## cisco Live!







# Deploying the Webex App to Your Organization

Part 1

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Technical Marketing Engineer
BRKCOL-2198a



### 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 by the speaker until June 17, 2022.



https://ciscolive.ciscoevents.com/ciscolivebot/#BRKCOL-2198a



## Agenda - This session is split over 2 parts

- · Part 1: BRKCOL-2198a
  - Webex App Architecture
  - User Management and Identity
  - Group Templates
  - Meetings Service
  - Messaging Service
  - App Deployment
  - App Integrations

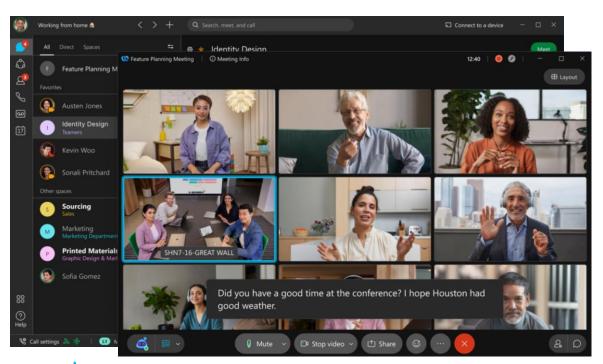


- · Part 2: BRKCOL-2198b
  - Calling Services
  - Webex in VDI
  - Security
  - Modularity
  - Microsoft Integration



#### The Webex App

One easy-to-use and secure app to call, message, meet and get work done.



Full Webex meetings experience including breakout sessions, background blur/virtual backgrounds, Webex Assistant, etc.

Enterprise Grade Calling
Register Webex app to Unified CM or
Webex Calling to enable calling
capabilities from the knowledge
worker to the contact center agent

Modern messaging capabilities 1:1 and group persistent spaces for messaging, file and meeting content sharing.

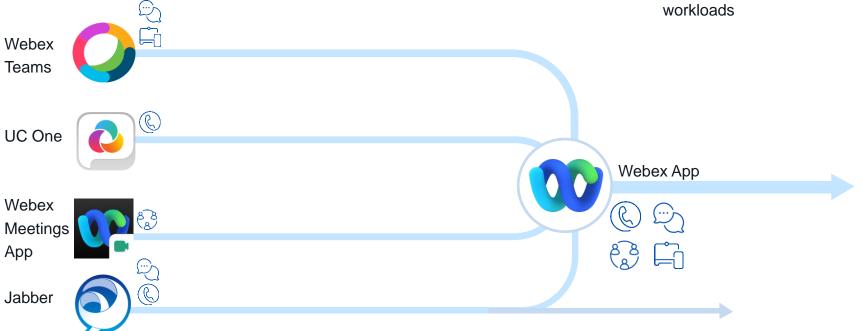
Customizable app experience Customizable appearance and themes, including dark mode



## Convergence to a Single App

#### A single modern app

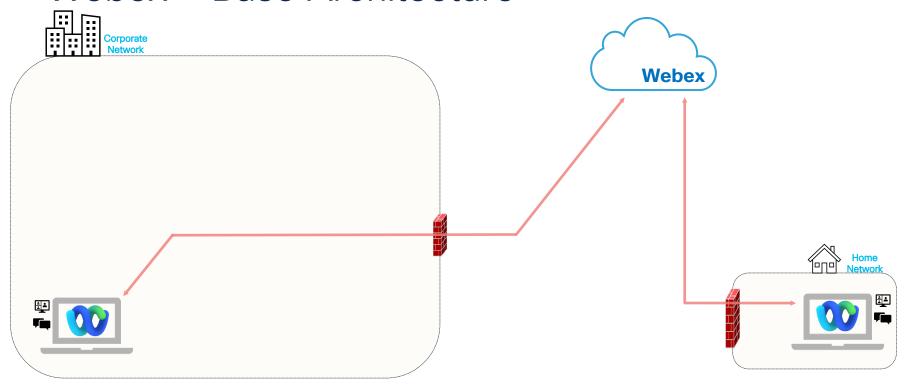
 Webex App delivers the BEST EXPERIENCE for all collaboration workloads





