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You make possible

Exploring the possibilities of Webex collaboration programmability

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DevNet Developer Advocate

DEVNET-1205

cisco Live!
Barcelona | January 27-31, 2020

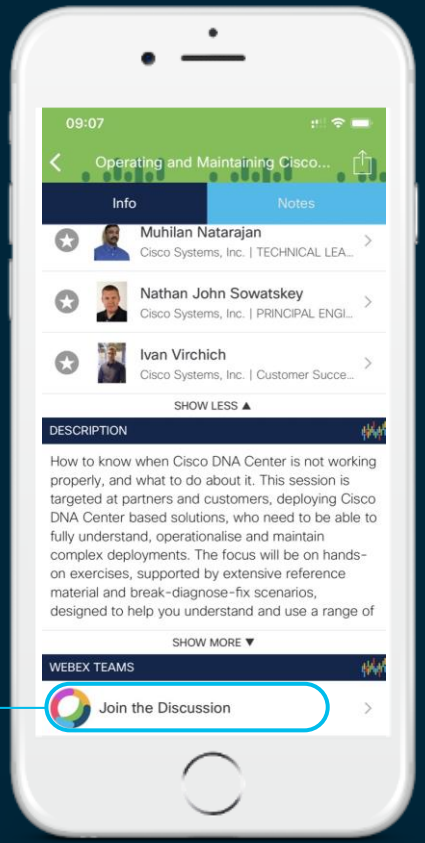
Cisco Webex Teams

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



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Agenda

- Introduction: Webex + apps = everywhere
- Meetings integration use-cases
- Cross-launch from anywhere
- Schedule meetings programmatically
- Embed Webex Teams into sites / apps
- Automating room device meeting experience
- SIP integration scenarios
- Unified Communications can play too

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The way we work has changed

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Webex + apps = everywhere

Webex Meetings

Video meetings made simple

Webex Teams

Continuous teamwork in one place

Webex Calling

Calling without complexity

Webex Devices

Video devices to connect and create

Integrations

Webex works well with others

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Collaboration in context

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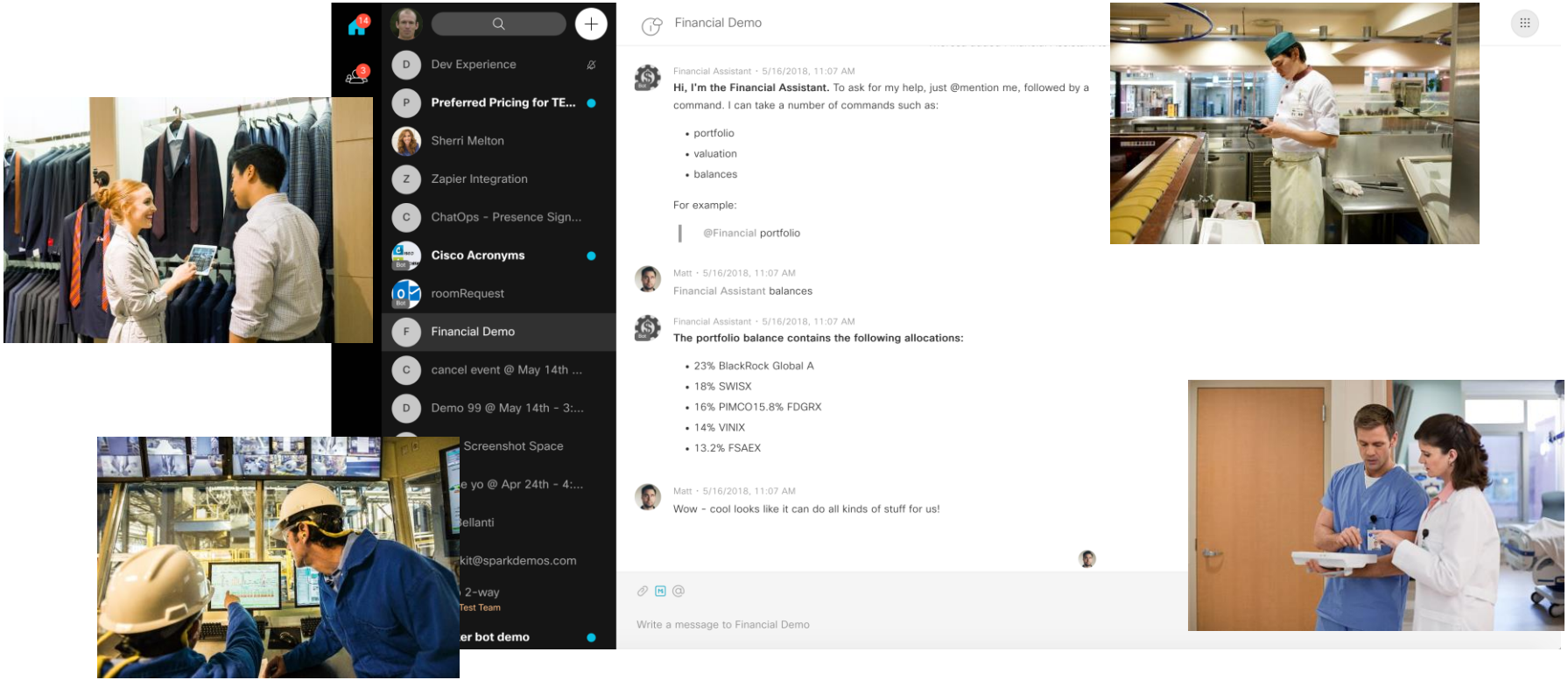

