

**Webex Contact Center Enterprise digital
channels implementation and
troubleshooting powered by Webex
Connect
LTRCCT-2003**

Speakers: Joshua Raja / Robert W. Rogier

Learning Objectives

Upon completion of this lab, you will be able to:

- Know where Cloud Connect is added to Control Hub
- Know where the SSO Certificate is uploaded.
- Identify the two required authorizations for Webex Connect
- Know how to add these to CCE Admin

Scenario

This lab is designed to introduce the audience to the digital channels (Webex Connect) platform, its architecture, and its provisioning. In addition, this lab will provide the instructions to verify if Webex Connect has been provisioned successfully.

Task 1: Review Cloud Connect in Control Hub

Lab Objective

This first task does not have any user steps. It is simply to review the configuration as this would be required in a customer system.

Prerequisite

Admin credentials to login to Control Hub.

Quick Links

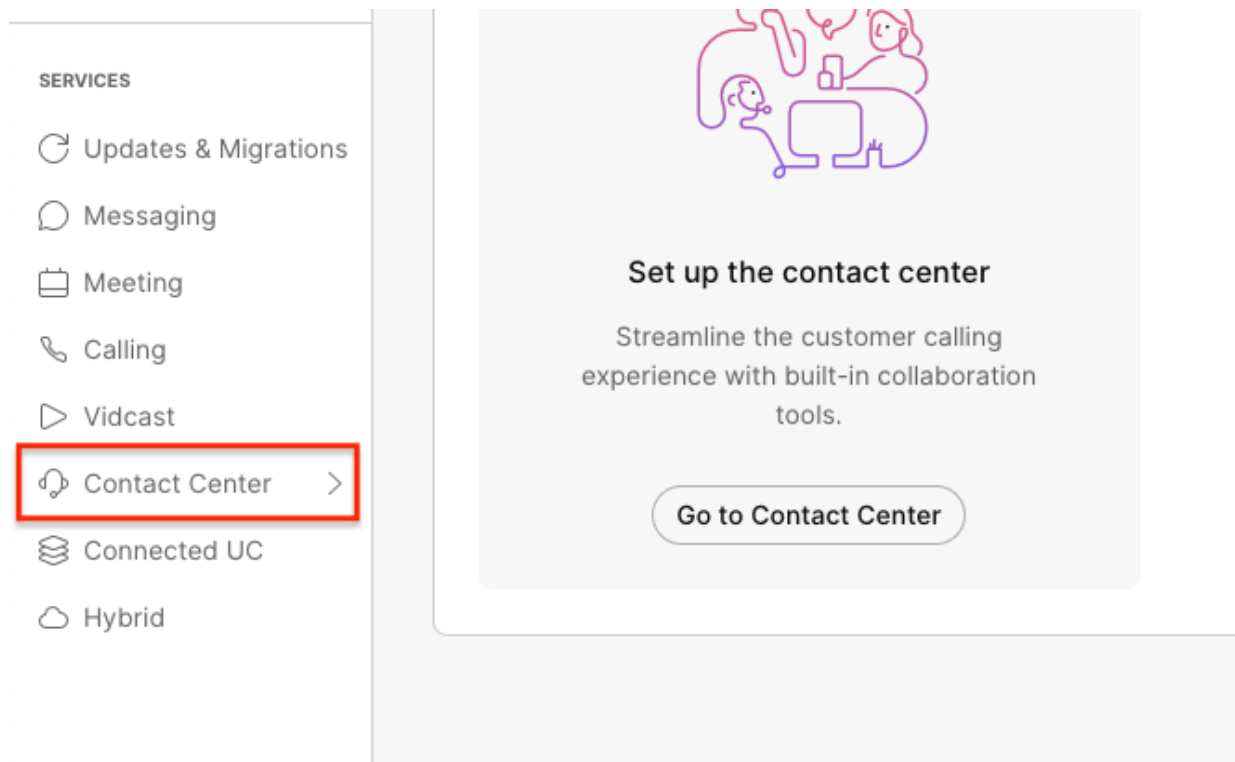
Control Hub: <https://admin.webex.com>

Webex Connect Tenant: See *Seat Credentials* document

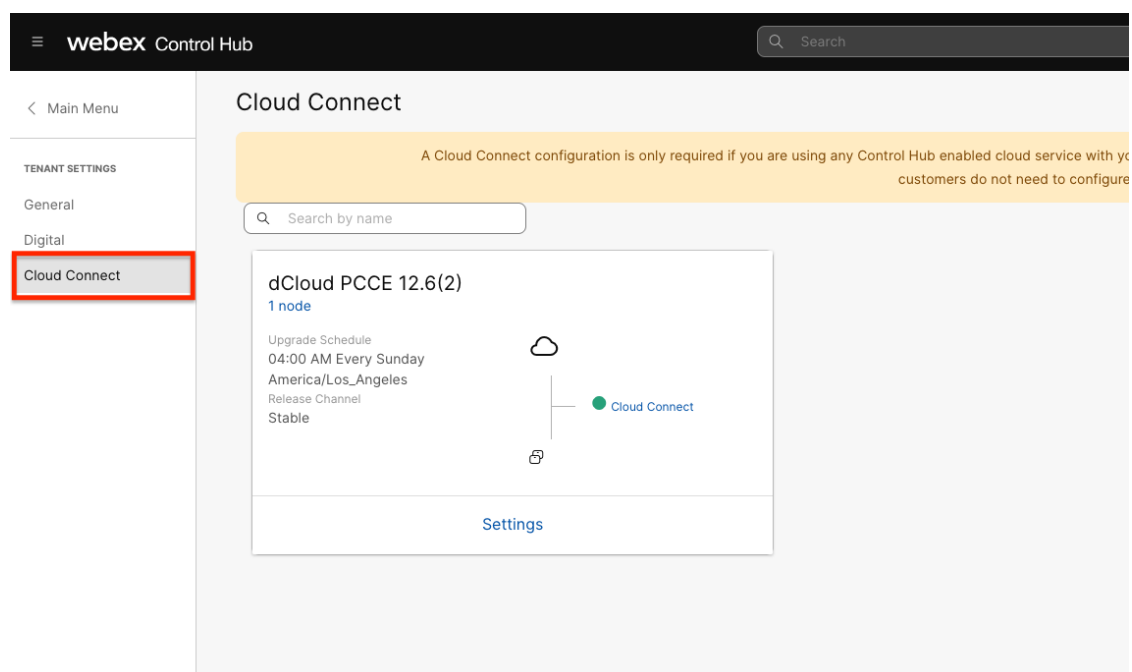
Step 1: Login to Control Hub

Open a Web Browser to the Control Hub URL (<https://admin.webex.com>). Reference the Credentials Document for the credentials for your seat.

Under **Services** select **Contact Center**



Once you have selected this, select the Cloud Connect menu.



Please do not make any changes in this section as this can break other labs.

Step 2: Obtain Public key certificate from Cisco IdS

The Manage Digital Channel gadget authenticates with Webex Engage in the Single Sign-On (SSO) mode, through tokens generated using public key cryptography. Use a secret private key to sign the tokens after which you can verify the tokens using a freely distributed public key certificate. Cisco Identity Service (IdS) generates the public and private keys that you can use to sign and verify the token. Cisco IdS exposes the CLI or REST interfaces to fetch the public key certificate for verifying the token. A public certificate authority (CA) must sign this public key certificate. You must then upload the CA signed public key certificate in Control Hub to authenticate and enable communication between Webex Engage and the Manage Digital Channel gadget.

1. Log in to the Cisco IdS server's command line interface using the SSH administrator credentials.

```
Using username "administrator".
Command Line Interface is starting up, please wait ...

Welcome to the Platform Command Line Interface

VMware Installation:
 4 vCPU: Intel(R) Xeon(R) CPU E7- 2830 @ 2.13GHz
Disk 1: 200GB, Partitions aligned
16384 Mbytes RAM

admin:
```

