





Cutting edge collaboration apps with Webex APIs

Extending and Embedding Cisco Collaboration

JP Shipherd Product Manager Webex For Developers

DEVNET-2463





Cisco Webex Teams

Questions?

Use Cisco Webex Teams to chat with the speaker after the session

How

- 1 Find this session in the Cisco Events Mobile App
- 2 Click "Join the Discussion"
- 3 Install Webex Teams or go directly to the team space
- 4 Enter messages/questions in the team space





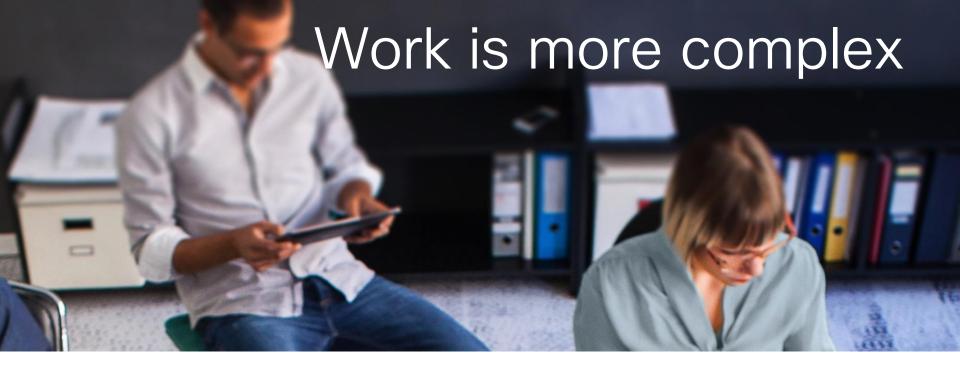
Agenda

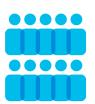
In this session, I'm hoping to help you answer two questions:

- Why would I build an application to work with Webex Collaboration?
- What APIs and interfaces are available for me to do it?

The world of work is changing







10 or more individuals typically collaborate daily



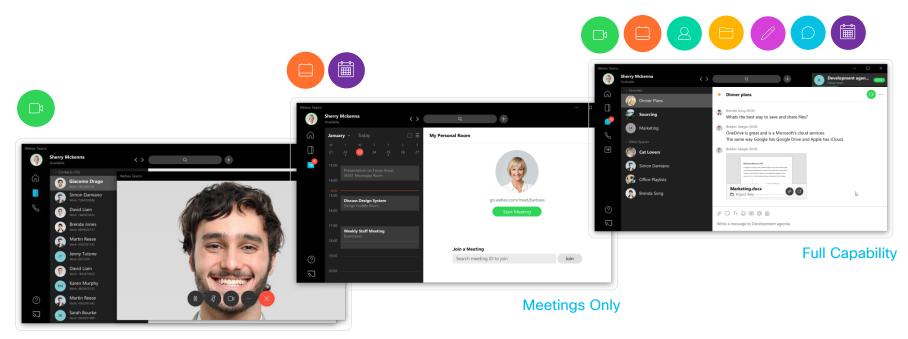
45% of innovators spend **half or more** of there day in meetings

KPMG Global CEO Outlook



Webex unified experience....

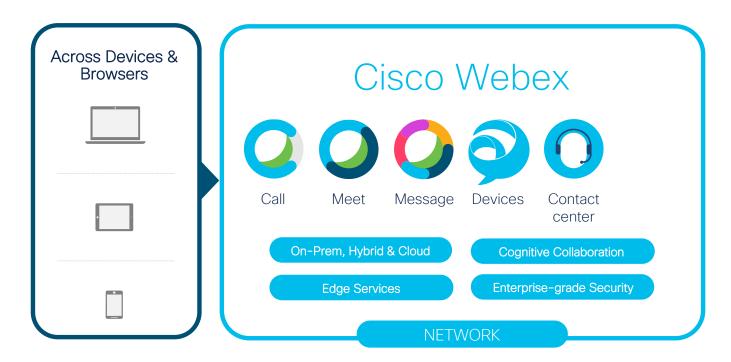
Any combination of Calling, Meeting and/or Messaging



