The bridge to possible

Cisco Desk Series

Deep Dive

Charlie Thorpe, Collaboration Technical Marketing Engineer
@Webex_se

cisco Live!

BRKCOL-2390

Agenda

- Introduction
- Cisco Desk Pro
- Cisco Desk
- Cisco Desk Mini
- Cisco Desk Cameras
- RoomOS Platform Features
- Vertical Deployment Scenarios

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Cisco Webex App

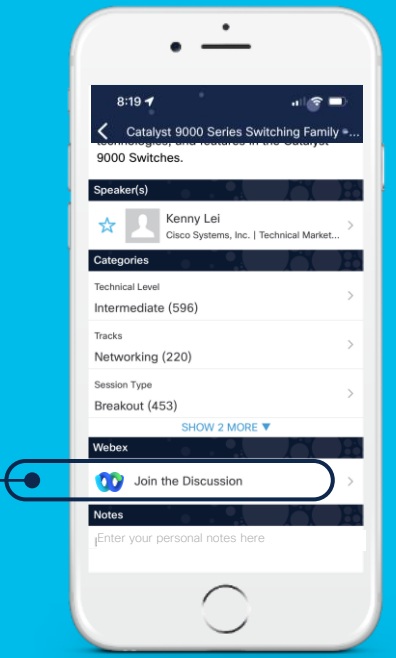
Questions?

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

How

1. Find this session in the Cisco Live Mobile App
2. Click “Join the Discussion”
3. Install the Webex App or go directly to the Webex space
4. Enter messages/questions in the Webex space

Webex spaces will be moderated until February 24, 2023.



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The Cisco Desk family

Desk Camera 1080p

Desk Camera 4k

Desk Mini

Desk

Desk Pro

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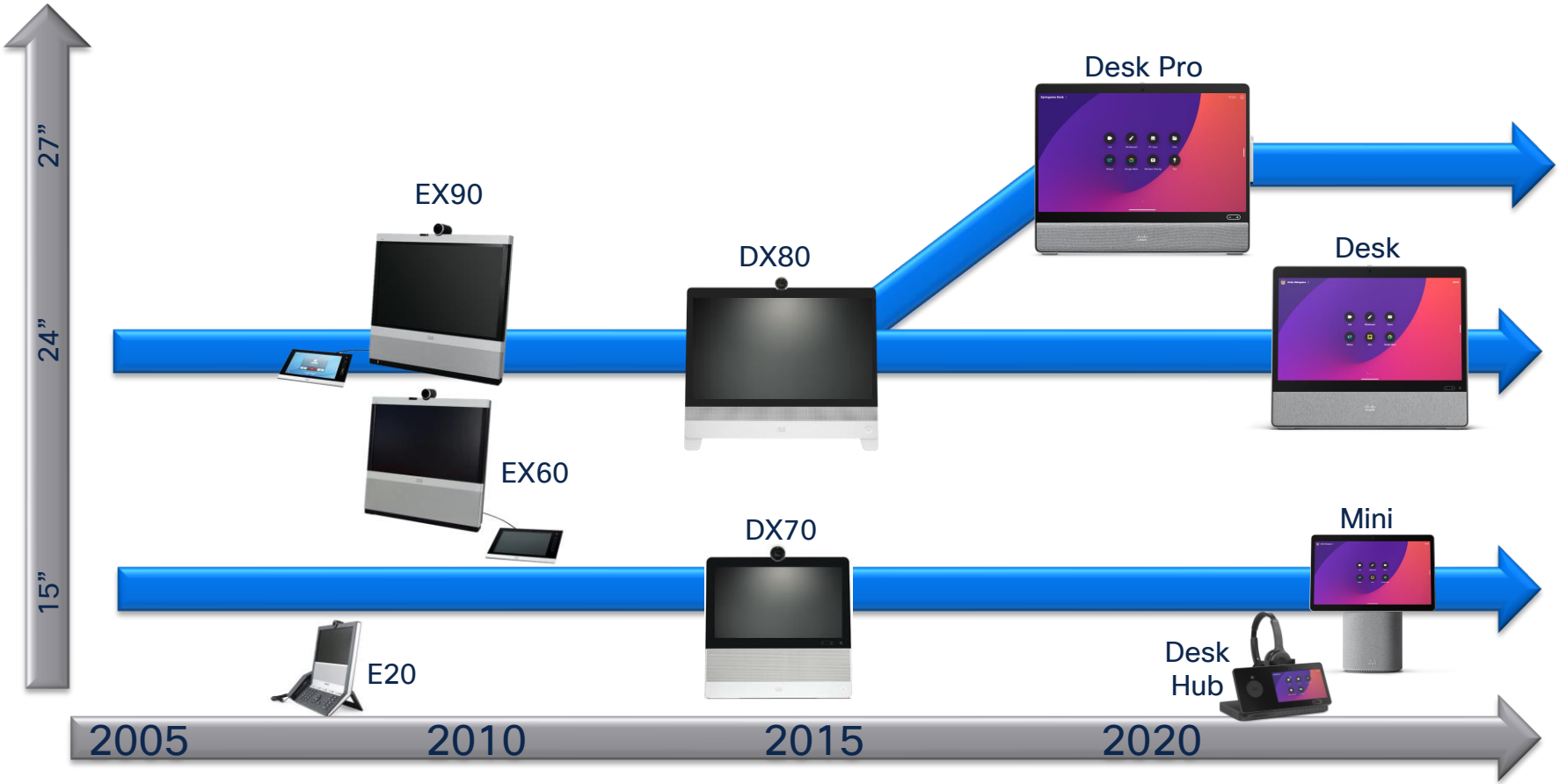
Evolution of the Webex Desk Series



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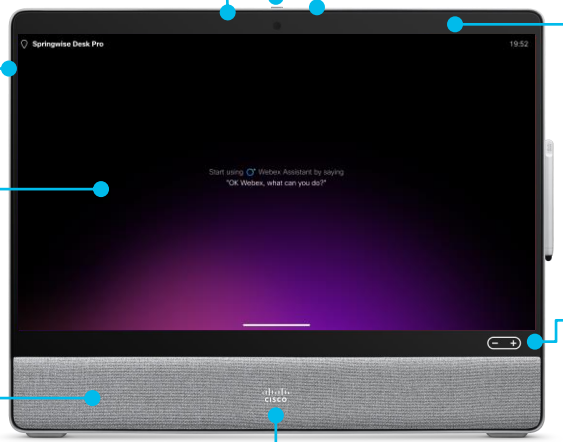
Cisco Desk Pro

Introduction to the Cisco Desk Pro



6 + 2 Beamforming Mic Array with AI Noise Cancellation

Fixed lens 4k camera with integrated privacy cover (70+ deg HFoV) and best view

Sensors (IoT/Proximity)

Wifi / Bluetooth

27in 4K anti-glare touch screen (local or Webex whiteboarding / annotation)

Passive Stylus with magnetic hook

Back-lit touch buttons (Vol / Mic Mute)

3x Full Range directional speakers + subwoofer (Bass)

Power Button

Cisco weave speaker fabric. **Optional replaceable metal speaker grille (wipeable)**

Fan-less Heatsink

Integrated tilting stand (exchangeable with VESA Mount)

Factory Reset

HDMI-OUT (Future)

HDMI-IN

2 x USB-A

USB-C
- 60 Watts charging
- Touch Redirect
- Camera, Mic, and Speaker as PC peripherals

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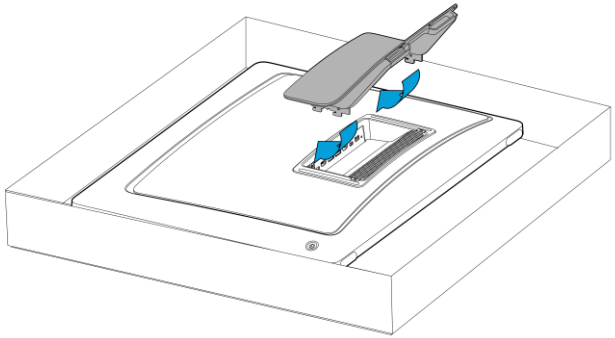
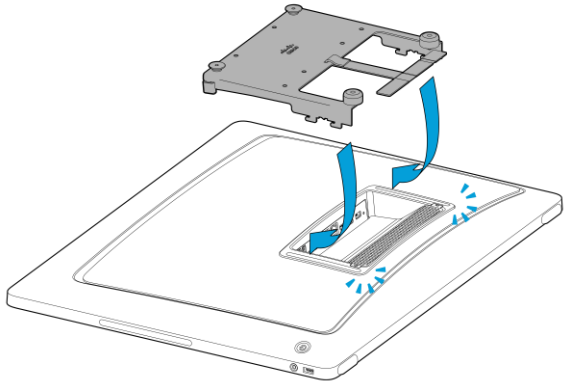
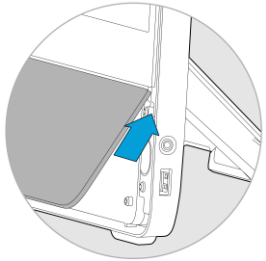
Key Features

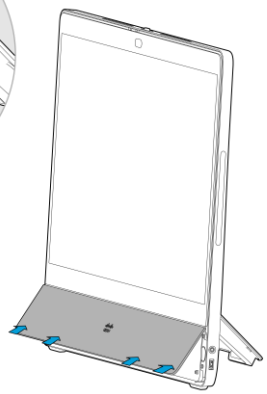
- Calling and Sharing
- Whiteboard
- Webex Meetings
- Noise suppression
- Immersive Share
- Virtual Backgrounds
- Webex Assistant

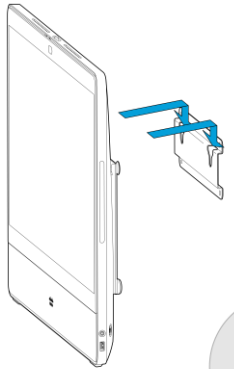
Easy installation – desk stand, wall mount, grille

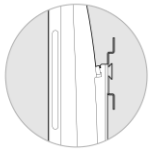












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Cisco Desk

Key Features of the Cisco Desk

- Calling and Sharing
- Whiteboard
- Webex Meetings
- Noise suppression
- Immersive Share
- Virtual Backgrounds
- Webex Assistant
- Wireless sharing

- 24" Screen &1080p
- One center speaker
- 4 beamforming array
- 64 degrees FOV
- Virtual backgrounds
- USB-C forwarding
- Optional metal grille
- Rear Power Button

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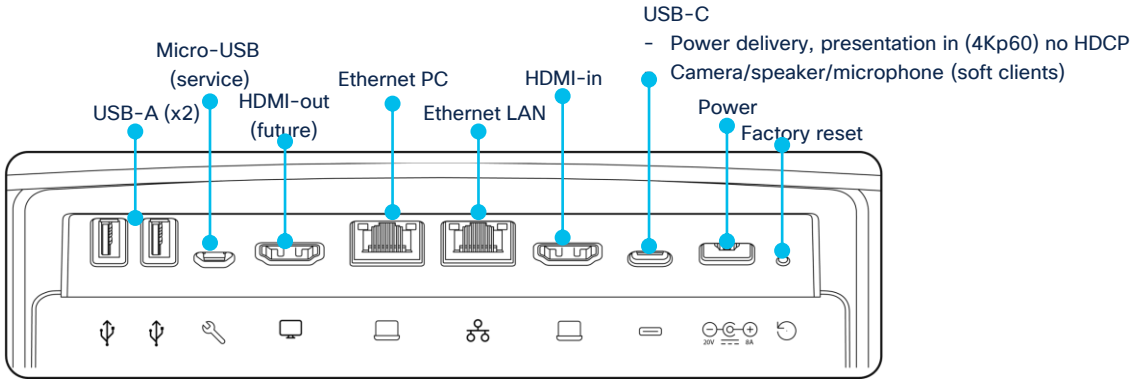
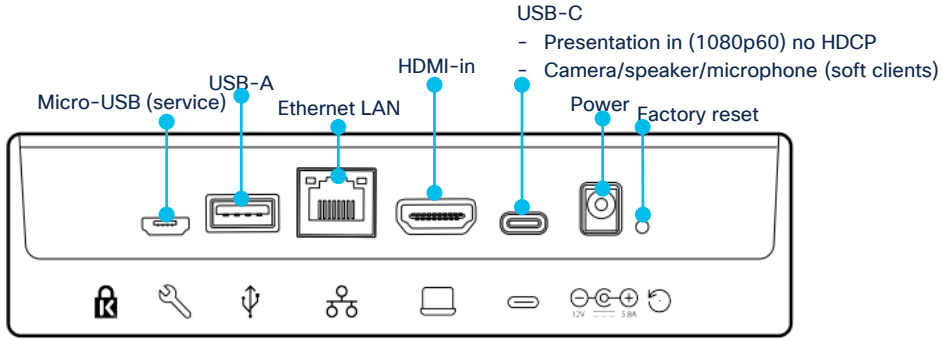
Comparison of ports – Cisco Desk Pro vs Desk

Cisco Desk Pro



Cisco Desk



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Cisco Desk – Color Options

In addition to our familiar First Light (White), you can choose the dramatically deep Carbon Black. Please note: Limited run of Nordic Blue, Forest Green and Desert Sand have now finished.