2. Run the following CLI command to generate the Certificate Signing Request (CSR) that can be used to obtain a CA signed certificate:

show ids token csr – Displays the CSR corresponding to the public key that is used to validate the tokens.

```
admin:show ids token csr
-----BEGIN NEW CERTIFICATE REQUEST-----
MIICPjCCAY4CAQAwITEfMBOGA1UEAxMWY3VpYzEuZGNsb3VkLnNpc2NvLnNvbTCC
ASiWdQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBALjIF7mZyy6nOsBb+S2hgiXV
vaHEyJQUpxpGSiIkVp9EbfG14gJXwmXnlbQO3ROye6AcOShQ12EbqM92BXmhGmx3
lTr2Oayq+rVVk2gV2hOwjiCOOFpDK3QDN6c5nZrLbcK8qCL8E7q6Hw+LbkDmD8vY
IVLMvBS59A9/+8vvm7AzE9KrDk9Y1+htqs1XVnO1/FM1GFEMmGlmZOObkiYAAxaT3
78DCqgVOb4NOaX9nFrrud830IcBi3Fkn/WppYAHWMVuokKuiacuFnnN6O44gEfE3
O7JF4yYGzNjbsu7tffnuUq47ooLyLiIvqErVvXUoWls239wrTPinBferWQE6MKkC
AwEAAaBAMD4GCSqGSIB3DQEJdJExMC8wDgYDVROPAQH/BAQDAgWgMBOGA1UdDgQW
BBTxltP+U67SJttDqpITNmMKCpii4zANBgkqhkiG9wOBAQsFAAOCACQEA4V3LQvq
Unv7BbN1Tf/j3G9LXoQKbdwUm5IHFiVWOMeEq9ko3Fx6IbfYKBu9n72axPK3x9sw
uT8DylfudRhj/+TEajRyRNZ4BEia/D8XQ8u36bYDepeQOEYrOfpyFN1iQTFSN1DP
TlsmrLWVT2BImJ5bZz1dbyFiSlNmTW/kjAo+t/QHEf19WFX9fo8MGsYqijcjODQ
2DNDh1tOKVzrV5RhDN+wQ7pOxXT1X5ZfdzsFUT//jy1DCIwhv4A8wmWmanbysDJ2b
OXKk1nR6iRR2/67k1B8vkW8ESK6kMBEV/yA4ytfXtsCY2v2W+sm3tJR5sC5a2hXP
4Kf2kNtSjJ10yA==
-----END NEW CERTIFICATE REQUEST-----
admin:
```

3. Copy the entire CSR including the header and footer (-----BEGIN NEW CERTIFICATE REQUEST----- and -----END NEW CERTIFICATE REQUEST-----) from the Cisco IdS console and upload the same to the CA provided interface for generating a signed certificate.

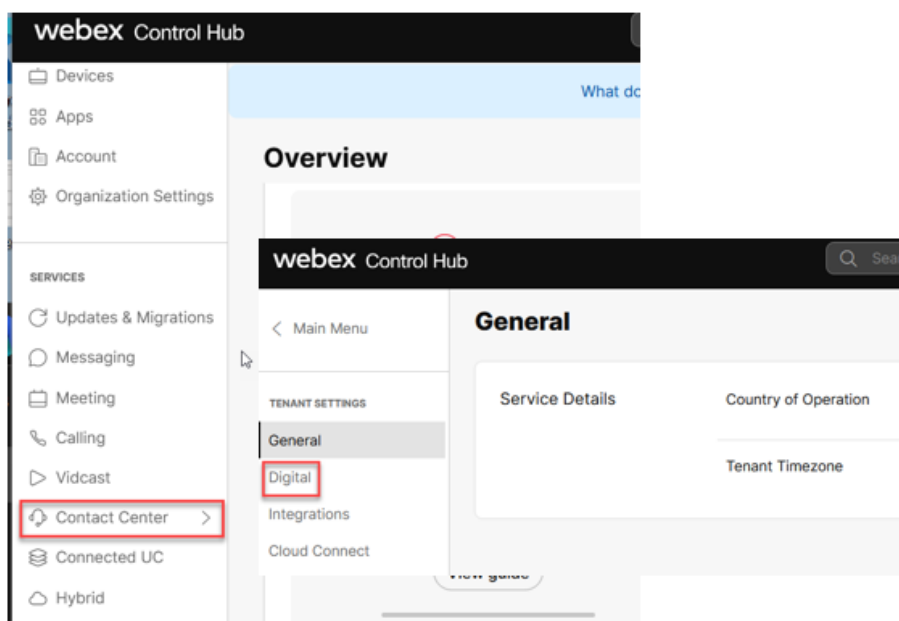
4. Save the contents of the CA provided certificate generated using the CSR in step 3 into a file with extension of either .pem or .der. For Windows CA, this means you must choose base-64 encoding when you download the certificate.

