

The background is a vibrant, abstract composition of numerous overlapping, elongated, teardrop-like shapes in various colors including dark blue, light blue, green, yellow, orange, and red. These shapes radiate from a central point, creating a starburst or sunburst effect. Some shapes have white circular cutouts. Scattered around the main burst are several small, solid-colored circles in blue, yellow, and red.

# TURN IT UP

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The bridge to possible



# Webex Edge for Devices

Migration, hybrid and troubleshooting

Charlie Thorpe, Technical Marketing Engineer – Collaboration Technology Group

@webex\_se

BRKCOL-2049



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# Agenda

- Introduction to Webex Edge for Devices
- The Webex Device Connector
- Registering multiple devices to the cloud
- Troubleshooting
- Cloud features for on-premises devices
- Troubleshooting
- Workspaces
- Conclusion

# Introduction to Webex Edge for Devices



# Current customer challenges

Customer have made large investments in on-premises registered devices

Companies are missing out on insights into how a workspace is being used

Complexity of the migration to the cloud



# Webex Edge for Devices

Cloud first but not Cloud only



## Webex Edge for Devices

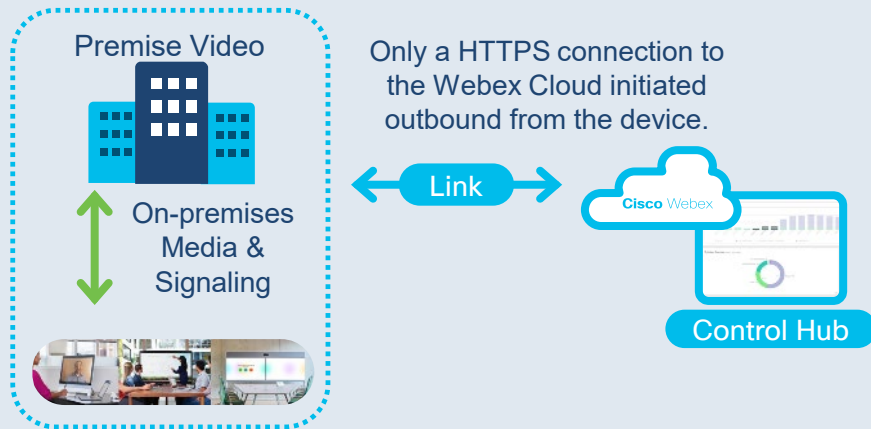
A new deployment model for Webex Rooms customers

- + Migration Path and Journey to Cloud
- + Enables new features for on-premises registered devices
- + Creates a simple Cloud adoption strategy

# Webex Edge for on-premises Webex devices

## High Level Overview

Deliver insights and diagnostics for on-premises Webex devices by linking them to the Webex cloud platform.

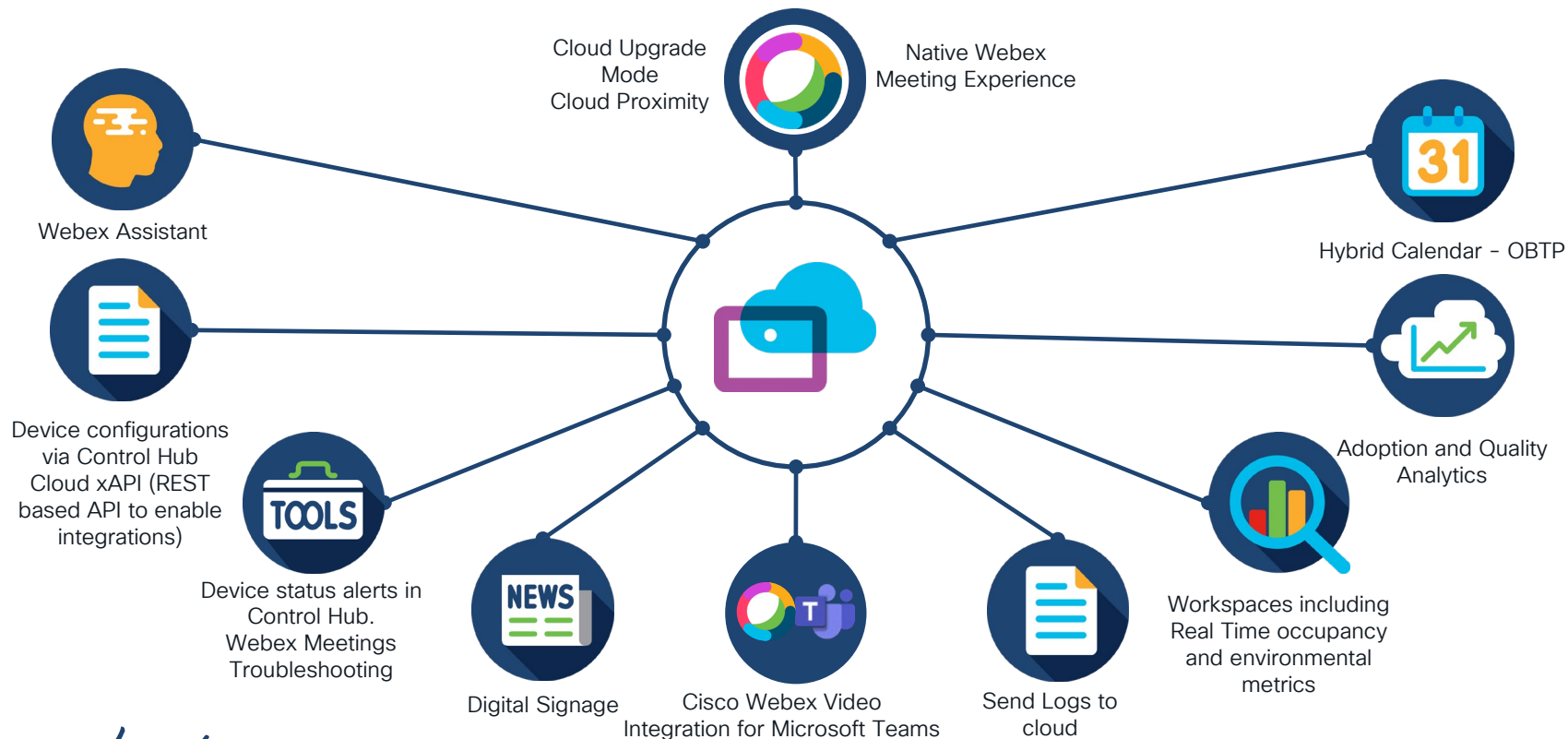


- Business-critical calling and media stays on-premises.
- Hybrid deployment and customer migration at their pace.
- “One-click migration” – one button to Cloud Link.
- Simplified single pane of glass with insights through Control Hub.
- This feature will enable more cloud services with time in phases.



# Webex Edge for Devices

## High level feature overview



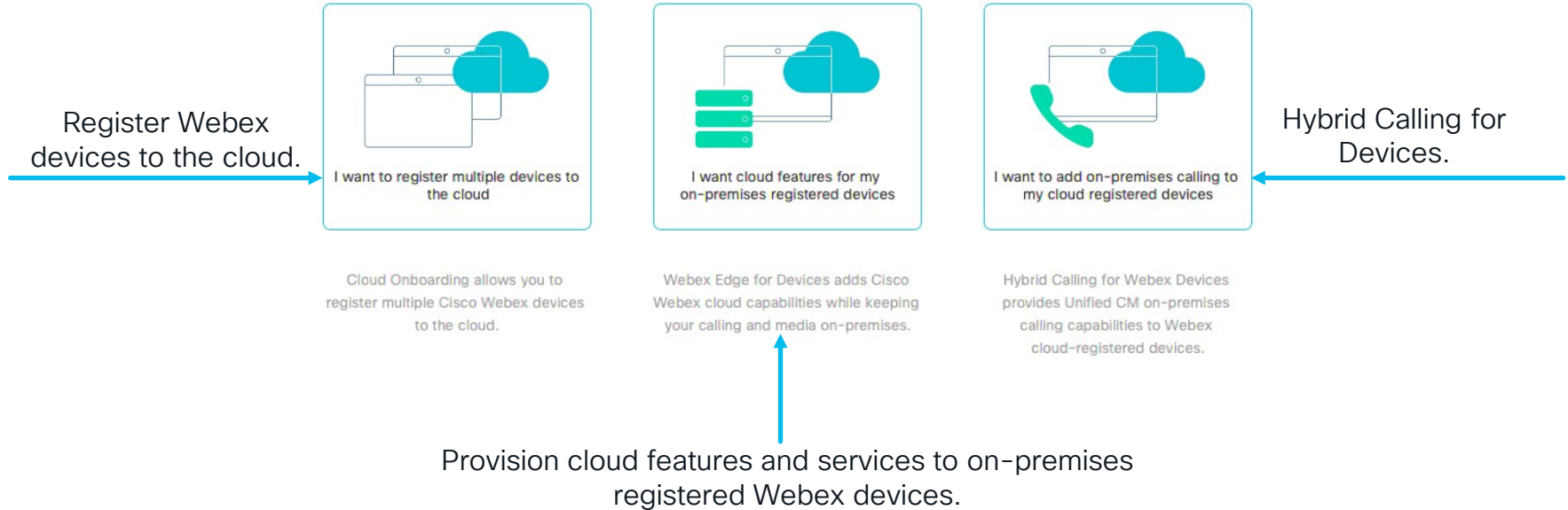


# The Webex Device Connector

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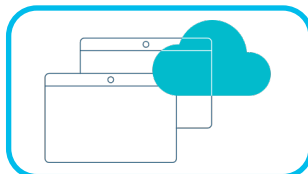