Calling Only

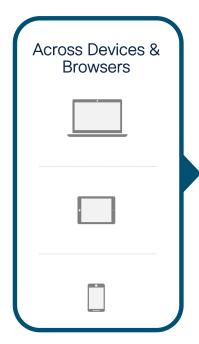


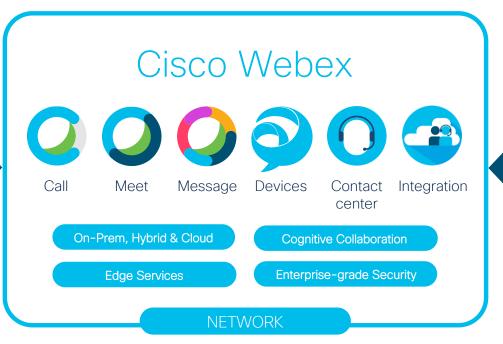
...supported by the Unified Webex Platform

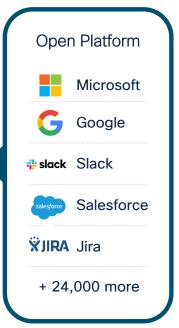




Collaboration is more effective when it works with the tools you are already using





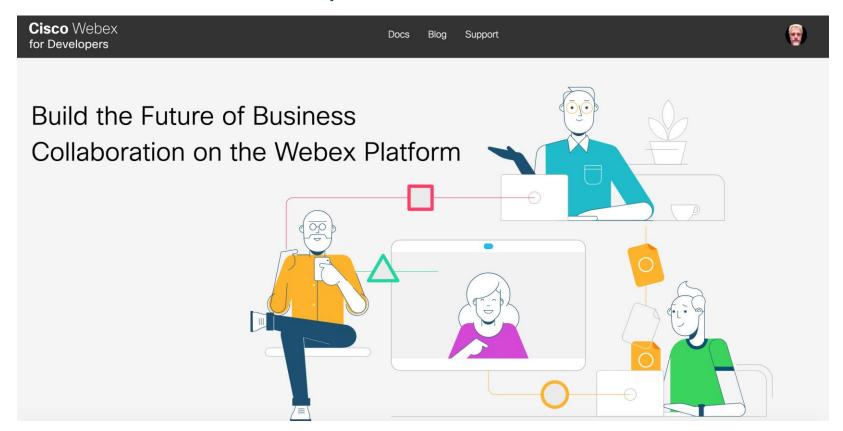


Open and Extensible Platform



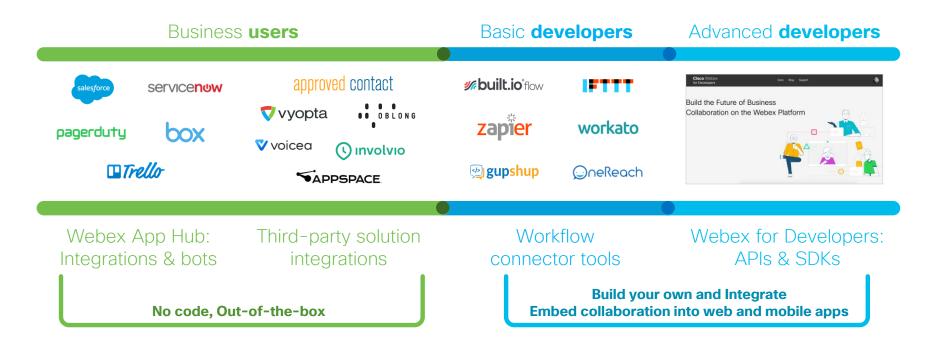
Webex For Developers

https://developer.webex.com



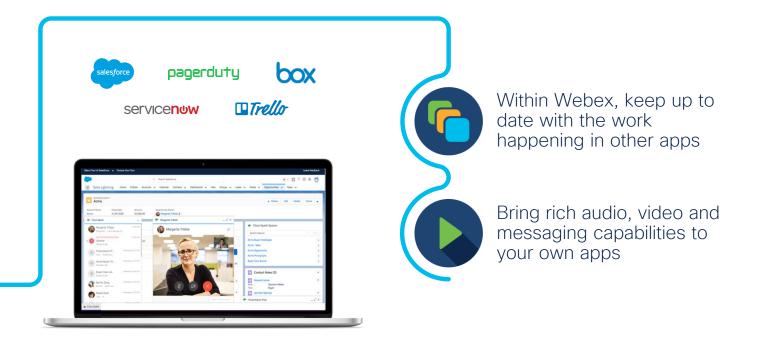


If you ever say "Hmm...Webex doesn't do that"... don't give up!
Webex is a PLATFORM and (if it make sense) we can make it work!





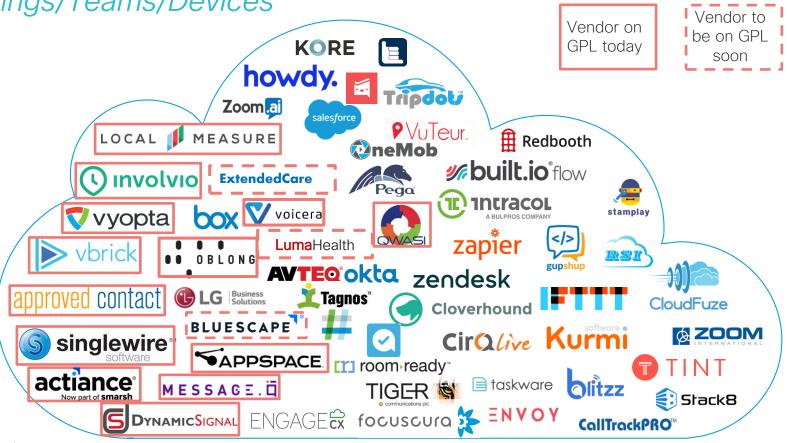
Make collaboration more effective by connecting it to, and enabling it from, to tools we use



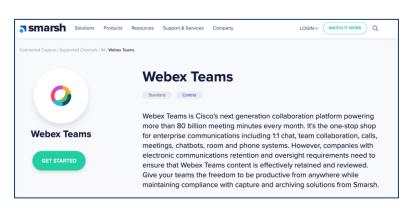
