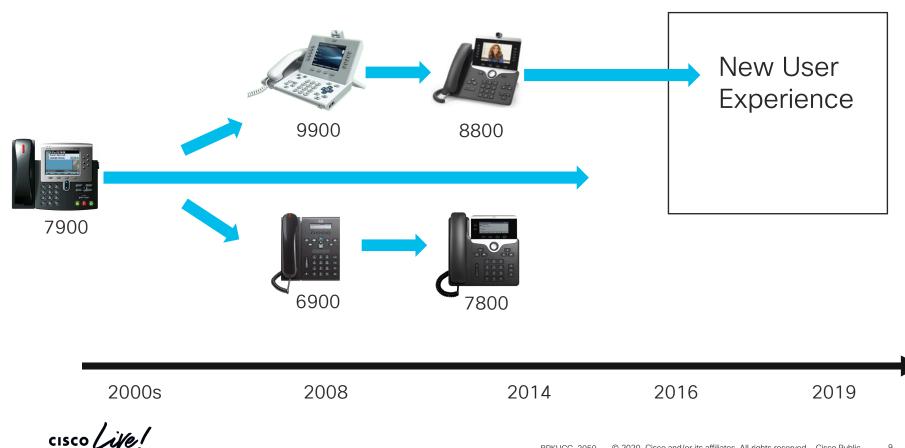
Key Feature	es (P-8811	CP-8841	CP-8845	CP-8851	CP-8861	CP-8865
Display	800 x 480 Greyscale(5")	800 x 480 WVGA (5")				
Ethernet Switch	10 / 100 / 1000	10 / 100 / 1000	10 / 100 / 1000	10 / 100 / 1000	10 / 100 / 1000	10 / 100 / 1000
Programmable Line Keys	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5
Programmable Soft Keys	4	4	4	4	4	4
Headset Port (RJ9)	✓	✓	✓	✓	✓	✓
EHS Support	✓	✓	✓	✓	✓	✓
Full Duplex Speakerphone	✓	✓	✓	✓	✓	✓
Wideband Audio	✓	✓	✓	✓	✓	✓
Integrated Bluetooth			✓	✓	✓	✓
USB				✓	×	✓
KEM Support				✓ (2)	✔ (3)	✔ (3)
Wifi					×	✓
External Audio Port					×	✓
HD 720p Video			✓			✓
POE Class	2	2	2	4	4	4

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User Experience Enhancements Firmware 11.5 to 12.1(1) Posting date: March, 2018



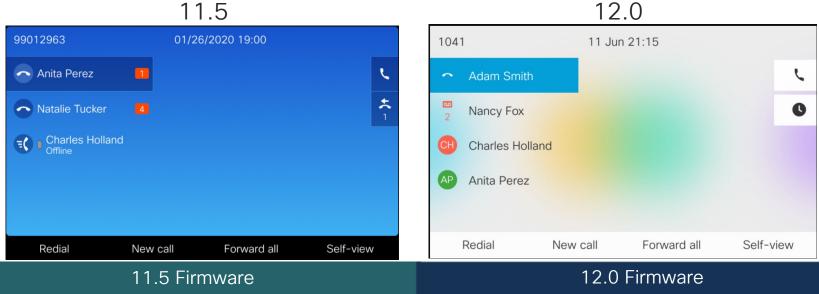
## A Short History of Cisco IP Phones



Evolution of UX

#### 12.0 Firmware or higher

## New User Experience 11.5

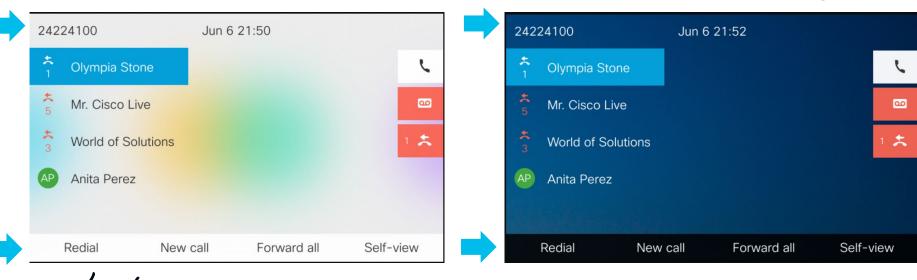


- Default wallpaper is blue
- Bottom softkey ribbon is black

- Default wallpaper is brighter
- Bottom softkey ribbon is light
- Overall appearance is cleaner ٠
- Rotating calls counters and voicemail

## **Dynamic Fonts**

- · Fonts dynamically change depending upon darkness of wallpaper
- · Black text on white background, or white text on dark background



#### **12.0 Firmware Default**

#### 12.0 Firmware w/ Blue Background

12.0 Firmware or higher

11

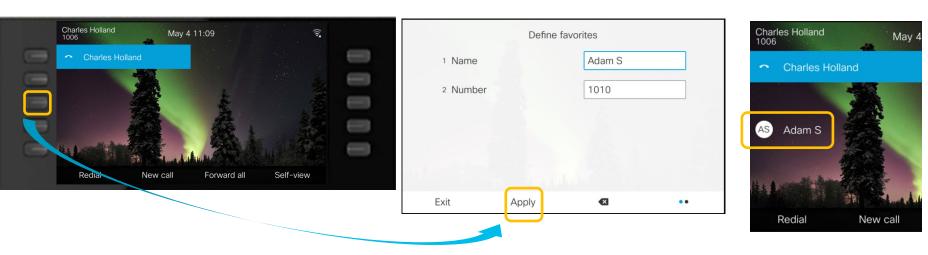
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## Speed Dial Enhancement

- End users can now configure speed-dials without the Self Care Portal
- Long press any free button for 2 seconds
- Works on 8800 Phone Series, new KEMs and old KEMs
- · Edit or delete any speed-dial button created from your phone\*

\* You cannot use your phone to edit or delete a speed-dial button created from the Self Care portal or CUCM



## Speed Dial Enhancement

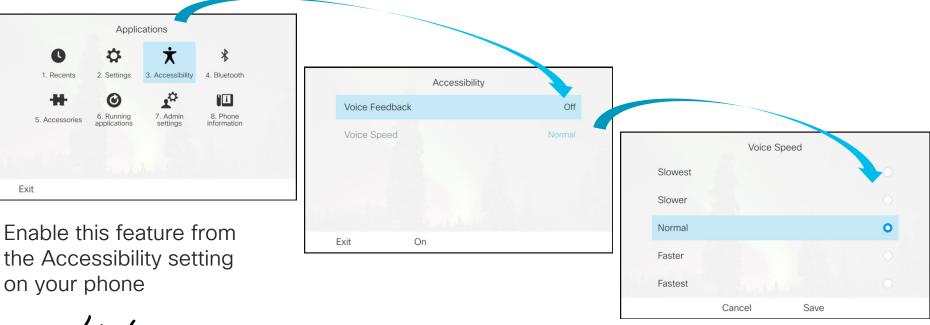
• The end user cannot override a CUCM provisioned Speed dial Example: Button 5 has a CUCM Speed dial and I long press the button for 2 seconds

Charles Holland Jun 1 12:50	
∽ Charles Holland	
E	
You can edit this speed dial number in the Self Care portal or contact your administrator to edit the number.	
CUCM-Speedial	
Redial New call Forward all Self-view	

New in 12.1 Firmware

## Voice Feedback for 8800 Series

- Makes it easier for people with low vision or who are blind to use the phone
- Assists you as you navigate your phone settings and screens
- A voice reads out incoming Caller IDs, displayed screens, settings, and functions