You must upload the certificate in Control Hub when you provision the Digital Channels for an Organization.

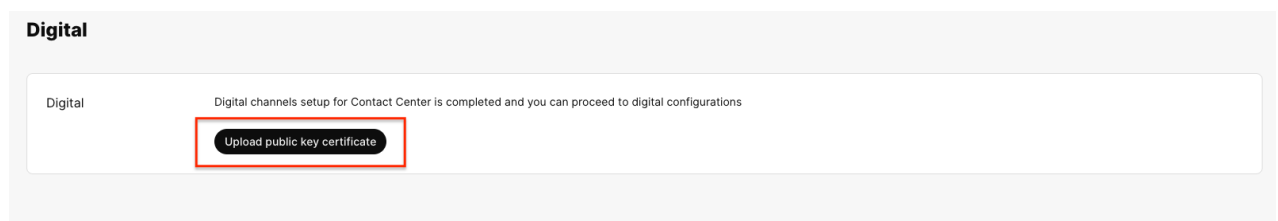
Note: You do not need to upload the CA-signed certificate in the Cisco IdS server

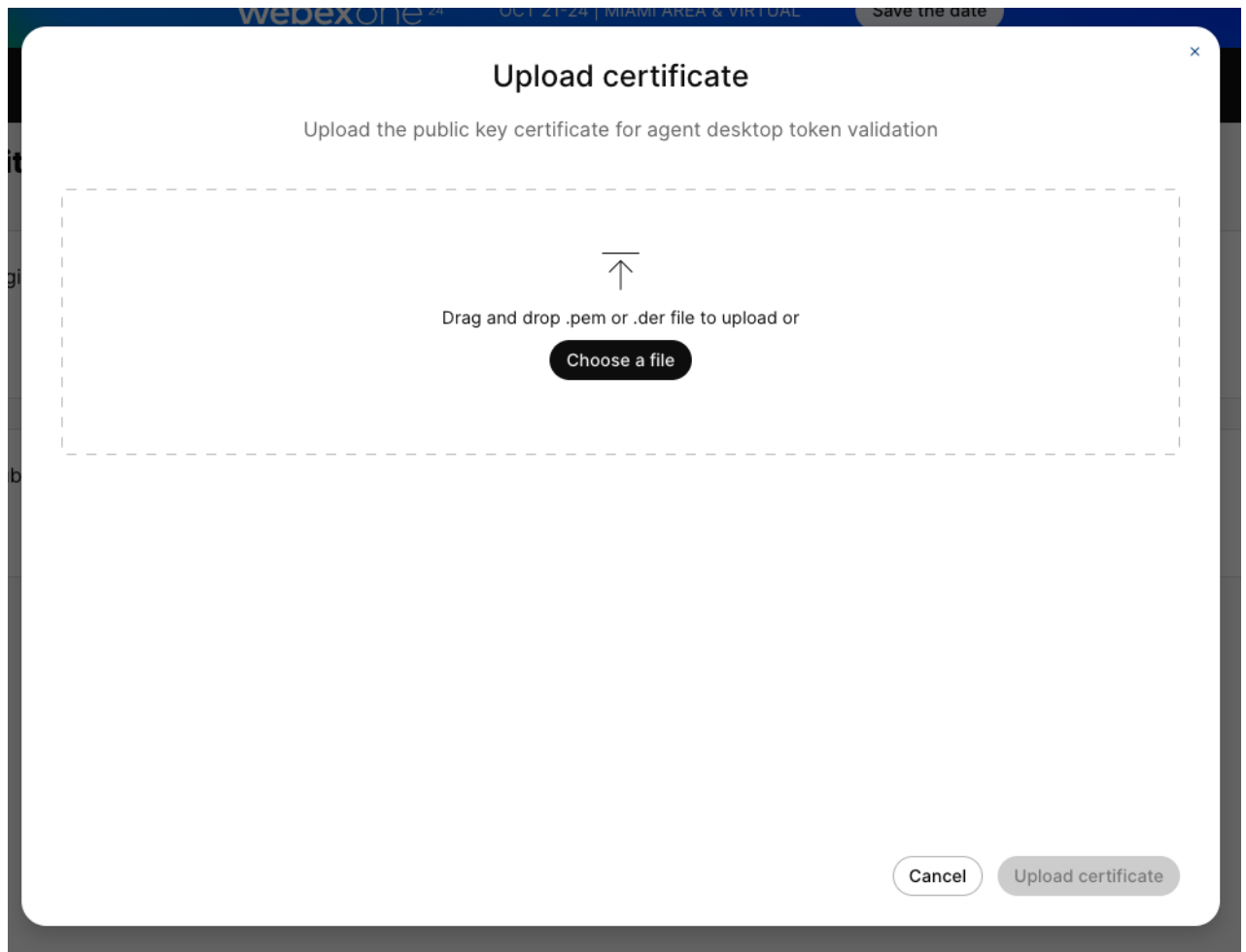
Step 3: Upload the certificate to Control Hub