http://cs.co/collaboration_case_studies

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From one-click...to custom development

Business Users → 3rd Party Built Solution Integrations → Workflow Connector Tools → Full Development

salesforce, servicenow, pagerduty, box, Trello

rev, QWASI, Redbooth

Botkit, kore.ai, gupshop, built.io flow, zapier, IFTTT

developer.webex.com

Webex App Hub Integrations	Packaged Solutions	Light Development	Custom Full Development

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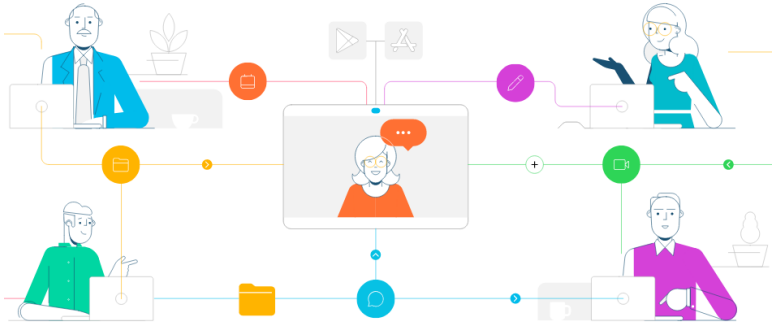
Integrate effortlessly



Cisco Webex
App Hub

Webex Meetings

Webex Teams

cisco DEVNET
Exchange

Ecosystem Exchange

Code Exchange

cisco Live!

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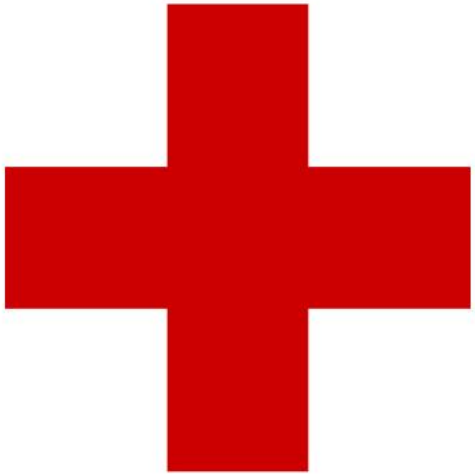
Cross-launch from anywhere

Cross-launching



Just embed a meeting link!