New in 12.1 Firmware

## Feature Enhancements

# Phone Firmware 12.5(1)SR3





## Activation Code Onboarding for CUCM

- This new functionality provides assurance that a new or untrusted phone seen on the network cannot register with Cisco Unified Call Manager without first having an activation code and having its internal Manufacturing Installed Certificate (MIC) verified
  - Allows for phones to be onboarded in a bulk fashion without requiring the use of auto-registration
  - Supported phone models in CUCM 12.5 SU1 7811, 7821, 7832, 7841, 7861, 8811, 8832, 8841, 8845, 8851, 8851NR, 8861, 8865, and 8865NR
  - MRA Onboarding Planned Dependencies: Expressway X12.5.3 + CUCM 12.5 SU1 + 78xx/88xx 12.5(1)SR3
  - See BRKUCC-2801 Enabling External Collaboration with Expressway

System  Call Routing	•	Media Resources	•	Advanced Fea
Activation Code				
Status Status: Ready				
Device Information Product Type: Device Protocol: Device Name: Device Description:	SI	co 8865 5 T851311419397	,	

-Activation Code-

The activation code associated with this device record is:



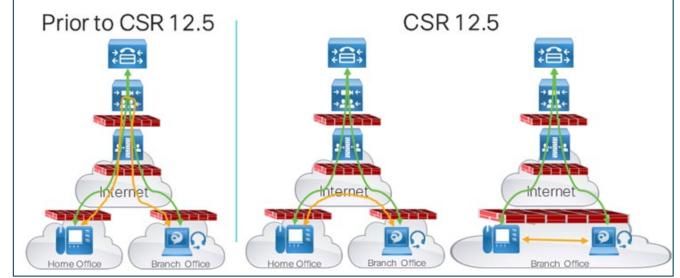
#### 7018-0133-1415-7211

Expires on: 01/17/2019 14:41

#### New in 12.5 Firmware for 7800/8800

## Media Path Optimization for MRA Calls

- Requires 12.5 or higher phone firmware on 7800/8800
- Requires CUCM 12.5 + Expressway X12.5
- See BRKUCC-2801 Enabling External Collaboration with Expressway





## Feature Enhancements

# Phone Firmware 12.6





#### Prior to 12.6 Firmware

Both parameters are

#### Best Practices for 8800/8961/9900 "Session Mode"

#### **Revert to Primary Line Behavior**

- 1. Show All Calls on Primary Line (Set to Enable)
- 2. Revert to All Calls (Set to Enable)
- 3. Enable Actionable Incoming Call Alert (Default = Enable)
- 4. Always use Primary Line (Set to off)

24224100 (All calls)			Jun 4	18:26		
00	Olympia Stone	e		Perez Cisco Live	01:00	п
н	Mr. Cisco Live			r Bard . Cisco Live	00:46	п
н	World of Solut	ions		Conference Phone Cisco Live	00:41	п
AP	Anita Perez		1 Charles Holland On World of Solutions		00:29	н
			2 Nancy Fox On World of Solutions		00:19	0
		End	call	Park	Show det	ail

e) disabled by default

"Revert to All Calls" requires "Show All Calls on Primary Line"

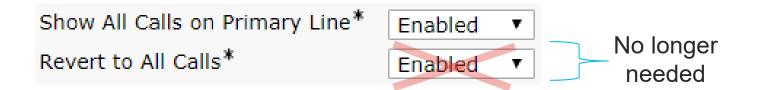
Show All Calls on Primary Line*	Enabled	•
Revert to All Calls*	Enabled	•

#### Major Enhancements to 8800 "Session Line Mode"

#### **Revert to Primary Line Behavior**

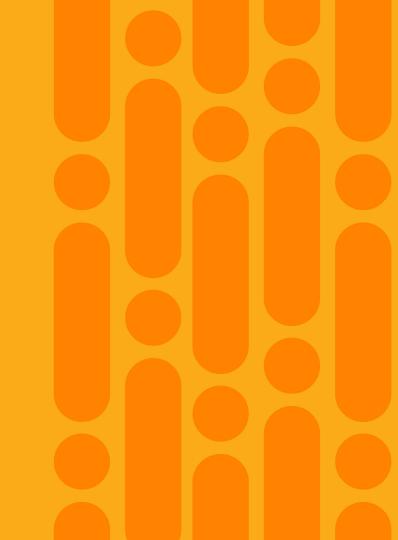
- 1. Revert to Primary Line functionality now globally enabled
- 2. Does not change existing behavior other than revert to primary line is now enabled
- 3. Best practice configurations prior to 12.6 unaffected

- "Revert to All Calls" no longer needs to be enabled with "Show All Calls on Primary Line"
- "Revert to All Calls" now depreciated, but there is no harm in having it enabled



## 12.7 Firmware Update





## New Audio and Video Dual LCD KEMs

New Audio KEM CP-8800-A-KEM= New Video KEM CP-8800-V-KEM=

#### Old Audio/Video KEM



## Customized KEM Wallpaper Before 12.7



12.7 or higher



- 1. Upload pictures to CUCM TFTP server. The picture's resolution matches the directory. The pictures need to have the **same name** in all directories and be in PNG format. Example: cisco1.png
  - Desktops/800x480x24 --- for main phone screen wallpaper
  - Desktops/320x480x24 --- for the new 8800-A/V-KEM wallpaper
  - Desktops/272x480x24 --- for BEKEM wallpaper
- 2. Restart TFTP. On a new Common Phone Profile, uncheck "Enable End User Access to Phone Background Image Setting. For "Background Image" put wallpaper (i.e., cisco1.png)
- 3. Apply Common Phone Profile to the phone

#### Reference

## Wallpaper Whitepaper Update

## •Go to <u>http://cs.co/custom-wallpaper</u> or

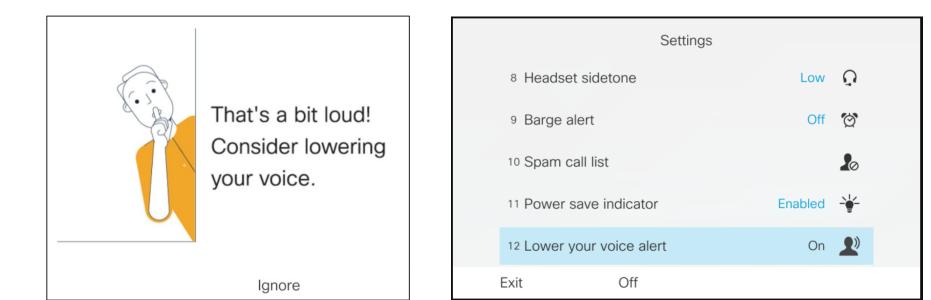
 <u>https://www.cisco.com/c/dam/en/us/products/collateral/collaboration-</u> endpoints/unified-ip-phone-8800-series/white-paper-c11-740036.pdf





## Lower Your Voice

- Loud voice will trigger alert to lower your voice
- Useful in open office environments
- Works with handset or headset
- Can be easily disabled in settings



New in 12.7 Firmware

#### New in 12.7 Firmware

## Spam Detection

- Allows end user to classify calls that are potential fraud or telemarketing using a softkey in call history
- Choosing "Potential Fraud" blocks the calls
- Choosing "Telemarketer" allows future calls but flags it
- Flagged entries can be easily removed in settings

