Configure Device Onboarding and Cloud Linking for Webex Edge for Devices

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Introduction

This document describes how to configure the "Webex Edge for Devices" feature to link your on-prem devices to the Cisco Webex cloud service.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Knowledge of Cisco Video Devices
- Knowledge of CUCM
- Knowledge of Control hub

Components Used

The information in this document is based on these software and hardware versions:

- Software version CE9.15 or later and Room OS
- Unified CM version 11.5(1) SU3 or 12.5(1) and later. If you have version 12.0(1), please follow the method described for Expressway-registered devices.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Background Information

Please be aware that the information provided in this document has certain requirements:

- CE software that supports strong encryption is required.
- For SX and MX Series, encryption keys can be obtained upon request, except in countries where Cisco is restricted to export encryption. Please contact your Cisco licensing representative to obtain a

key.

- HTTPS connectivity is needed on devices for the Expressway Device Connector tool.
- Control Hub admin access is necessary.
- Cisco Collaboration Flex Plan is required.
- Cisco Webex Device Connector (WDC) must be utilized.
- *.identrust.com must be allowed for certificate verification.
- For Board, Desk, and Room Series devices, encryption keys are pre-installed and cannot be added later. DX70 and DX80 devices have encryption keys available by default.
- Unified CM or Expressway registration is required.

Firewall Ports and Configuration

Even though media does not pass through Webex cloud (unless Webex optimized experience is enabled), you need to enable the same firewall configurations that apply for fully cloud-registered devices. Read more about media and network requirements in the Network Requirements for Webex Services article. Limitations

When you enable a Hybrid Calendar on a device linked via Webex Edge for Devices, it disables the TMS calendar on that device, as only one calendar source is supported at a time.

When you first link devices to Webex Edge for Devices, they're registered as shared mode devices. After you link the devices, it is possible to associate a device with a user.

Firewall configuration: <u>https://help.webex.com/en-us/article/WBX000028782/Network-Requirements-for-Webex-Services#id_134132</u>

Configure

Download Cisco WDC from the Control hub and install it. Or, in order o onboard and/or link on-premises devices to the Webex cloud, download the WDC desktop application from Webex Control Hub or use one of these links:

- Cisco WDC application for Mac: <u>https://binaries.webex.com/devicetoolbinariesuploadproductionstablemacaws/devicestool.pkg</u>
- Cisco WDC application for Windows: <u>https://binaries.webex.com/devicetoolbinariesuploadproductionstablewindowsaws/devicestool.msi</u>

From the user view in <u>https://admin.webex.com</u>, navigate to Devices and select Resources in order to find a link to the Device Connector tool.



Install the WDC Device connector on the machine (Windows or Mac).

😥 Cisco Webex Device Con	nector Setup	í –			
	Welcome to the Cisco Webex Device Connector Setup Wizard	-	End-User License Agreement Please read the following license agreement carefully		Cisco Webex Destination Cick Next to
	The Setup Wizard will install Cisco Webex Device Connector on your computer. Click Next to continue or Cancel to exit the Setup Wizard.		CISCO SYSTEMS, INC. LICENSE AGREEMENT (AS APPLICABLE TO THE PARTICULAR DOWNLOAD) IMPORTANT NOTICEPLEASE READ PRIOR TO USING THIS SOFTWARE: This locase agreement ("License Agreement)" is a legal agreement between you (either an individual or an entity) and Cisco Systems, Inc. and its afflittes ("Cisco") for the use of this Cisco software (such software, together with the underlying documentation if made available to you, the "Software"). By clicking on the button containing the "I accept" language, by installing the Software or by otherwise using the Software, you agree to be bound by the terms of this License Agreement. IF YOU DO NOT AGREE TO THE TERMS OF THIS LICENSE AGREEMENT, CLICK ON THE BUTTON	⇒	Install Cisco W C:1Program F Change
cisco			I accept the terms in the License Agreement		
	Back Next Cancel		Print Back Next Cancel		



After you have installed the Device Connector tool, you need to log in to the Webex device connector with the Control Hub username and password.

Welcome to the Webex Device Con	inector
admin@harshgow.wbx.ai	
Sign in	
Remember me	

Select I want cloud features for my on-premises registered devices and click Link devices registered with Cisco Unified Communications Manager as shown in the image.

What would you like help with?



Read the requirement green box and select to pull devices from CUCM.

Configure Webex Edge for Devices



Enter the Host, Username (Standard AXL API Access username), and Password for your Unified CM and click Connect . If you have Unified CM with publicly signed certificates, ensure those are valid or click Proceed without certificate validation.

The Device Connector retrieves the name and description of the Unified CM configured devices. The Contact Info Name becomes the name for the Workspace the device is connected to. If there is no Contact Info Name set, the System Unit Name or MAC address is used.

Configure Webex Edge for Devices

	Connect to Cisco Unified Communications Manager
	Host *
/	Username (Standard AXL API Access) *
<	appuser
	Password *
	••••••
	Connect without certificate validation
	Failed to connect to Unified CM: The certificate validation failed. We recommend that you add your own ce C:\Users\Administrator\.webexdeviceconnector\certs directory in Base-64 encoded X.509 (.CER) format. Alt proceed without validation.