- PMR:
  https://cisco.webex.com/meet/dstaudt
- Webex Teams:
  webexteams://meet?sip=sip_address
- Mobile:
  - Android: intents
  - iOS: custom URL handler

```
<a href="https://cisco.webex.com/meet/dstaudt">Meet me!</>
```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Schedule meetings programmatically

Webex Meetings APIs

```
<bodyContent
xsi:type="java:com.Webex.service.bindin
g.meeting.CreateMeeting">
  <metaData>
    <confName>Sample Meeting</confName>
  </metaData>
  <schedule>
    <startDate/>
  </schedule>
</bodyContent>
```

- List meetings
- Schedule meetings
- Invites and attendees
- Manage / Play recordings
- Reports / analytics /statistics

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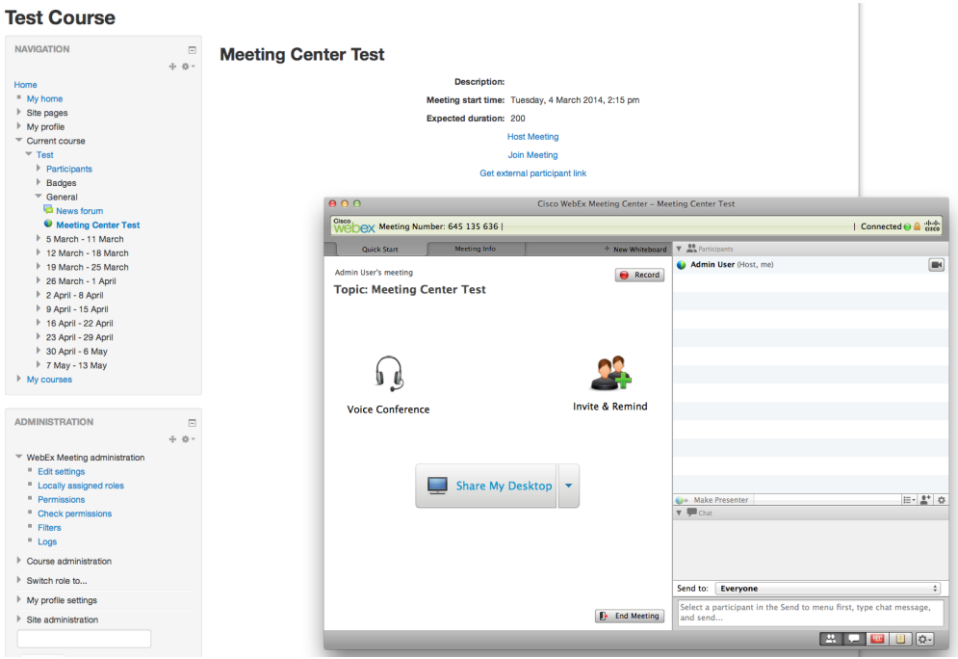
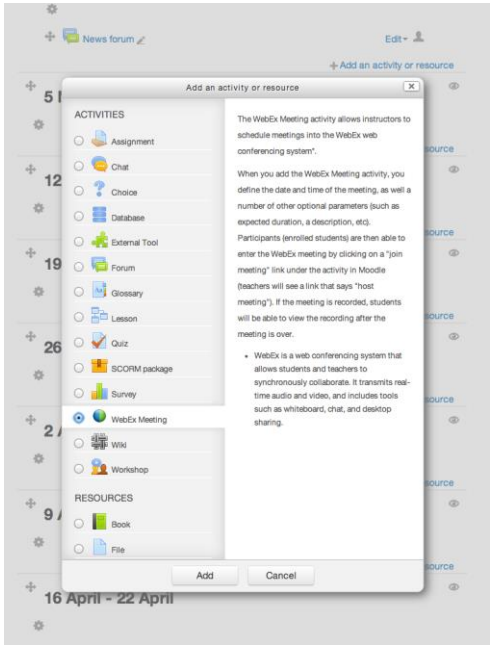
Webex Meetings APIs

