

# Automating Migration to Webex Calling

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# Cisco Webex App

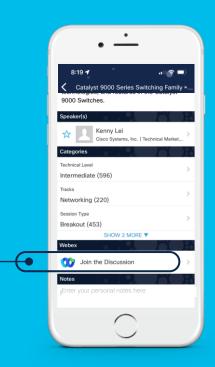
#### **Questions?**

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.





# Agenda

- Webex Calling API Overview
- CSVs for Webex Calling
- Provisioning and Reporting API demo
- Questions

### Introduction

#### Covering

- Webex Calling APIs & CSVs
- Demos of API usage
- · Q&A

#### **Not Covering**

- Gathering business requirements
- Exporting relevant data
- · Syncing AD & other user data

Webex Calling APIs are fully featured and production ready today



Who has used Webex APIs in the past?



# Webex Calling APIs Overview

**PROVISIONING** CALL CONTROL **ANALYTICS & REPORTING** Customer Setup, Onboard, Manage Call. Meet. Collaborate Achieve Customer Success Journey · Manage users, phone #s, Place, answer, hang up calls · Detailed call records locations, & services Stop / start / pause recording · Onboarding, usage, & quality Representative Assign licenses reporting Transmit DTMF digits Tasks Create and manage location Automated reporting setup · List active calls / get history features · Installation, activation, & · Custom enterprise calling User training & adoption onboarding integrations services Sample · Ongoing services management Cloud business platform Business process design & Solutions & care integration optimization · Self-service via partner portal Custom app development · Vertical solutions design & oversight



# Provisioning



# Webex Calling Provisioning Methods





# The past year in provisioning APIs

Location Schedules Call Behaviour Set Work Number Numbers (read) Call Queues Numbers for LGW Move Numbers to Location Locations Call Recording Call Pickup User Loc Calling Permissions Workspaces Hunt Groups Locations Intercept Location Schedules Groups Call Park Auto Attendant **Device Configuration** 

cisco Like!

Call Park Extension

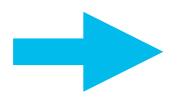
User Features

# Provisioning CSV



# **CSV** Options

- Users
- Devices
- Workspaces



- Users
- Devices
- Workspaces
- Call Queues

- User Features
- Call Park
- Hunt Groups
- Auto Attendant

# Call Control



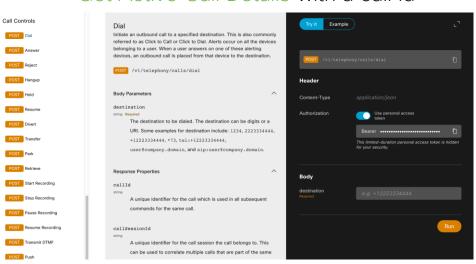
### Calls APIs

#### v1/telephony/calls API

- Click to Dial
- Answer a call
- Divert a call (voicemail)
- Reject or Hangup
- Hold and Resume
- Transfer (connected call)
- Park connected call and Retrieve.
- Group Park
- Recording (Start, Stop, Pause, Resume) on a call

#### /calls retrieval

- Get Call Logs -missed, placed and received calls (user scope)
- Get Active Call Details with a call id





### Calls Event APIs

#### v1/webhooks

Real time event via Webhooks

#### **User Level Events**

originating	originated	received
answered	held	resumed
disconnected	recordingStarting	recordingStarted
recordingPaused	recordingResumed	recordingStopped
transferred	bargedIn	Retrieved
pickedUp	forwarded	updated

```
"id": "Y2lzY29zcGFyazovL3VzL1dF0khPT0svMDU5ND04ZmEtNjE5YS00YmZhLTllYzktNjExMDUyZmY4ZTcy",
"name": "Y2lzY29zcGFyazovL3VzL1JPT00vODlkODc3ZTAtMGUzNi0xMWViLTk0YTYtMDM2NGExY2M5YTU2",
"targetUrl": "https://a4xtqp22j7.execute-api.us-east-1.amazonaws.com/calls/",
"resource": "telephony_calls".
"event": "deleted",
"orgId": "Y2lzY29zcGFyazovL3VzL09SR0F0SVpBVElPTi9hMjQ3MjNlMS1i0WM5LTRlNWQtYjZl0C05NDZhZDliMmU3MGI",
"createdBy": "Y2lzY29zcGFyazovL3VzL1BFT1BMRS84MWNhZjUzOC1jODQwLTQ00WItYmQ3Zi1hYTRhNjJmYWY4MmU",
"appId": "Y21zY29zcGFyazovL3VzL0F0UExJ00FUSU90L0NkNjVkNTExMDU2YWU0NWViY2Vh0Dk4NTU4YT0zNGF1MzE1YTc0ZWU2ZjY
 zNGIyOGI5MDNjZTlhYTZjZGNmMWFm",
"ownedBy": "creator",
"status": "active".
"created": "2020-10-14T18:03:25.829Z"
"actorId": "Y2lzY29zcGFyazovL3VzL1BFT1BMRS84MWNhZjUz0C1j0DQwLTQ00WItYmQ3Zi1hYTRhNjJmYWY4MmU",
"data": {
 "eventType": "disconnected",
  "actorPersonId": "Y2lzY29zcGFyazovL3VzL1BFT1BMRS84MWNhZjUz0C1j0D0wLT000WItYm03Zi1hYTRhNjJmYWY4MmU"
  "orqId": "Y2lzY29zcGFyazovL3VzL09SR0FOSVpBVElPTi9hMj03MjNlMS1i0WMSLTRlNWQtYjZl0C05NDZhZĎliMmU3MGI",
  "eventTimestamp": "2020-10-15T18:06:20.781Z",
  "callId": "Y2lzY29zcGFvazovL3VzL0NBTEwvY2FsbGhhbGYtNDc50Tow".
  "callSessionId": "OGO3YzhkNzqtZjIxZi00YjU1LThkNDEtYTlhNDFiNmFkYTM2".
  "personality": "terminator",
  "state": "disconnected",
  "remoteParty": {
    "name": "ado usr8",
    "number": "1012",
    "personId": "Y2lzY29zcGFyazovL3VzL1BFT1BMRS8wM2Y2YjdkYi1kZWI3LTQxYjAt0WNiNy1lMmNmZTkxYmZkMWU",
    "privacyEnabled": false.
    "callType": "location"
  "created": "2020-10-15T18:06:10.269Z".
  "answered": "2020-10-15T18:06:17.211Z",
  "disconnected": "2020-10-15T18:06:20.781Z"
```