# Webex Device Connector



# Webex Device Connector

## Core capabilities



### Registration of multiple devices to the cloud

- Full migration from on-premises registration to cloud.
- Convert just one device or many devices at once.
- Local integrator accounts/macros/UI extensions retained during conversion.
- Calling and phonebook configurations **are changed** to cloud configurations.



### Cloud features for on-premises registered devices

- 'Dual registration' of device – retains on-premises registration and adds registration to the cloud.
- Local integrator accounts/macros/UI extensions retained during secondary registration of the device.
- Calling and phonebook configurations **remain unchanged**.



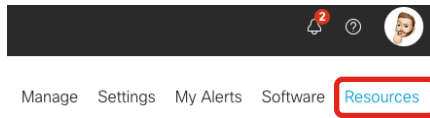
### On-premises calling for cloud registered devices

- Replaces Expressway C connector service.
- No impact upon existing Hybrid Calling for Devices configurations on Unified CM and Expressway.
- Migration – no impact upon existing data during move.
- Configuration flow does however change for adds, changes and deletes.

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# Where do I find the Webex Device Connector tool?

The Cisco Webex Device Connector tool is available from within the Resources section under Devices in Webex Control Hub.



It can be used to automate device related tasks, such as:-


- Onboarding Webex devices to the cloud.
- Providing Cloud features to on-premises registered Webex devices.
- Support for Hybrid Calling for Devices.



## Device Resources

On this page, you can get information on different deployments, download the Webex Device Connector to help you to activate multiple devices into a Webex cloud or Webex Edge deployment, and access external sites related to Webex Rooms.


## Knowledge Base



### Cloud Onboarding

Cloud Onboarding allows you to bulk register Cisco Webex devices to the cloud.


[View Documentation](#)




### Webex Edge for Devices

Webex Edge for Devices brings Webex cloud features and functionality to on-premises registered video devices.

[View Documentation](#)



### Tools



#### Cisco Webex Device Connector

This tool allows you to onboard multiple devices to the Webex cloud or to add Webex cloud capabilities to your on-premises devices via Webex Edge for Devices.

[Download](#)

# Webex Device Connector requirements

## Register Webex Devices to the cloud

For **migration** from on-premises registration to fully Control Hub registered and managed.

- Webex device will need to be on a minimum of CE9.8
  - CE9.8 is required as this is where the ability to register a Webex Device via API or the local web interface was first introduced.
  - You can register a device to Cisco Webex remotely, so you don't have to be in the same room as the device.
    - You can do this programmatically from the API or use the local web interface. In earlier releases you had to use the on-screen setup assistant.
    - From the web interface, you can only start the Webex registration process if the device is not currently registered anywhere else (ie has been factory reset).
    - If you are using the API, you can start the Webex registration process even if the device is currently registered to an on-premises system (Unified CM or Expressway/VCS).
    - The Webex device will not start its registration process whilst it is currently being used.
- Webex device **must** have encryption running. Non-encrypted endpoints are not supported.

# Webex Device Connector requirements

## Register Webex Devices to the cloud

`xCommand Webex Registration Start ActivationCode: <code> SecurityAction: <Action>`

- `xCommand Webex Registration Start ActivationCode:`
  - Applies to: All products
  - Requires user role: Admin, User
  - The above command is used to start registering a device to Webex by entering an activation code that has been created in Control Hub and choosing whether to keep local users and integrations.
- `<code>`
  - Activation code that has been created in Control Hub already for this device
- `<Action>`
  - `Harden` will deactivate all local users that have been created for this device. Macros also deleted. UI Extensions are deleted.
  - `NoAction` will **not** remove any configurations with the exception of Calling and Phonebook related configurations. Macros and integrations are retained.
- Webex Device connector uses the above API in addition to creating the Workspace for the device.

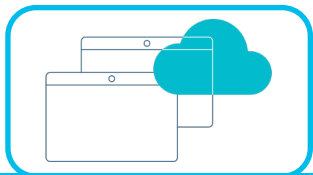
# Webex Device Connector requirements

## Cloud features for on-premises registered devices

For [linking](#) on-premises registered to devices to Control Hub

- Endpoints need to be on a minimum of CE9.14.x with CE9.15.x preferred. Why???
  - CE9.10 is where Webex Edge for Devices first became available, however due to a bug CE9.12.3 became required minimum version
  - Support for Webex Edge for Devices in CE9.10 has now been depreciated
  - Support for Webex Edge for Devices soon to be depreciated in CE9.12.3
  - Support for Webex Edge for Devices still available in CE9.13.x although customers if using this release will see a notification in Webex Control Hub and also on the Webex Device WebUI that an updated version of software is available.
  - CE9.14.x is minimum recommended version, CE9.15.x released in February 2021 is preferred.
  - Both CE9.14.x and CE9.15.x allow for the option to opt into Cloud Upgrade mode – this allow for the device to opt into the monthly software release from Webex Control Hub
- CUCM version dependency – if using standard AXL API user
  - 12.5(1)
  - 11.5.(1) SU3 and above
  - 12.0(1) is **not** supported
  - Any VCS or Expressway release (latest recommended)
- Webex device **must** have encryption running. Non-encrypted endpoints are not supported.

# Devices currently supported



Registration of multiple devices to the cloud

- DX70 and DX80
- SX10, SX20 and SX80
- MX200G2, MX300G2, MX700 series and MX800 series
- Webex Room series
- Webex Board series
- Webex Desk Pro



- Cloud features for on-premises registered devices
- DX70 and DX80
- SX10, SX20 and SX80
- MX200G2, MX300G2, MX700 series and MX800 series
- Webex Room Series
- Webex Board Series
- Webex Desk Pro



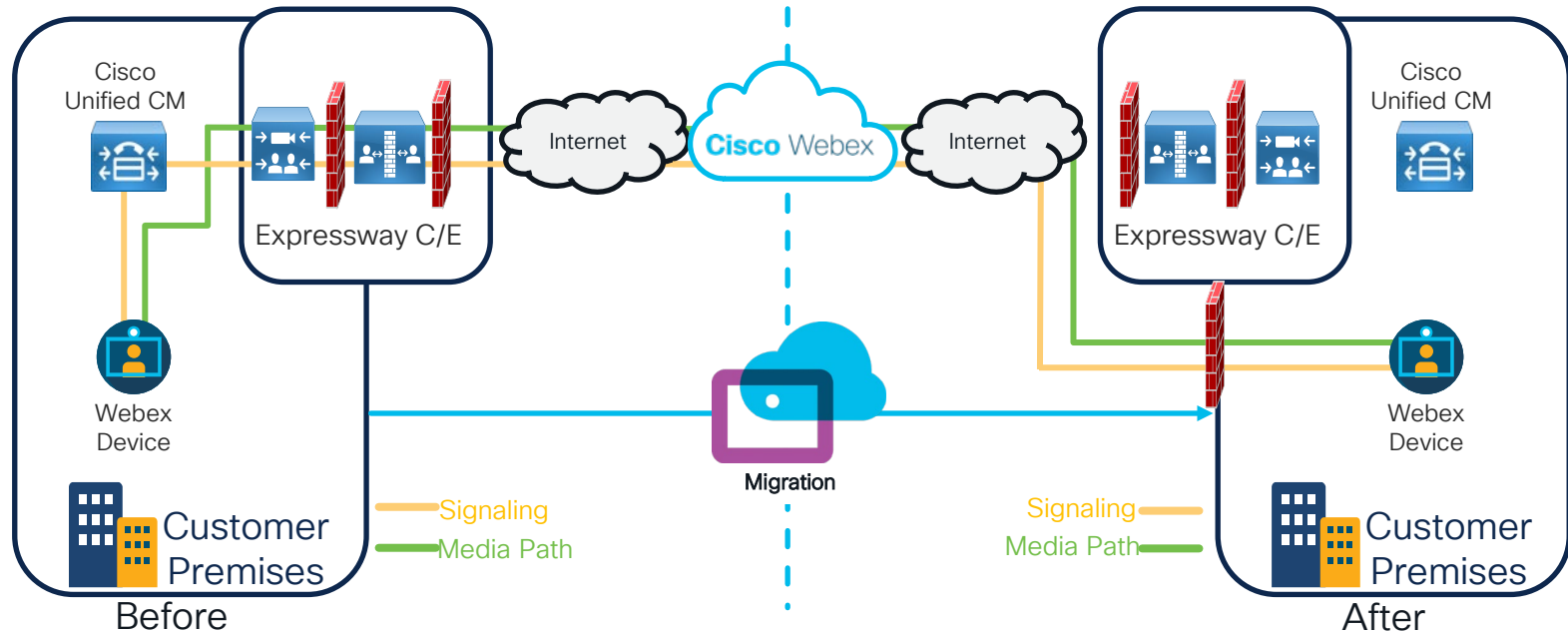
# Registering multiple devices to the cloud