Cisco Webex Education Connector





https://lti.educonnector.io

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Webex Teams REST API

{ REST }

Method		Description
GET	https://api.ciscospark.com/v1/rooms	List Rooms
POST	https://api.ciscospark.com/v1/rooms	Create a Room
GET	https://api.ciscospark.com/v1/rooms/{roomId}	Get Room Details
PUT	https://api.ciscospark.com/v1/rooms/{roomId}	Update a Room
DELETE	https://api.ciscospark.com/v1/rooms/{roomId}	Delete a Room

```
room = requests.post(url, headers=HEADERS, data=json.dumps(payload))

if room.status_code == 200:
     print("Room %s was created successfully" % name)
```


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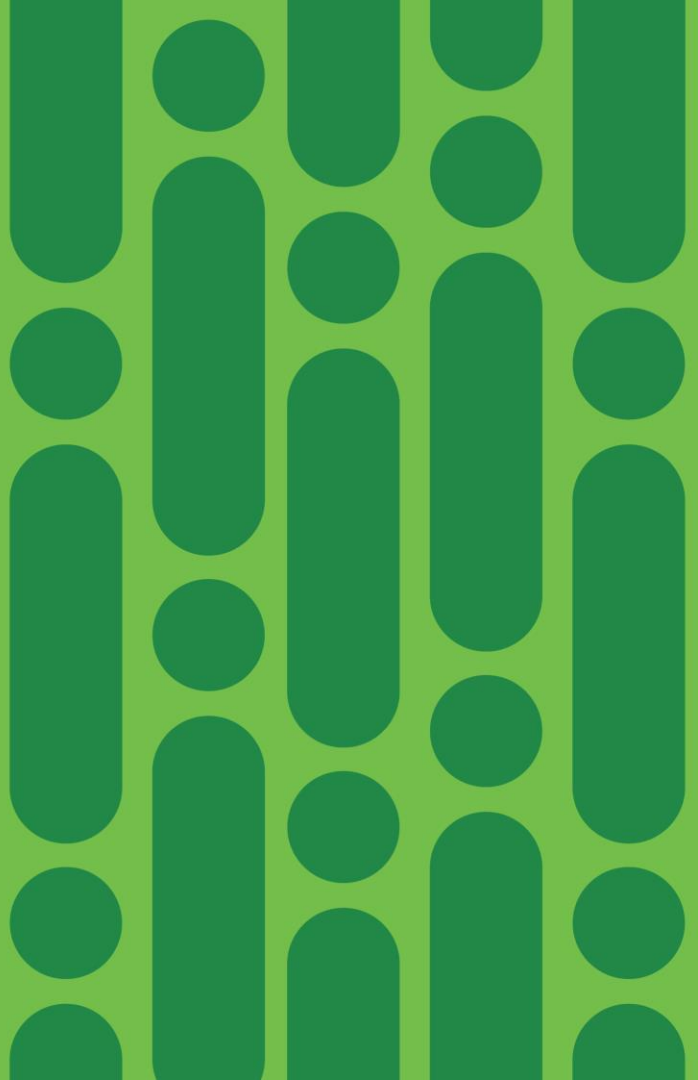
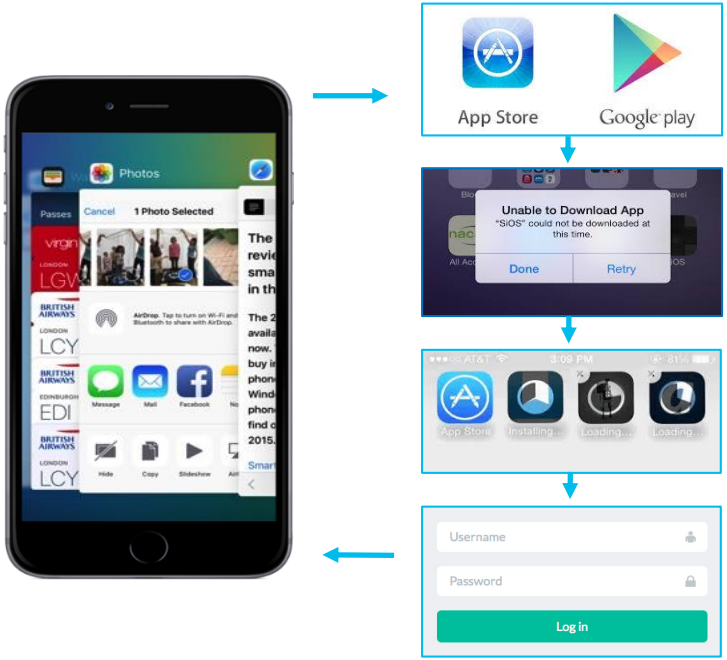
Embedding Webex Teams into apps