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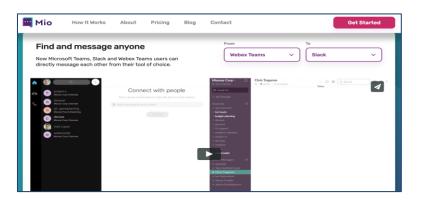


Ecosystem partners help on your journey to productivity *Meetings/Teams/Devices*



Webex and S+ Partners









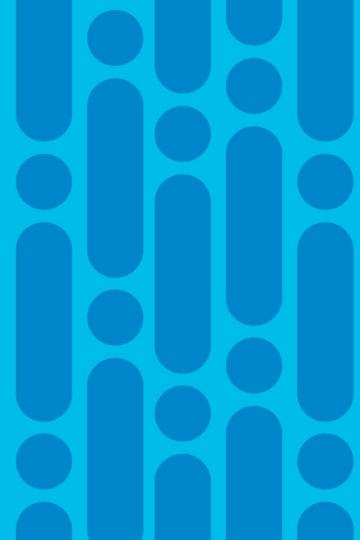
For list of S+ partners and more info:

https://apphub.webex.com/resale

Agenda

- Why would I build an application to work with Webex Collaboration?
 - · Collaboration is more effective when your collaboration tools integrate with the other tools that you use
 - Make your own collaboration more effective
 - Make your company's employees' collaboration more effective
 - Make money selling solutions that make Webex users' collaboration more effective
- What APIs and interfaces are available for me to do it?