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# Registration of multiple devices to the cloud

- Provides for the option of moving the registration point of a Cisco Webex device from on-premises to the cloud.



# Preparation for migration

## Prepare your files for onboarding

Devices can be onboarded using two different file formats

### Cisco TMS Export

1. Export a System Overview report from Cisco TMS, selecting only the Network Settings > Hostname system parameter.
2. Manually add a 'Username' and 'Password' column.

1	System ID	System Name	IP Address	Status	Hostname	2	Username	Password
	1234	System 1	10.47.1.1	Idle	system1.example.com		Username1	Password1
	5678	System 2	10.47.1.2	Idle	system2.example.com		Username2	Password2

### CSV File

Use a simple comma-separated-value (CSV) file, with device 'Address', 'Username', and 'Password' columns.

Address	Username	Password
system1.example.com	Username1	Password1
system2.example.com	Username2	Password2

Close

## Minimum requirements:

- Endpoints to be moved must be running CE9.8 or later.
- Webex Control Hub access with either Device Administrator or Full Administrator capabilities.
- Device Licenses available in Webex Control Hub (i.e. through Cisco Collaboration Flex Plan).
- HTTPS connectivity to your devices for the Device Connector tool.
- IP Address/Host name, usernames and passwords for all the devices that you want to migrate – either in a CSV file or from a Cisco TMS Overview Export file.

# Steps to migrate endpoint (on-premises to cloud) via CSV

The steps below are used to create the CSV file:

1. Gather details of the endpoints that are to be migrated.
  - IP Address or host name, admin username and password.
2. Create CSV file with column names of:
  - Address, Username and Password.

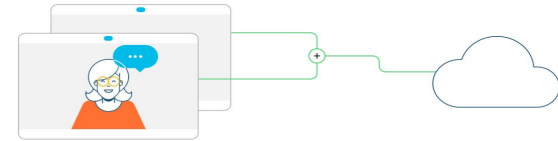
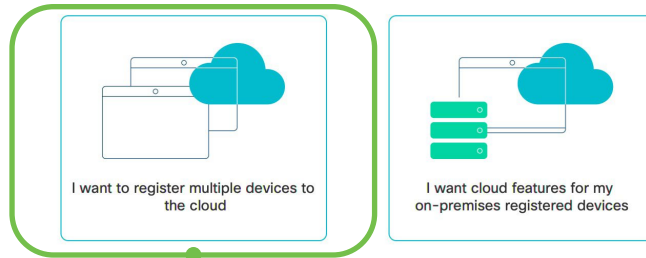
	A	B	C	D	E
1	Address	Username	Password		
2	10.60.114.162	admin			
3					
4					

3. Save to safe location on the local machine.

# Steps to migrate endpoint (on-premises to cloud) via CSV

- Once you have the required information, from the Cisco Webex Edge for Devices tool click on 'I want to register multiple devices to the cloud'

## Cloud Onboard Devices



Cloud Onboarding allows you to register multiple Cisco Webex devices to the cloud.

### Please Note!!

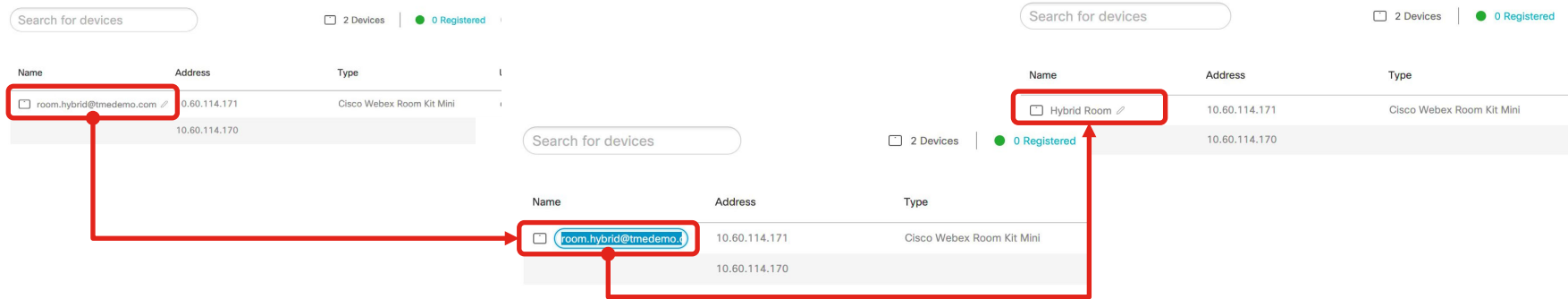
ⓘ Registering a device to the Cisco Webex cloud will overwrite calling and phonebook configurations.

↑ Register devices using CSV or Cisco TMS Overview Export files  
See how to prepare your file 📄

You will be presented with a dialogue box asking for the CSV you created in the prior step.

# Steps to migrate endpoint (on-premises to cloud) via CSV

- Please note: The tool uses the **System Unit** name for the **Workspace Name** in Webex Control Hub. If the **System Unit** name has not been populated, the MAC address of the device will be used.
- It is possible to change this via the tool prior to migration (as shown below).



Please Note: For the CSV/XLS migration method to succeed, the PC/Mac running the Webex Device Connector tool must have either direct or IP routable access to the target Webex device.

# Steps to migrate endpoint (on-premises to cloud) via TMS

1. From TMS, export a System Overview report and only select the Network Settings>Hostname system parameter.
2. Manually add columns for Username and Password.

System ID	System Name	IP Address	Status	Hostname	Username	Password
1234	System 1	10.47.1.1	Idle	system1.example.com	Username1	Password1
5678	System 2	10.47.1.2	Idle	system2.example.com	Username2	Password2