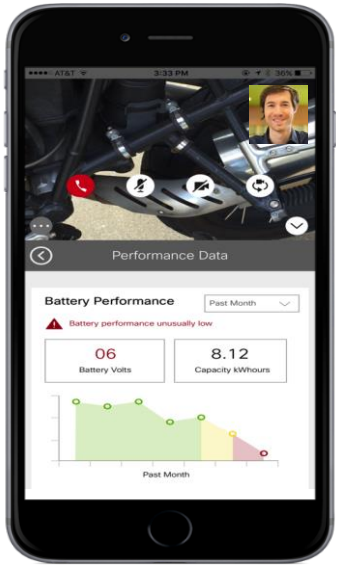


Go ‘built-in’: simplify the user experience

Business app + separate video app



Unified app with Webex Video SDK embedded



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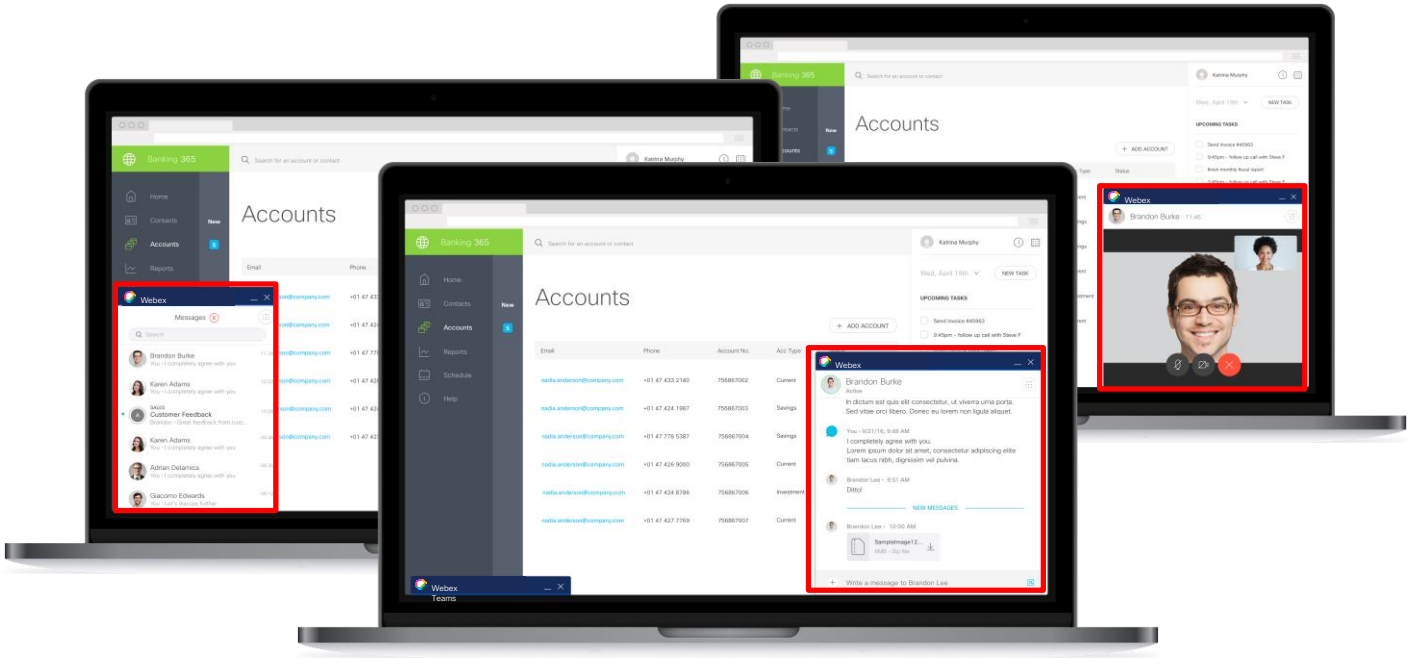
Webex Teams widgets




```
<div class="ciscospark-widget"
    data-toggle="ciscospark-space"
    data-access-token="CHANGEME"
    data-to-person-email="dstaudt@cisco.com" />