1. Select the **Digital** menu in Control Hub.



2. Select the **Edit** button to upload the certificate, then either drag-and-drop the signed certificate or select the **Choose a file** button. Once this is done, select the **Upload Certificate** button at the bottom of the page.





3. Wait a few moments for the automated provisioning process to complete.

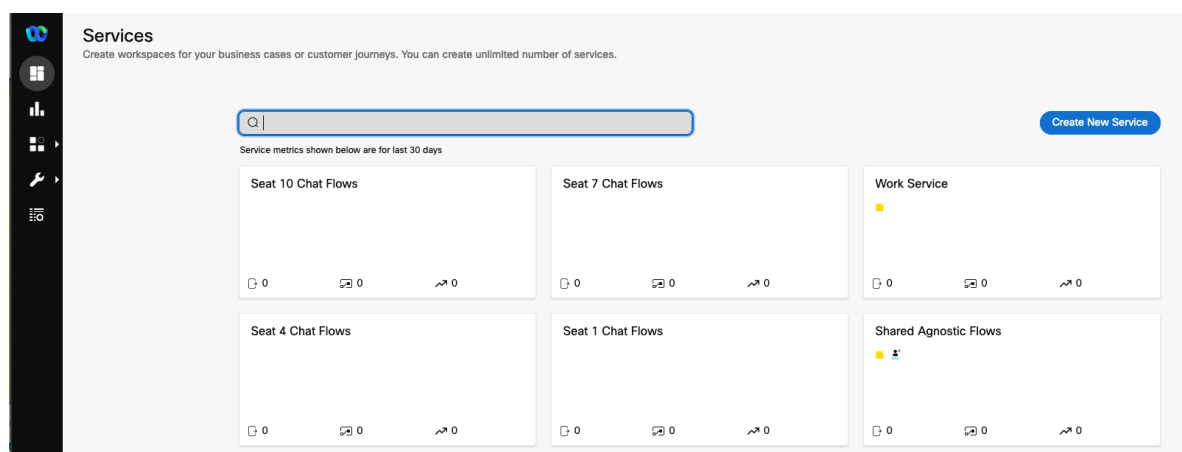
Once this is done, users will be able to login to the Engage gadget in Finesse.

Task 2: Configure the OAuth integration

This section shows how to configure CCE so that the outbound API calls to Webex Connect are successful. You will complete all the steps in this lab. We recommend that you login to the dCloud jump box using one browser window, then use a second browser window to access Control Hub and Webex Connect. There is nothing in these labs that will require you to access both the CCE Admin and Control Hub/Connect in the same browser session.