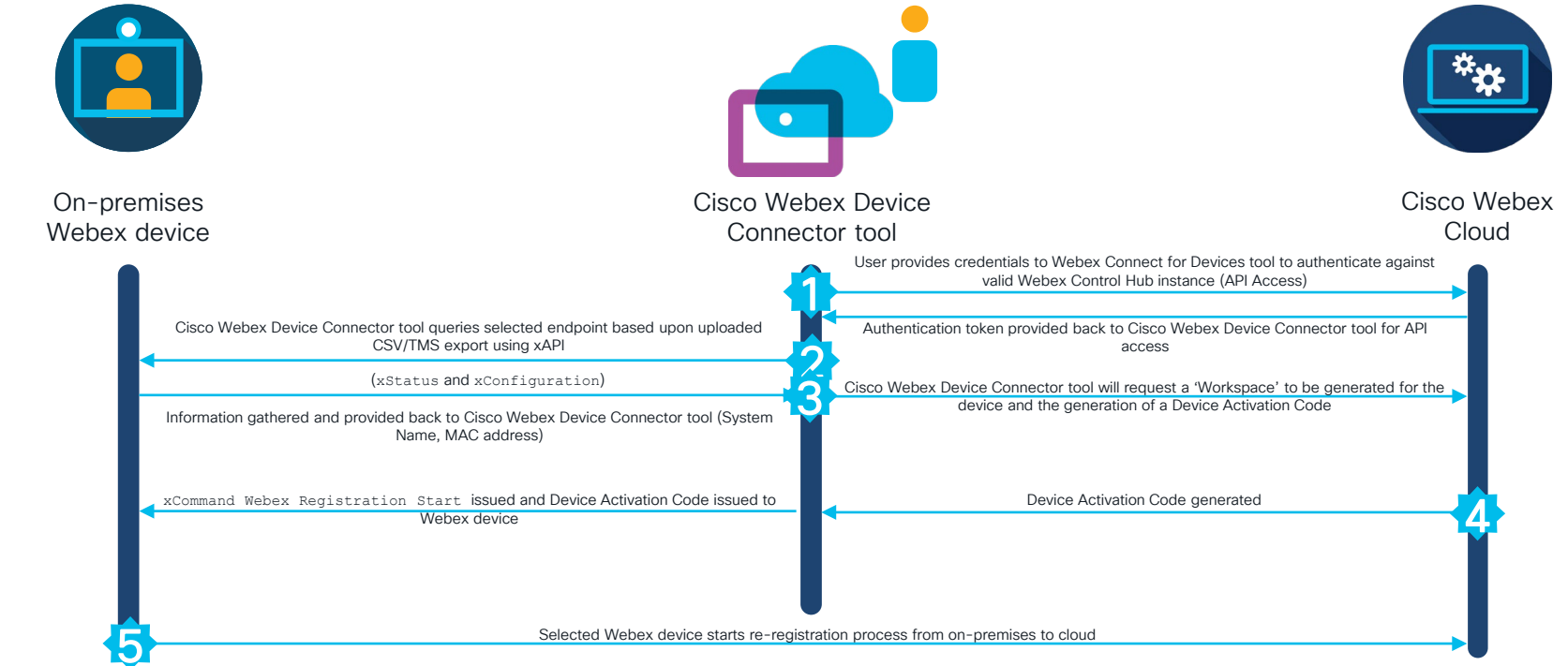
Diagram illustrating the migration process:

The table is divided into two sections by a vertical line:

- System Overview generated:** This section covers the first five columns (System ID, System Name, IP Address, Status, Hostname).
- Manually generated:** This section covers the last two columns (Username, Password).

# Onboarding flow

## Migration from on-premises registration to cloud





# Troubleshooting





# Log Details

```
03/02/2021 14:06:29.960 [JavaFX Application Thread] INFO c.w.d.c.HeaderController - Device connector needs an upgrade: current: 1.1.232, new: 1.1.233
```

Tool checks on startup for updates.

```
03/02/2021 15:31:28.080 [pool-2-thread-1] INFO c.w.d.s.CloudService - Features: [CloudAware, HybridCallingGreenfield, HybridCalling]
03/02/2021 15:31:28.540 [pool-2-thread-1] INFO c.w.d.s.CloudService - Hybrid Calling for Devices support: SUPPORTED
03/02/2021 15:31:29.178 [JavaFX Application Thread] INFO c.w.d.c.MainController - Show view SelectTask
03/02/2021 15:31:40.283 [JavaFX Application Thread] INFO c.w.d.c.MainController - Show view CloudAware
03/02/2021 15:31:44.951 [JavaFX Application Thread] INFO c.w.d.c.MainController - Show view CloudAwareUcm
03/02/2021 15:31:44.951 [JavaFX Application Thread] INFO c.w.d.c.MainController - Show view ConnectToCucm
```

Based upon login details, tool will provide views and information back to the user relevant to their deployment.

# Log Details



```
03/03/2021 15:16:06.895 [JavaFX Application Thread] INFO c.w.d.c.FileActivationController - Devices file
selected: Webex Host File.csv
03/03/2021 15:16:06.913 [JavaFX Application Thread] INFO c.w.d.c.FileActivationController - Found 2
devices in CSV
```

CSV file shown that has been uploaded and how many devices that have been detected in the file

```
03/03/2021 15:16:06.916 [pool-2-thread-3] INFO c.w.d.s.DeviceService - Read device details (status.xml
and configuration.xml) from 10.60.114.171: skipCertValidation=false
03/03/2021 15:16:06.917 [pool-2-thread-15] INFO c.w.d.s.DeviceService - Read device details (status.xml
and configuration.xml) from 10.60.114.170: skipCertValidation=false
```

Connecting to the devices contained within the host file to check xStatus and xConfiguration information

```
03/03/2021 15:16:11.920 [JavaFX Application Thread] WARN c.w.d.c.FileActivationController - Failed to
read device details (Connect Timeout) for 10.60.114.170
```

The other Webex device is unreachable. This could be due to no access (network) to the device or that the device is not powered on

# Log Details



```
03/03/2021 15:17:04.480 [pool-2-thread-25] INFO c.w.d.s.DeviceService - Version for
room.hybrid@tmedemo.com is 9.14: ce9.14.5.42d28d6c074
03/03/2021 15:17:04.480 [pool-2-thread-25] INFO c.w.d.s.CloudService - Looking up device
6C:8B:D3:C6:FC:FC in CSDM
```

From the device available and responding, version information is provided and also a check is made to Control Hub to look to see if there is an existing Workspace that this device has been registered in before

```
03/03/2021 15:17:05.061 [pool-2-thread-25] INFO c.w.d.c.FileActivationController - Device not found
6C:8B:D3:C6:FC:FC
03/03/2021 15:17:39.284 [JavaFX Application Thread] INFO c.w.d.c.FileActivationController - Activate
device: 6C:8B:D3:C6:FC:FC
```

No match, moves on to create Workspace and Device Activation Code

```
03/03/2021 15:17:39.798 [pool-2-thread-8] INFO c.w.d.s.CloudService - Create full cloud place for device
6C:8B:D3:C6:FC:FC
03/03/2021 15:17:40.203 [pool-2-thread-8] INFO c.w.d.s.CloudService - Create activation code for place
6cf95b0f-aa45-483d-81f6-3b7d4175464a
03/03/2021 15:17:41.138 [pool-2-thread-8] INFO c.w.d.s.DeviceService - Sending activation code to device
6C:8B:D3:C6:FC:FC

03/03/2021 15:18:02.461 [pool-4-thread-2] INFO c.w.d.s.CloudService - Looking up device 6C:8B:D3:C6:FC:FC
in CSDM

03/03/2021 15:18:02.918 [JavaFX Application Thread] INFO c.w.d.c.FileActivationController - Found device
in CSDM after activation 6C:8B:D3:C6:FC:FC
```

# Log Details – issues



03/03/2021 15:16:06.913 [JavaFX Application Thread] INFO c.w.d.c.FileActivationController - Found 2 devices in CSV

03/03/2021 15:16:08.045 [pool-2-thread-3] INFO c.w.d.s.CloudService - Looking up device 6C:8B:D3:C6:FC:FC in CSDM

03/03/2021 15:16:11.920 [JavaFX Application Thread] WARN c.w.d.c.FileActivationController - Failed to read device details (Connect Timeout) for 10.60.114.170

03/03/2021 15:16:26.626 [JavaFX Application Thread] INFO c.w.d.c.FileActivationController - Found 2 devices in CSV

03/03/2021 15:16:26.630 [pool-2-thread-17] INFO c.w.d.s.DeviceService - Read device details (status.xml and configuration.xml) from 10.60.114.171: skipCertValidation=false

03/03/2021 15:16:26.630 [pool-2-thread-17] WARN c.w.d.c.x.XmlApiClientFactory - server certificate validation has been disabled for requests made to https://10.60.114.171/

03/03/2021 15:16:26.631 [pool-2-thread-21] INFO c.w.d.s.DeviceService - Read device details (status.xml and configuration.xml) from 10.60.114.170: skipCertValidation=false