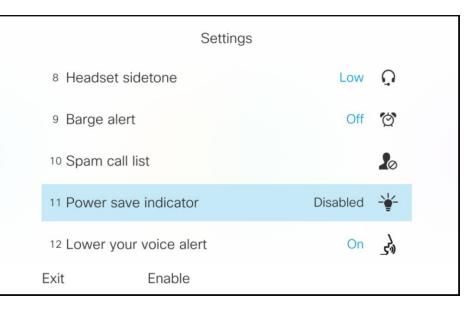
	্ ৫ ৫	Line	calls :: 1003 02:47 Today	<ul> <li>Potential Fraud Call reject</li> <li>Telemarketer Show indication</li> </ul>	0	<b>→</b>	AS	Adam Smith Telemarketer
							Answer	Decline
(	Clear list	Mark spam	•••	Exit Apply	20 Cisco	and/or its affiliates	. All rights reserved.	Cisco Public 34

## Disable Circular Light

Use cases:

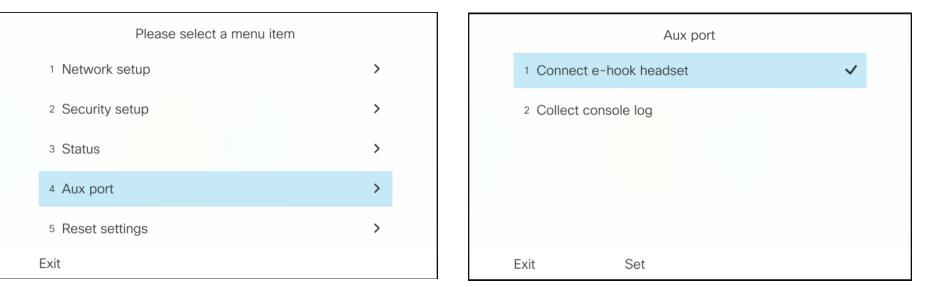
- Hospitality
- Boats
- Environments requiring darkness





## E-Hook By Default for 7800/8800

#### Settings -> Aux Port -> Connect e-hook headset



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## Wireless Headset Hookswitch Control and Y-cable



on CUCM in order for the Y-cable to work on the 78xx or 8811/41/45

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## Show Admin Settings on Phone Web Page

## The administrator can now see admin settings on phone webpage:

- Port: How the headset connects
- Version: Headset firmware
- Radio range: DECT Radio Range
- Bandwidth: Narrowband or Wideband
- Bluetooth: Enabled or Disabled
- Conference: Enabled or Disabled

Model number **CP-8865** Message waiting No UDI phone Cisco IP Phone 8865, Global **CP-8865**  $\mathbf{V}00$ PUC193200WY **Cisco Headset 560 Series with Multi Base** Port: USB Version: 2-0-0001-5 **Radio range: Medium Bandwidth: Wideband Bluetooth: Enable Conference: Disable** Time 22:24:30 Time zone Etc/GMT

#### 12.7 Phone firmware

## 8800 phone support for Cisco Headset 730 Series

Users can customize their headset from the phone screen. The 730 USB cable can connect to the 8851/61/65 for:

- Charging the headset
- Firmware upgrade
- Customization\*
- Inventory management\*
  - \* CUCM 12.5 SU1 or 11.5 SU7



Connection Type	8845	8851	8861	8865
USB (Adaptor or USB-C cable)	Not supported	Supported	Supported	Supported
Bluetooth (pairing with phone)	Supported	Supported	Supported	Supported

## Cisco Headset 500 Series





## Headset Customization and Cisco Phone

Headset C	Customization Availability	8851/61/65	8811/41/45	78xx
USB Cable	e (52x, 53x, 56x, 730)	Yes	-	-
Y-cable	(56x)	Yes	Yes	Yes

Record / Playback: Test microphone

Gain: Adjust the microphone gain

Equalizer: Adjust audio tune/bass

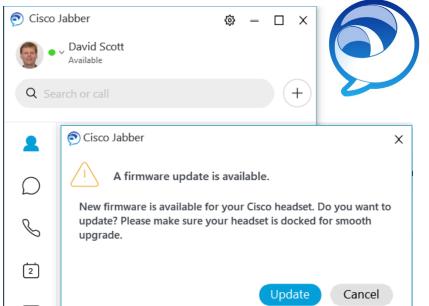
Side Tone: Adjust sound from microphone

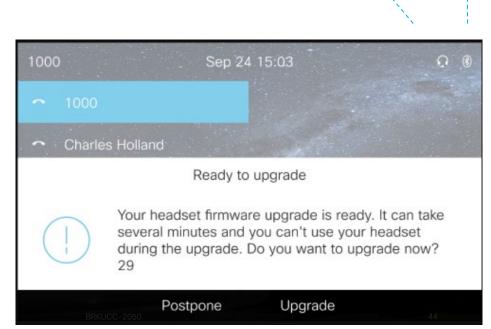




## CUCM Upgrade Support via Phones or Jabber

- Headset firmware can be pushed to the Headset from CUCM
- You upgrade the headset using 7800/8800 or Jabber
- The headset icon on top right will show an animated down arrow indicating upgrade in progress



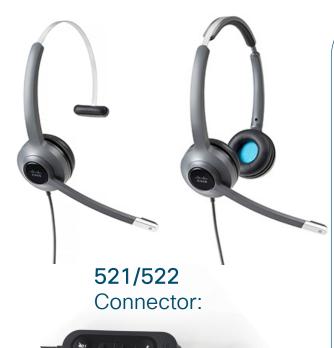


## 500 Series Model Comparison

	520 Series	530 Series	560 Series Standard Base	560 Series Multibase
Models in Series	521/522	531/532	561/562	561/562
Planned GA	Now Shipping!	Now Shipping!	Now Shipping!	Now Shipping!
Туре	Wired	Wired with Quick Disconnect	Wireless (DECT 6.0)	Wireless (DECT 6.0)
Designed for	Office	Contact Center	Office / Contact Center	Office / Contact Center
Simultaneous connections	1	1	1	3
Connectors (included)	3.5mm and USB Adapter	<b>QD to RJ9</b> (for phones) or <b>QD to USB Adapter</b>	USB-A and RJ9/RJ11 (Y cable)	2 <b>USB-A</b> and <b>RJ9/RJ11</b> (Y cable)

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## Cisco Headset 521/522 and 531/532



521/522 includes a 3.5mm connector and includes an in-line USB adapter

#### • Wired Headsets

- Single and Dual Ear Piece Models
- Busy Indication
  - On-ear and on controller
- Powerful Noise
   Reduction
  - Excellent in open offices

#### **USB** indicator

Incoming Call	Blinking Green	¢
Active Call	Steady Green	ς
Muted Call	Steady Green	C
	Steady Red	
		_



#### 531/532 Connector Options:



46

### Cisco Headset 561/562 with Standard Base or Multibase



Standard Base Connectivity: 1 USB or RJ9/11 cable

CP-HS-WL-561-S-EU= CP-HS-WL-562-S-EU= Frequency Band: Europe, UK, Asia,

South Africa, HK, Australia

#### Wireless

- Exceptional Clarity
- Extended Range (DECT 6.0)
- Best-in-Class Audio
  - Adaptive for voice and music

#### Easy Enterprise Deployment

- User-based Policy
- Automatic Software Upgrades
- Native Integration for Plug & Play
- Robust On-Ear Controls
  - Advanced call handling, mute, volume
- Security
  - 128 Bit Step C (Highest DECT Standard)
- Easy to Order
  - Cisco cabling included