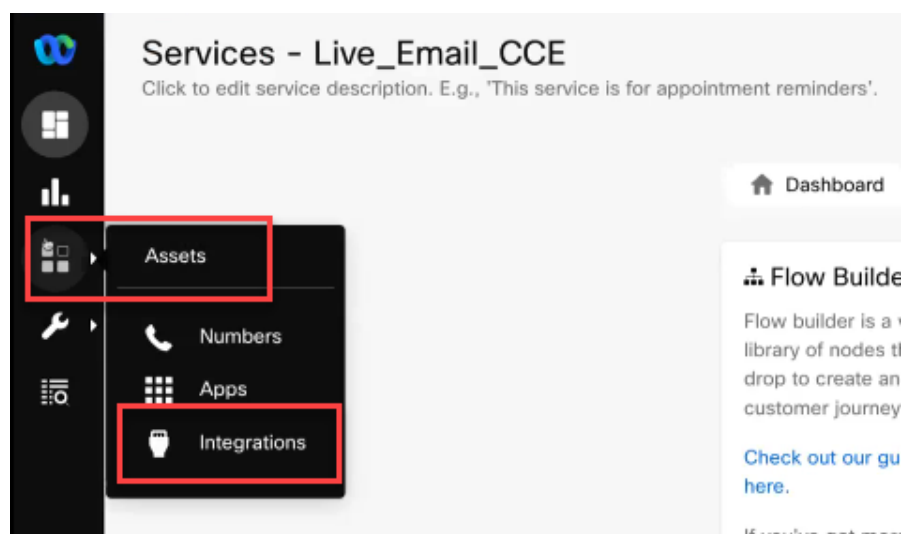
Step 1: Login to Webex Connect

Locate the URL for the Webex Connect tenant in the *Credentials* document. Open a web browser and enter the URL. Login with the username and password documented.



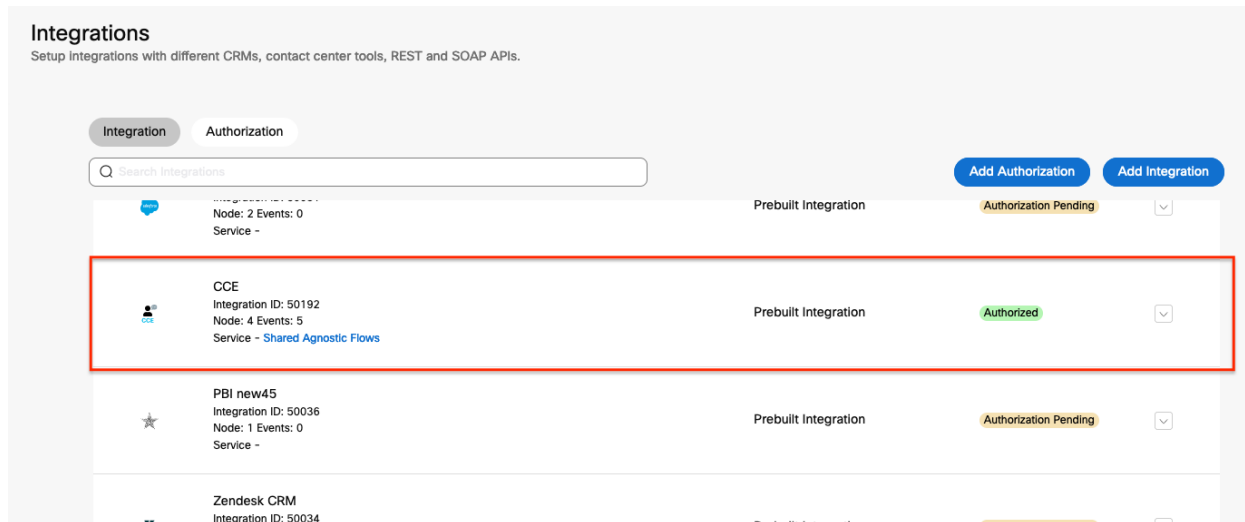
Step 2. Navigate to Assets > Integrations

Select the Assets menu, then select the Integrations sub-menu.

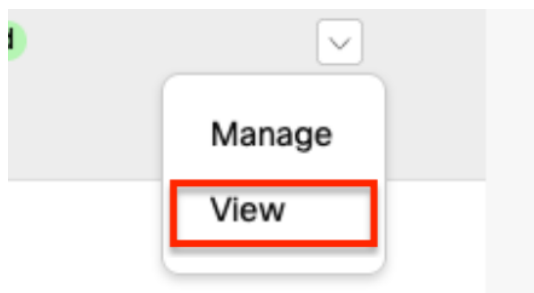


Step 3. Find the CCE Authorization

Select Pre-built Integrations under the Integration Type. In this list, you will see the Webex CC Engage authorization as well as the CCE Authorization.



Select the drop-down at the far right, then select View.