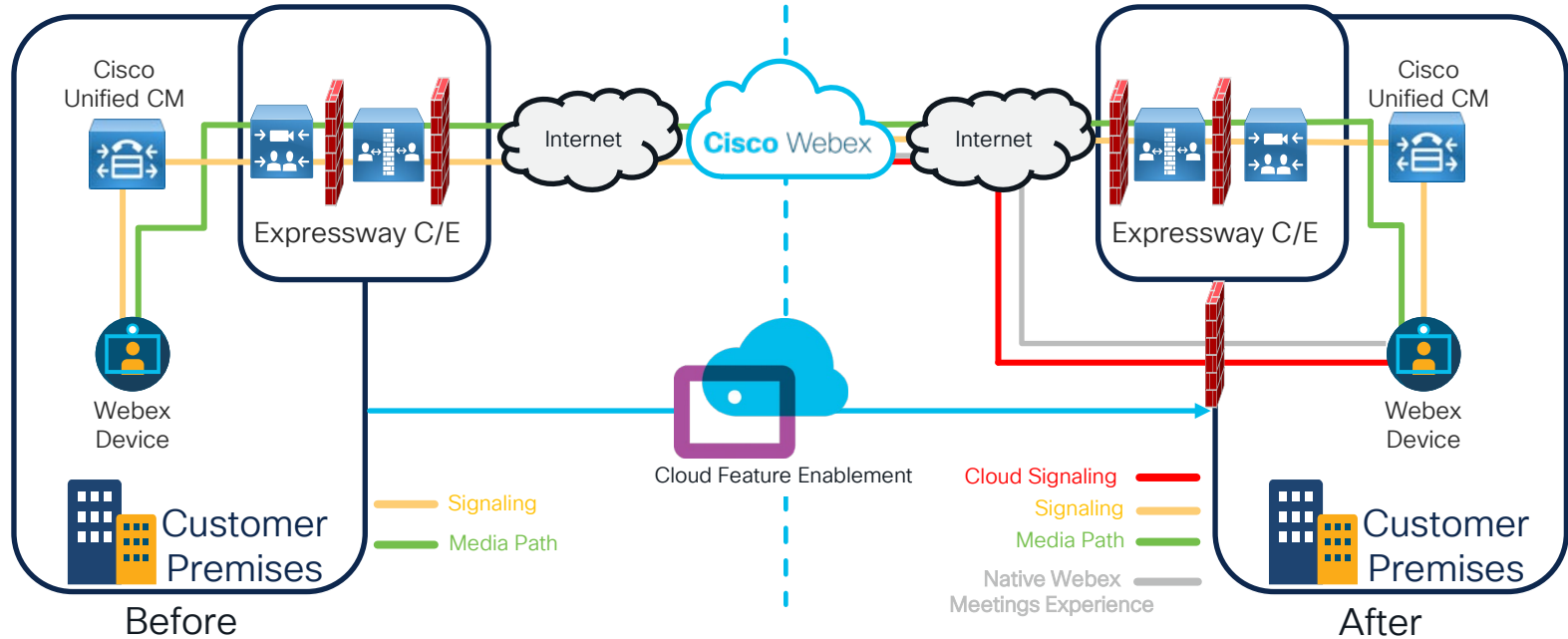
03/03/2021 15:16:26.631 [pool-2-thread-21] WARN c.w.d.c.x.XmlApiClientFactory - server certificate validation has been disabled for requests made to https://10.60.114.170/

03/03/2021 15:16:26.650 [JavaFX Application Thread] WARN c.w.d.c.FileActivationController - Failed to read device details for 10.60.114.170

# Cloud features for on-premises devices



# Cloud Feature Enablement



# Cloud features for on-premises registered devices



- Historical analytics.
- Real-time media metrics when joining Webex meetings.
- Online/Offline connection status.
- Device diagnostics.
- Upload logs to cloud.



- Cloud Upgrade Mode<sup>1</sup>
- Device Configuration Management inc. Digital Signage
- Cloud xAPI access.
- Support for EU Regional Data Center.
- Proxy support.
- xAPI migration to fully cloud registered.
- Cloud Device API – Support for large body in command requests.



- Native Webex Meeting experience<sup>2</sup>
- Show host at top of Participant list<sup>2</sup>
- Hybrid Calendar services.
- Webex Assistant:
  - 'OK Webex, join meeting'.
  - Pro-active meeting join.
- Easy join Webex Personal Room with user search.
- Cisco Webex Video Integration for Microsoft Teams.

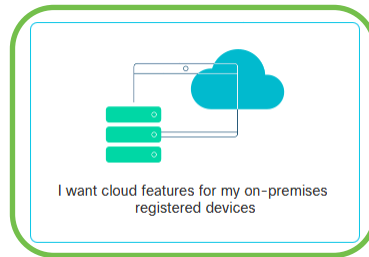
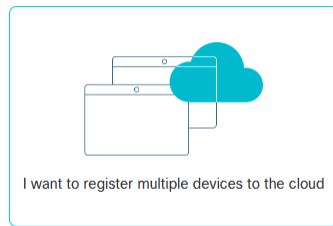
<sup>1</sup> New with 9.14.3 and above

<sup>2</sup> New with 9.15



# Steps to add Cisco Webex cloud capabilities to on-premises registered Webex devices

Linking devices through connection with Unified CM.



## Configure Webex Edge for Devices





Webex Edge for Devices adds Cisco Webex cloud capabilities while keeping your current on premises call flows.


**Please Note!!**


Note that on-premises device software version CE 9.12 or later is required. If you link devices registered to Cisco Unified CM, you also need the latest Device Package installed.

 Link devices registered with Cisco Unified Communications Manager

 Link devices using CSV or Cisco TMS Overview Export files  
See how to prepare your file 

# Steps to add Cisco Webex cloud capabilities to on-premises registered Webex devices

<input type="checkbox"/> SEPDC8C372A7C30	Auto (Cisco Webex Room Kit Mini) - 8225	Cisco Webex Room Kit Mini	Link
<input checked="" type="checkbox"/> <a href="#">SEP6C8BD3C6FCFC</a>	Hybrid Conference Room	Cisco Webex Room Kit Mini	 <b>Linked</b>
<input type="checkbox"/> SEP7488BB5C7C6B	Auto (Cisco Webex Board 55) - 8166	Cisco Webex Board 55	Link
<input type="checkbox"/> SEP08ECF5E7DE3C	Auto (Cisco Webex Board 55) - 8174	Cisco Webex Board 55	Link



## Status Update

- Once the device has successfully been linked, the status will change to 'Linked' and the Name of the device will change to a hyperlink. The hyperlink will cross launch your browser into Webex Control Hub so that the device can be viewed, and services added as needed (for example activation of Hybrid Calendar services).

# Steps to add Cisco Webex cloud capabilities to on-premises registered Webex devices

<input type="checkbox"/> SEPDC8C372A7C30	Auto (Cisco Webex Room Kit Mini) - 8225	Cisco Webex Room Kit Mini	Link
<input type="checkbox"/> SEP6C8BD3C6FCFC	Hybrid Conference Room	Cisco Webex Room Kit Mini	Cancel
<input type="checkbox"/> SEP7488BB5C7C6B	Auto (Cisco Webex Board 55) - 8166	Cisco Webex Board 55	Link
<input type="checkbox"/> SEP08ECF5E7DE3C	Auto (Cisco Webex Board 55) - 8174	Cisco Webex Board 55	Link
<input type="checkbox"/> SEP0896AD5B93A0	SEP0896AD5B93A0 ms_ignite board	Cisco Webex Board 55	Link
<input type="checkbox"/> SEP70D0445FA011	Auto (Cisco Webex Board 55) - 8101	Cisco Webex Board 55	Link

The device is not yet linked to the Webex cloud. The device may be in a call or offline, so Unified CM could not send the activation code as part of the device's configuration. You can either wait and check the status later or cancel and retry the activation. Note that software version 9.12 or later is required to link a device.

## Status Update

- For Webex devices that cannot be activated at that specific time, the status will change from 'Linking' to '!Link Pending'.
- Hovering over the '!Link Pending' status will provide further details as to why the linking could not take place.
- There is also the option to cancel the linking process.
- In the above scenario, the Webex Room Kit Mini was unable to link as it was disconnected from the network. As soon as the device becomes free, Linking will complete.