BRKCOL-2198a

#### Webex - Base Architecture

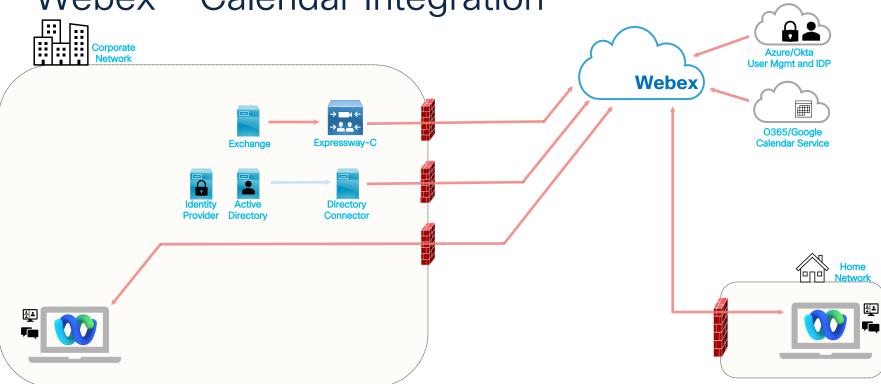




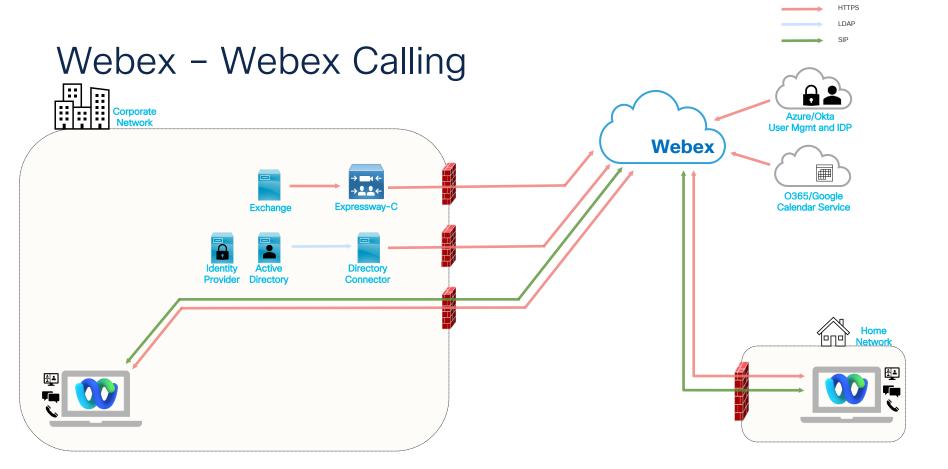
Webex - User Management and Identity Corporate Network Azure/Okta **User Mgmt and IDP** Webex Directory Connector



Webex - Calendar Integration

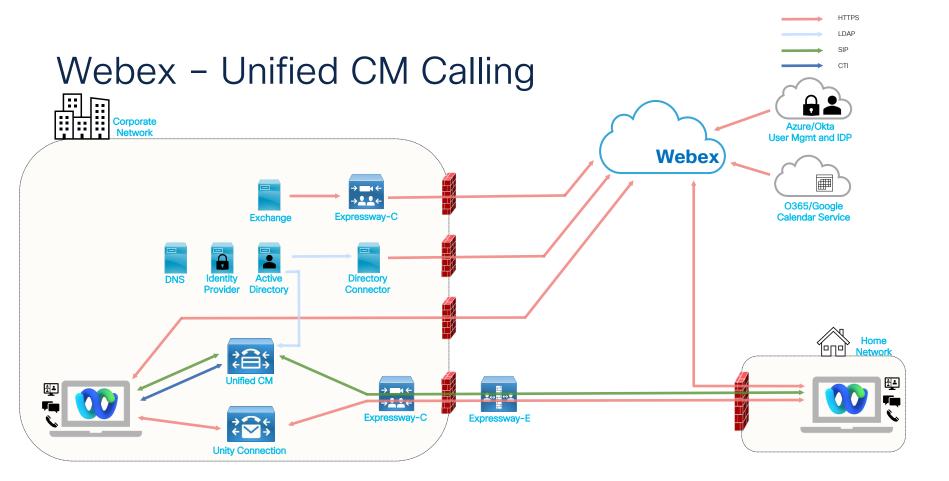




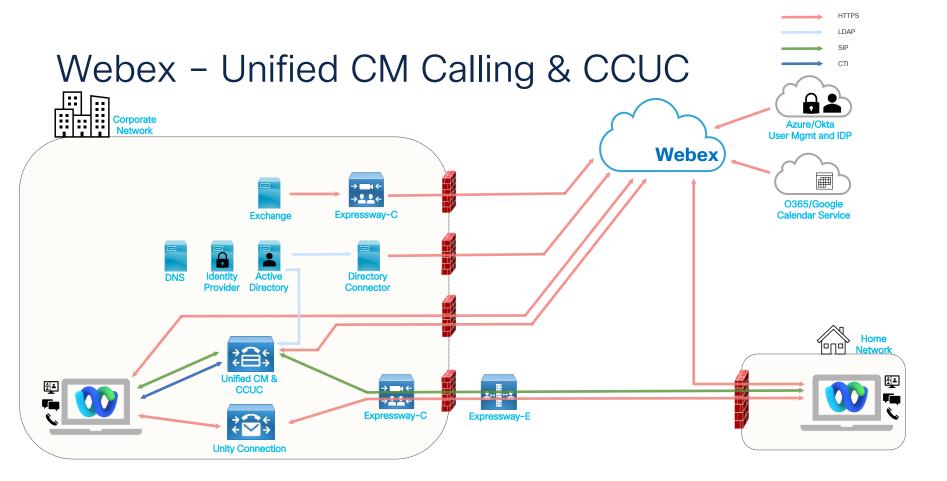




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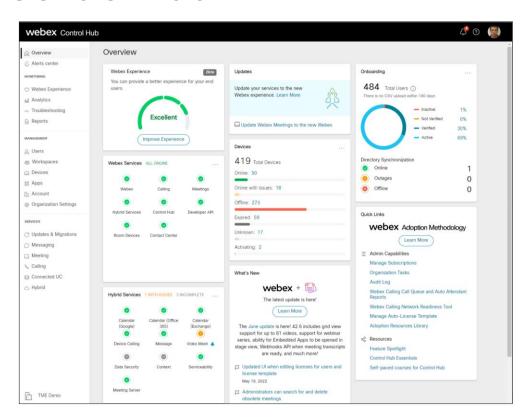








