# How to Configure Office 365 Hybrid Calendar with TMS

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## Introduction

This document describes how to configure for the first time, a Hybrid Calendar environment with Office 365 (O365), along with Webex Control Hub and Telepresence Management Suite (TMS).

#### **Network Diagram**



### Prerequisites

#### Requirements

Cisco recommends that you have knowledge of these topics:

- TMS 15.9 version installed or later.
- Expressway as Connector configuration.
- Webex Control Hub general configuration.
- Office 365 general configuration knowledge.
- Telepresence device registered to Cisco Unified Communication Manager (CUCM).
- Cisco Meeting Server (CMS) general configuration.

#### **Components Used**

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

- CMS version 3.0.
- TMS version 15.13.
- Office 365.
- Webex Control Hub.
- Expressway-C version X12.7.1.

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.

## Configure

#### Webex Control Hub Integration with Office 365

Step 1. Open Control Hub admin site: <u>https://admin.webex.com.</u>

#### Step 2. Navigate to Services>Hybrid menu.



Step 3. Locate Office 365 Hybrid Calendar option, and select Set Up.

## Hybrid Calendar

## 🚺 Office 365

Use @webex or @meet in a meeting location to insert join details, show upcoming meetings in the Webex app, and provide One Button to Push (OBTP) to join.

#### **View Prerequisites**

Set Up

Step 4. Select the instance which suits your O365 environment, and select **Authorize**. After this, a redirect to O365 admin site takes place.

## Hybrid Calendar Setup

## Office 365 Setup

The Hybrid Calendar Service needs permission to access Office 365 on behalf of your users.

Choose your Office 365 instance and then click Authorize to sign in to Microsoft and accept permissions for the service.

After you accept, your browser should redirect you back here. If you're not redirected shortly, return to admin.webex.com and start this process again.

#### Office 365 Instance



Note: For most cases, Worldwide Instance applies.

Step 5. Continue with the Authorization process for Control Hub and O365. Use an O365 account with admin priviledges.



## **Pick an account**

à	Amadeus Ubaldo Rios (aubaldor) Signed in	÷
Ř	sportillo@	÷
+	Use another account	

Step 6. Validate the premissions requested by Webex Calendar Service and select **Accept**. A new redirect takes place to <u>https://admin.webex.com</u> site.



## Permissions requested Review for your organization



#### Webex Calendar Service

This app would like to:

- Read domains
- Initiate outgoing 1 to 1 calls from the app
- Initiate outgoing group calls from the app
- V Join group calls and meetings as an app
- V Join group calls and meetings as a guest
- Access media streams in a call as an app
- Read online meeting details
- Sign in and read user profile

If you accept, this app will get access to the specified resources for all users in your organization. No one else will be prompted to review these permissions.

Accepting these permissions means that you allow this app to use your data as specified in their terms of service and privacy statement. You can change these permissions at https://myapps.microsoft.com. Show details

Does this app look suspicious? Report it here



Step 7. In the Hybrid Calendar setup window, enter the email address of an account in Office 365 in order to test the connection, and select **Test**. This test creates an event in the user's calendar, to validate access and provisioning. Once this process finishes, select **Done**.

Step 8. Navigate to **Services > Hybrid**, in order to validate Hybrid Calendar option for O365 is reported as **Operational**, .

## Hybrid Calendar

1 Office 365

Users

Enable users

Service

Edit settings

Office 365 Instance Worldwide

Operational

Step 9. Select **Enable Users**, in order to add Hybrid Calendar feature to a test user. For this case, only a test user from **User Page** section is added.

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## Enable users

You can now enable Calendar Service for your users. To enable users, you can:

- Enable them individually from the users page.
- Enable them in bulk using the CSV template.

Refer to documentation if you need help enabling users.



Step 10. Navigate to Webex Control Hub main page, locate **Management** section, and select **Users.** 

Step 11. Select the desired **User** listed, to have hybrid calendar enabled for it.

Step 12. Navigate to **Hybrid Services > Calendar Services**.