# Device Linking Flow – Unified CM

Providing on-premises registered Webex devices with cloud features



On-premises  
Webex device



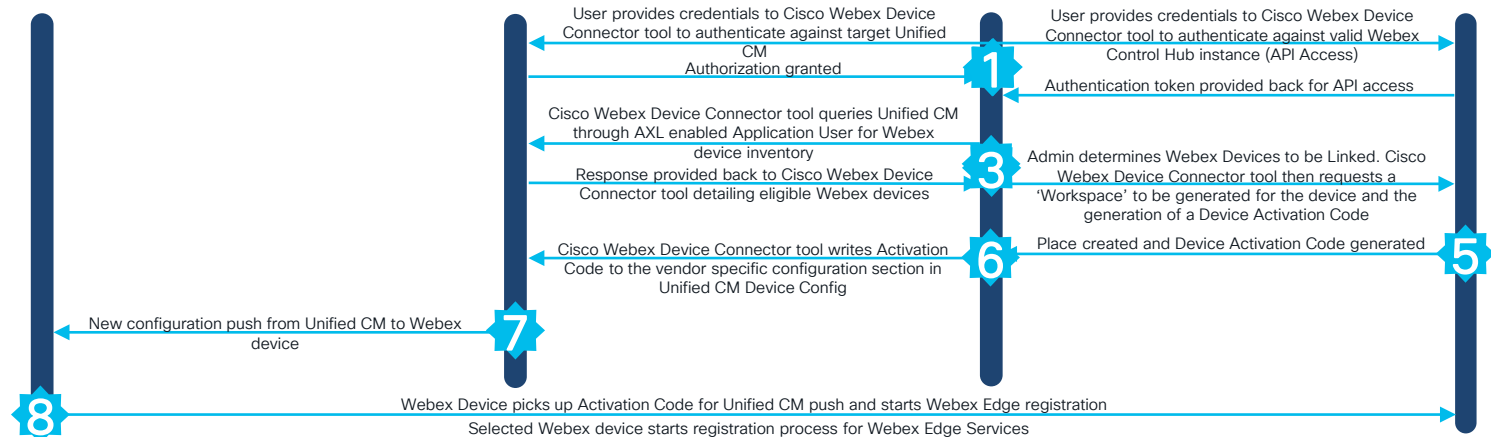
Unified CM



Cisco Webex Device  
Connector tool

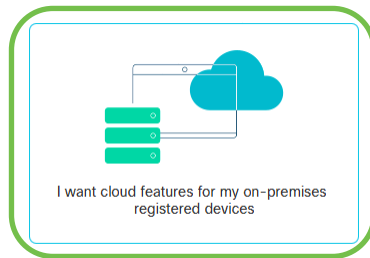
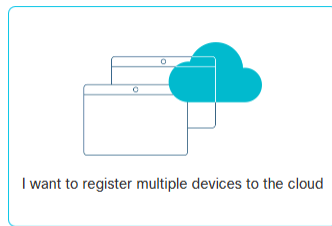


Cisco Webex  
Cloud

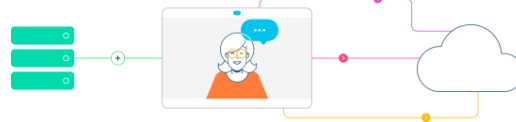


# Steps to add Cisco Webex cloud capabilities to on-premises registered Webex devices

Linking devices through CSV or TMS Overview Export



## Configure Webex Edge for Devices



Webex Edge for Devices adds Cisco Webex cloud capabilities while keeping your current on premises call flows.

### Please Note!!

Note that on-premises device software version CE 9.12 or later is required.  
If you link devices registered to Cisco Unified CM, you also need the latest Device Package installed.

Link devices registered with Cisco Unified Communications Manager

Link devices using CSV or Cisco TMS Overview Export files  
See how to prepare your file

# Steps to add Cisco Webex cloud capabilities to on-premises registered Webex devices

Configure Webex Edge for Devices

Host File.csv [Replace file](#) [Refresh List](#)

Search for devices

1 Devices | 0 Linked | 1 Ready to link | 0 Needs attention | 0 Link failed

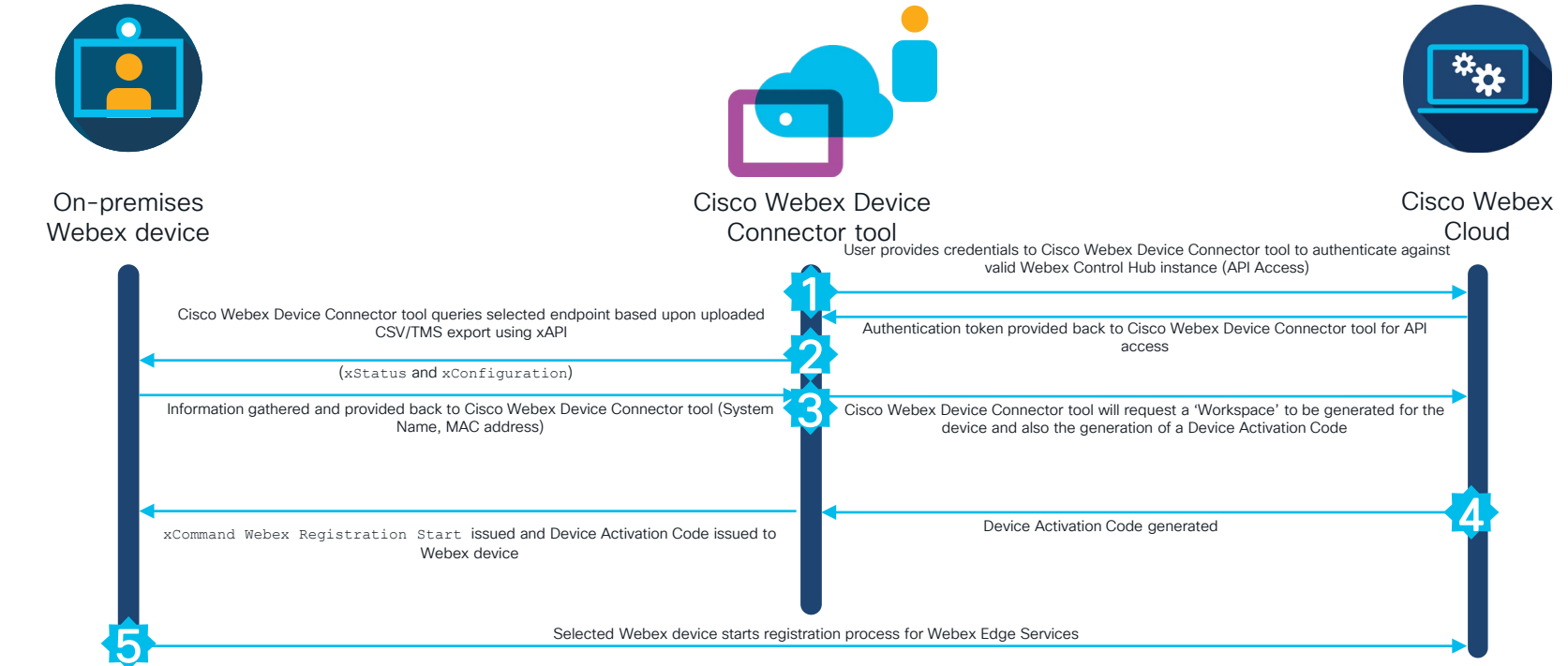
Name	Address	Type	Username	
<input type="checkbox"/> RKM WEID Home Lab	10.60.114.171	Cisco Webex Room Kit Mini	admin	<a href="#">Link</a>

## Device Details

- Once the CSV or TMS Overview Export file has been imported, the Cisco Webex Device Connector tool will display the details of the Webex devices contained in the import file.
- To start the linking process, simply click on the 'Link' button.
- The link button will change to show 'Linking'.
- Once completed, status will change to 'Linked'.
- If linking was not successful, the status will change to '!Link Pending'. Placing the mouse over the status will provide further info as to why linking is in a Pending status.

# Device Linking Flow – CSV/TMS Export

Providing on-premises registered Webex devices with cloud features



# Troubleshooting







# Linking Flow – via AXL to UCM

```
03/02/2021 17:31:48.221 [JavaFX Application Thread] INFO c.w.d.c.MainController - Show view SelectTask
```

```
03/02/2021 17:31:49.344 [JavaFX Application Thread] INFO c.w.d.c.MainController - Show view CloudAware
```

```
03/02/2021 17:31:50.705 [JavaFX Application Thread] INFO c.w.d.c.MainController - Show view CloudAwareUcm
```

```
03/02/2021 17:31:54.027 [pool-2-thread-10] INFO c.w.d.s.CloudService - Get places ({"query":"external-calling","field":"entitlements","type":"exact"}): count=7, offset=0, nextPage=null
```

```
03/02/2021 17:31:54.904 [JavaFX Application Thread] INFO c.w.d.c.CloudAwareUcmController - Found 63 devices
```

```
03/02/2021 17:31:54.907 [JavaFX Application Thread] INFO c.w.d.c.CloudAwareUcmController - Start read vendor config for all 63 devices
```