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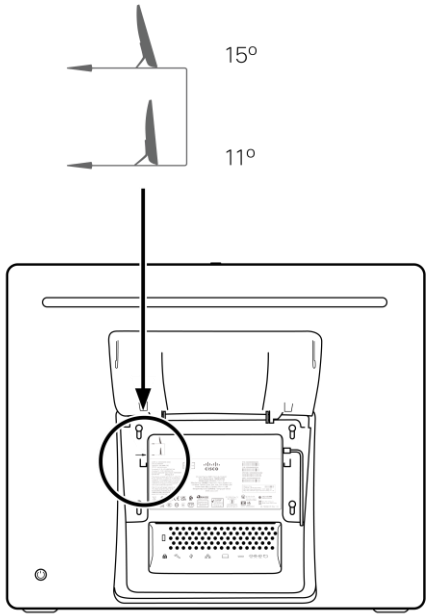
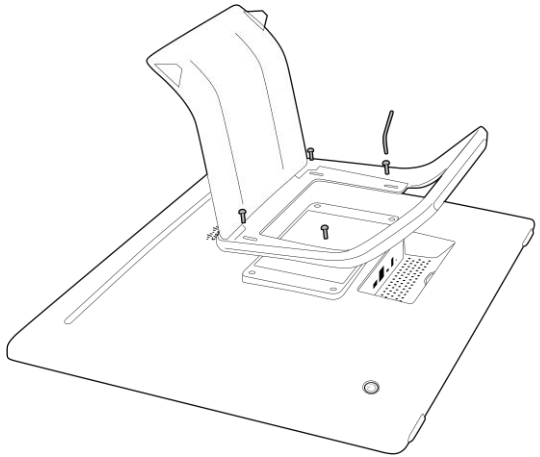
Stand for Cisco Desk

- A 15- or 11-degree tilt angle depending upon screw placement
- Screws positioned at the top results in 11-degree tilt
- Screws positioned at the bottom results in 15-degree tilt
- Stand includes L shaped Allen wrench
- Arrow on stand indicates degree of tilt





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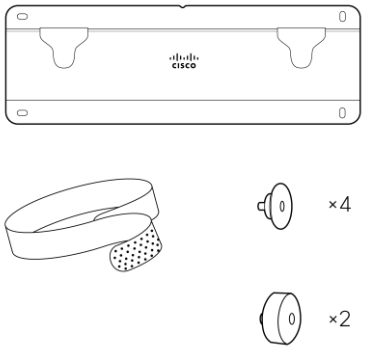
Wall Mount for Cisco Desk

- The VESA bracket is not needed for Cisco Desk
- 4 bolts are added to the back of unit.
- Top two bolts slide into the wall mount.
- Bottom bolts include rubber feet to allow for the offset that the wall bracket creates.



https://www.cisco.com/c/dam/en/us/td/docs/telepresence/endpoint/desk-series/installation-guide/cisco-webex-desk-installation-guide-multilingual.pdf

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The Cisco Desk Pro compared with Cisco Desk

	Desk Pro	Desk
Size	27”	24”
Resolution	4k	1080p
Audio	Stereo speakers 3.1 6+2 beamforming mic array, 3.5mm mini jack	One center speaker 4 beamforming mic array
Camera	4K Ultra HD, HFOV 71° Automatic tilt, 2 x digital zoom	8MP HD, HFOV 64° Automatic tilt, 2 x digital zoom
Virtual background support	Yes	Yes
USB-C Capabilities	Screen share; Windows touch forwarding; Camera, Mic, and Speaker as PC peripherals; laptop power (up to 60W)	Screen share; Windows touch forwarding; Camera, Mic, and Speaker as PC peripherals
Changeable speaker grille	Yes (default is fabric)	Yes (default is fabric)

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Cisco Desk Mini

Cisco Desk Mini

Hardware at a glance

Premium microphone array (2+1)
For focused sound pick-up

15 in Full HD touch screen

Integrated 2.5-way premium speaker system with tweeter and dual woofers

Integrated power supply (cable connection underneath)

8MP camera with integrated privacy shutter
LED in-call indicator

Volume up/down and mute buttons
LED mute status

Temperature/humidity sensor

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Portability

- Desk Mini is equipped with an integrated handle for easy transportation.
- All you need is to connect the power cable, switch on and you can work from wherever you like.
- Integrated power supply
- Wi-Fi support for:
  - 802.11a/b/g/n/ac
  - 2.4 GHz/5 GHz
  - 2x2 MIMO

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Connectivity

1
- USB Type A
- Max 7.5W max PD

2
- Ethernet (10/100/1000)

3
- USB Type C
- Audio and video (1080p60 input)
- Camera/mic/touch output
- 7.5W max PD

4
- Service (micro USB)

5
- Port cover (magnetic)

6
- Power connection (underneath Desk Mini)

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Cisco Desk Mini – Color Options

In addition to our familiar First Light (White), you can choose the dramatically deep Carbon Black. Please note: Limited run of Nordic Blue, Forest Green and Desert Sand have now finished.

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Cisco Desk Cameras

Introducing the Cisco Desk Camera Series

- Cisco Desk Camera 1080p

- Cisco Desk Camera 4K

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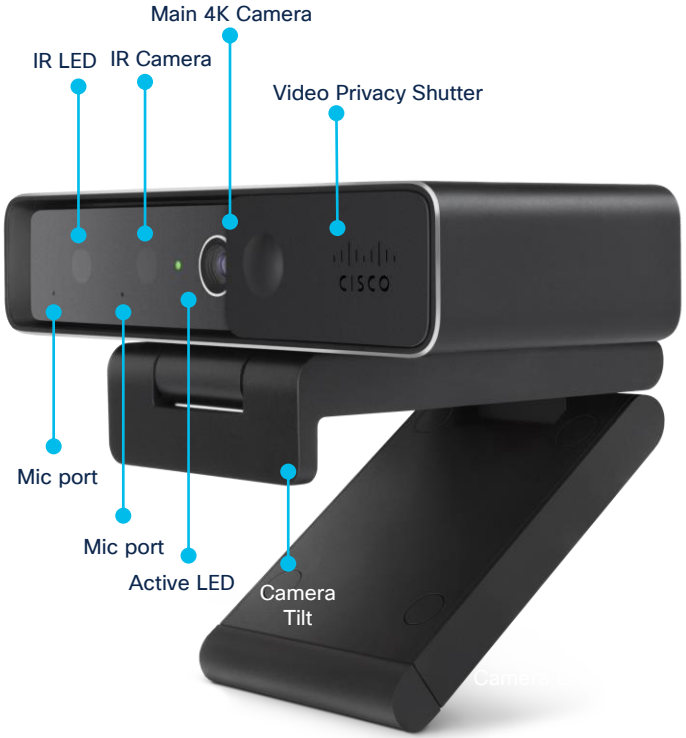
Cisco Desk Camera 4k



Platinum Desk Camera

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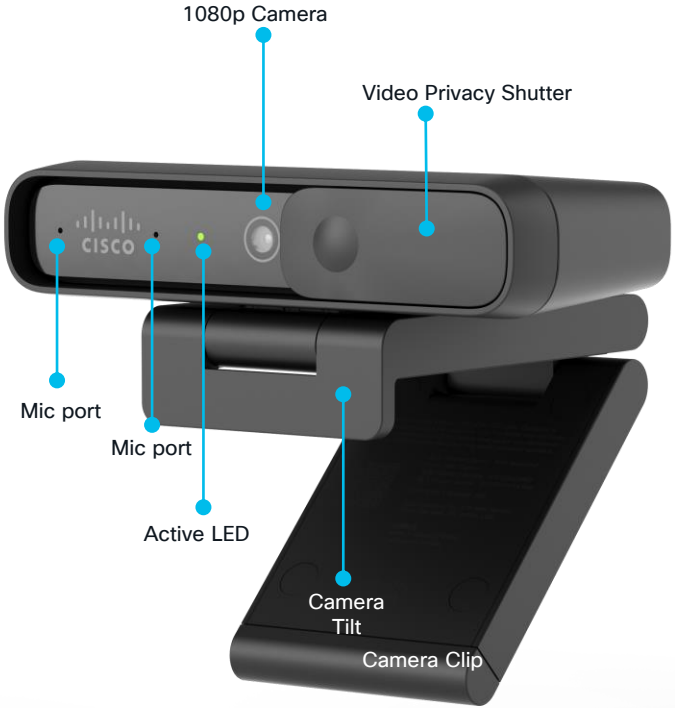
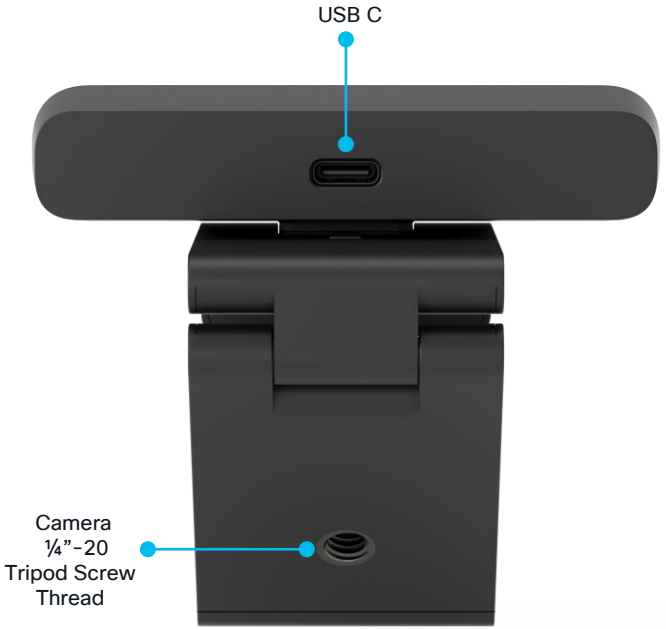
Cisco Desk Camera 1080p





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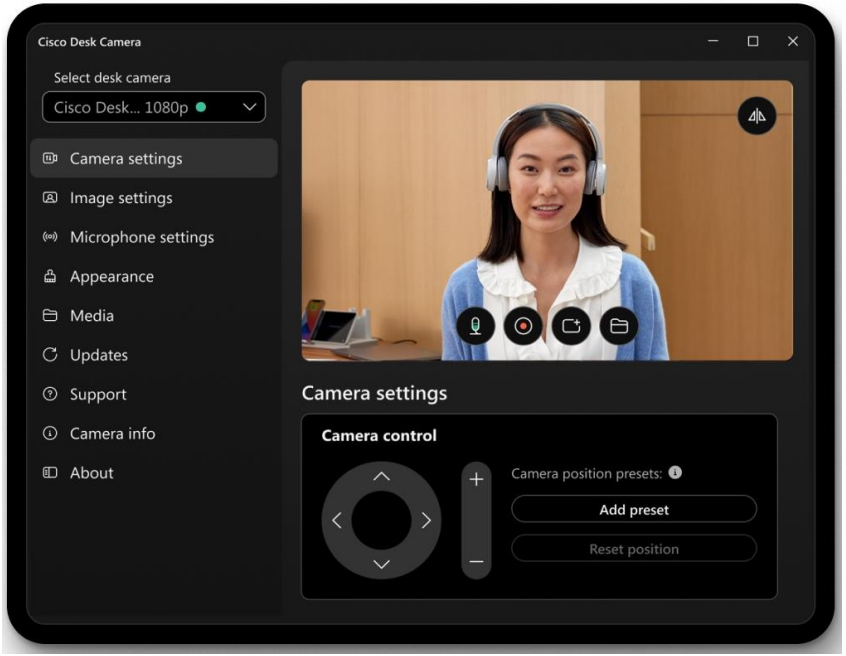
Comparing Cameras

	Desk Camera 1080p	Desk Camera 4k
Color	Carbon Black	Carbon Black, Platinum
Material	Plastic	Aluminum
Max resolution	1080p	4k
Best Overview	No	Yes
Image Sensor	8MP	13MP
Digital zoom	4x	10x

Cisco Desk Camera App



To manually upgrade go to upgrade.cisco.com/accessories or use app.
Note: Webex app and Desk Hub can automatically upgrade

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Desk portfolio – key features comparison

	Desk Mini	Desk	Desk Pro
Size	15-inch	24-inch	27-inch
Resolution	1080p	1080p	4k
Audio	2.5 loudspeaker system with dual woofers and tweeter Dual mic array + single mic	Full-range mono loudspeaker 4 mic array	Stereo speakers 3.1 6+2 beamforming mic array
Camera	8MP Automatic tilt Digital zoom	8MP Automatic tilt Digital zoom	4K (Ultra HD) Automatic tilt Digital zoom
Virtual background support	Yes	Yes	Yes

Check compliance class and local regulations before deploying devices in homes

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Desk portfolio – key BYOD feature support