User	
Services	Edit Licenses
Messaging	Cisco Webex Teams >
经 Meeting	Cisco Webex Meetings >
🖌 Calling	Cisco Webex Free Calling $>$
Hybrid Services	
Calendar Service	Off >
S Call Service	Off >
Message Service	Off >

Step 13. Validate the option **Microsoft Exchange/Office 365** is selected. **Enable** the calendar option and **Save** the changes. Repeat for each user which requires Hybrid Calendar service.





#### Calendar



Add @meet to an invitation to create a space on the Webex app for your meeting. Add @webex to attach your Webex Personal Room.



Step 14. Validate over the same User's configuration, Hybrid Calendar status is listed as **Activated**.



#### Webex Control Hub @meet Keyword Configuration

Step 1. Open Control Hub admin site: <u>https://admin.webex.com.</u>

Step 2. Navigate to Services>Hybrid menu.

SERVICES	
C Upd	ates
🔘 Mes	saging
📋 Mee	ting
🗞 Calli	ng
😂 Con	nected UC
🛆 Hybi	rid

Step 3. Locate Hybrid Calendar box for Office 365, and select Edit Settings.

Hybrid Calendar	0
Office 365	
Users 2 users enabled	
Service Edit settings	
Edit Settings	
Office 365 Instance Worldwide	

Step 4. Locate **Keywords** section, and select **Cisco TelePresence Management Suite** option from **@meet** drop-down menu.

@webex

Select the default action to use when a user adds @webex to a meeting location field.

meet	
lect the default action to use when a user adds @meet t	o a meeting locat
Cisco ToloDrosonos Managament Suita	^
Cisco relepresence management suite	, ,
Cisco Webex Personal Room (or @meet:myroom)	
Cisco Webex Personal Room (or @meet:myroom) Spaces in the Webex app (or @meet:space)	

Step 5. Select Save.

#### **TMS Device Room Mailbox Configuration**

Step 1. Login to TMS web admin page.

Step 2. Navigate to **Systems > Navigator** menu.

Step 3. Locate the device and open the device settings.

Step 4. Select the **Settings** tab, and navigate to **Edit Settings** sub menu.

WebEx Room 55 TP LAB			
Cisco Webex Room 55 Status: Idle Address:	Connectivity: Reachable on LAN	Unified CM:	
Summary Settings Call Status Phone Book Connect	tion Permissions Logs		
View Settings Edit Settings Ticket Filters			
General			
Name: System Type: System Connectivity: Network Address: Marufacturer: MAC Address: IP Zone: Password:	WebEx: Room 55 TP LAB           Cisco Webex: Room 55           Reachable on LAN           192:168:15:203           Cisco           00:A5:BF:C4:56:11           TAC MEX	Status: Your Access: System Contact: Alert System Contact when Booked: Description: Email Address:	Book, Edit Settings, Manage Calls, Set Permissions, Read
One Ferrentine			
Configuration			
Software Version: Hardware Serial No:	ce10.3.2.0.85049347ae0		
Out California			

Step 5. Locate Email Address section, and configure the room mailbox address.

Step.6 Repeat steps 3 through 5, for the rest of the devices considered for this solution.

#### **Expressway Connector Connection with Webex Control Hub**

Step 1. Open Control Hub admin site: <u>https://admin.webex.com.</u>

Step 2. Navigate to **Hybrid Services > Calendar Services**.

SERVICES	
C Updates	
Messaging	
📋 Meeting	
% Calling	
S Connected UC	

Step 3. Locate Exchange Hybrid Calendar, and select Edit Settings.

Hybrid Calendar	0
E Schange	
Users Enable users	
Resources	
view all	
Service Edit settings	
Service Edit settings	
Service Edit settings	

Step 4. Locate Resources option, and select Add Resource option.

**Events** 

Setup not completed



Step 5. Configure the Expressway Connector Fully Qualified Domain Name (FQDN) with format **hostname.domain**, for Webex Control Hub to stablish a trust with the Expressway server.

**Note**: Use only lowercase characters in order to configure Expressway Connector FQDN. Capitalization is not supported yet.