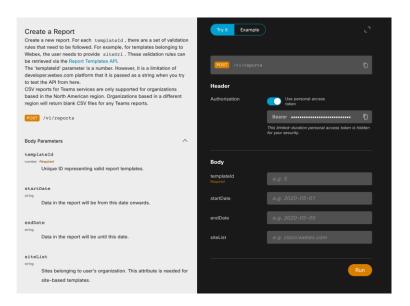
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# Reporting



### Reports API

- Generate reports for all collab products
- 13 months of data available



#### v1/reports

- Run report
- Get Data from report
- List (previously ran reports)
- Delete report



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### Detailed Call History API

- Near real time call history API
- 5 minutes -> 48 hours of data available

```
v1/cdr_feed
```

Get records

```
"items": [
                 "Answer time": "2023-02-06T00:21:42.801Z",
                 "Answered": "true",
                "Direction": "TERMINATING",
                 "Called line ID": "NA",
                 "Call ID": "BW002141793060223-1420647533@10.21.0.214",
                 "Calling line ID": "SAMO_DFW user01",
10
                 "Start time": "2023-02-06T00:21:41.789Z",
                "Call type": "SIP_ENTERPRISE",
11
                "Client type": "WXC_DEVICE",
12
                "Client version": "11",
13
14
                 "Correlation ID": "b3ae24ed-4476-4ef5-8dce-56cab66190ce",
                "International country": "",
15
                 "Device MAC": "0242BE13160A",
16
17
                 "Duration": 29.
                "Inbound trunk": "",
18
19
                 "Org UUID": "a96d9962-8a65-4ee5-9040-fbc3e9efa7ae",
                "Original reason": "",
20
21
                "OS type": "na",
                 "Outbound trunk": "",
22
23
                "Redirect reason": ""
                 "Related reason": "",
                 "Report ID": "44821cf0-ee8c-3057-bc4e-9c225d72c4c8".
```



# Demo - Docs



# Demo - APIs



### Demo Scenario

- You are an admin with a group of new users to provision
- You also need to add them to an IT Support Call Queue
- You'd like to create a custom integration with your internal customer support tool, so that agents can automatically call back customer leads from a list of leads.
- You'd like to export detailed call history reports

You'd like to create an application to automate everything above!



# Postman Collections



### Get started quickly!

- Python SDK
- Actively maintained
- Supporting all Webex Calling API endpoints

Download - <a href="mailto:pypi.org/project/wxc-sdk/">pypi.org/project/wxc-sdk/</a> Docs - <a href="mailto:wxc-sdk/">wxc-sdk/</a> Pocs - <a href="mailto:wxc-sdk/">wxc-sdk/</a>



### Webex Calling API References

- Webex API documentation https://developer.webex.com/
- Postman Collection Provisioning <a href="https://github.com/webex/postman-webex-calling">https://github.com/webex/postman-webex-calling</a>
- Postman Collection Call Control <a href="https://github.com/webex/postman-webex-calling">https://github.com/webex/postman-webex-calling</a>
- Webex Calling provisioning SDK <u>https://github.com/jeokrohn/wxc\_sdk</u>
- TME Video Library (Webex Calling playlist)
   https://www.youtube.com/c/CiscoCollaborationTec
   hnicalMarketing

- Zeep documentation https://docs.python-zeep.org/en/master/
- Zeep examples <a href="https://github.com/CiscoDevNet/axl-python-zeep-samples">https://github.com/CiscoDevNet/axl-python-zeep-samples</a>
- csv module <a href="https://docs.python.org/3/library/csv.html">https://docs.python.org/3/library/csv.html</a>
- Pandas https://pandas.pydata.org/
- Set up your Webex Calling features
   https://help.webex.com/en-us/article/0r7a2z/Set-up-your-Webex-Calling-features



Webex Calling APIs are fully featured and production ready today!



# Questions



# Complete your Session Survey

- Please complete your session survey after each session. Your feedback is important.
- All surveys can be taken in the Cisco Events Mobile App or by logging in to the Session Catalog and clicking the "Attendee Dashboard" at

https://www.ciscolive.com/emea/learn/sessions/session-catalog.html



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Thank you



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