You will need the information in the Integration Details page to do the next step.

Integration Details


Name : CCE

Description : Webex Connect(lmiconnect) Integration with CCE via Digital Routing API

Service : [Shared Agnostic Flows](#)

Flows : [CCE Routed](#), [CCE Queued](#), [CCE Closed](#), [CCE Created](#)

Rules : NA


Tenant Identifier : 


Validate Signature : Disabled

Authorization for Inbound events


Authorization : Enabled Activate

Auth type : OAuth 2.0 Client credentials

Client ID : 

Client Secret : 

Node Authorizations

Authorization	Auth Type	Grant Type	Status	Action
> CCE Authorization	oauth2	authorization_code	Authorized	

Nodes

Step 4. Login to CCE Admin

In your assigned dCloud session, ensure that you are logged into CCE Administration. Select the Digital Channels card, then select Digital Channels Settings. In this app, select the Integration tab.

Digital Channel Settings

Media Channels User Sync ECC Variables **Integration** Advanced Settings

OAuth2 Authentication Details Webhook

Name

Description

Client Id*

Client Secret*

Token Request URL*

Method*

Content Type*

Access Token JSON Path*

Header List

Cancel Save

Step 5. Configure the OAuth2 and Webhook settings

In this section, we will configure all the items required to authenticate the API calls.

1. Provide a descriptive name for this configuration.
2. Copy the Client Id, Client Secret, and Token Request URL from Webex Connect. Use the image below to see how to complete this. Select the copy icon in the greyed-out boxes to copy the clear-text version of the text.

Digital Channel Settings

OAuth2 Authentication Details

Name:

Description:

Client Id*:

Client Secret*:

Token Request URL*:

Method*:

Content Type*:

Access Token JSON Path*:

Integration Details

Name: CCE

Description: Webex Connect(imiconnect) Integration with CCE via Digital Routing API

Service: Shared Agnostic Flows

Flows: CCE Routed, CCE Queued, CCE Closed, CCE Created

Rules: NA

Tenant Identifier:

Validate Signature: Disabled

Authorization for inbound events

Authorization: Enabled Activate

Auth type: OAuth 2.0 Client credentials

Client ID:

Client Secret:

Node Authorizations

Authorization	Auth Type	Grant Type
CCE Authorization	oauth2	authorization_code

The Token Request URL is specified in the Features Guide and depends on which datacenter the Connect tenant exists in. For this lab, all tenants are in the Ireland datacenter so the Token Request URL is, https://keycloak-authservice.imiconnect.io/auth/realms/imiconnect_uk_prod/token

Set the Method to POST.

From the Content Type drop-down list, select a media content type. This determines the response format. The available options are application/json, application/xml, and application/x-www-form-urlencoded. For Webex Connect integration, select application/x-www-form-urlencoded.

In the Access Token JSON path, enter the path in the JSON response to fetch the value of the access token. For the Webex Connect integration, enter `access_token`.

Step 3. Configure the Webhook URL. Copy this from your tenant to the location shown in the image below.

Digital Channel Settings

Webhook

Webhook URL:

Node Authorizations

Authorization	Auth Type	Grant Type	Status	Ac
CCE Authorization	oauth2	authorization_code	Authorized	

Nodes

Node	Version	Authorization
CCE Create Task	v1.0	CCE Authorization
	v1.1	CCE Authorization
CCE Get Task		
CCE Update Task		
CCE End Task		

Inbound Events

Event Name	Event Identifier Type	Webhook URL
CREATED	Path Param	https://integrations.us.webexconnect.io/v1/integration/cce/tenant/TestHybridOrg
QUEUED	Path Param	https://integrations.us.webexconnect.io/v1/integration/cce/tenant/TestHybridOrg
ROUTED	Path Param	https://integrations.us.webexconnect.io/v1/integration/cce/tenant/TestHybridOrg
TRANSFERRED	Path Param	https://integrations.us.webexconnect.io/v1/integration/cce/tenant/TestHybridOrg
CLOSED	Path Param	https://integrations.us.webexconnect.io/v1/integration/cce/tenant/TestHybridOrg

Step 4. Select Save at the bottom of the CCE Admin screen to commit the changes to configuration.

You have completed this portion of the lab.