	Desk Mini	Desk	Desk Pro
USB-C capabilities	Screen share Client agnostic Windows touch forwarding	Screen share Client agnostic Windows touch forwarding	Screen share Client agnostic Windows touch forwarding Laptop charging (60 watts)
Smartphone wireless charging	Yes via USB-A	Yes via USB-A	Yes via USB-A
Bluetooth®	Yes	Yes	Yes
USB Headset support	Yes	Yes	Yes
3.5 mm mini jack	No	No	Yes
Dual Display	No	No	Yes (HMDI out – roadmap feature)

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RoomOS Platform Features

Tutorials

- Registration
- Noise Removal
- OBTP and Sharing
- Layouts
- Webex Assistant
- Whiteboard
- Touch Redirect
- Immersive Share
- Virtual Background
- Adjust Camera View

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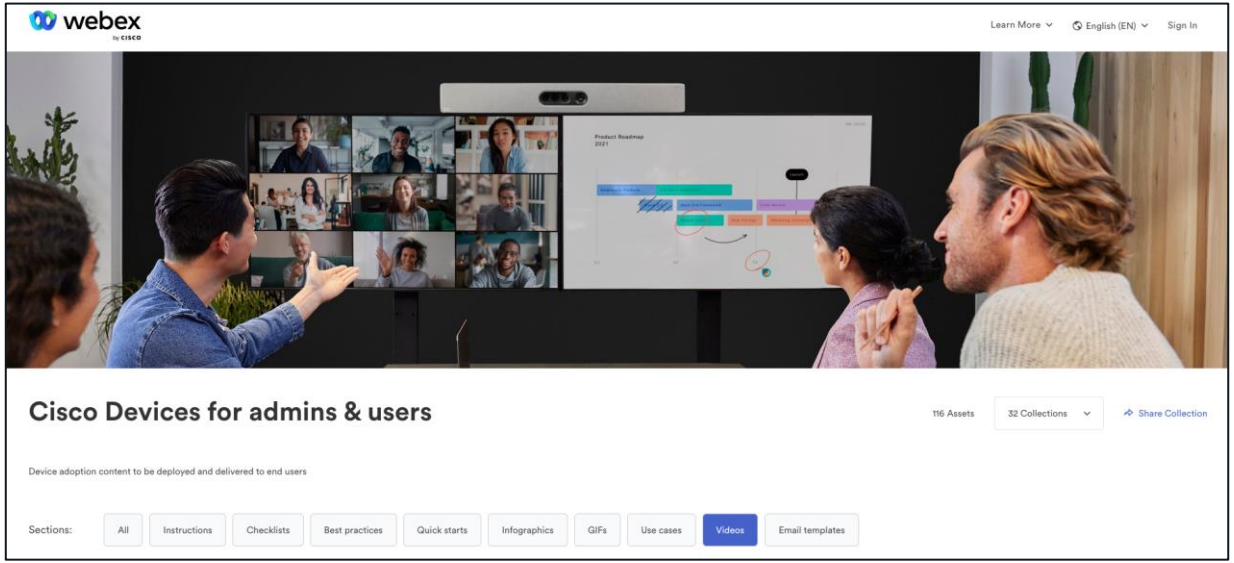
Where to find?



- https://resources.webex.com/webex-essentials/cisco-devices
- Click “Videos” section
- Tutorials localized in different languages

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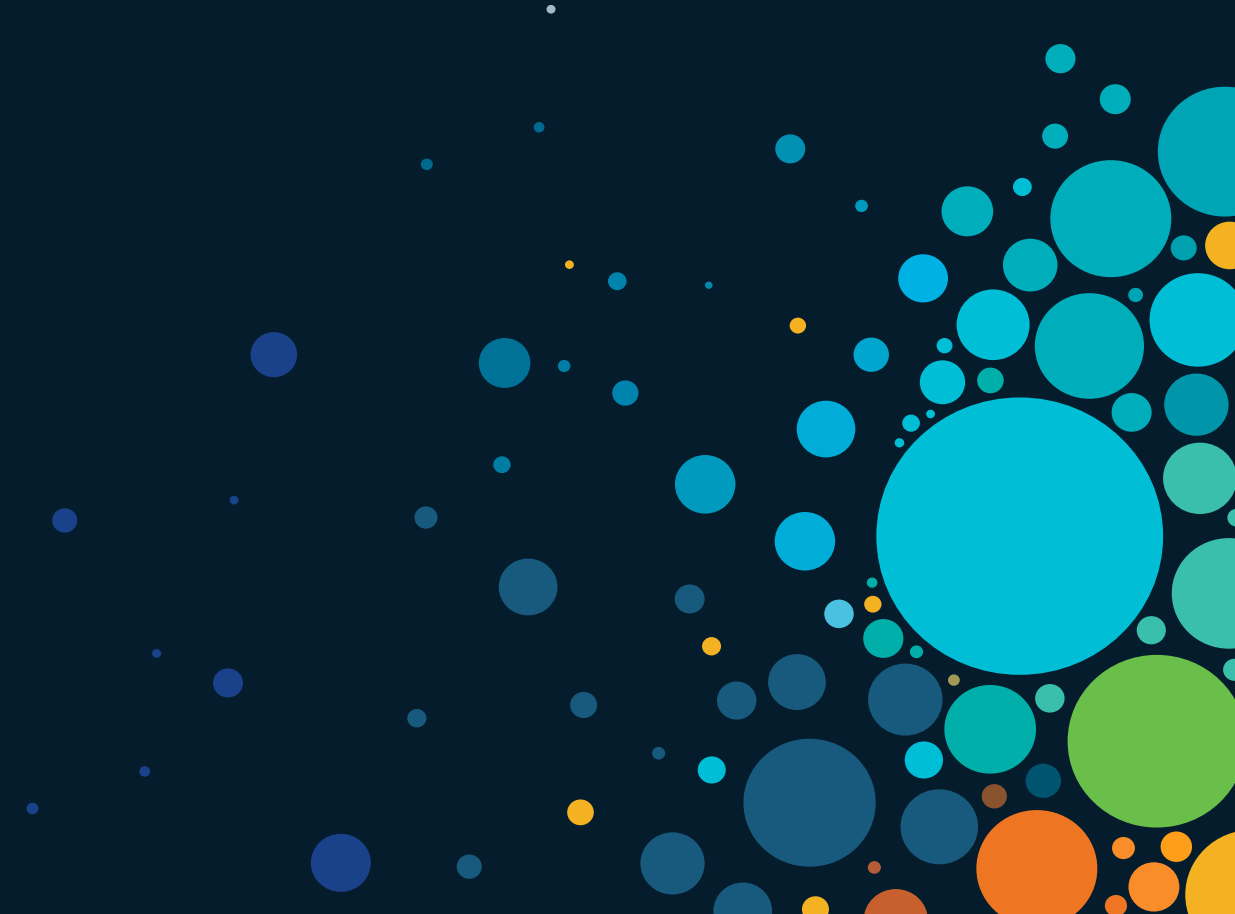
Hotdesking



RoomOS Hotdesking Options

USB-C

QR

	Desk Pro	Desk	Desk Mini
USB-C + laptop	Yes	Yes	Yes
QR Code	Yes	Yes	Yes
NFC	No	No	No

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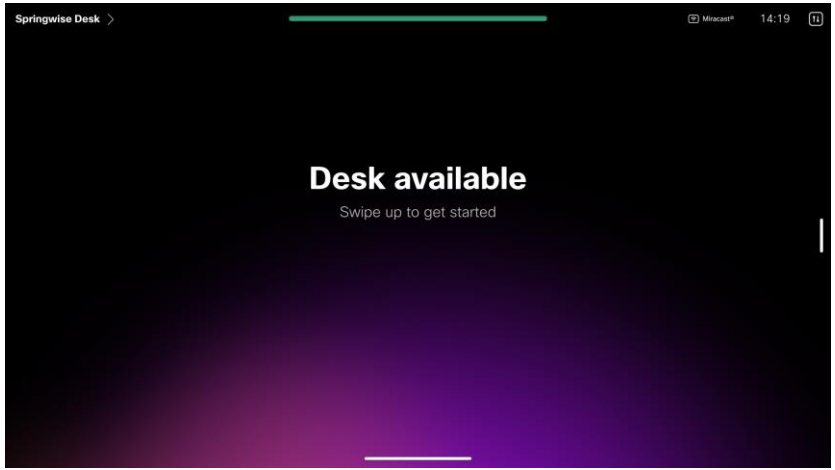
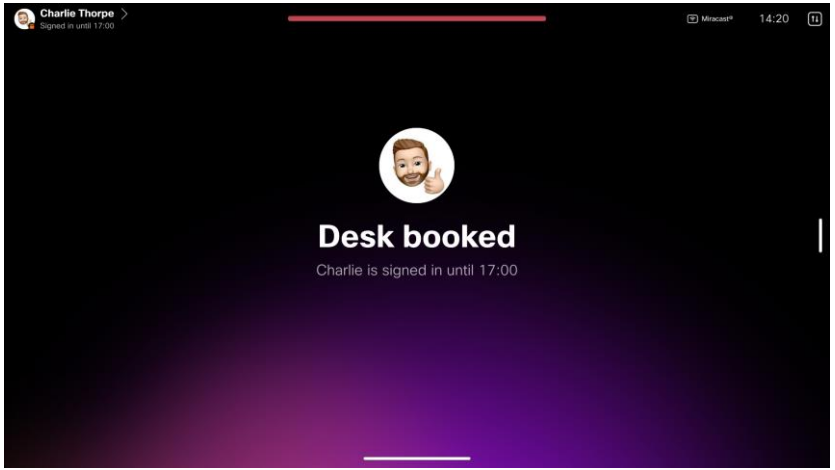
End User Workflow – Before and After Sign-in





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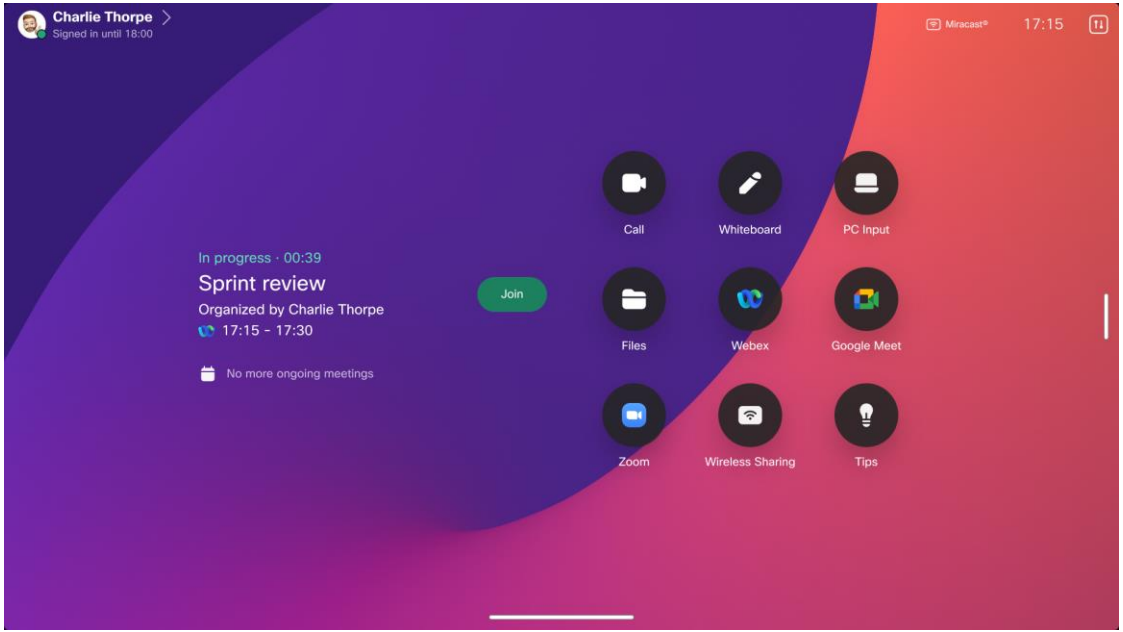
End user signed in

- Logged in device will behave in the same way as a Personal Mode device
  - Meeting notifications
  - Presence status