What Developer Interfaces are Available?



Webex Messaging APIs



/People	/Rooms	/Memberships (room)	/Messages	/Webhooks	/Teams	/Team Memberships
List People	List Rooms	List Membership	List Messages	List Webhooks	List Teams	List Team Membership
	Create	Create	Create	Create	Create	Create a Team
	a Room	a Membership	a Message	a Webhook	a Team	Membership
Cat Darson	Get	Get	Get	Get	Get	Get Team
Get Person	Room	Membership	Message	Webhook	Team	Membership
Details	Details	Details	Details	Details	Details	Details
	Update	Update		Update	Update	Update a Team
	a Room	a Membership		a Webhook	a Team	Membership
	Delete	Delete	Delete	Delete	Delete	Delete a Team
	a Room	a Membership	a Message	a Webhook	a Team	Membership

Get My Details













Webex Admin APIs



List Control Hub Admin Activity List Control	List Webex Teams Activity	List Licenses	List Hybrid Clusters and Connectors	List Roles	List Resourd Groups
List Control					
List Control					
Hub Activity Detail	Get Activity Detail	Get License Details	Get Hybrid Cluster and Connector Details	Get Role Details	Get Resour Group Deta
			Pot Doot	Dut	Delete
	•		Detail Activity Detail License Details	Detail Activity Detail License Details Connector Details Get Post	Detail Activity Detail License Details Connector Details Get Post Put

Alexade et al.

Webex SDK - Specifications



iOS SDK

- · iOS 10 -12
- · iPhone & iPad
- · Swift 4+
- · XCode 9+
- iOS 13 NEW



Browser WebRTC JS SDK

- · Firefox desktop latest
- · Chrome desktop latest
- Safari desktop NEW
- Safari for iOS soon
- Chrome for Android soon

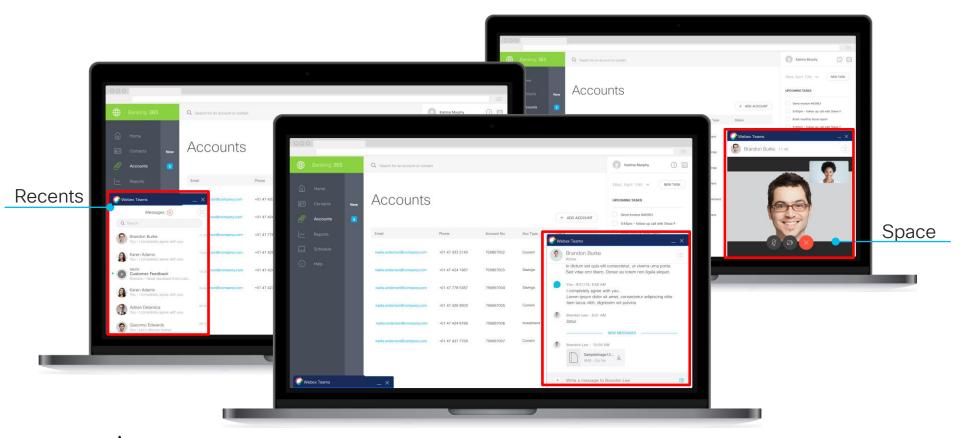


Android SDK

- Android 5.0+
- Android Studio 2.3+
- Android SDK Tools 25+
- Android API Level 21+
- Java JDK 8+



Webex Teams client to Widget



cisco life!

Persistent Guest

Connects consumers / non-Cisco enterprise users with Webex Teams paid users via voice and video using Webex SDKs

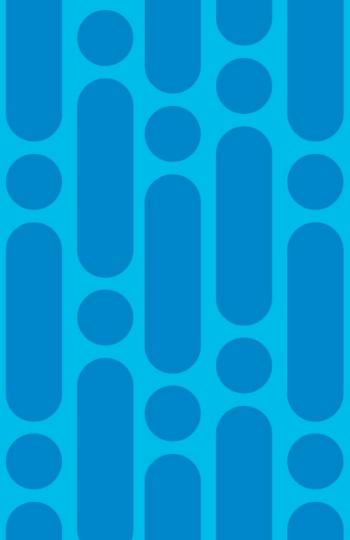
- Use cases:
- Patient to tele-doctor healthcare mobile app.
- Consumer support helpline on retail website.