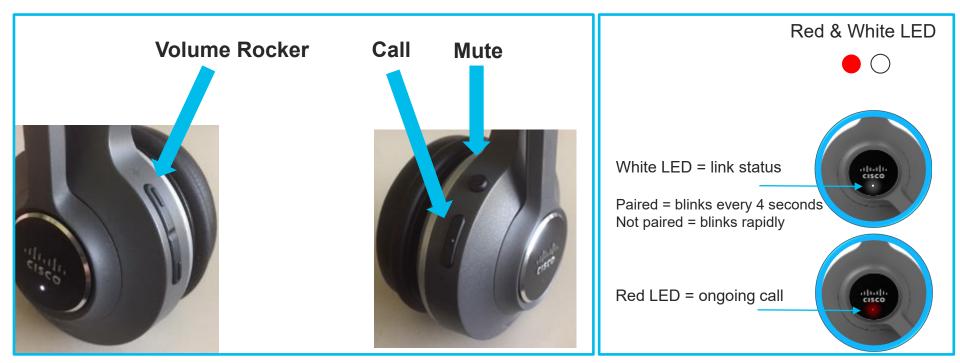
Multibase Connectivity: 1 USB or RJ9/11 cable 1 USB to laptop or PC 1 Bluetooth connection



# 561/562 Headset Buttons and LEDs

Reference

Headset has 3 buttons: Mute, Call\*, and Volume



\*Call button can also be used as power button: Press for 4 seconds to turn off or on

### Multibase Details

#### Reference



Multibase Source Console:

- Deskphone (USB-USB TypeA or Y-cable)
- Laptop (Micro-USB cord)
- Mobile (Bluetooth)

Alerts you to the call state:

- Active Source  $\rightarrow$  Steady white
- Incoming call  $\rightarrow$  Blinking green
- Active call  $\rightarrow$  Steady green
- Call on an inactive source → Pulse green

#### 1.5 Firmware and later

# Cisco Headset 1.5 Firmware Features

- Enhanced Bluetooth capability
  - Save up to 4 paired Bluetooth devices with multibase
- Updated headset settings in Jabber 12.6
- Ringtones for incoming calls
  - When you have an incoming call, you hear the ringtone in your headset
- Reset Headset Setting (phone)

Preference		- :
General	Ringer/Alerts:	
Chats		
Audio	All Devices	~
Video	0	
Meetings	<b>G</b> eneral second	
Calendar	Speaker:	
Calls	Speakers (3- Cisco 562 MB)	$\checkmark$ $\triangleright$
Status	0	
Location		
Notifications	Headset sidetone:	
Video Device	Low	~
Privacy		
Accounts	Adjust audio tune:	
Self Care Portal	Warmer Brig	hter
Outlook	numer big	
	Microphone:	
	ОК	Cancel Apply

#### 1.5 Firmware and later

## Cisco Headset 500 Series Conferencing

- Allow a maximum of 3 guest headsets to pair with one dock (4 total)
- All headsets can talk to each other anytime, even if there is no active call
- Guest headsets join the call muted. They can unmute themselves if desired.

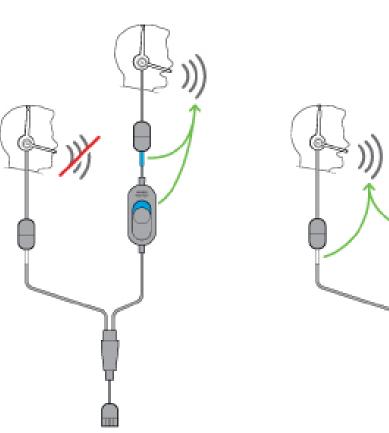
#### Connect:

- 1. Dock Guest headset in primary dock
- 2. Primary headset receives tone indication
- 3. Primary headset confirms with call button **Disconnect:**
- Place the primary headset into primary dock



# Cisco Headset 530 Series Y Training Cable

- You can connect a second headset for the purposes of training
- A switch on the cable allows only one microphone to be active at a time
- The color on each arm of the cable corresponds to the colors on the switch



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Multibase: Answer Call on Another Source

In 1-5-1-15, if there is incoming call on inactive source, the user will be not able to answer it via headset button

In firmware 2.0, the user can answer an incoming call on the inactive source via the headset button

Example:

- Cisco IP phone connects via USB-A
- PC connects via micro-USB
- While listening to music on PC, there is an incoming call on the Cisco IP phone
- Pressing call button on headset will answer the incoming call and auto-select the source USB-A





Cisco Headset Management with CUCM 12.5 SU1 and CUCM 11.5 SU7

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# CUCM 12.5 SU1 and 11.5 SU7 Headset Support

- Inventory Management: CUCM will provide reports based on headset model, connection status, firmware releases, connections, and more
- Remote Configuration: CUCM will be able to control headset settings, including wireless
  power range, wideband/narrow band settings, firmware version, Bluetooth on/off, and more
  (along with templates to help guide administrators)
- Analytics and Diagnostics: CUCM call records (CMRs) will be enhanced with additional metrics from headsets, such as RSSI (wireless signal strength), frame errors, connection drop reason, beacon moves, audio settings, DECT bandwidth, and more
- Remote Log collection: The CUCM user interface and the Real Time Management Tool (RTMT) will be able to trigger log collection, including headset logs without any user involvement.
- Firmware upgrade: CUCM can push new firmware to headsets using Jabber and IP phones, without the need for extra headset management software. This capability is available today. With CUCM 12.5, administrators will be able to control firmware versions from a configuration template.

### Headset Management CUCM 12.5 SU1 & CUCM 11.5 SU7

### Live demo here <u>https://youtu.be/TXNwo9NInGc</u>

Cisco Unified CM Administration

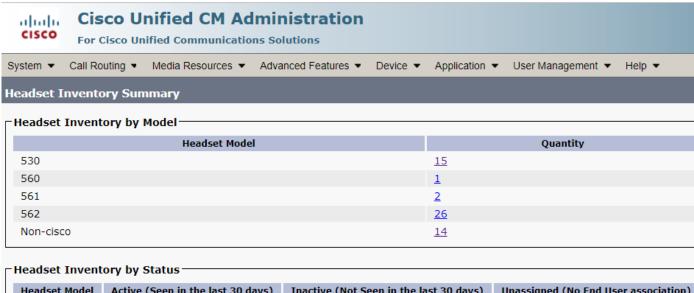
For Cisco Unified Communications Solutions

System   Call Routing   Media Resources   Advanced Features	De	vice 🔻	Application -	User Mana	geme	ent 🔻	Bulk Administration   Help
		CTI R	oute Point				
Smart Software Licensing: The system is of Software Manager satellite to avoid losing		Gateke Gatew Phone	/ay				ng in Evaluation mode with nd devices.
• WARNING: No backup device is configured		Trunk			ſ	you	ir system in case of failure.
Emergency Notifications Paging is not con     Advanced Features > Emergency Notificat			te Destination ssway-C		g	ency	y Notifications Paging or to
		Device	e Settings				
<b>Cisco Unified CM Administration</b>		Heads	set		<u>}</u>	Hea	adset Template adset Inventory adset Inventory Summary
System version: 12.5.0.98200-20						The	addet inventory ourmany

