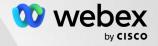
# Webex Calling APIs

Platform Overview

Phil Bellanti and Joe Zanini – Webex Developer Evangelism Feb 2023 Join at slido.com #244 004



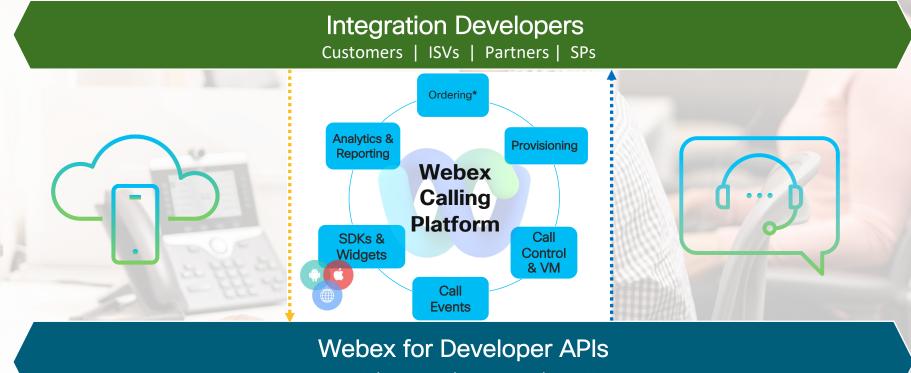


## Agenda



- Webex Calling Platform Overview
- Administrator level APIs
  - Provisioning
  - Reports and Analytics
- User level APIs
  - Call Controls
  - Call Events
  - Voice Messages
- Enabling Sandbox Call Features
- Developer Resources

### Webex Calling APIs Overview



Connected | Secure | Intuitive | Intelligent

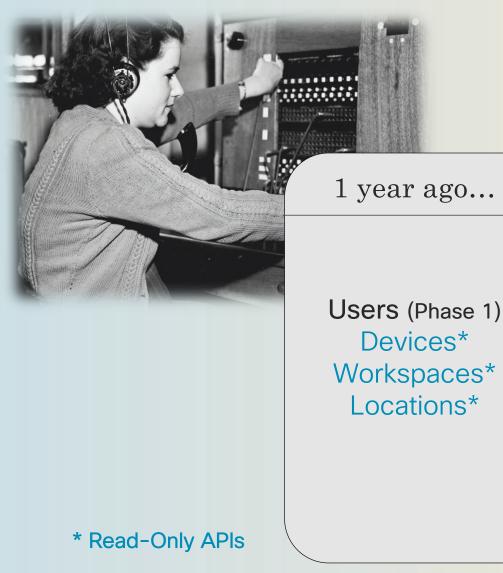
\* Ordering is done via B2B APIs and not via Webex for Developers

### Webex Calling Administrator APIs – Provisioning



**Configure Webex Calling** ✓ Groups ✓ Devices ✓ Locations ✓ Telephony ...and more!

## Modernized Webex Calling APIs – Provisioning



### Today

Users (Complete) Devices\* Locations\*\*

Call Queues Hunt Groups Call Pickup Call Park Schedules Call Park Location Schedules Paging Group Auto Attendant Workspaces\*\* Extensions Numbers\*



\* Read-Only APIs \*\* Read / Update Only

### Webex Calling Administrator APIs – Reports

- APIs to generate Calling reports using the templates configured in Control Hub
- Available Webex Calling reports include:
  - Call quality
  - Engagement
  - Call History Details
  - Onboarding information