- Terms of service:
- Guests offer is included in all Webex Teams paid offers. No additional cost.
- Guest can reach only paid Webex Teams users
- Guest to Guest is not supported
- Guest issuers are created by developers who are part of a paid Org



What's New(ish)?



Webex Teams add-in for Office 365

Deliver secure team collaboration right inside business productivity apps



Add-in capabilities

- Persistent messaging
- Add or remove people to group spaces
- · Create a space
- Search for space names
- Automatically view last selected space when re-opening a file

Availability

- Admins and/or users can install from Microsoft AppSource
- Support for PowerPoint, Word, Excel online and/or desktop apps

Webex Cloud Connected **Device APIs**



/Places	/Devices	/xAPI
List Places	List Devices	Get Device Info
Create a Place	Create a Device Activation Code	Send Device Commands
Get Device Details	Get Device Details	
Update a Place	Update a Device	
Delete a Place	Delete a Device	















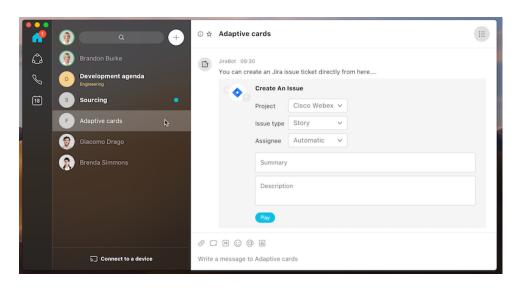
Existing API Improvements

- Messaging with Meetings!
 - Get Webex Space meeting info -- /rooms/{id}/meetingInfo
 - Enables automated scheduling of Webex Teams backed meetings
- Administration
 - Partner Managed Org Admin can now use all Admin APIs
 - Integration Management to allow/deny integrations available in Control Hub



Buttons and Cards

Add the simplicity of a GUI to your Bot Interactions!

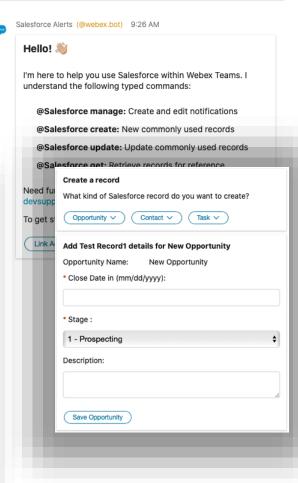


- Developers can write cards with Adaptive Cards format
- Format gives developers common and consistent UI
- Cards can include text, buttons, links and images
- Create cards to approve receipts, raise issues, etc.

Example Use Cases

Trello

Hello! Cisco Orders I'm here to help you use Trello within Webex Teams. I understand the following typed commands: CommerceBOT here @trello manage Set up or edit notifications workflows. @trello add Add new cards, lists or comments. Welcome I can help you stay informed for your Deal/Orders and help @trello update Make a quick change to card or list. accelerate turnaround time. @trello get Get a list of your hoards lists or cards Here are a few actions I understand: Add new ... Need further show deal status 12345 What would you like to add in Trello? show order status 12345 devsupport Card V List V Comment V follow deal 12345 What would If this is a group space, to interact with me, mention me by Add a new card to Board Name typing @ and selecting the CCW BOT. Manage No New Card Name: TIP: Type help anytime to view list of all features/commands. Enter Card Name Get Here are few quick action buttons to get you started: Select a list to add your new card: Deal Lookup V Share Deal V Re-Assign AM V Things To Do SalesOrder No. Add description: OR **Enter Description** WebOrderID Set Due Date in (mm/dd/yyyy): Get Details **Expedite Order** Add Card



Buttons and Cards School Bot



CardSchool 12:56 PM

Welcome to Buttons and Cards School



This is an open source Webex Teams Bot that helps users and developers become familiar with Webex Teams Buttons and Cards.