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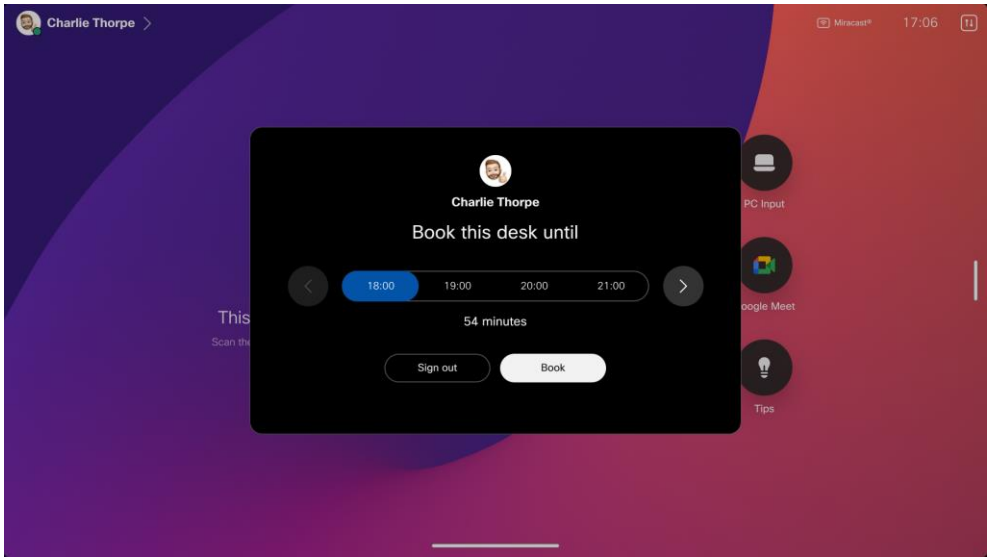
End User Workflow – Book the Desk

- Choose one hour booking slots
- Defaulted to 5 pm local time
- Can book all the way until end of the day – 11:59PM
- Use left arrow to choose an earlier time to end booking
- Use ‘Sign out’ if you have changed your mind.
- Device will return to ready state if no interaction.
- If AirPlay and Miracast® are configured, they will also be available when the user is logged in



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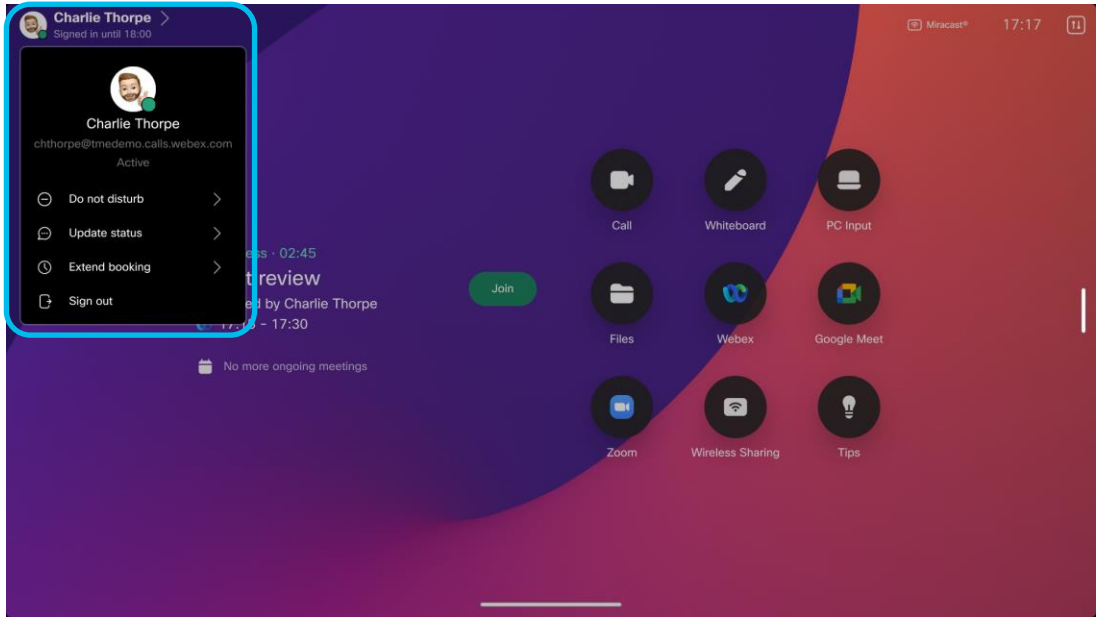
End User Workflow – Sign-out

- You can wait for booking session to expire. Desk device will then automatically sign the user out.
- Manually sign out by clicking name in the upper left corner and then choosing Sign out
- You can also sign out from the Webex app by selecting “Sign out”



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Hotdesking Administration

Admin Hotdesking Enablement Overview

Administration of Hot Desking is carried out the Webex Control Hub.

Creating a new Hot Desking Workspace

1. Create a new Workspace in Control Hub configured with Hot Desking
2. Create activation code for Cisco Desk series device
3. Modify Desk Series configuration

Modify an existing Workspace

1. Select existing Workspace to be modified.
2. Modify Scheduling options
3. Modify Desk Series configuration

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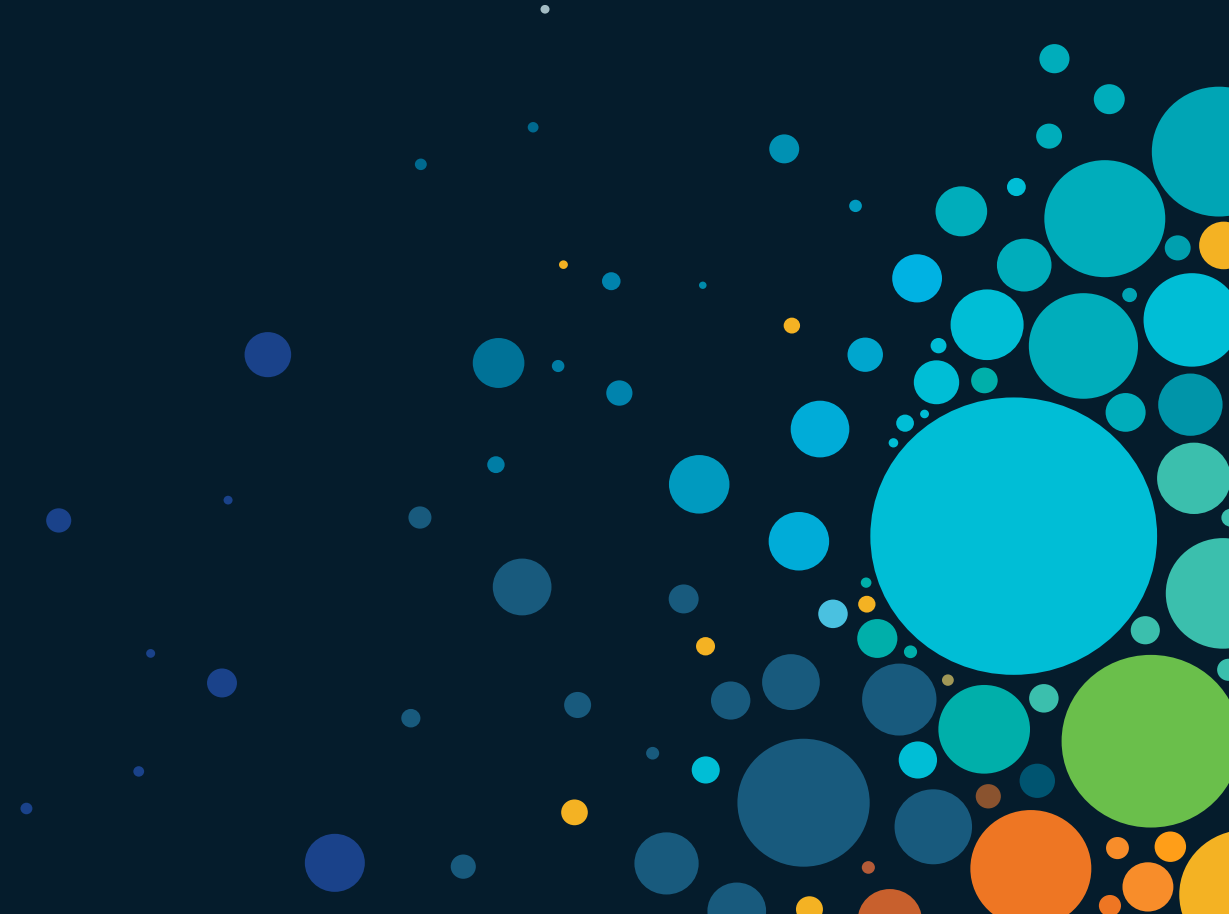
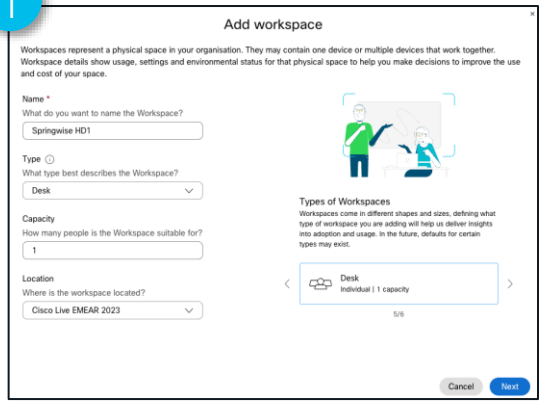
Creating new Hot Desking workspace



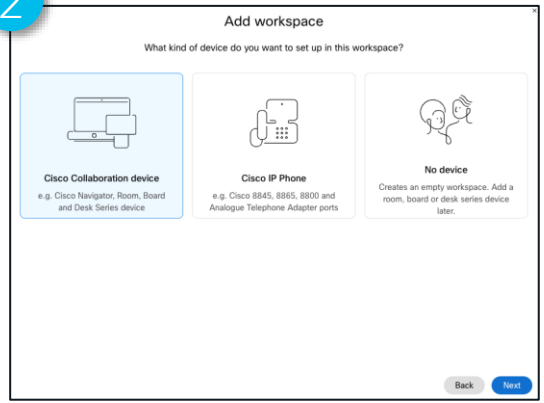
Create new workspace and enable with Hot Desking

1



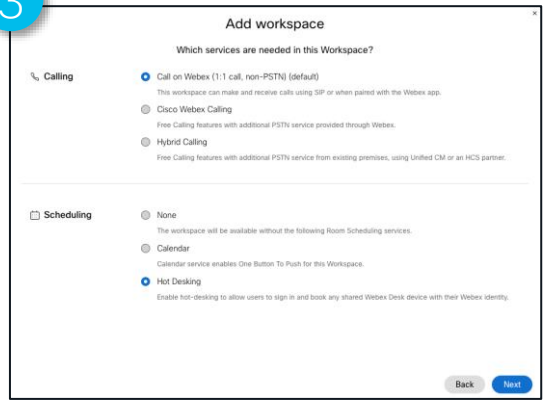
Control Hub > Add workspace

2



Cisco Collaboration device

3



Scheduling > Hot Desking

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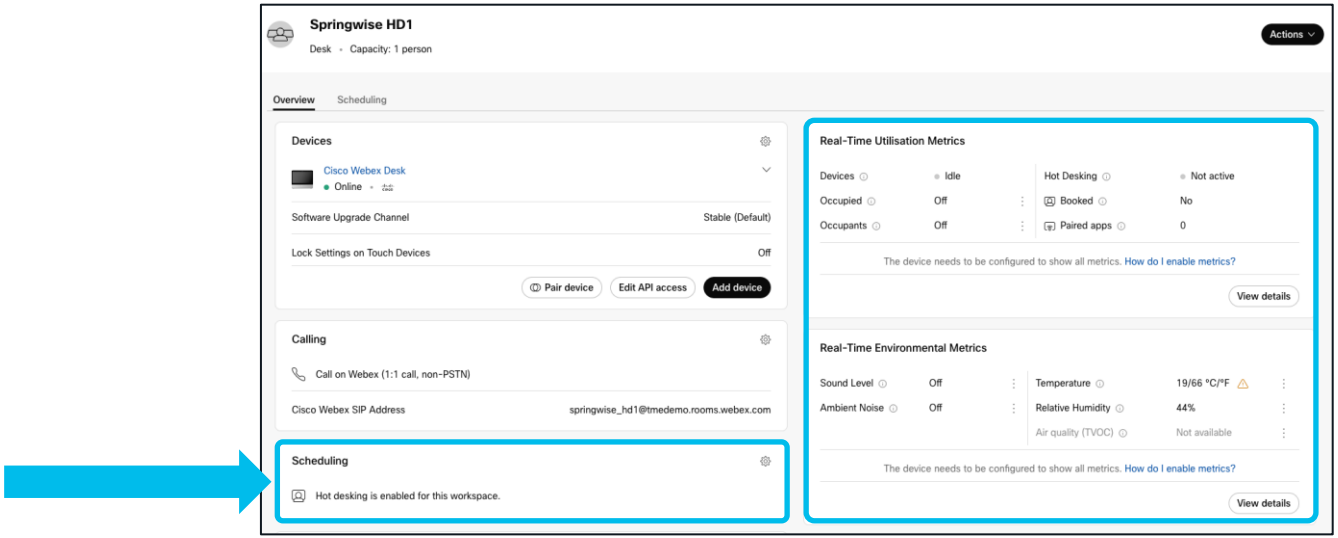
Create new workspace and enable with Hot Desking

Once the device activation code has been generated and the Cisco Desk Series device has been activated, your workspace will look similar to the image below.