# Headset Inventory

Headset Inventory by Model and Quantity

Headset Inventory Status: Active, Inactive, Unassigned



Headset Model	Active (Seen in the last 30 days)	Inactive (Not Seen in the last 30 days)	Unassigned (No End User association)
530	<u>6</u>	<u>9</u>	<u>0</u>
560	1	<u>0</u>	<u>0</u>
561	2	<u>0</u>	<u>0</u>
562	<u>16</u>	<u>10</u>	<u>0</u>
Non-cisco	<u>11</u>	<u>3</u>	<u>0</u>

## Headset Inventory Detailed

Serial Number, Model, Type, Firmware, User, Template, Status, Phone, Software, Age

Find a	and List Headse	t Inve	ntory								Relat	ed Links	: Heads	set Inventory Sum	mary 🔻
	Select All	ear All	🗙 Dele	te Selected											
Stat	us ————														
i	4 records found														
		14	1 - 5 - 1 )											D	50 -
неа	dset Inventory	(1-	4 of 4)											Rows per Pag	<b>ge</b> 50 V
Find	Headset Inventory	where	Model		begins w	rith ▼			Find	Clear	Filter 🕂	-			
	Serial Number ▲	Model	Vendor	Туре	Firmware	User	Template	Status(since)		Dock model	Device Na	ime	Device Model	Software Version	Headset Age(days)
	<u>GTK221712</u>	530	Cisco	Wired	15-18- 11			connected (05/15/2019)			CP-8865- SEPAC7E8A	360252	CP- 8865	sip8845_65.12- 5-1SR3-35	0
	WFG2303E01G	562	Cisco	DECT Wireless	1-5- 1PA- 118			disconnected (05/09/2019)		MB	CP-8865- SEP74A02F0	10BF5	CP- 8865	sip8845_65.12- 5-1SR3-35	0
	WFG2238E1G0	562	Cisco	DECT Wireless	1-5- 1PA- 118	<u>anita</u>		disconnected (05/22/2019)		MB	CP-8861- SEP5006AB7	70FD8F	CP- 8861	sip88xx.12-5- 1SR3-35	5
	<u>WFG2238E1PH</u>	562	Cisco	DECT Wireless	1-5- 1PA- 118	<u>adam</u>		disconnected (05/20/2019)		SB	CP-8865- SEPAC7E8A	360297	CP- 8865	sip8845_65.12- 5-1SR3-35	13

# **Cisco Headset Service**

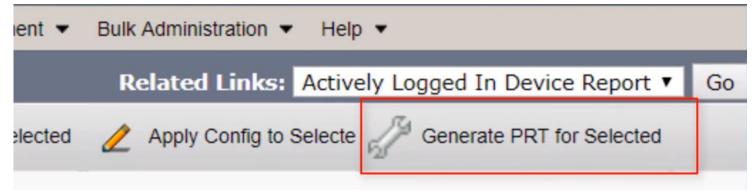
- There is a new "Cisco Headset Service" in CUCM 12.5 SU1
- This service is required to be activated on both the publisher and subscribers in the cluster

	CISCO Intercluster LOOKUP Service
	Cisco Location Bandwidth Manager
	Cisco Directory Number Alias Sync
	Cisco Directory Number Alias Lookup
	Cisco Headset Service
1	Cisco Device Activation Service
	Cisco Dialed Number Analyzer Server
	Cisco Dialed Number Analyzer
•	Cisco Tftp



## Troubleshooting

- CUCM 12.5 SU1 or 11.5 SU7 can now remotely generate a Problem Report for 7800/8800 devices you select
- This greatly facilitates troubleshooting a headset attached to the phone
- The 7800/8800 phone must be running 12.5(1)SR3 or higher



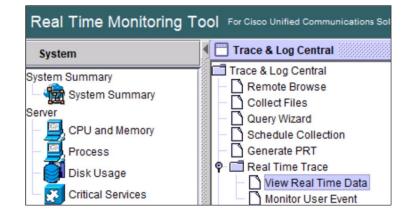
# **Diagnostics and Alarms**

Headset will send related call information to Call Management Records

Data to be collected from headset:

Wireless Info – every call

- RSSI relative signal strength (average, min, max)
- Frame Errors (total for the call)
- Call/Connection drop reason (N/A if not applicable)
- Beacon moves
- DECT bandwidth



# Headset Remote Configuration Minimum Requirements

	Pre-CUCM 12.5 SU1 (Global Policy)	CUCM 12.5 SU1 (Per User Group Policy)
7800/8800 Phone	12.5(1)SR3	12.5(1)SR3
Jabber*	12.6MR+	12.6MR+
 <ul> <li>Speaker Volume</li> <li>Microphone Gain</li> <li>Sidetone</li> <li>Equalizer (Tune)</li> </ul>	Audio bandwidth Bluetooth DECT Radio range	er 12.0 supports Cisco headsets 12.5 adds software upgrade vill support config management.

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#### 2.0 Firmware and later

# Cisco Headset 2.0 Template Update

- New Firmware Source added
  - Allow from UCM or Cisco Cloud (firmware will upgrade only)
  - Restrict to UCM only (firmware may upgrade or downgrade)
- Headset Density & Power range enhancements
  - Medium (default) balanced mode between user density and mobility
  - Auto sparse workspace favoring roaming over user density
  - Short densely populated space favoring user density over roaming

		Speaker Volume	•	
		Microphone Gain	Default	•
		Sidetone	Low	•
		Equalizer	Default	•
560	Latest (2-0-0001-10)	Audio Bandwidth	Wide Band	•
		Bluetooth	On	•
		Conference	Disable	•
		Firmware source	Allow from UCM or Cisco Cloud(firmware will upgrade only)	•
		DECT Radio Range	Medium Range	•

# Cisco Headset DECT Whitepaper

DECT Whitepaper

# Cs.co/dect

YouTube video walkthrough of whitepaper

#### https://youtu.be/7uGqDsRHWMI

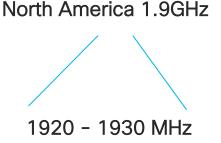
White paper Cisco public ululu cisco

#### How to Deploy DECT at Work for the Cisco Headset 560 Series

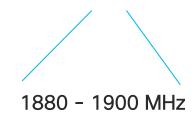
DECT deployment options for the Cisco Headset 560 Series

Setting Name	Option	Description
DECT radio range	Medium range (available in November 2019)	Medium transmitting power
	Short range	Low transmitting power
	Auto range	High transmitting power
Audio bandwidth	Narrowband	Lower bit rate
	Wideband	Higher bit rate

### Digital Enhanced Cordless Telecommunications (DECT)



Europe, LATAM, Australia ~1.9GHz



- DECT stands for Digital Enhanced Cordless Telecommunications. It works near the 1.9GHz frequency band and has a far greater range than Bluetooth with less interference.
- There are different DECT models per region due to regulations
- DECT operates using finite radio channels and time slots in a given area

# **DECT Deployment Range Options**

#### 2.0 Firmware and later

Recommended radio range	Region	Max number of users in wideband	Max number of users in narrowband	Typical roaming range [meters]	Minimum base-to-base distance [meters]	Maximum range [m]
Medium range	U.S.	20	40	5	2	45
	E.U.	40	80	5	2	45
Recommended radio range	Region	Max number of users in wideband	Max number of users in narrowband	Typical roaming range [meters]	Minimum base-to-base distance [meters]	Maximum range [meters]
Auto range	U.S.	20	40	20	5	100
	E.U.	40	80	20	5	100
Recommended radio range	Region	Max number of users in wideband	Max number of users in narrowband	Typical roaming range [meters]	Minimum base-to-base distance [meters]	Maximum range [meters]
Short range	U.S.	20	40	2	2	12
	E.U.	40	80	2	2	12