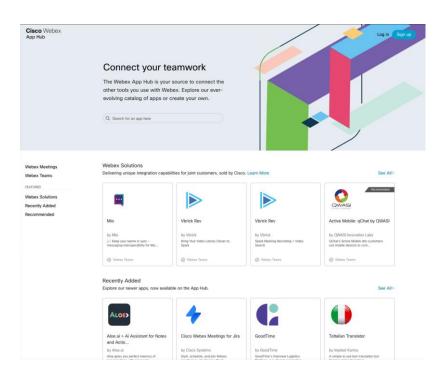
A bot to teach developers about Buttons and Cards using Buttons and Cards!

Try it yourself by adding cardSchool@webex.bot to a space.



Enhanced Webex App Hub

Revised UI with search experience to easily find integrations with Webex





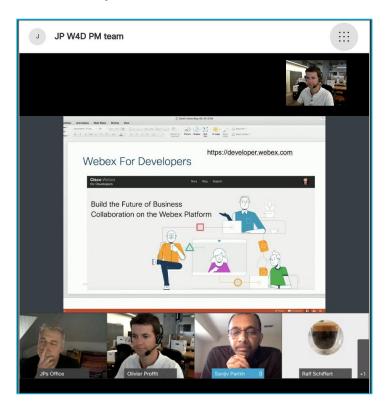


Widget Overlay view Main video layout

Active speaker shown full screen. Additional participants overlaid on top of main pane at smaller scale "filmstrip" with name labels. One PiP left empty as active speaker placeholder.



Prominent view Content layout

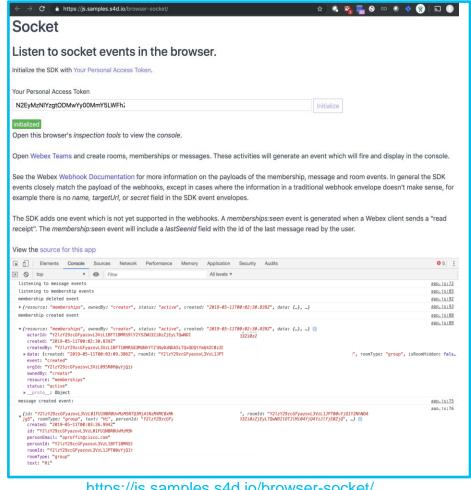


Content takes up a majority but not all the screen. Smaller panes representing participants including the active speaker.

Messaging events over Websocket

IS SDK - June 2019

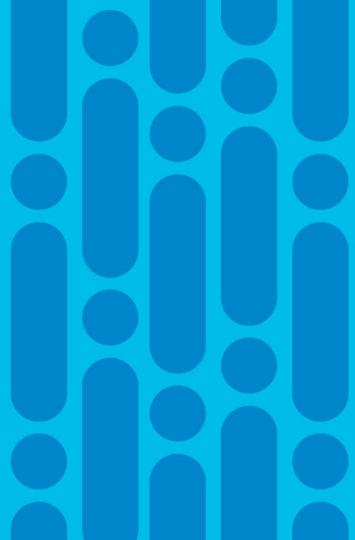
- Receive messaging events directly in browser - parity with mobile SDK
- Consistent with webbook events
- Secured and easy No need for server-side event handler, no need for NGROK, etc
- · Simple demo app available now!



https://js.samples.s4d.io/browser-socket/

https://developer.webex.com/blog/using-websockets-with-the-webexiavascript-sdk

What's Coming?