## **New: Detailed Call History API**

### analytics.webexapis.com/v1/cdr\_feed

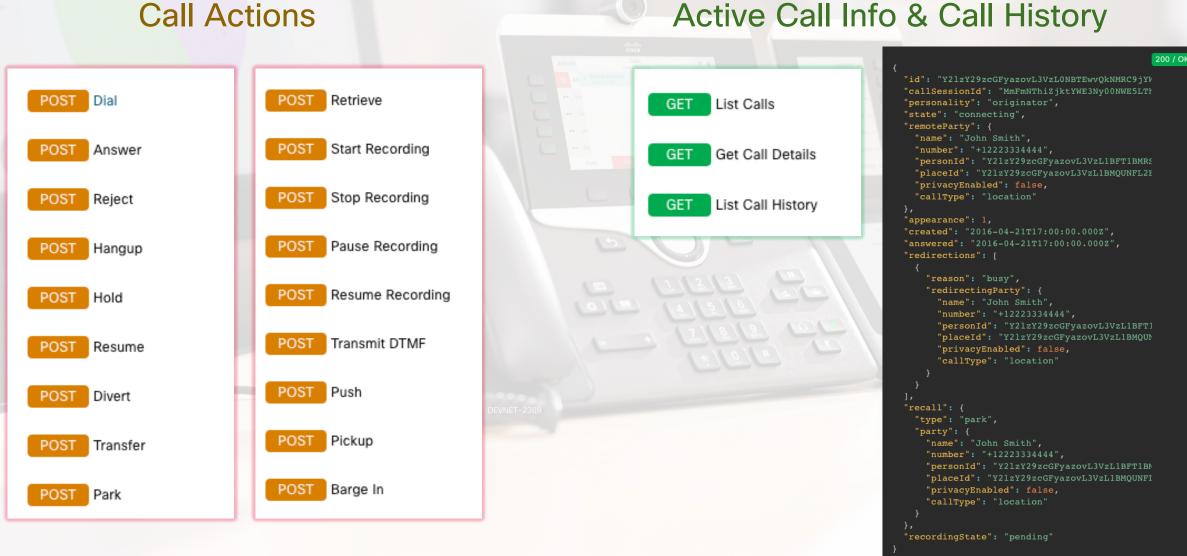
- Provides data for calls completed between 48 hours to 5 minutes ago
- API rate limited to one call every 5 minutes
- Requires administrator scope with specific API access enabled

```
200 / OK
"items": [
    "Answer time": "2020-05-14T11:01:17.551Z'
    "Answered": "true",
    "Authorization code": "107",
    "Call ID": "SSE1101163211405201218829100(
    "Call type": "SIP_ENTERPRISE",
    "Called line ID": "CALLEDCLIDGOESHERE",
    "Called number": "2002",
    "Calling line ID": "YOURCLIDGOESHERE",
    "Calling number": "2001",
    "Client type": "SIP TOLLFREE",
    "Client version": "1.0.2.3",
    "Correlation ID": "8e8e1dc7-4f25-4595-b9c
    "Department ID": "4370c763-81ec-403b-aba:
    "Device MAC": "6C710D8ABC10",
    "Dialed digits": "1246",
    "Direction": "ORIGINATING",
    "Duration": 36,
    "Inbound trunk": "InTrunk",
    "International country": "US",
    "Location": "Richardson",
    "Model" · "8851_3PCC"
```

### **Call Control API Overview**

- APIs to perform call control actions for Webex Calling enabled users
- Available on Webex Developer Portal (<u>https://developers.webex.com</u>)
- Enables 3<sup>rd</sup> party apps to add powerful call control features:
  - Click to call, directory click to dial, digital receptionist apps, CRM tools
  - Supports dialing using PSTN, SIP URI, extension, and user id/email
  - Allows diverting calls to other users or voicemail
  - Supports video calls when appropriate
  - Supports and controls call recording

### Webex Calling User Level APIs – Call Control



### Webex Calling Webhooks- Call Control Events



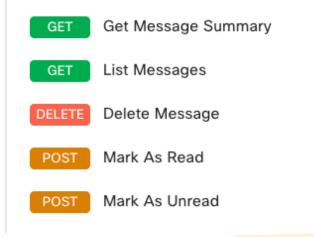
#### Call status events with webhooks

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

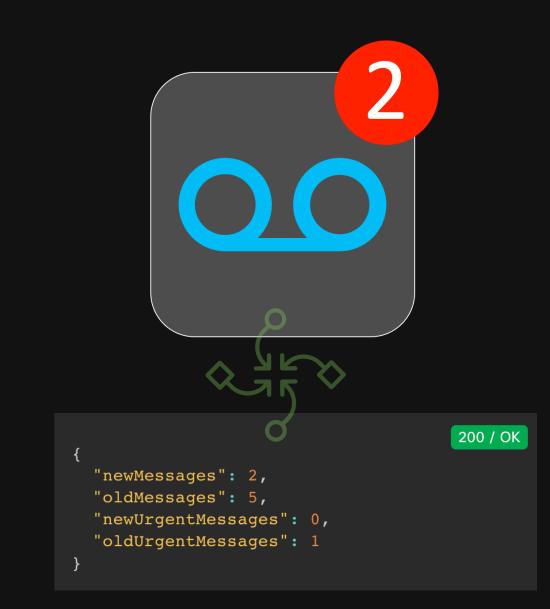
#### "id": "Y21zY29zcGFyazovL3VzL1", "name": "Ni0xMWVILTKYTYEM5YTUZ...", "targetUrl": "https://example.com/calls/", "resource": "telephony\_calls", "event": "deleted", "orgId": "OWM5LTRINWQtYjZiOC05NDZ3MGI...", "createdBy": "Yz0C1j0DQwLTMmU...", "appId": "Y21zY29zcGFyazovLY...", "ownedBy": "creator", "status": "active", "created": "2022-09-14T18:03:25.829Z", "actorId": "Y21zY29zcGFyazovL3VzL1...", "data ": { "eventType": "disconnected", "actorPersonId": "RS84MWNhZjUz0C1j...", "orgId": "OWM5LTRINWQtYjZiOC05NDZ3MGI...", "eventTimestamp": "2020-10-15T18:06:20.7817", "callId": "Y21zY29zcGFyazovL3Vz...", "call SessionId": "OGQ3YzhkNzgtZjIxZib...", "personality": "terminator", "state": "disconnected", "remoteParty": { "name": "ado usr8", "number": "1012", "personId": "Y21zY29zcGFyazovL3V...", "privacyEnabled": false, "callType": "location" }. "created": "2022-09-15T18:06:10.2692", "answered": "2022-09-15T18:06:17.2117", "disconnected": "2022-9-15T18:06:20.781Z"