# Cisco Headset 730





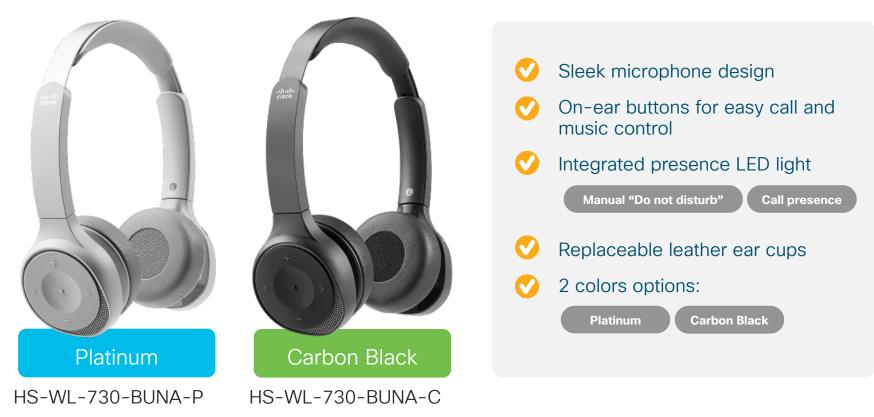
### Cisco Headset 730: $360^{\circ}$ view



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# Cisco Headset 730 Series

Target availability for EMEA Q1 CY 2020



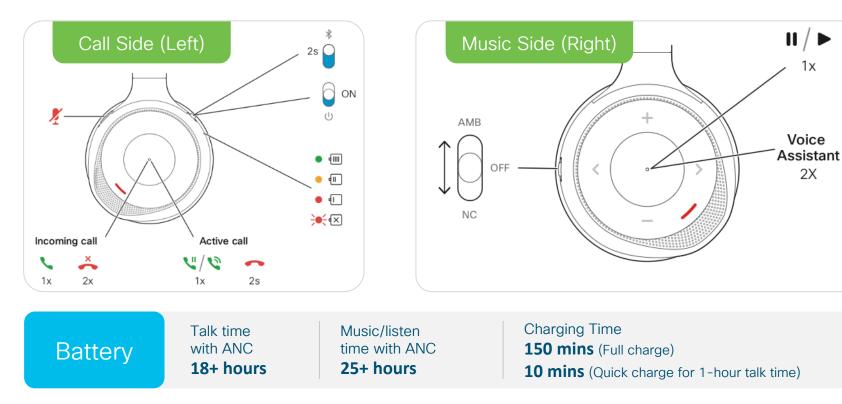
# Premium audio and voice



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- Clear Voice technology: Cisco's voice honing, boom less design coupled with adaptive noise cancellation, background noise suppression, and side tone enabling crystal clear audio. Anytime.
- Switch between noise cancelling modes:
  - Noise cancellation (NC) block out environment noise for optimal calling and music experience
  - Ambient (AMB) ability to hear conversations in user's environment
  - Premium codecs and 40 mm speakers for exceptional calling and music experience
- Adjustable equalizer settings
- Voice activated AI: Access Google Assistant, Siri, or Cortana through your headset

# Ear controls and battery



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# Power/Bluetooth Pairing Mode

#### Reference

# The Power/Bluetooth switch is located on the back of the left ear cup.

- To **turn on**, slide the Power/Bluetooth switch up and let go. A voice notification will state remaining battery life.
- The power LED light also signals the **battery life**.
- While wearing the headset, slide the switch up and let go to hear the remaining battery life.
- To **turn off,** slide the power/Bluetooth switch down.

Slide the Power/Bluetooth switch up.

- Hold for 2 seconds until you hear **"Pairing mode, look for Cisco Headset 730 in your list of Bluetooth devices",** and the Bluetooth LED will blink.
- The headset is now in pairing mode and is discoverable.
- Once paired, you will hear **"Connected."**



# Noise Cancelling Switch

The Noise Cancelling switch is located on the back of the right ear cup.

- Slide the switch down to turn on noise cancellation (NC)
- Slide the switch up to turn on ambient (AMB)
- Slide the switch in the center to turn off both AMB and NC



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# Call control side - left

- The call control side is located on the face of the left ear cup.
- Press the call button once to answer an incoming call.
- Press the call button once to hold an active call.
- Press the call button twice to reject an incoming call.
- **Press and hold** the call button for two second to end a call.

Reference

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# Music control side - right

- The music control side is located on the face of the right ear cup.
- Press < or > to skip a track on your music.
- Press + or to adjust your music or call volume.
- Press the center button to pause or resume your music playback.
- If you have Auto Pause/Play enabled in the Cisco Headsets app, it will automatically pause music playback when taking off the headset or resume music playback when putting on headset.



# USB cable and Headset 3.5mm cable

Reference

- ✓ Use the included USB-C to USB-A cable to manually connect the headset to your computer or phone.
  - Connecting the cable will charge the headset while still using the Bluetooth connection for media.

- Use the included 3.5mm audio cable to manually connect the headset to your laptop, mobile phone, or 3.5mm device.
- Any connected Bluetooth or USB source will have priority over the 3.5mm audio connection.

If you want the media to go over USB, select Cisco Headset USB in your sound settings of the connected device. If the headset battery is dead, the 3.5mm connection allows you to still use it as an analog headset.





# Cisco Headset app for iPhone and Android

Built-in tutorial Upgrade firmware Battery Status Adjust Equalizer Change Bluetooth connections Tune Adaptive Noise Cancelling Adjust sidetone Adjust Audible Notifications Enable smart sensors based upon if headset is on, off, or in a dock. Auto-mute Auto-play/pause Auto-answer



## Cisco Headset app for iPhone and Android



# CUCM 12.5 SU1 and 11.5 SU 7 headset support

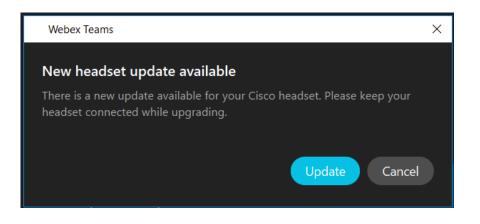
	Call Pouting =	Media Resources - Ad	vanced Features =		Application -	User Management =	Bulk Administration
				Device	Application •	oser management	Buik Auministration
Headset I	Inventory Sur	nmary					
⊢Headset	Inventory by	Model					
		Headset Model				Quantity	
520					2	. ,	
530					<u>4</u>		
562					5		
Cisco 56	52 MB				1		
Cisco 73	30				1		
Cisco 73 Non-cisc					<u>1</u> <u>3</u>		
Non-cise	0						
Non-cise		Status					
Non-cise Headset Headset	Inventory by	Status (Seen in the last 30 days)	Inactive (Not S	een in the la	<u>3</u>	Unassigned (No End Us	er association)
Headset Headset 520	Inventory by Model Active		1	een in the la	<u>3</u>	<u>0</u>	er association)
Non-cise Headset Headset 520 530	Inventory by Model Active		1 3	een in the la	<u>3</u>	0 0	er association)
Non-cise Headset 520 530 562	Inventory by Model Active		1 3 3	een in the la	<u>3</u>	0 0 0	er association)
Non-cise Headset 520 530 562 Cisco 56	Inventory by Model Active 1 1 2 52 MB 1		1 3 3 0	een in the la	<u>3</u>	0 0 0 0	er association)
Non-cise Headset 520 530 562	Inventory by Model Active 1 2 52 MB 1 30 1		1 3 3	een in the la	<u>3</u>	0 0 0	er association)