More API Access Across Webex Capabilities

- Meetings!
- Schedule a meeting (EFT now)
- Access Recordings (EFT now)
- Set User Preferences (EFT now)
- In Meeting Controls
- In Meeting Events
- Post Meeting Details (attendees, transcription, etc)

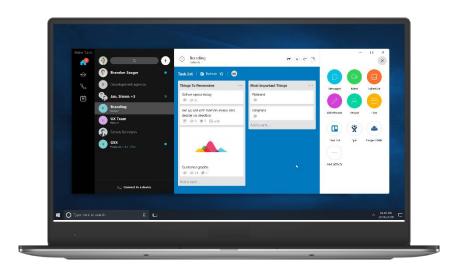
Calling!

- Configure users for Webex calling
- Oauth Access to legacy Broadsoft XSAPI
- In Call Controls
- In Call Events
- Post Call Details for reporting and analytics



Embedded Apps

- Simplify workflows by having third party apps embedded directly in Teams
- Add web-based integrations to spaces, such as Trello, Jira, PowerApps
- Bookmark websites in spaces for fast access, including wikis, dashboards







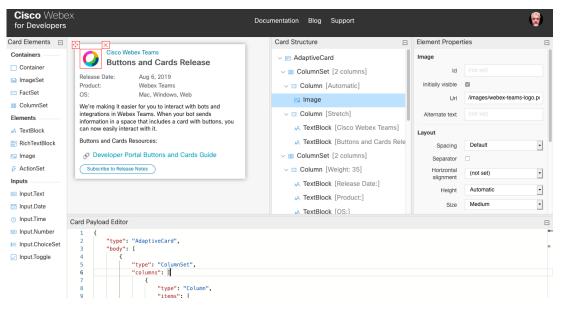








Buttons and Cards - Phase 2



- Buttons and Cards on Mobile Clients -- now available!
- Support for (most of) the Adaptive Card Schema 1.2
- Our own Buttons and Cards Designer!
- JS and Java SDK support
- AttachmentAction events via JSSDK Websocket interface
- Buttons and Cards in Widget



Other Cool Stuff...

- Policies for Bots (as well as integrations)
- Threaded messaging via API (EFT now)
- Edit message via API
- CUCM Calling SDK
- Finer grained "widget components" to enable custom branding and skins when using widgets
- Refactored SDKs based on the same UCF (Unified Common Framework) Webex Clients are built on. This should result in faster delivery of new features in our SDKs



Agenda

- Why would I build an application to work with Webex Collaboration?
- What APIs and interfaces are available for me to do it?
 - An ever growing set of interfaces that span more and more of the Cisco Collaboration Platform
 - SDKs and Widgets allow you to embed Webex collaboration into the mobile and web applications that your population is already using
 - APIs allow you to create the glue that connect Webex messaging, meeting, devices and more to other critical applications that make your business go!

Call to Action!

1. Explore our Developer Resources

Webex For Developers

Webex App Hub

Open Source Starter Kits

Webex Dev Community Resources



3) Come see us in the DevNet Zone!

2. Attend or Download more Cisco Live Collaboration Developer Content:

Create compelling collaboration workflows with the latest Webex Teams SDK features - DEVNET-1461

Building browser applications in JavaScript with the Webex Teams SDK - DEVWKS-3273

Coding 1001 - Intro to APIs and REST - DEVNET-1897

Webex APIs for Administrators - DEVNET-2610

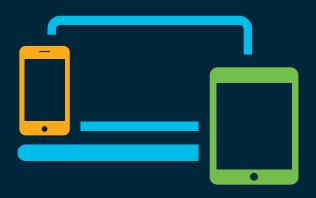
Integrate and automate apps and workflows with the Webex Meetings APIs - DEVWKS-2490

Webex Room Device APIs: The power of automated, integrated, immersive collaboration - DEVNET-1462

Cutting edge collaboration apps with Webex Teams APIs - latest features - DEVNET-2463 (This talk)



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- Complete a minimum of 4 session surveys and the Overall Conference survey (starting on Thursday) to receive your Cisco Live t-shirt.
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