Step 6. Configure an Expressway Connector display name for Webex Control Hub.

#### Add Expressway Cluster

Enter a display name for the Expressway cluster

Expressway Connector Techzone

The cluster name is used for display purposes in Cisco Webex Control Hub.



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Step 7. Select **Next**, in order to complete the Expressway Connector Setup from Webex Control Hub perspective. After this, a redirect to Expressway Connector web admin page takes place.

### Add Expressway Cluster

#### Complete registration and configure the connector

Calendar Connector will be installed as soon as you finish registration, enabling the Expressway cluster for Hybrid Calendar Service.

Click Next to send the registration token to the Expressway and continue the registration there.

### Next steps and cluster configuration

Use the notifications (2 2 Notifications) in the top left corner of Hybrid Calendar Service pages for next steps in configuration.

After registration, configure your new cluster. Click on the cluster and then "Edit cluster settings".



Step 8. Sign in to Expressway Connector web admin page, in order to load Connector Management.

Step 9. Choose one of the two available options, in order to update Expressway Connector's certificate trust store.

• Check the box: Allows Cisco Webex to automatically update Expressway trust store, with the required Certificate Authority (CA) certificates. This installs the root certificates which signed Cisco Webex certificates. This allows Expressway-C to automatically trust those certificates, and to establish a secure connection with Cisco Webex.

• Uncheck the box: Manually load the required root certificates into Exppressway's trust store. Step 10. Select **Register.** Validate the information displayed matches with Expressway server details.

Step 11. Select **Allow** in order to complete Expressway Connector registration with Webex Control Hub.

#### Link Expressway Connector with TMS

Step 1. From Expressway Connector web admin page, navigate to **Applications > Hybrid Services > Calendar Service > Cisco Conferencing Services Configuration**, and select **New** in order to access the configuration.





Step 2. Locate Conferencing Service section, and select TMS.

## CISCO Cisco Expressway-C

Status >	System >	Applications >	Users >	Maintenance >	
Cisco Co	onferencing	J Services Confi	guration		
Conference	cing Service		]		
Туре					Webex V

Step 3. Locate **TMS Admin Credentials** section, configure **Username** and **Password**, with a user from TMS which has **Site Admin** priviledges.

Username * administrator
Password *

Note: Domain portion is not required under Username field.

Step 4. Locate **TMS Server Details** section. For **Fully Qualified Site Name** configure the complete FQDN from TMS server. For **TMS Domain Name** field, configure only the domain and subdomain portion.

TMS Server Details	
Fully Qualified Site Name	* tms-01.mextp.local
TMS Domain Name	* mextp.local

Step 5. Locate **Telephony Invite Details**, configure the required details for the fields **Toll Identifier, Toll Number, Toll Free Identifier, Toll Free Number** and **Global Call-in Numbers** (URL).

Telephony Invite Details
Toll Identifier
Toll Number
Toll Free Identifier
Toll Free Number
Global Call-In Numbers (URL)

**Note**: Those fields are not mandatory and can be left without any particular configuration. This can be modified later.

Step 6. Select **Test Connection**, in order to validate Expressway Connector and TMS connection. This test takes about a minute, and a banner appears afterwards with a message to confirm connection test was successful.



Step 7. Select Add, and validate TMS server is listed on Cisco Conferencing Services Configuration section.

## Cisco Cisco Expressway-C



Step 8. Navigate to **Applications > Hybrid Services > Connector Management** and select **Calendar Connector**. It is listed as **Not Enabled** at this point.