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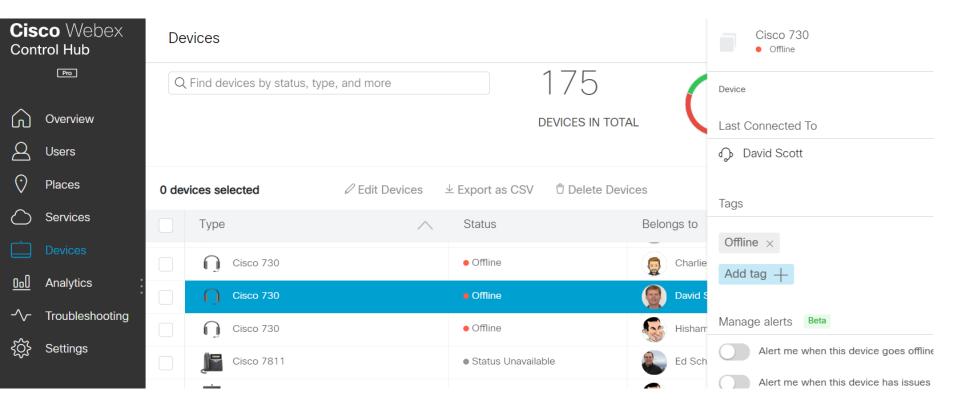
### Webex Teams Integration with Cisco Headset

Headset upgrades can now be pushed from Webex Teams

- 1. There is no CUCM dependency
- 2. Webex Teams client detects existing model and firmware
- 3. Webex Teams client upgrades to newer firmware
- 4. Will work with Cisco Headset 500 and 730 series



# Headset Inventory in Webex Control Hub



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# Cisco Conferencing Phone Update





#### Cisco IP Conference Phone 7832 Hardware Features

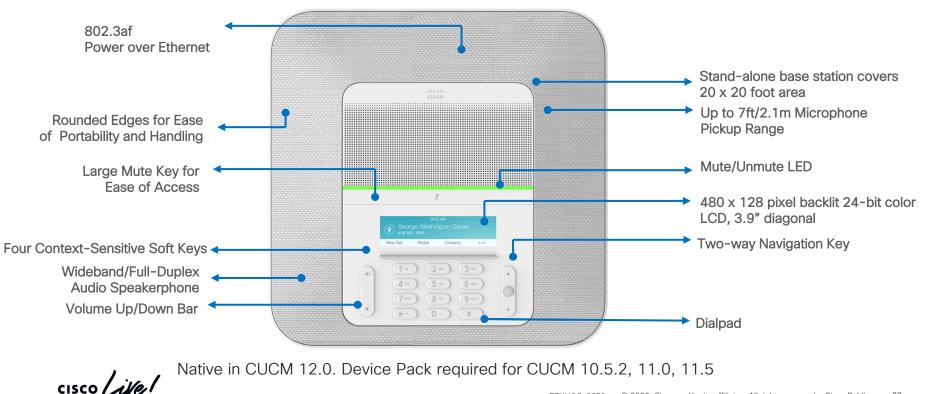
Entry level conference room device for executive and small conference room up to 6 participants



Native in CUCM 12.0. Device Pack required for CUCM 10.5.2, 11.0, 11.5

#### Cisco IP Conference Phone 8832 Hardware Features

For medium to large rooms with color display (3.9-inch), accessories mics, daisy-chain, and wireless



# SURPRISE ANNOUNCEMENT!

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## Cisco Wireless IP Phone 8821





#### A Short History of Cisco IP Phones

Evolution of the mobile Cisco Wireless IP Phone





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#### 8821–EX Target for EU is Q1 CY 2020

- Hazardous Locations certification (METLABS listing: E114610)
  - ANSI/ISA 12.12.01 & CAN/CSA C22.2 No. 213 Class I & II, Division 2 and Class III, Division 1 & 2
  - Atmospheres Explosibles (ATEX) Zone 2 \*
- IP67 rated for dust and water protection in ordinary locations
- MIL-STD-810G Standard for durability
- HD voice quality and full-duplex speakerphone
- Wi-Fi IEEE 802.11a/b/g/n/ac
- Fast Secure Roaming (11r/FT, CCKM)
- SHA-256 certificate signature and 4096 bit key support
- Easy Provisioning (Dock + USB Dongle, CUCM WLAN Profiles, SCEP)
- Bluetooth 3.0
- XSI Application support



#### Reference

### 8821 Wired Dock for Wireless Provisioning

- Provision wireless profiles over the wired network to the 8821
- Connect the wired RJ-45 Ethernet cable using a USB to RJ-45 dongle
- The dongle is NOT intended to be used for normal day to day use
- The dongle is for 1st time provisioning/setup only
- Voice calls over Wired Ethernet are not supported



	Supported USB Dongles	Un	supported Wired Provisioning Scenarios
٠	Apple USB 2.0 Ethernet Adapter	•	DHCP lease <b>without</b> option 150 (CUCM TFTP)
٠	Linksys USB3GIG 3.0 Gigabit Ethernet Adapter	•	Alternative-TFTP
٠	Linksys USB300M USB 2.0 Ethernet Adapter	•	802.1x (wired) to dock
٠	D-Link DUB-E100 USB 2.0 Fast Ethernet Adapter	•	Power over Ethernet to dock
٠	Belkin B2B048 USB 3.0 Gigabit Ethernet Adapter		

#### WLAN Profiles for 8821

#### Reference

- For easy deployment use WLAN Profiles
  - CUCM > Device > Device Settings > Wireless LAN Profile
  - Associate Wireless LAN Profile to Group
  - Apply to the 8821 device pool <u>or</u> device

WLAN Profiles	WLAN Group	Device Pool	Cisco 8821
	A		
	L		3

Wireless LAN Profile Configuration							
Save 🗶 Delete 🗋 Copy 🕂 Add New							
_ Status							
(i) Status: Ready							
Wireless LAN Pr							
Name*	MyProfile						
Description							
User Modifiable* Allowed							
_ Wireless Setting	⊂Wireless Settings						
SSID (Network Na	me)* MySSID						
Frequency Band*	5 GHz V						
Authentication S	ettings						
Authentication Me	hod* EAP-FAST T						
Provide Shared Credentials							
Username	CiscoUser						
Password	••••						
	show password						
Password Descrip	tion						

\* WLAN Profile + EAP-TLS requires CUCM 11.x or higher.

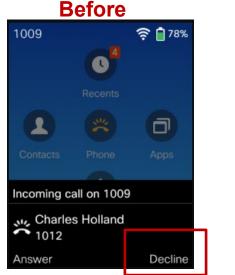
#### 8821 User Interface Enhancements

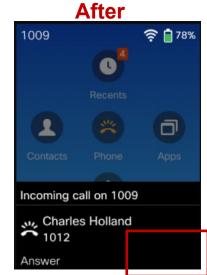
#### **Divert Alerting Call**

- You can control if the **Decline** softkey displays when the users have incoming calls
- To support the Decline function, you set the Divert Alerting Call field in CUCM Device > Phones page

Divert Alerting Call\*

Disabled

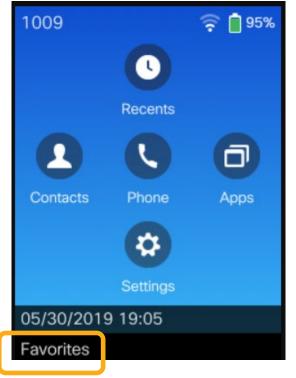




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#### 8821 Favorites

- Users can add or update local contacts from the **Recents** app.
- Users see the **Favorites** softkey on the main screen for quick access to the Favorites list. The Favorites list is also available from the **Contacts** app.
- In the Local contacts list, users see the Delete option when they highlight a contact and press More. In the previous release, the Delete option was only available on the Details screen.