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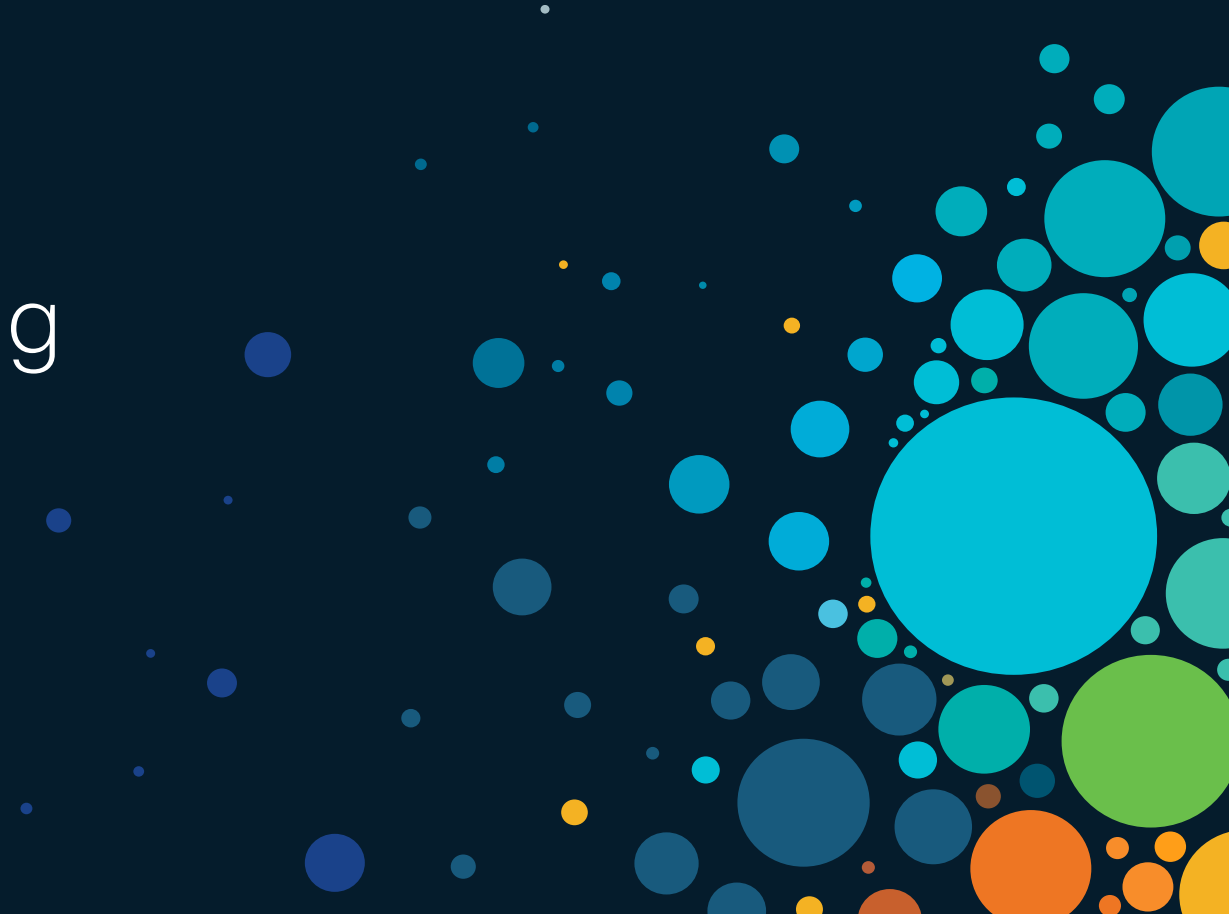
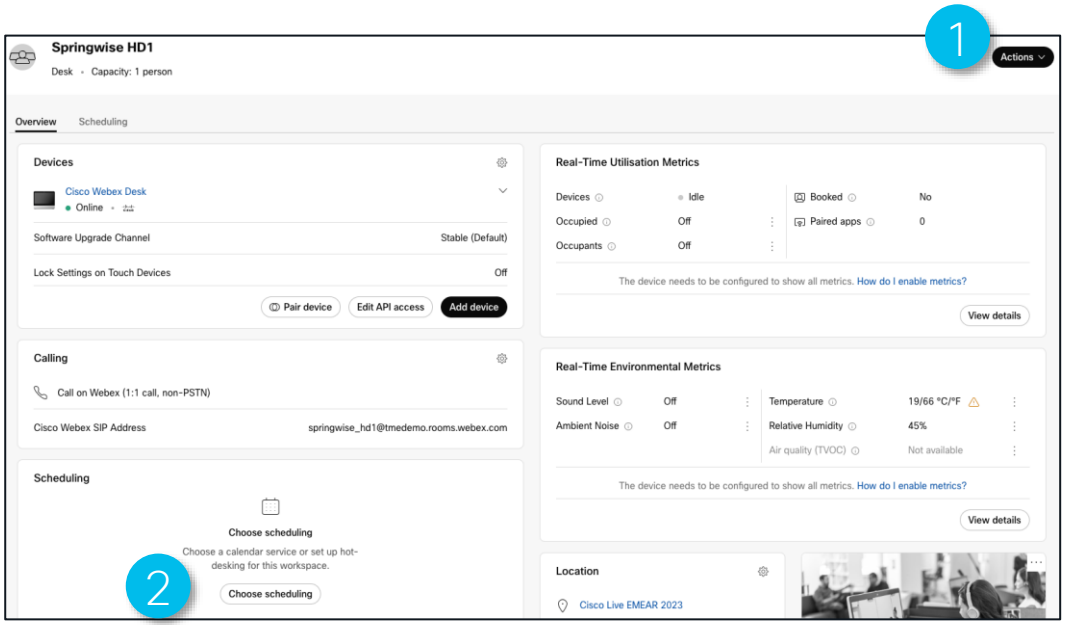
Modify existing Workspace



Modify existing Workspace

An existing Workspace can be modified to support Hot Desking:

1. Modify if applicable the Workspace name, type and capacity.
2. Modify scheduling
   - Choose scheduling > Hot desking
   - Cogged wheel > **remove** Hybrid Calendar activation from the Workspace (None > Save) and then enable Hot Desking.



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End result of Hot Desking configuration

- Once Hot Desking has been configured, the Cisco Desk Series device will reconfigure the User Interface to display options for Hot Desk login

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Optional but highly recommended configuration changes

- By default, the Desk Series will go into standby and turn off screen.
- Unless standby is disabled, the end users will be unable to see the availability status of the Cisco Desk series device.
- Set Ultrasound to zero to disable it. This avoids wireless pairing in an office that has an open seating area.
- Can be configured from Control Hub (Per Device or in Bulk or set as part of a template). Can also be configured via the Device WebUI.
- Workspace Analytics – configuration of:
  - RoomAnalytics > PeopleCountOutOfCall
  - RoomAnalytics > PeoplePresenceDetector
  - RoomAnalytics > AmbientNoiseEstimation > Mode

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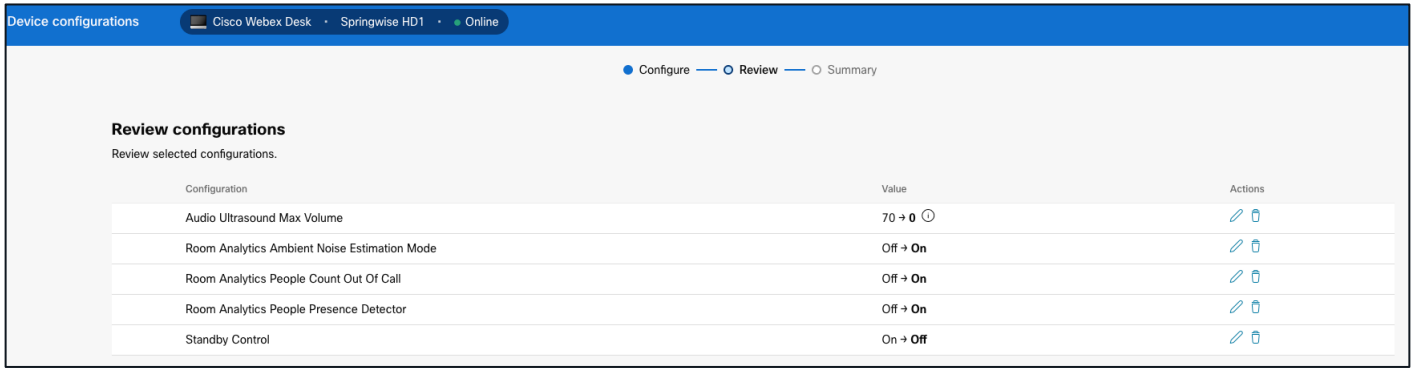
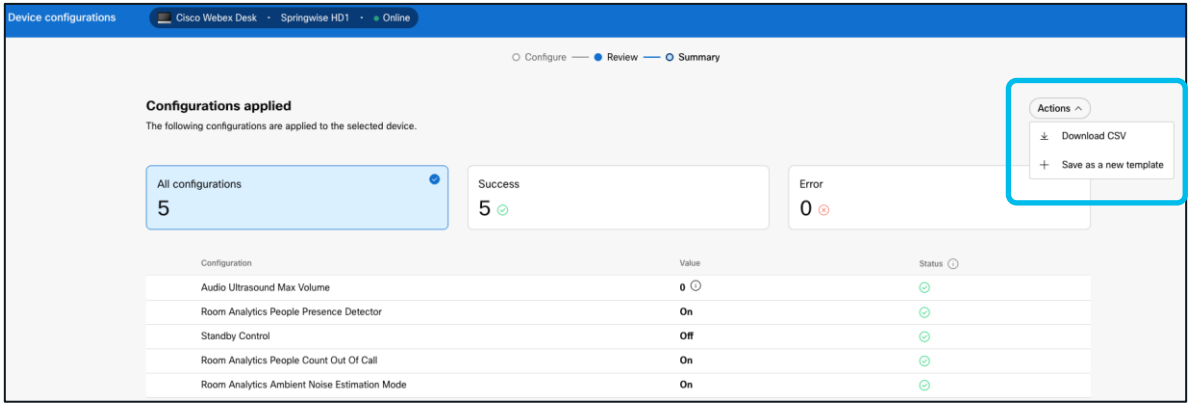
Optional but highly recommended configuration changes

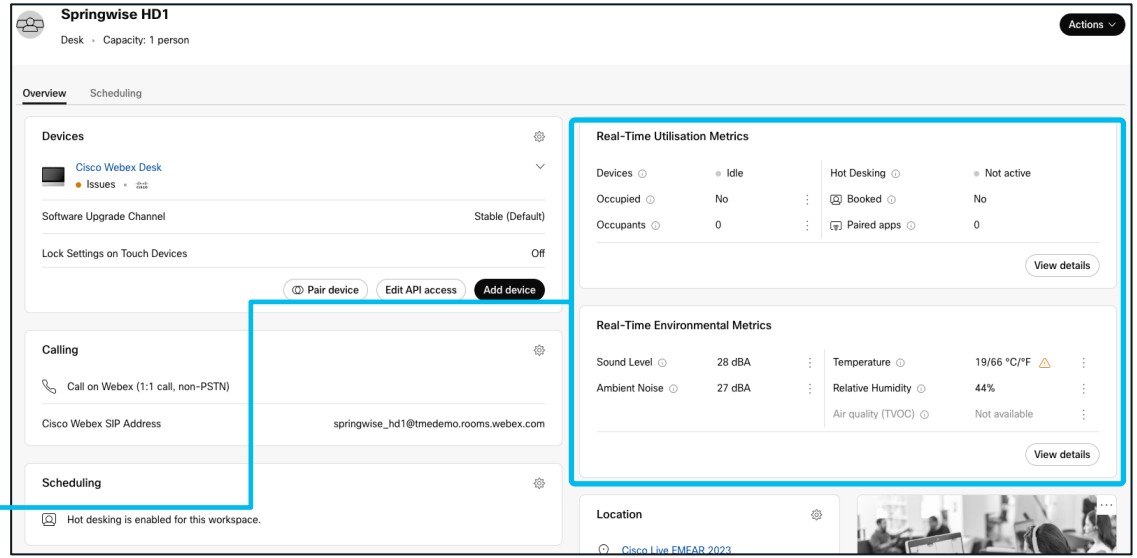


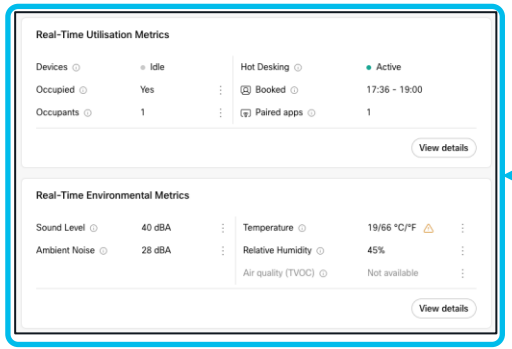


Webex Control Hub

Control Hub is your single pane of glass for

- Workspace management
- Device Management
- User Management
- Services Management





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Additional considerations for Hot Desking configurations – my favorites!