Connector management				
Click a connector name below to view or modify the connector details.				
Service	Status	Version	Active	
Management Connector	Running	8.11-1.0.104	Enabled	
Call Connector	Running	8 11-1 0 8131	Enabled	
Calendar Connector	Not enabled	8.11-1.0.7998	Disabled	

Step 9. Locate **Actve** option drop-down menu, select the **Enabled** option and select **Save**, in order to finish this process.

onnector Management	
Calendar Connector	
Status	Not enabled
Active	Enabled 🗸 🧯
Microsoft Exchange servers	Disabled Microsoft Exchange Servers
Cisco Webex Meetings sites	0 Configure Cisco Conferencing Services
Cisco Conferencing Services	1 Configure Cisco Conferencing Services
Online days Online Olarbas	Check Calendar Connector Status

Step 10. Validate Calendar Connector status now is listed with both Running and Enabled

#### attributes.

Connector management Click a connector name below to view or modify the connector details.				
Service	Status	Version	Active	
Management Connector	Running	8.11-1.0.104	Enabled	
Call Connector	Running	8.11-1.0.8131	Enabled	
Calendar Connector	Running	8.11-1.0.7998	Enabled	

## Verify

Step 1. From Office 365 calendar, select a day to create a new meeting.

Step 2. Add a **Title** for the test meeting. Under the **Attendees** field, add the room mailbox addresses which are now linked to your devices on TMS, and any additional attendee required for that meeting.

#### 

Step 3. Select the time of the meeting, and confirm a recurrence if required.



Step 4. Locate the **Location** field, and configure the **@meet** keyword. This is the one Control Hub identifies, in order to forward it to TMS. Select **Send** in order to forward the meeting invite.

0	@meet	
Ŭ	Remind me:	15 minutes before 🗸

Step 5. After a few minutes, open the meeting over your Outlook calendar. Meeting details are

now updated with a CMS space URI, which TMS assigned for that meeting.

•	Hybrid Calendar Test Meeting
© Ø	Wed 2021-06-16 17:40 - 18:10 @meet Calendar
Ũ	Remind me: 15 minutes before $\checkmark$
=	
	Join by video system or application
	© 2021 Cisco Systems, Inc. and/or its affiliates. All rights reserved. 2.4.0.0

Step 6. Open to TMS web admin page, and navigate to **Booking > List Conferences**, in order to find the scheduled meeting.

	ID	Title		Private	Date	Start Time (UTC-05:00)
#	1262	Hybrid Calendar Test Meetin	g	No	6/16/2021	5:40 PM
End Time	e (UTC-05:00	))	Owner	Туре		External Service
6:10 PM			Ubaldo, Axel	One Button To Push		Calendar Connector

Step 7. Validate External Service section shows Calendar Connector as External Service.

Step 8. Open the meeting details in order to validate the information. TMS adds one **Dial in** participant per additional attendee included on the original Outlook calendar invite.

Basic Settings		
Title: Private: Type: Owner: Language: Location:	Hybrid Calendar Test Meeting No One Button To Push Ubaldo, Axel English (US)	
Advanced Settings		
Picture Mode: IP Bandwidth: Secure:	Continuous Presence 2048 kbps If Possible	
Participants Connect	ion Settings Conference Informati	ion Event Log
Name		
🗌 👜 Dial in 1		
🗌 🤖 Dial in 2		
🗌 🏚 Dial in 3		
🗌 🚓 join	CMS server	
🗌 🚊 WebEx Room 55	TP LAB	
Video Conference Master:	WebEx Room 55 TP LAB	¥
Hybrid Calendar Test Meeting		
(b) Wed 2021-06-16 17:40 - 18:10		Organizer
<ul><li>@meet</li><li>Calendar</li></ul>	Dial in 1 ——————————————————————————————————	AU Axel Ubaldo
$(\tilde{\Gamma})$ Remind me: 15 minutes before $\checkmark$		<ul> <li>Yes: 1</li> <li>Webex room 55 TP LAB</li> </ul>
		<ul> <li>Required</li> <li>Didn't respond: 2</li> </ul>
Join by video system or application	Dial in 2	Said Portillo
sip:58941@mxc-collab.com	Dial in 3 —	Jefferson Madriz Required

Step 9. Navigate to a web admin page from a device involved.

Step 10. Navigate to Issues and Diagnostics > User Interface Screenshot, and take a

screenshoot from both On-Screen Display (OSD) and Touchpanel (if applies). Validate the One Button To Push (OBTP) is now displayed over the endpoint.