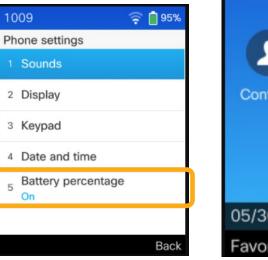
#### display as a percentage.

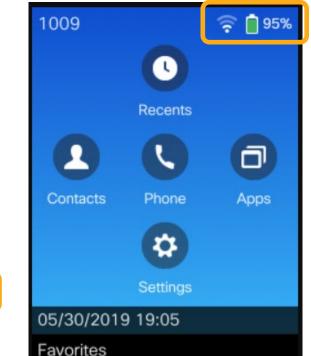
 Battery charge level can display as a percentage. Default is off

8821 Battery Percentage Level

- Battery percentage is a new field under settings
- Battery percentage also now displayed on phone web page

Battery health	Good	Good Battery temperature: 21.6 degrees Celsius			
Battery temperatu	re Battery t				
Battery level	95%				
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#### 8821 Battery Improvements

- · Battery life extended for existing hardware
- New charger hardware to further extend battery

New in 11.0(5) Firmware



Condition	Original Chargers	New Chargers
Phone charged in charger, with wall adapter, or with USB Phone running Firmware Release 11.0(4)SR3 or earlier	9.5 hours	9.5 hours
Phone charged in charger, with wall adapter, or with USB Phone running Firmware Release 11.0(5) or later	11.5 hours	11.5 hours
Spare battery charged in the charging slot	9.5 hours	11.5 hours

\* New charger has voltage label "4.35V Battery Charging" on the back.

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### 8821 Additional Enhancements

- When the phone is in the Desktop Charger, the ringer can now be set to a higher volume level
- You can use the Audio Diagnostics function to troubleshoot audio problems
- You can configure Problem Report Tool (PRT) reports to automatically upload to a remote server
  - You can request a PRT with the X/Open System Interface (XSI) CiscolPPhoneExecute object or from the phone administration web page
- Support for the Cisco Discovery Protocol (CDP)
- Disable TLS 1.0 and TLS 1.1 when using https for web access



New in 11.0(5) Firmware

#### 8821 Best Practices Summary

- Test and evaluate 11.0(5)
- Perform site survey and adhere to the 8821 design guide
  - Short URL = <u>http://cs.co/8821</u>
  - <u>http://www.cisco.com/c/dam/en/us/td/docs/voice\_ip\_comm/cuipph/8821/english/Deploy</u> <u>ment/8821\_wlandg.pdf</u>
- Use PRT tool in 11.0(5) or higher for TAC cases
- Use 8821 dock to provision over wired network \*or\* use the Bulk Deployment Utility
- Battery Installation Video

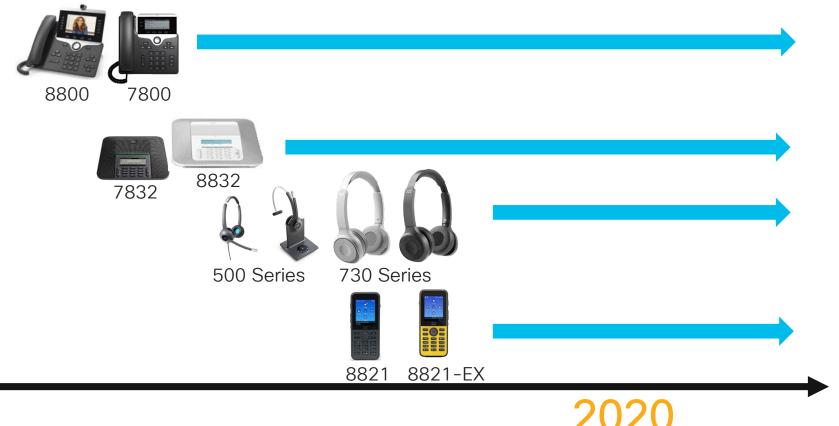
https://video.cisco.com/detail/videos/products/video/5822559992001/8821-battery-installation-video?autoStart=true

Battery Performance Whitepaper

https://www.cisco.com/c/dam/en/us/products/collateral/collaboration-endpoints/wireless-ip-phone-8821/white-paper-c11-740897.pdf



#### A Short History of Cisco IP Phones



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**Phone Evolution** 

#### Call to Action

- Head down to the World of Solutions and see these products
- Evaluate firmware 12.5(1)SR3 and 12.7 on 78xx and 88xx
- Evaluate CUCM 12.5 SU1 or CUCM 11.5 SU7 for Cisco Headset 500 and 730 Series
- Continue to Post questions to BRKUCC-2050 Webex Teams room

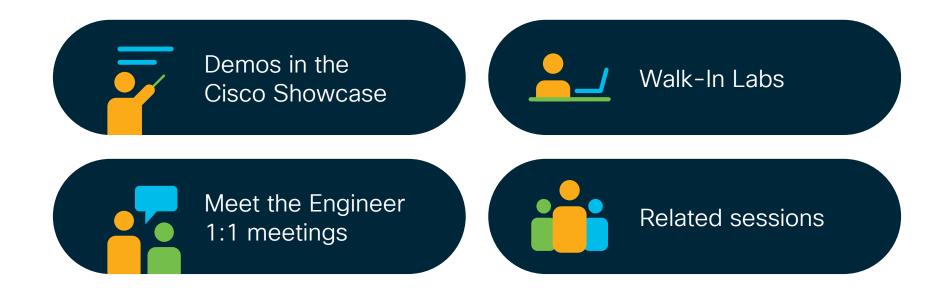
#### Complete your online session survey



- Please complete your session survey after each session. Your feedback is very important.
- Complete a minimum of 4 session surveys and the Overall Conference survey (starting on Thursday) to receive your Cisco Live t-shirt.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Content Catalog on <u>ciscolive.com/emea</u>.

Cisco Live sessions will be available for viewing on demand after the event at <u>ciscolive.com</u>.

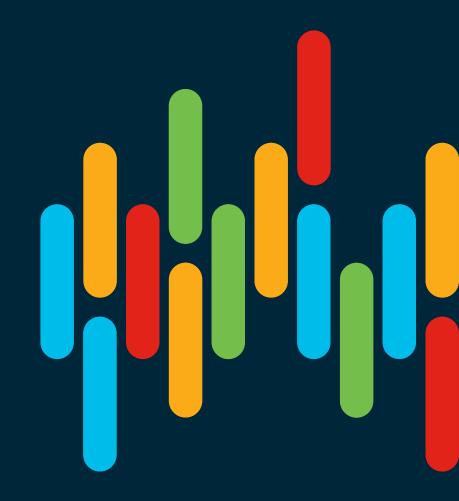
#### Continue your education



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## Thank you



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# 

## You make **possible**