- QR Code login.
  - Default is On. Can be turned off.
- USBCxAPI login.
  - Default is On. Can be turned off. Allows login via USB-C cable.
- Miracast®
  - Default is off. Configured from Control Hub (only supported of the Cisco Collaboration device is connected to a wired network)
- AirPlay
  - Default is off. Configured from Control Hub.
- UserInterface > Theme
  - Default is set at Auto (light grey screen). Option to set to Night

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RoomOS 11
User Experience

RoomOS 11

- RoomOS November introduced the first release of RoomOS 11 software (Cloud registered or Webex Edge for Devices with Cloud Upgrade Mode enabled)
  - RoomOS 11.0.1.9
- RoomOS on-premises supports the RoomOS 11 User Experience with the latest on-premises release
  - RoomOS 11.1.2.4 (released February 6th 2023)

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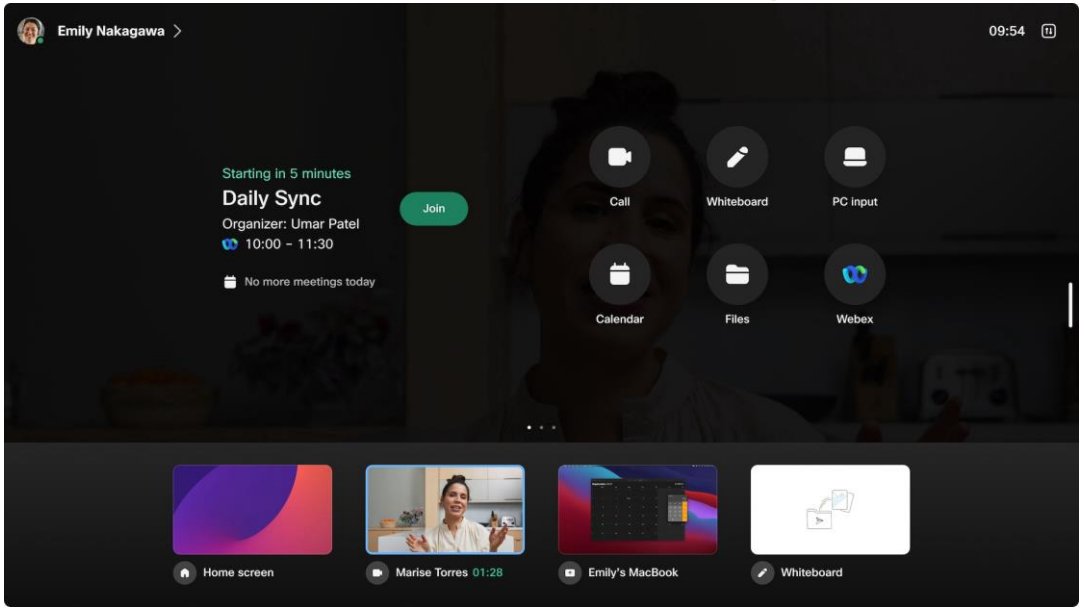
RoomOS 11 Experience

Headlines

- People focus layout options.
- Resize your image on immersive share.
- Expanded reactions set and skin tone support.
- Open Microsoft OneDrive whiteboards on Desk and Board.
- Hotdesking for Desk Series.
- Kiosk Mode.
- Real-time translations in Webex meetings
- Simultaneous interpretation.
- Miracast®
- AirPlay



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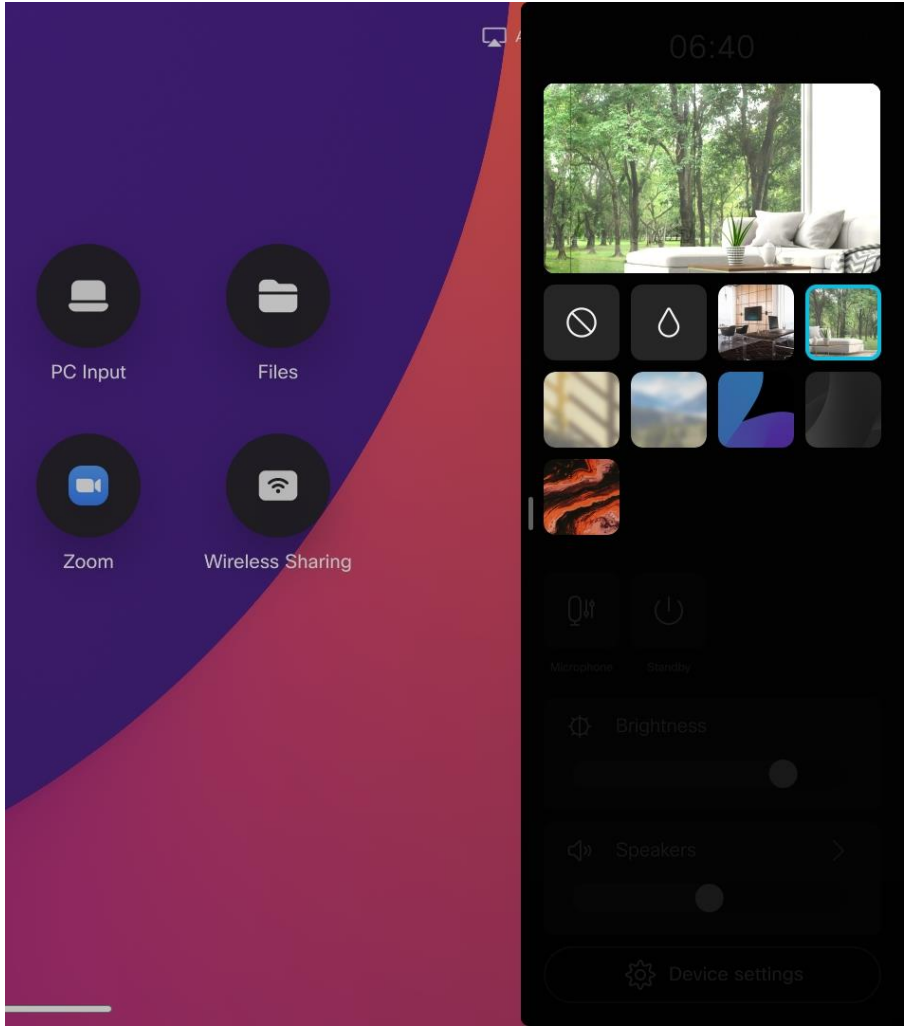
Virtual backgrounds

- Create a virtual office by replacing your background in real time.
- Choose to blur your current background or select from pre-loaded images.
  - Cisco Desk Pro
  - Cisco Desk
  - Cisco Mini
- Personal Mode users can also install their own backgrounds via settings.webex.com



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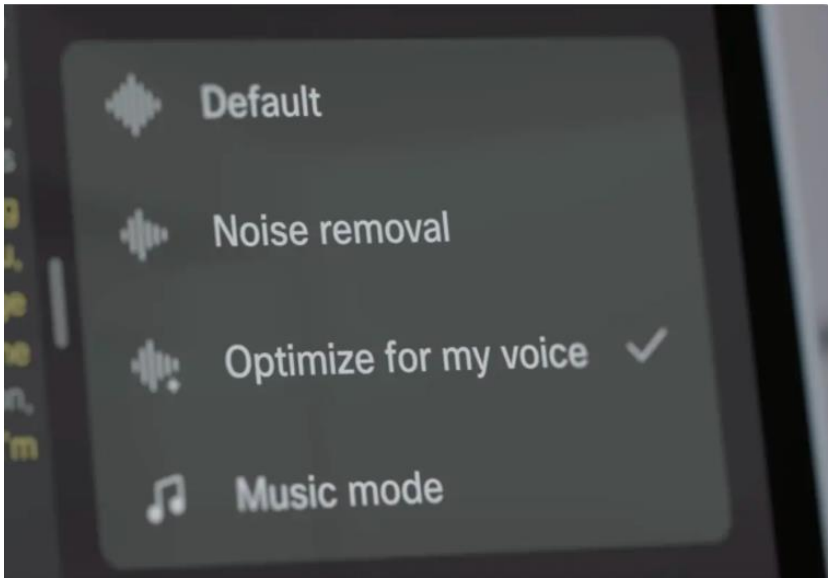
‘Yes’
Hi! Would you like to join this meeting now?
Webex® Assistant

Noise Removal



Cisco Desk Series comes with advanced AI capabilities built in, like noise removal and background replacement to keep you productive no matter your surroundings.

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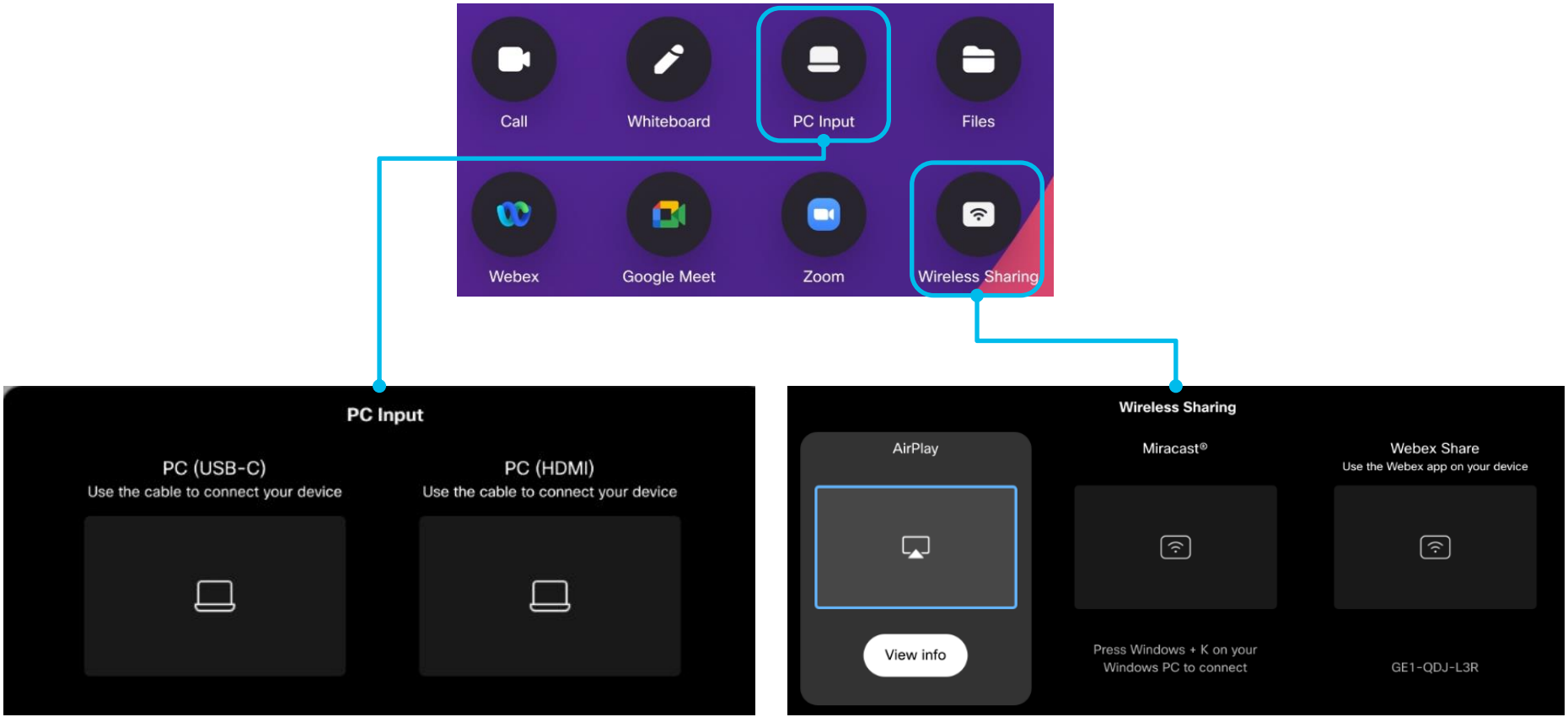
Sharing Support



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Miracast® Support

Windows Button + K on a PC

- Miracast® provides a wireless content sharing solution without the need for a client or a connection to the guest/enterprise network as a direct network connection is established from the Windows PC/Android device to the Webex device using Wi-Fi Direct.
- Requires RoomOS 11
- Cisco Collaboration device must be on ethernet connection (not wireless)
- Senders hardware must support Wi-Fi Direct
- Cisco Collaboration devices supports Wi-Fi Direct receiver on 2.4Ghz frequency band
- Share resolution up to 1080p60 with H.264 video
- Admin Controlled

  `xConfiguration Video Input Miracast Mode: On`
- User Controlled

  `xConfiguration Video Input Miracast Mode: Manual`

- There are two versions of the Wi-Fi Display Technical Specification, R1 and R2.
  - Cisco Collaboration devices currently only support R1
  - Webex Desk Hub does not support Miracast
  - Cisco Collaboration devices do not support HDCP over Miracast. Some Android devices require HDCP support.
- Cisco Collaboration devices use TCP port 7236 for Miracast signaling
  - Miracast will not work if this port is blocked
- Devices with built-in Miracast support:
  - Windows 8.1 and above
  - Android 4.2 and above (not supported by Google Pixel)
  - Device must support Wi-Fi Direct

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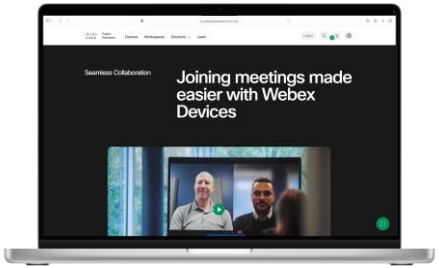
Introduction to AirPlay content sharing

Cisco Collaboration devices

AirPlay allows the sharing of content from an AirPlay device to a Cisco Collaboration device with quality and integrity. AirPlay devices would include:

- iPhone
- iPad
- Mac
- Latest iOS/iPadOS/macOS is always recommended



Works with Apple AirPlay

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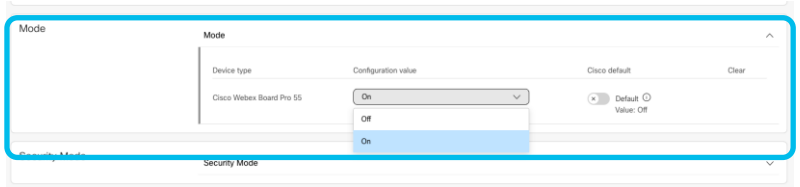
AirPlay Deployment Options

- Shared Mode systems
  - To enable AirPlay on a Shared Mode system, an Administrator will need to enable the service through Control Hub.
  - Devices> [device name]>All Configurations>Video>Input>AirPlay Mode
  - The Default Value is Off. Switching to On will automatically enable the service on the given Cisco device.
  - Please note to aid device discovery that Bluetooth® should also be enabled. This applies to both Shared and Personal mode systems.