```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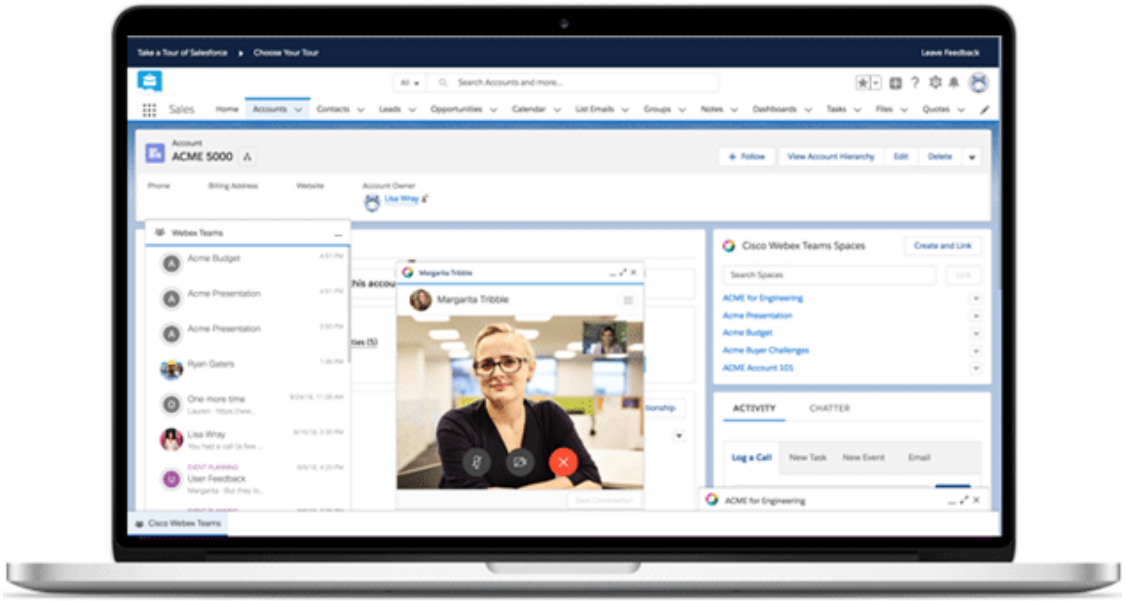
Widgets: Cisco Webex for Salesforce



- Integrated, contextual video calling
- Group meetings
- Attach Webex Teams spaces to records / accounts
- Save chats and call events to SF notes

https://www.cisco.com/c/en/us/solutions/strategic-partners/salesforce/cisco-webex-for-salesforce.html

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Keep users and collaboration in context