## Voice Message APIs

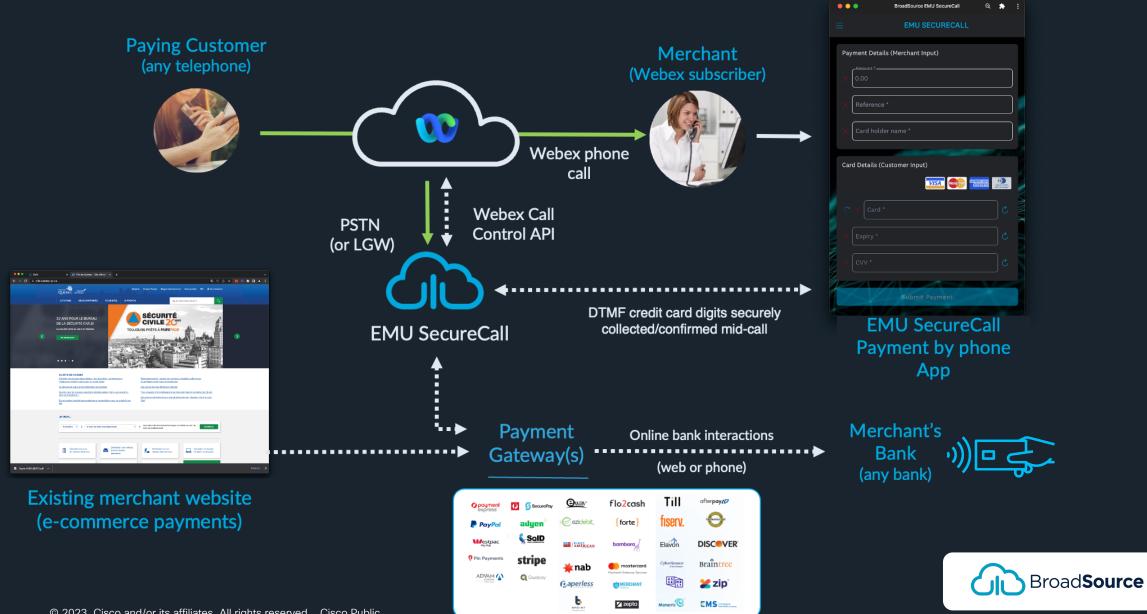
• Voicemail APIs



- Voicemail webhook events
  - Message received
  - Message deleted
  - Message marked as (un)read



#### **BroadSource** | EMU SecureCall Payments for Webex



### Webex developer sandbox

Provides administrator (Control Hub) access to a licensed Webex org

Free to all developers!

Create/test:

- Integrations that require Admin and Compliance APIs or Control Hub access
- Endpoints that require special licensing
- Outside of your enterprise organization



webex CISCO

## **Enabling Calling Features in Control Hub**

- Barge-in and Recording must be enabled by an org admin
- This can be done manually in the Control Hub, limited to one user configuration at a time
- Alternative bulk/batch method with provisioning APIs

MONITORING					
Analytics	Webex Services ALL O			Devices	0nboarding 459 Total Users 🕥
~ Troubleshooting мичиевногт G Users Ø Workspaces Devices	Messenger Meetings Developer API	Teams  Teams Hybrid Services  Room Devices	Cailing Control Hub Contact Center	No Devices Added Get your users collaborating by adding some devices.	Last CSV upload on October 03, 2019 at 05 07PM — Inactive — Not Ven — Verhad — Active
Account Crganization settings Messaging Meeting Meeting	count ganization settings rs Calendar (Google) Calendar (Office 365) essaging Station	 Calendar (Exchange)	Cisco COVID-19 Webex Response Resources	Potential New Osers	
Internal     Call     Message       % Calling     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage     Image: Call of the stage     Image: Call of the stage       Image: Call of the stage	Video Mesh	Technical resources for rapid remote work solution deployment     Mur 2, 2020     End user training and best practices for moving to remote work     Mar 2, 2020     What's New	Quick Links Ξ Manage Subscriptions ④ Organization Tasks		
					Audit Log     Manage Auto-License Template     Control Hub Essentials e-Book     Webex Online Training Classes     Webex Adoption Toolkit
Test Org					

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### Webex Calling Apps: Developer Resources

• Developer start guide:

developer.webex.com/docs/api/guides/webex-calling

• API Postman Collection:

github.com/webex/postman-webex-calling

Webex Calling Python SDK

github.com/jeokrohn/wxc\_sdk

Request Mobile Calling SDK beta access:

Email: <a href="mailto:kritjain@cisco.com">kritjain@cisco.com</a>

• Webex Developer Vidcast Collection:

cs.co/WebexDevsVidcast

## **More Resources**



### Webex Developer

developer.webex.com

@WebexDevs 🔰

cs.co/WebexDeveloperCommunity cs.co/WebexDevInfo

### Github

github.com/webex

github.com/webexsamples

github.com/webexcommunity



### Webex App Hub

apphub.webex.com