After you connect to CUCM, all device info is now pulled by the Webex device connector from CUCM and ready to be linked.

Configure Webex Edge for Devices

Connected to 10.102 Ca.J8 😳 Refresh List 🕣 Connect to different Unified C Search for devices 9 Devices 1 Linked 8 Ready to link Li Name Description Type SEPA46C2AB0103C SEPA46C2AB0103C Cisco TelePresence MX800 Lir Lir SEPE4C722646992 SEPE4C722646992 Cisco TelePresence SX10 SEP84B802CD8BE8 SEP84B802CD8BE8 Cisco TelePresence SX10 Lin SEP7426ACEF086C SEP7426ACEF086C Cisco TelePresence DX70 Lir SEP1C6A7AE094C0 SEP1C6A7AE094C0 Cisco Webex DX80 Lir Lir SEPF4DBE6C73F2F SEPF4DBE6C73F2F Cisco Webex DX80 Cisco Webex Room Kit Lir SEP0896AD5F4593 SEP0896AD5F4593 SEP0896AD5F4588 SEP0896AD5F4593 Cisco Webex Room Kit Plus Lir SEPC014FE7B7B50 C SEPC014FE7B7B50 Cisco Webex Desk Pro Θı

Click Link All in order to link all of the listed devices. To link an individual device, click the Link button next to it.

Device Connector sends the device information to your Webex organization, and the Webex Identity Service creates activation codes for all devices. Unified CM applies the activation code to the devices and the devices link to your Webex organization.

When the device is linked to Cisco Webex cloud services, you can click the device name to open the device page directly in Control Hub.

If the device says Link Pending, it is not linked yet. The activation code is provisioned from Unified CM. The system attempts to link to the device for 7 days until the activation code expires. If the device is available at that time, it gets linked.

Endpoint-Specific Configuration:

The endpoint can be Registered and Provisioned via CUCM as shown in these images.

Cisco Webex Local Device Controls		
10.10 ····· :	Search	Status / SIP
Desk Flo	Phonebook	Proxy 1
⊖ Home	Provisioning	Address Status
√ Call	Proximity	
SETUP	RoomAnalytics	Registration 1
Settings	RoomPreset	Posson
A Users	Security	Status
Security	SIP	URI

Status / Provisioning

Discovered	None
NextRetry	
Reason	
Server	10.127.004.005
Status	Provisioned
WebexCalling Status	Idle

Configuration / Provisioning

CUCM CallManagementRecords CallDiagnostics (i) Enabled				
LoginName (j	appadmin			
Mode (j	CUCM ~			
Password (i)	•••			
TIsVerify (j	Off v			
WebexEdge (i)	On v)		

ExternalManager			
Address	i	10.127.2	cucm IP address
AlternateAddress	(i)		
Domain	(i)		
Path	i		
Protocol	(i)	HTTP	~

Once you are ready to link devices. Click on Link devices. If devices are linked successfully, the status of Devices on the Webex device Connector changes to Linked in green.

SEPC014FE7B7B50 C	SEPC014FE7B7B50	Cisco Webex Desk Pro

On Endpoint, post edge connection is made to the Control hub as shown in the image.

Cisco Webex Local Device Controls			Q
10.555 Desk Pro	System Informa	tion	
G Home	General		Issues
% Call	10.101211100 IPv4	C0:14:FE:7B:7B:50 MAC Address	🛆 I am flying on Clo
SETUP			
Settings	IPv6		
A Users	FOC2427NF4L Serial Number	ಕ್ಕೆ Ethernet Active Interface	Provisioning
CUSTOMIZATION	Normal Temperature		Cisco UCM Provisioning Model
Personalization UI Extensions Editor	9988777@10.127.234. SIP URI	136	Webex Edge for De Registered

How to upgrade Webex Device Connector?

Your Webex Device Connector receives a push software upgrade from the cloud. If you get notified, it is recommended to upgrade the connector.

	SEPC014FE7B7B50 C	SEPVikduttaisbest	Cisco We	bex Desk Pro	0 L
	Name	Description	Туре		
	Search for devices		1 Devices	1 Linked	0 Ready to link
		Connected to 10.127.201.100	🖱 Refresh List	Onnect to Connect Connect to Connect to Connect to C	different Unified (
		Configure V	Vebex Edg	e for Devi	ces
🛋 Cisco V	Vehex Device Connector				

Click on Update and the download starts. After the download is finished, you need to install the new connector again. Select Link devices registered on CUCM. Post that, insert CUCM IP/username/Password to pull

all devices (as done previously in this doc).

The connector has now been upgraded successfully as shown in the image.

Configure Webex Edge for Devices Connected to 10.127 2111101 Refresh List Onnect to different Unified Search for devices 1 Devices 1 Linked O Ready to link Name Description Type		SED\/ikduttaishast	Cisco Webey Desk Pro	01
Configure Webex Edge for Devices Connected to 10.127 214 100 Refresh List Onnect to different Unified Search for devices 1 Devices 1 Linked 0 Ready to link	Name	Description	Туре	
Configure Webex Edge for Devices	Search for devices		1 Devices 1 Linked	O Ready to link
Configure Webex Edge for Devices		Connected to 10.127 2014 100	⊙ Refresh List	to different Unified
		Configure \	Webex Edge for Dev	vices



Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.