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AirPlay Deployment Options

- Personal Mode systems
  - To enable AirPlay on a Personal Mode system, an Administrator will need to enable the service through Control Hub.
  - Devices> [device name]>All Configurations>Video>Input>AirPlay Mode
  - The Default Value is Off. Switching to On will automatically enable the service on the given Cisco device.
  - The end user has the ability from the Cisco Collaboration device settings menu to then further disable and re-enable the service.
  - From the home screen of the Cisco Collaboration device open Device settings>Open AirPlay settings.
  - This option can only be seen once the Administrator has enabled the service through Control Hub.

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AirPlay Hardware Support

- AirPlay will be supported on the following devices:
  - Cisco Desk Series
    - Desk Mini, Desk, Desk Pro
  - Cisco Board Series
    - Board S Series, Board Pro Series
  - Cisco Room Series
    - Room, Room Kit
  - Cisco Room Panorama Series is expected to be supported once RoomOS 11 becomes available for the Panorama experience

- AirPlay will not be supported on the following devices:
  - Desk Hub
  - Webex Room Phone, Webex Share, RoomUSB
  - Cisco Board Series
    - Non-S Series devices
  - Cisco DX Series
  - Cisco MX Series
  - Cisco SX Series

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Known Limitations

- Playback of DRM protected content is not currently supported. AirPlay requires FairPlay support for DRM content.
  - FairPlay is expected to be supported soon after launch of Apple AirPlay on Cisco devices.
  - FairPlay will be only be supported on the following Cisco devices:
    - Cisco Desk series (excluding Desk Hub)
    - Cisco Board Pro series (no support for Board S series)
    - Cisco Room series (excluding Room Kit Mini, Room Kit, Room Kit Plus, Room 55 Series and Room 70 G1's)
- Streaming of music over AirPlay in the background.
  - Streaming of music over AirPlay will stop if the AirPlay share is not the main focus (i.e. running in the background). This is by design.

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Supported Resolutions

- The following is the maximum supported resolutions when using AirPlay to a Cisco collaboration device:
- Screen Mirror
  - Up to 1080p60
- Extended Desktop (Mac only)
  - Up to 1080p60
- Streaming Video
  - iPhone and iPad – up to 4k30
  - Mac (Safari) – up to 1080p60

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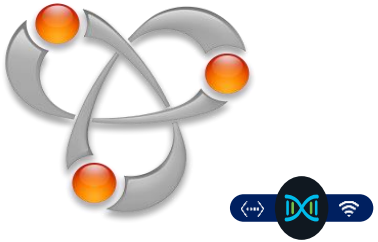
Networking Support

- Option1
  - Simple AirPlay discovery solution with support via Bluetooth® Low Energy Beacon



- Option 2
  - Enterprise-grade AirPlay and more services solution.
  - Scalable Service Routing across any complex networks.
  - Secure Enterprise IT enforced policy control.

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Beacon Support

- How it works: The Beacon is a simple Bluetooth® Low Energy information broadcast that is sent using Apple's vendor specific header. The header contains the IPv4 address of the video device.
- The Apple device will read the header and probe the IP address to confirm it is able to reach the AirPlay capable device.
- The Apple device will pull the name back from the device over the IP network and this is used to populate the picker list on the Apple device.
- The Apple device will list all AirPlay capable devices it can find using any method. For example, Bonjour mDNS, Beacon or AWDL (Apple Wireless Direct Link).
- Please note AWDL is not supported on Cisco devices.
- Important: Cisco devices that are classed as Non-Radio versions also do not support Bluetooth.

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Networking Requirements

- The device wishing to share (iPhone/iPad/Mac) and the target Cisco video device must either be on the same broadcast domain (subnet) or the Cisco device will need to be discoverable either through Beacon support or mDNS. IP routing will be required between subnets and network devices to allow the share to establish.
- Please note that Wide Area Bonjour Gateways/Bonjour Forwarding will be needed between subnets if Beacon support is not available.

Always check https://help.webex.com/en-us/article/n29ja5v/Configure-wireless-sharing-with-AirPlay for the latest information

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Networking Requirements

Port	TCP or UDP	Service or protocol name	Service name	Used by
80	TCP	Hypertext Transfer Protocol (HTTP)	http	AirPlay
443	TCP	Secure Sockets Layer (SSL or HTTPS)	https	AirPlay
319, 320	UDP	Precision Time Protocol (PTP)	ptp	AirPlay
554	TCP/UDP	Real Time Streaming Protocol (RTSP)	rtsp	AirPlay
3689	TCP	Digital Audio Access Protocol (DAAP)	daap	AirPlay
5353	UDP	Multicast DNS (MDNS)	mdns	AirPlay
7000	TCP	AirPlay HTTP server	http	AirPlay
32768-60999	TCP/UDP	Ephemeral port range required between subnets for share	http	AirPlay

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Webex Guest Share -> share.webex.com

- Share wirelessly to any Webex registered room device from your browser.
- Guest share works on the latest versions of Firefox and Chrome on Windows, Mac OS, and Linux.
- Closing the browser or the tab where share.webex.com is open stops the share.
- Audio plays through your laptop but not through the display screen. You can't start a share when someone else is sharing.
- Personal Mode not supported.

https://help.webex.com/en-us/article/nrp8zym/Wireless-Guest-Share

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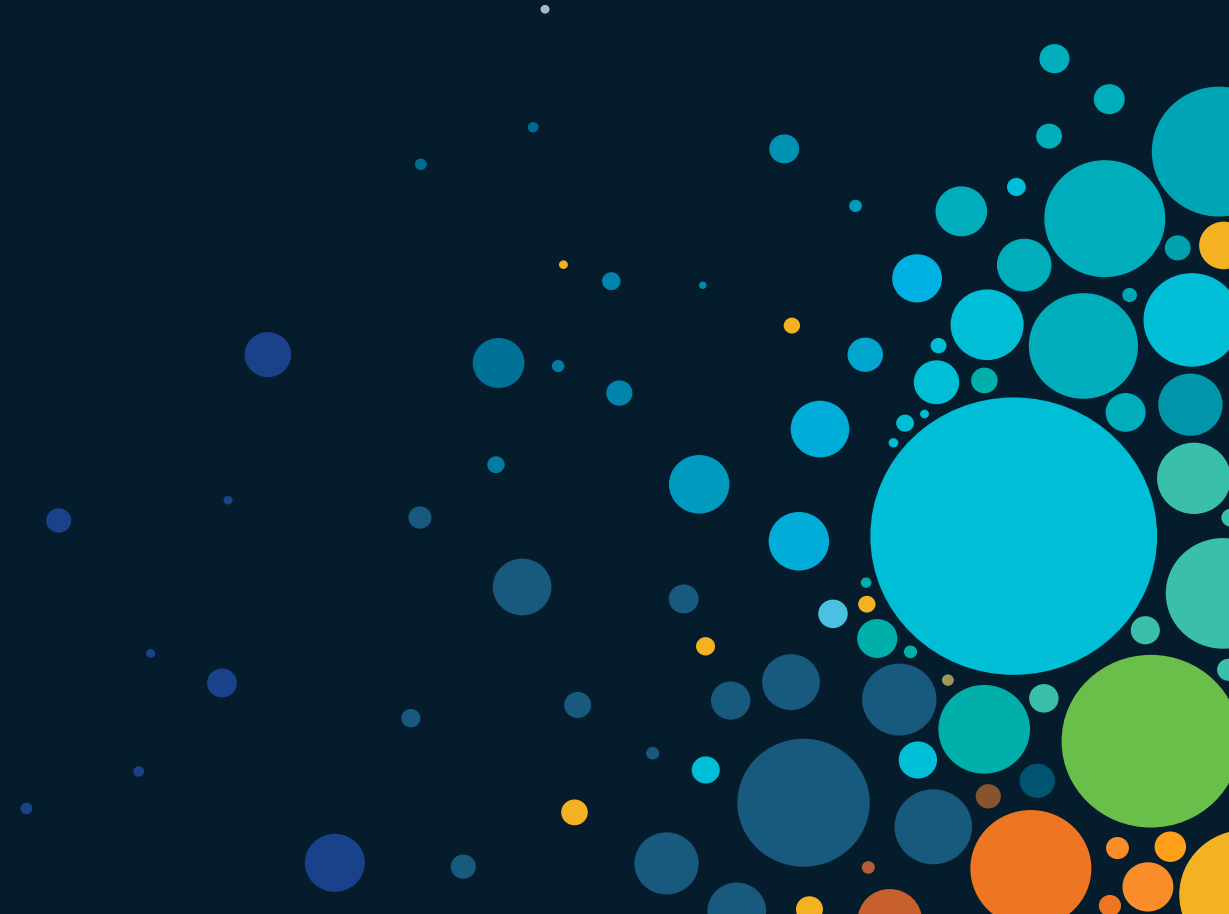
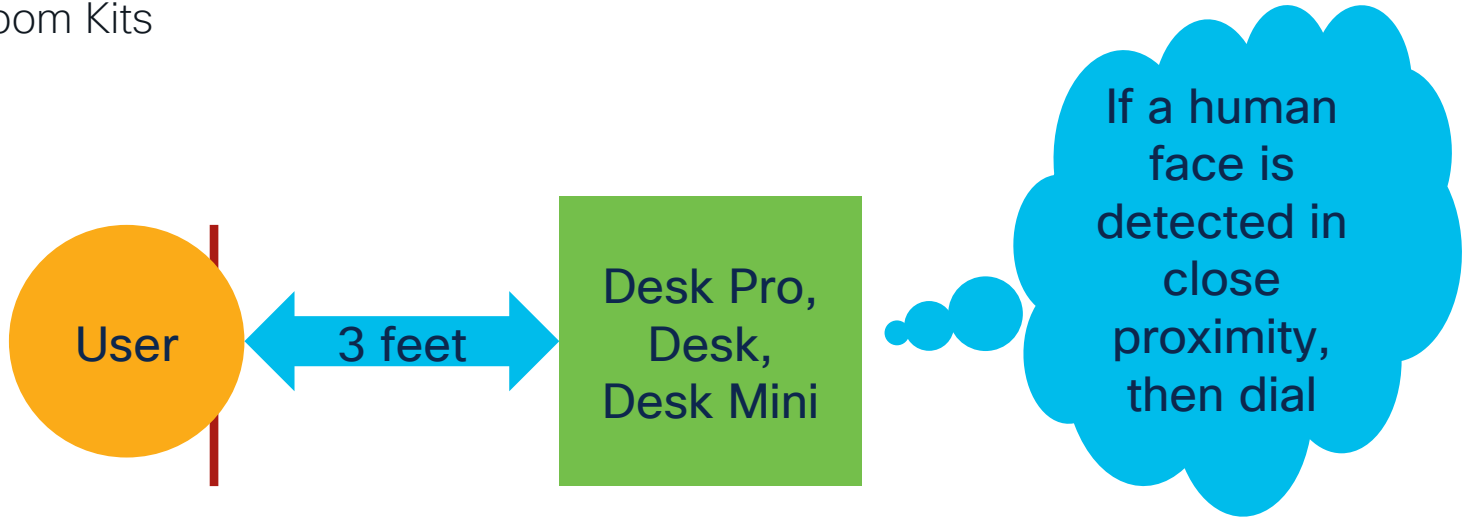
Vertical Deployment Scenarios