Webex Teams Native SDKs

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Webex Teams native SDK flavors

iOS SDK

- iOS 11+
- iPhone & iPad
- Swift 4.0+
- Xcode 10+

Browser SDK

- JavaScript / WebRTC
- Firefox
- Chrome
- Safari
- Node.js 6 LTS+

Android SDK

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

Java SDK

- Java 1.6
- Cross-platform
- REST API

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Embedding Webex Teams SDKs

Open source code samples

```
webex.phone.dial("person@example.com",
    option: MediaOption.audioVideo(local: ..., remote: ...)) { }
```

```
webex.phone().dial("person@example.com",
    MediaOption.audioVideo(local, remote), new
    CompletionHandler<Call>() { }
```

```
webex.meetings.create("person@example.com").then((meeting) => {
    meeting.joinWithMedia({ mediaSettings: {
        sendAudio: true, sendVideo: true } })
```

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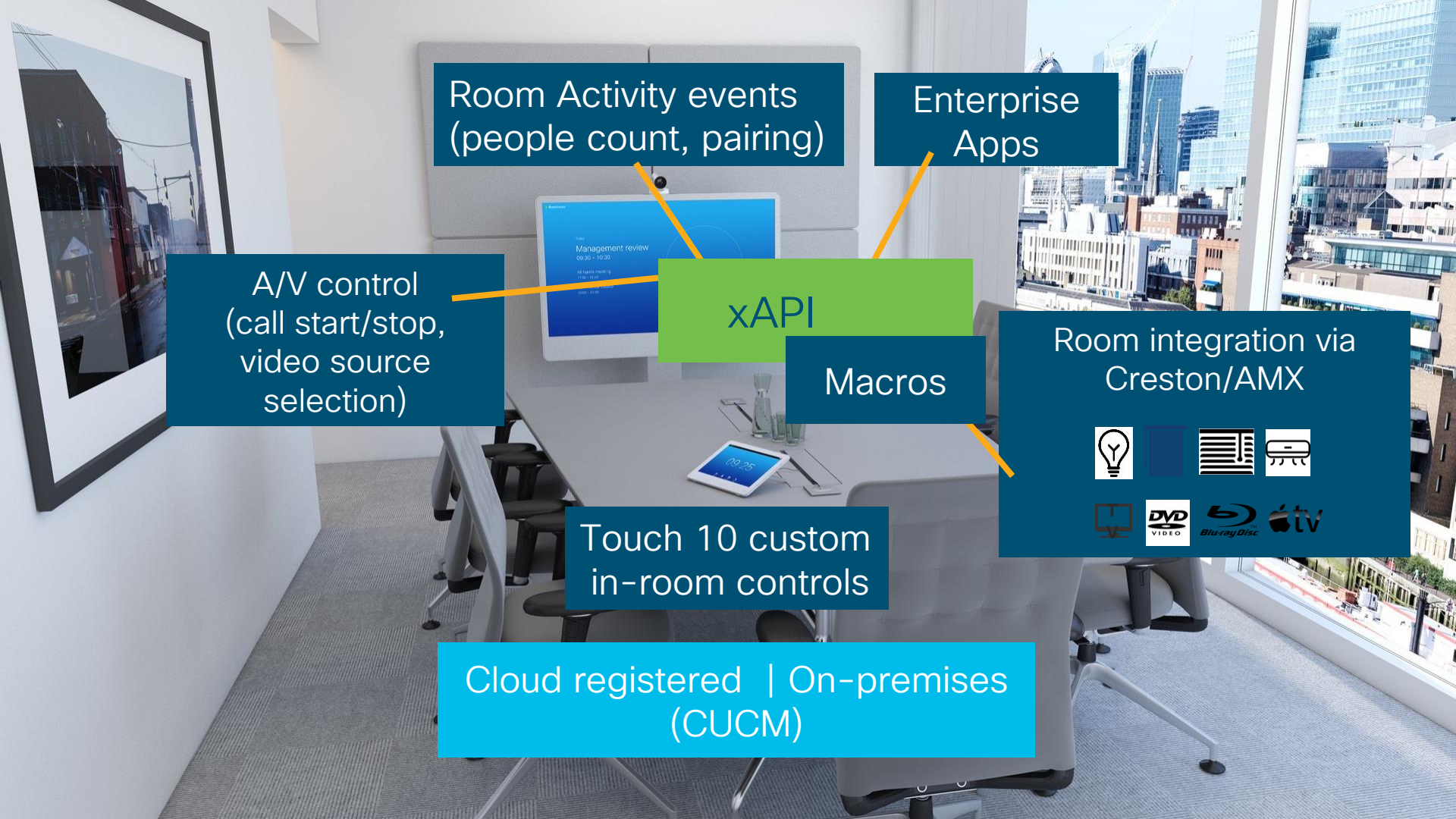
Automating room device meeting experience