Connected to 10.50.55.20 Refresh List Connect to different Unified CM

Search for devices

☐ 63 Devices | ● 5 Linked ● 58 Ready to link ● 0 Needs attention ● 0 Link failed

Name	Description	Type	Link all
<input type="checkbox"/> SEP00C88DBE547	Auto (Cisco TelePresence SX10) - 8232	Cisco TelePresence SX10	<span style="color: green;">✔</span> Linked
<input type="checkbox"/> SEP881DFC611379	Len Alston (Cisco TelePresence DX70) 0499	Cisco TelePresence DX70	<span style="border: 1px solid gray; border-radius: 5px; padding: 2px 5px;">Link</span>
<input type="checkbox"/> SEP881DFC60FBE8	Auto (Cisco TelePresence DX70) - 8143	Cisco TelePresence DX70	<span style="border: 1px solid gray; border-radius: 5px; padding: 2px 5px;">Link</span>
<input type="checkbox"/> SEPABCDEF123456	CPeters SJC21-105 DX70	Cisco TelePresence DX70	<span style="border: 1px solid gray; border-radius: 5px; padding: 2px 5px;">Link</span>
<input type="checkbox"/> SEP7436ACF258EA	Abdullah DX70 - 1004	Cisco TelePresence DX70	<span style="border: 1px solid gray; border-radius: 5px; padding: 2px 5px;">Link</span>



# Linking Flow – Webex device selected

```
03/02/2021 17:32:29.005 [JavaFX Application Thread] INFO c.w.d.c.CloudAwareUcmController - Activate device: SEP6C8BD3C6FCFC
03/02/2021 17:32:29.857 [pool-2-thread-3] INFO c.w.d.s.CloudService - Create place and link with device SEP6C8BD3C6FCFC (cucm-device)
03/02/2021 17:32:30.423 [pool-2-thread-3] INFO c.w.d.s.CloudService - Create activation code for place c4b55b10-6608-4bcd-9c28-7ac713e23d72
03/02/2021 17:32:31.371 [pool-2-thread-3] INFO c.w.d.s.CucmService - Set vendor config: deviceId=7f81bbb7-3287-49b3-e08a-b994880ce0db
03/02/2021 17:32:32.750 [pool-2-thread-3] INFO c.w.d.s.CucmService - Apply phone: deviceId=7f81bbb7-3287-49b3-e08a-b994880ce0db
03/02/2021 17:32:53.106 [pool-4-thread-10] INFO c.w.d.c.CloudAwareUcmController - Read activation status for device SEP6C8BD3C6FCFC
```

Parameter Value

ing software versions earlier than CE 9.8 only support provisioning a limited set of parameters from Cisco Unified CM. These

**General Settings**

Configuration Control Mode\*  #

Room Name (from Exchange(R))  #

LoadServer  #

Webex Devices Onboarding Token  #

**Admin username and password**

Admin Username  #

Admin Password  #

**Customization Provisioning**

Customization File  #

Customization Hash Type\*  #

Customization Hash  #



# Linking Flow – Webex device onboarding

```
03/02/2021 17:32:54.507 [JavaFX Application Thread] INFO c.w.d.c.CloudAwareUcmController - Still
activating, schedule new delayed status sync for device SEP6C8BD3C6FCFC
03/02/2021 17:33:14.511 [pool-4-thread-2] INFO c.w.d.c.CloudAwareUcmController - Read activation status
for device SEP6C8BD3C6FCFC
03/02/2021 17:33:16.090 [JavaFX Application Thread] INFO c.w.d.c.CloudAwareUcmController - Still
activating, schedule new delayed status sync for device SEP6C8BD3C6FCFC
03/02/2021 17:33:36.094 [pool-4-thread-4] INFO c.w.d.c.CloudAwareUcmController - Read activation status
for device SEP6C8BD3C6FCFC
03/02/2021 17:33:37.426 [JavaFX Application Thread] INFO c.w.d.c.CloudAwareUcmController - Activation
state changed for SEP6C8BD3C6FCFC: ProvisionedInCUCMPending
```

<input type="checkbox"/> SEPDC8C372A7C30	Auto (Cisco Webex Room Kit Mini) - 8225	Cisco Webex Room Kit Mini	Link
<input type="checkbox"/> SEP6C8BD3C6FCFC	Hybrid Conference Room	Cisco Webex Room Kit Mini	Cancel
<input type="checkbox"/> SEP7488BB5C7C6B	Auto (Cisco Webex Board 55) - 8166	Cisco Webex Board 55	
<input type="checkbox"/> SEP08ECF5E7DE3C	Auto (Cisco Webex Board 55) - 8174	Cisco Webex Board 55	
<input type="checkbox"/> SEP0896AD5B93A0	SEP0896AD5B93A0 ms_ignite board	Cisco Webex Board 55	

The device is not yet linked to the Webex cloud. The device may be in a call or offline, so Unified CM could not send the activation code as part of the device's configuration. You can either wait and check the status later or cancel and retry the activation. Note that software version 9.12 or later is required to link a device.



# Linking Flow – Clean up

03/02/2021 18:29:54.288 [pool-2-thread-25] INFO c.w.d.c.CloudAwareUcmController - Removing activation code from activated device: SEP6C8BD3C6FCFC

03/02/2021 18:29:54.289 [pool-2-thread-25] INFO c.w.d.s.CucmService - Set vendor config: deviceId=7f81bbb7-3287-49b3-e08a-b994880ce0db

03/02/2021 18:29:55.534 [pool-2-thread-25] INFO c.w.d.s.CucmService - Apply phone: deviceId=7f81bbb7-3287-49b3-e08a-b994880ce0db

03/02/2021 18:29:55.813 [JavaFX Application Thread] INFO c.w.d.c.CloudAwareUcmController - Activation code removed from activated device: SEP6C8BD3C6FCFC



# Unsuccessful Linking

SEPDC8C372A7C30	Auto (Cisco Webex Room Kit Mini) - 8225	Cisco Webex Room Kit Mini	Link
SEP6C8BD3C6FCFC	Hybrid Conference Room	Cisco Webex Room Kit Mini	Cancel
SEP7488BB5C7C6B	Auto (Cisco Webex Board 55) - 8166	Cisco Webex Board 55	<p>The device is not yet linked to the Webex cloud. The device may be in a call or offline, so Unified CM could not send the activation code as part of the device's configuration. You can either wait and check the status later or cancel and retry the activation. Note that software version 9.12 or later is required to link a device.</p>
SEP08ECF5E7DE3C	Auto (Cisco Webex Board 55) - 8174	Cisco Webex Board 55	
SEP0896AD5B93A0	SEP0896AD5B93A0 ms_ignite board	Cisco Webex Board 55	
SEP0896AD5B93A0	Auto (Cisco Webex Board 55) - 8161	Cisco Webex Board 55	

# Workspaces



# Webex Control Hub and Workspaces

Cisco Webex Control Hub is the single pane of glass management platform that provides administrators a view into their Devices, Meetings, Calling and Messaging environments, all without transitioning to different tools.

On the devices side, Control Hub has mostly focused on technical issues, such as packet loss and jitter.

Workspaces (formerly Places) brings the following enhancements and capabilities:



- Workspace Device management:
  - Hybrid Calendar settings for the Workspace.
  - Calling settings.



Webex Control Hub



- Workspace (physical) insights:
  - Usage (occupancy).
  - Environmental (such as sound).



## Hybrid Room

Type: Not selected

Capacity: Not set

Device idle - Vacant

[Edit](#)

[Delete](#)

### Devices



Cisco Webex Room Kit Mini

Online, With Issues Today at 7:21 PM

Software Upgrade Channel

Stable (Default)

Lock Settings on Touch Devices

Off

[Edit API Access](#)

[+ Add Device](#)

### Calling



Free Calling

Cisco Webex SIP Address

hybrid\_room@tmedemo.rooms.webex.com

### Calendar

Not configured

[+ Add Calendar](#)

### Real-Time Utilization Metrics



Devices



Occupied



Occupants

[View Details](#)

### Real-Time Environmental Metrics Beta



Sound Level  
(dBA)



Ambient Noise  
(dBA)



Temperature  
(\*C/\*F)



Relative Humidity  
(%)

[View Details](#)