Call a Virtual Receptionist using Facial Detection

- Uses near field “Close Proximity” detection to avoid triggering based upon people from a distance (people count)
  - “People count” runs the risk of triggering workflows when people are walking by at a distance
  - More responsive (less delay) than people count
- Close Proximity is available on the Cisco Desk Pro, Desk, Desk Mini, Cisco Board, and Cisco Room Kits



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More Vertical Use Programmability Examples

Refer to this Cisco Live 2020 Digital Session BRKCOL-2032

Facial Detection – Minimal Configuration

This is the core logic we will plug this into the Desk Pro Macro Editor

```
xapi.status.on('RoomAnalytics Engagement CloseProximity', (newstate) => {
if(newstate === 'True'){
xapi.status.get('SystemUnit State NumberOfActiveCalls')
.then(callIfNotInCall);
}});
```

Core Logic

```
function callIfNotInCall(callCount) {
if (callCount < 1) {
xapi.command('Dial', { Number: '1091' });
}}
xapi.Config.Video.Selfview.Default.Mode.set("On");
```

Secondary Logic

https://www.ciscolive.com/on-demand/on-demand-library.html?search=BRKCOL-2032#/session/1636060273822001 7FLJ

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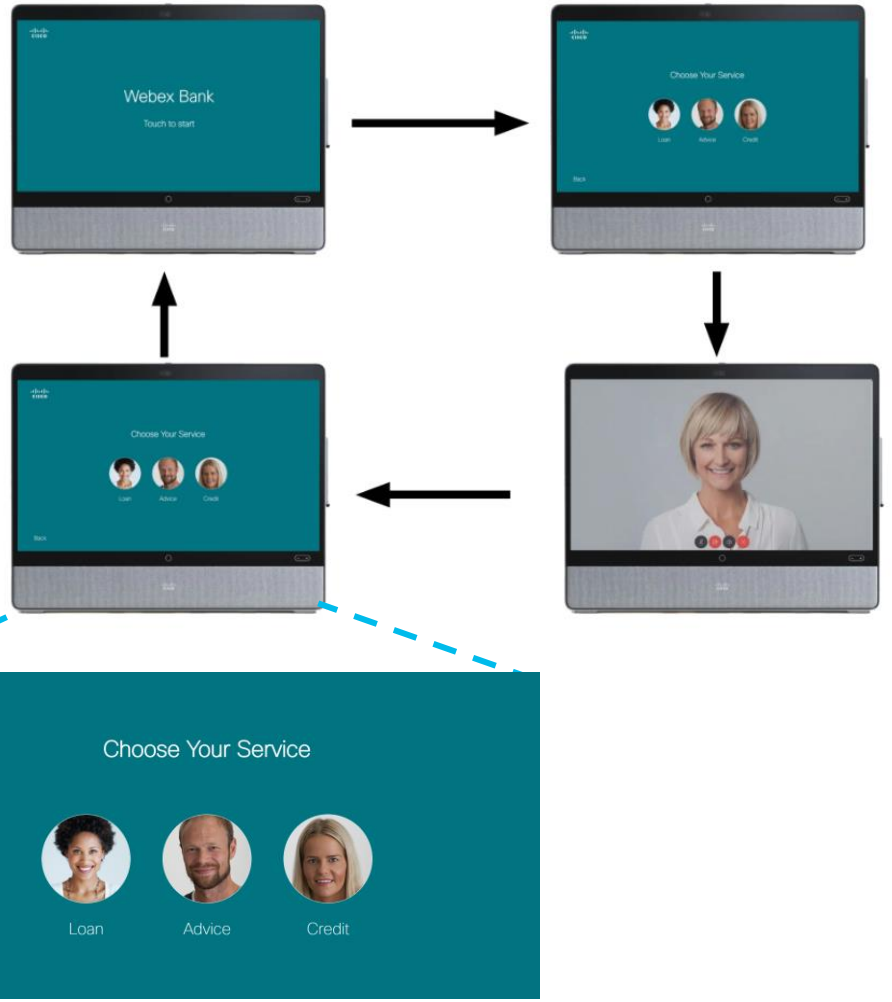
RoomOS Kiosk Mode

- New feature that addresses most Kiosk-type use cases
- Customizable click-to-call interface
- No 3rd party requirements other than a generic web server
- Sample configuration: https://cisco-ce.github.io/roomos-samples/kiosk-example/
- Source code on GitHub: https://github.com/cisco-ce/roomos-samples/tree/main/kiosk-example



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Kiosk Mode – How to Configure

1. Enable minimal configuration from the following URL
   https://help.webex.com/en-us/article/ol1th3/Configure-Kiosk-mode-on-Board-and-Desk-Series-devices
   xConfiguration WebEngine Mode: On
   xConfiguration UserInterface Kiosk URL: *www.my_web_server.com*
   xConfiguration UserInterface Kiosk Mode: On
   xConfiguration WebEngine Features SipUrlHandler: On

2. (Optional) Enable lock down and other features such as:
   xConfiguration UserInterface SettingsMenu Mode: Locked
   xConfiguration UserInterface Security Mode: Strong

3. Customize calling URLs (in main.js):

```
services: [
     { url: 'mymeeting@go.webex.com', name: 'Loan' },
     { url: 'erica@cisco.com', name: 'Advice' },
     { url: 'bob@cisco.com', name: 'Credit' },],
```

4. Customize HTML/CSS and add your own photo images

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The good news.....and the bad!

HDMI Out

HDMI out and Cisco Desk Pro

What can I do?

The feature will allow the HDMI out port on the rear of the Desk Pro (and Board Pro) to drive an additional screen.

This can provide more screen real-estate and increases the flexibility of the Cisco device in the room.

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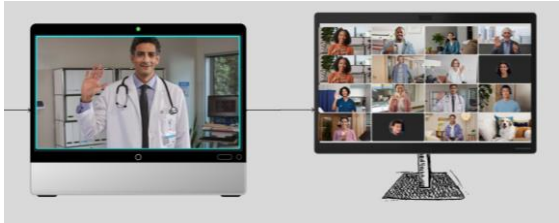
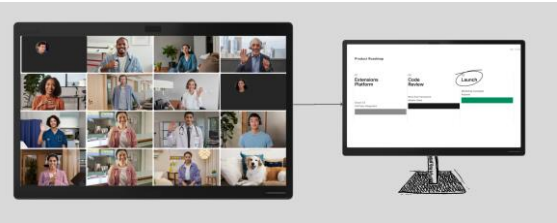
HDMI out on Cisco Desk Pro (and Board Pro)

Mirror meeting to a second screen: Example – larger screen in an auditorium setup



Extend the meeting across two screens



Only use second screen when there is content shared. Useful for keeping eye contact with the attendees on screen.

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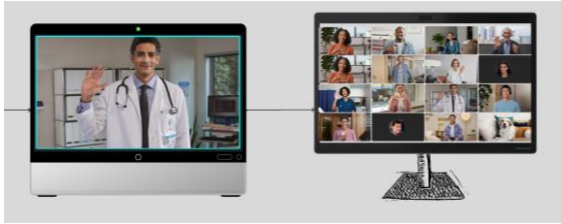
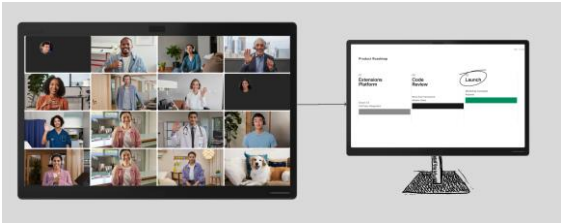
HDMI out on Cisco Desk Pro (and Board Pro)

Mirror meeting to a second screen: Example – larger screen in an auditorium setup



Extend the meeting across two screens



Only use second screen when there is content shared. Useful for keeping eye contact with the attendees on screen.

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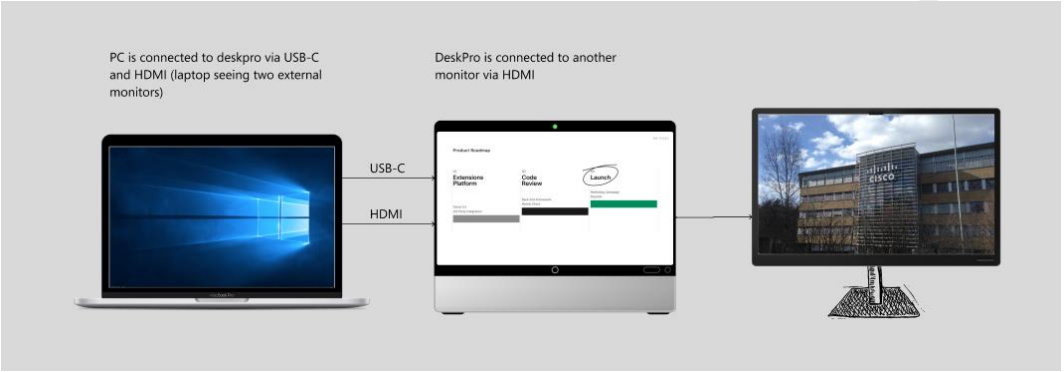
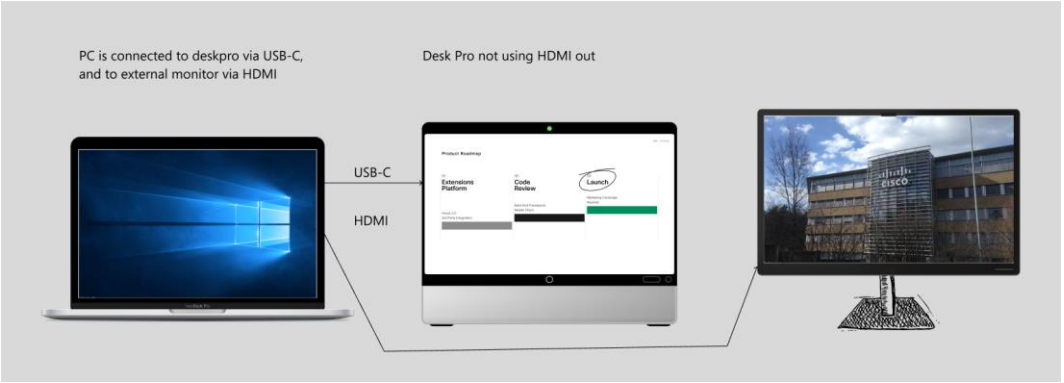
What about ‘daisy chaining’

'Daisy chaining’ via DisplayPort Multi-Stream Transport (MST) is not supported.

To show different images on the connected screens, you will need two cables.





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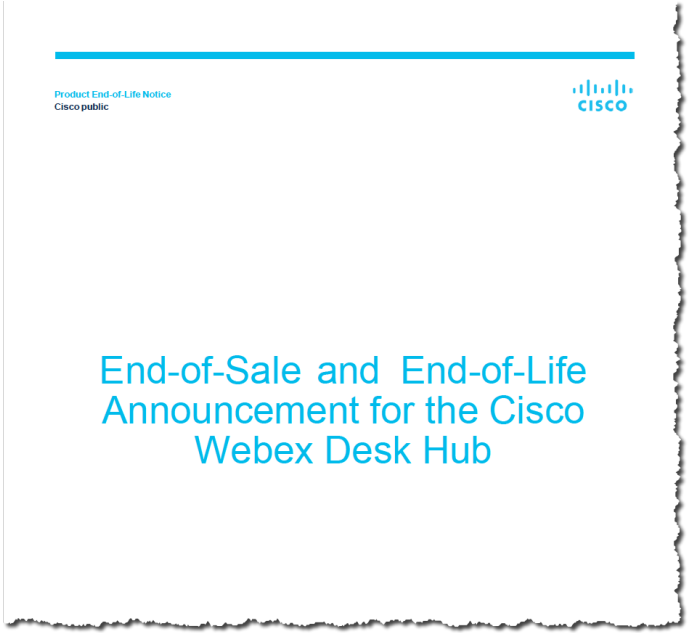
Desk Hub update

Desk Hub update

- Webex Desk Hub is now End of Sale
  - End of Sale date: December 14th 2022
  - Last date of support: March 31st 2023



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Call to Action

Related Sessions

- BRKCOL-2007 Authentication, Authorization and Provisioning for Cisco Collaboration
- BRKCOL-2047 Journey to Cloud – Webex Edge for Devices
- BRKCOL-2750 Understanding the new call flows and meeting type for Video Mesh Solution
- BRKCOL-2057 Understanding Network Security Requirements for Webex Traffic
- BRKCOL-2184 Webex Video Interoperability with Microsoft Teams
- BRKCOL-2338 Webex Security in Enterprise – Explore New Mechanisms and Enhancements

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Call to Action

- Head down to the World of Solutions to learn more!
  - Visit the Home office to see the 27” Desk Pro
  - Visit the Nook to see the Desk Mini
  - Visit the Hotdesk area to see the 24” Desk
- Evaluate Hotdesking on RoomOS
- Explore customizing RoomOS with Macros
- Keep learning!

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The bridge to possible

Thank you

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ALL IN