Room Activity events (people count, pairing)
Enterprise Apps
A/V control (call start/stop, video source selection)
xAPI
Macros
Room integration via Creston/AMX
Touch 10 custom in-room controls
Cloud registered | On-premises (CUCM)

Touch10 custom in-room controls

```
xapi.command('Dial’,
    { Number: user@example.com' });
```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SIP integration scenarios

Sip integration scenarios

API's !!!

API's ?

```
INVITE sip:person@example.com SIP/2.0
```


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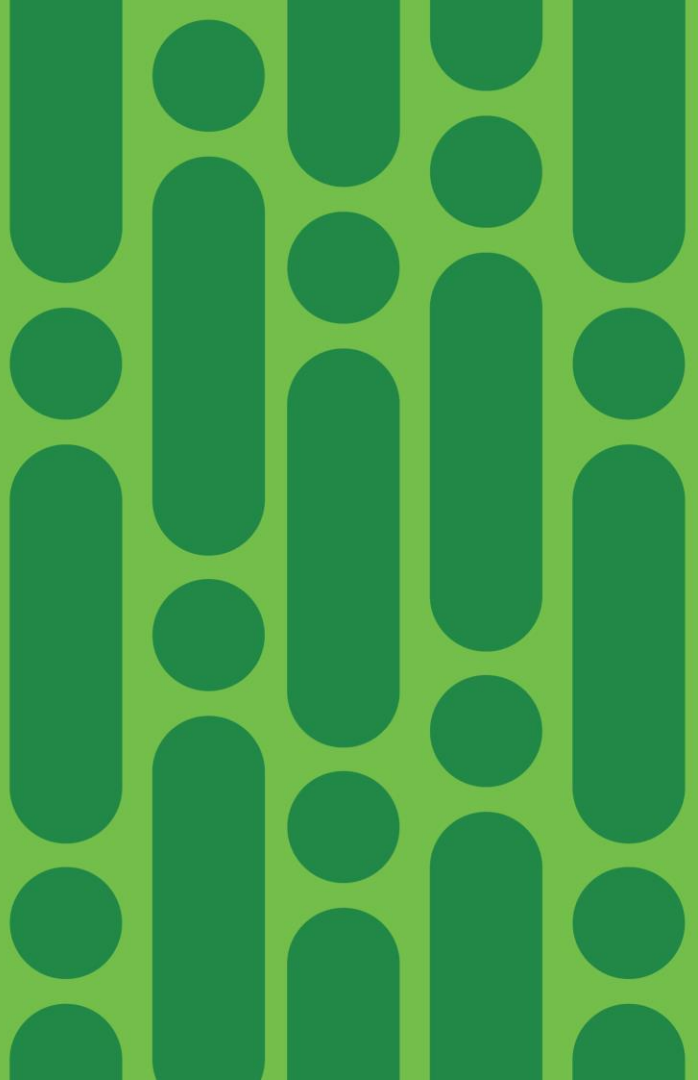
Unified Communications scenarios



Unified Communications can play too...

JTAPI

Finesse

TAPI

Jabber SDK

WebDialer

IP Phone Services

3rd party SIP devices

API's ??

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...and don't forget Cisco Meeting Server

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Developer resources

- developer.webex.com
- developer.cisco.com
- learninglabs.cisco.com
- developer.cisco.com/exchange ← Code!
- github.com/CiscoDevNet/awesome-webex ← More code!

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