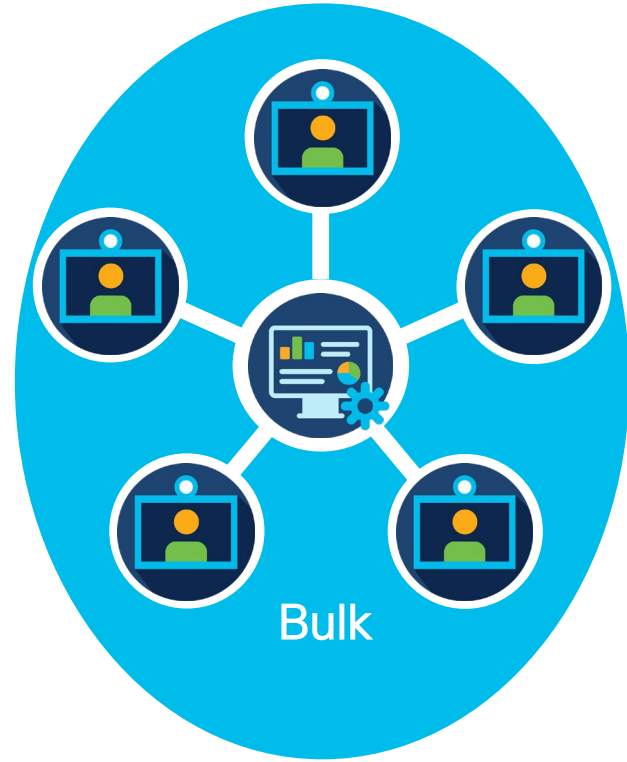
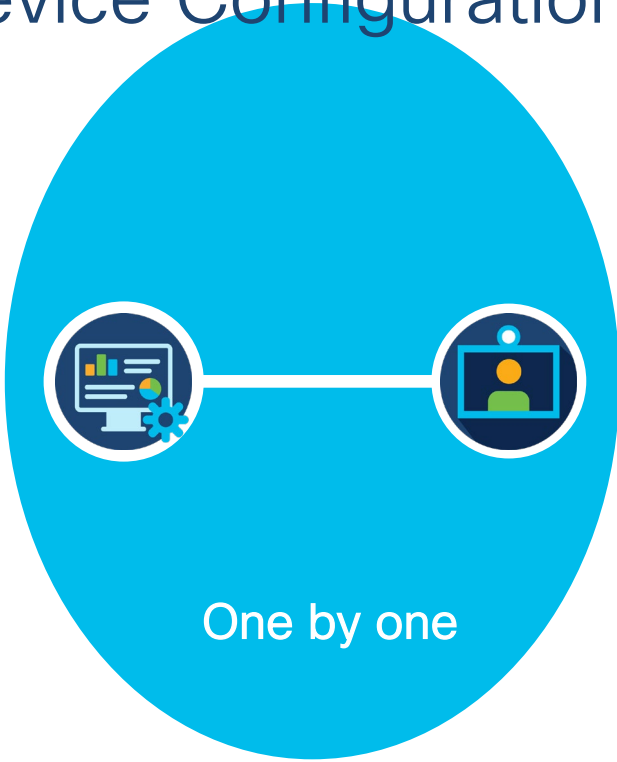




# Device Configuration



# Device Configuration



# Device Configuration

Cisco Webex Room Kit Mini

Online

IP Address

10.60.114.171

Network Connectivity

Wired

Configurations

Digital Signage

Disabled

Device Configurations

Access 245 Configurations

Device Access

Cisco Support

Remote Access Key

*This key enables Cisco Support to resolve system issues remotely.*

Device Web Portal

Launch Web Portal

*Open device web portal in a new tab.*

Logs

Manage Logs

*Generate device logs and download them to your computer*

Cisco Webex Room Kit Mini

Online

Device

Configurations

Digital Signage

Set a web page to show as signage when a device is not in use. Digital Signage replaces a device's half-wake state.

Device Configurations

245 configurations available. For detailed information, check the device API documentation

FacilityService

Audio

Bookings > ProtocolPriority

CallHistory > Mode

Cameras

Conference

Cisco Webex Room Kit Mini

Online

Cairo TME Workspace

IP: 10.60.114.171

# Digital Signage

Cisco Webex Room Kit Mini  
Online

Device > Digital Signage

### Digital Signage

Set a web page to show as signage when a device is not in use. Digital Signage replaces a device's half-wake state.

### URL

Set the URL of the website to be used as signage.

### Interactivity

Touch capable devices can support interactive signage. When enabled, users will be able to interact with the website used as signage.

☐

### Enable Digital Signage

This enables or disables Digital Signage for this device.

☐

Cisco Webex Room Kit Mini  
Online

Close Save

### Digital Signage

Set a web page to show as signage when a device is not in use. Digital Signage replaces a device's half-wake state.

### URL

Set the URL of the website to be used as signage.

### Interactivity

Touch capable devices can support interactive signage. When enabled, users will be able to interact with the website used as signage.

☐

### Enable Digital Signage

This enables or disables Digital Signage for this device.

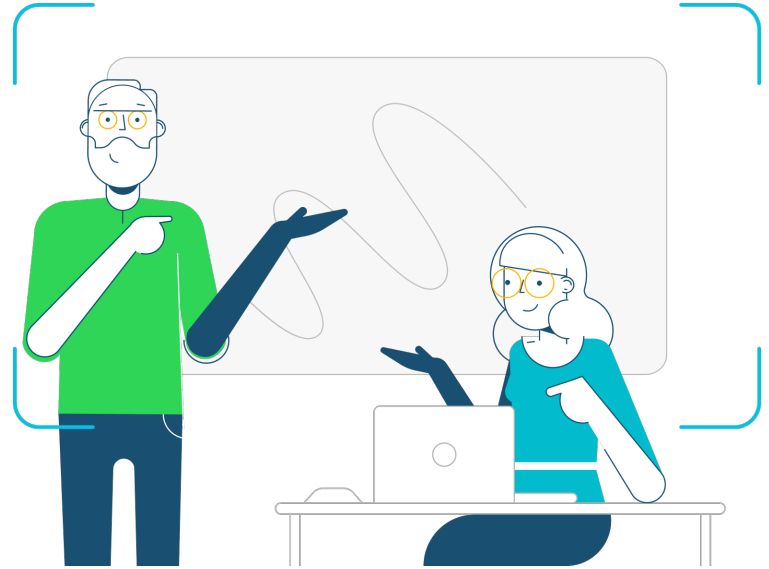
☒

Enabling Digital Signage updates the following configurations:

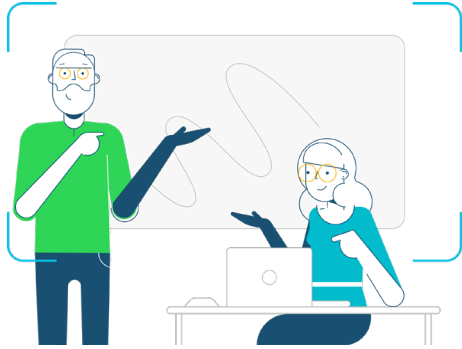
- Standby Delay: 120 minutes
- Web Engine: On

⚠ Saving will override the current standby delay of 10 minutes back to the default value of 120 minutes.

# Bulk Configuration



# Bulk Configuration of...



- Workspace type
- Workspace capacity
- Deletion of workspaces



- Device configurations
- Digital Signage
- Deletion of devices

# Bulk Configuration

## Device Selection

1. Select either the individual devices or 'select all' tick box

2. Select the required action

3 devices selected

Edit Devices Export as CSV Delete Devices

<input checked="" type="checkbox"/>	Type	Product	Status	Belongs to
<input checked="" type="checkbox"/>	Rooms & Desks	Cisco Webex Board 55	Online, With Issues	Camelot Conference Room
<input checked="" type="checkbox"/>	Rooms & Desks	Cisco Webex Room Kit	Online, With Issues	Dubai RK Cloud
<input checked="" type="checkbox"/>	Rooms & Desks	Cisco Webex Room Kit Mini	Online, With Issues	Florence Hybrid

# Conclusion





# Webex Edge for Devices

- Webex Device Connector tool
  - Central point of facilitation to either move devices fully to the cloud or to make the device 'Cloud Aware' with Webex Edge for Devices.
- Both pathways lead to cloud services
  - I am taking my on-premises estate and moving it over to the cloud.
  - I am taking my on-premises estate and I am providing it with cloud features.
- Automatic software updates
  - Cloud registered devices receive monthly updates.
  - Devices linked through Webex Edge for Devices have the option to 'opt-in' to be able to automatically receive monthly updates.
- Migration
  - Bulk or one at a time



The bridge to possible

# Thank you

CISCO *Live!*

#CiscoLive



The background is a vibrant, abstract composition of numerous colorful rays and shapes radiating from a central point. The colors include dark blue, light blue, green, yellow, orange, red, and white. Some shapes are elongated and pointed, while others are more rounded or circular. The overall effect is dynamic and energetic.

# TURN IT UP

CISCO *Live!*

#CiscoLive