#### Control Hub



- Control Hub is the Webex Admin portal
  - https://admin.webex.com
- Manage
  - Webex User Accounts
  - Webex Services
  - Webex App
  - Integrations
- Monitor
  - Analytics
  - Troubleshooting
  - Unified CM/CCUC



## Webex Org and User Identity



## Typical Webex App Deployment

Org Setup Basics Authenticatio n/Single Sign On

User Provision Service and App Experience

Deploy App

- ✓ Verify Domain
- ✓ Claim Domain

✓ Enable SSO

- ✓ License Template
- ✓ User Sync
- ✓ Claim Users

- ✓ App Experience
- ✓ Message
- ✓ Meet
- ✓ Calling

- ✓ Desktop
- ✓ Mobile
- ✓ Continuous Monitoring



#### **User Authentication**

#### **Basic Authentication**

Email & Webex password Optional integration with Duo for MFA



#### Single Sign On

Any auth type supported by the IDP MFA

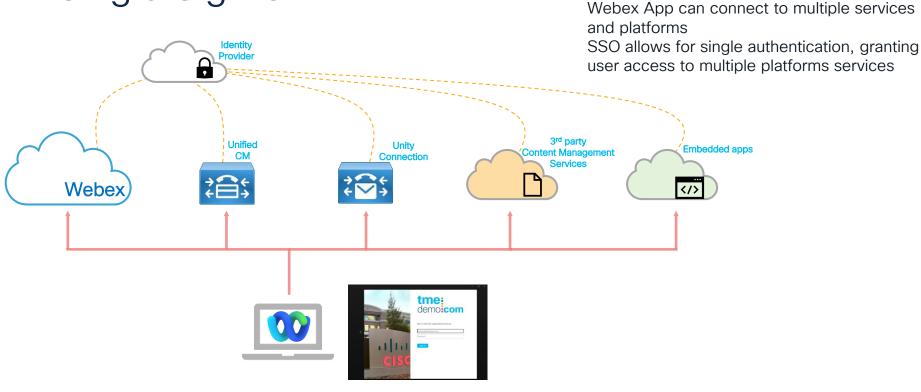
Common user identity across all services/platforms





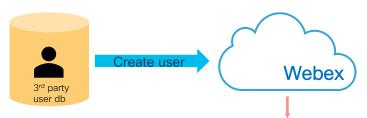
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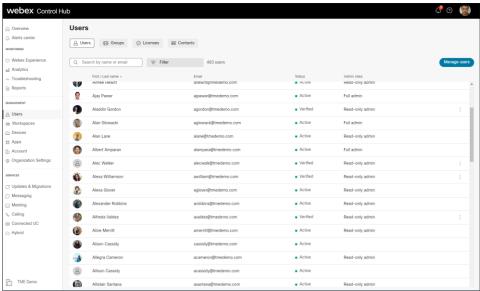
### Single Sign On





#### Webex User Provisioning





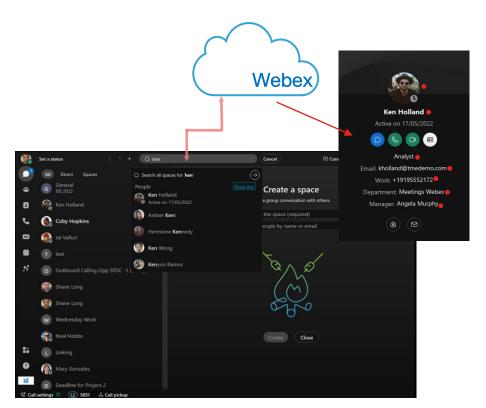
#### Webex User Attributes

- buildingName
- departmentNumber
- displayName
- ds-pwp-account-disabled
- employeeNumber
- employeeType
- externalID
- facsimileTelephoneNumber
- givenName
- iabberID
- locale
- manager
- mobile 0

- phoneNumbers;type-work extension
- physicalDeliveryOfficeName
- postalCode
- preferredLanguage
- sipAddresses;type-enterprise
- sn
- st
- Street
- telephoneNumber
- title
- uid



#### Webex User Search/Resolution



- Webex App will perform directory queries against the Webex Directory Search Service
  - User search
  - User Resolution
  - Phone Number Resolution
  - Avatar Display
- Ensure all necessary user attributes are synced to Webex via user provisioning process



## Webex User Account Management Solutions

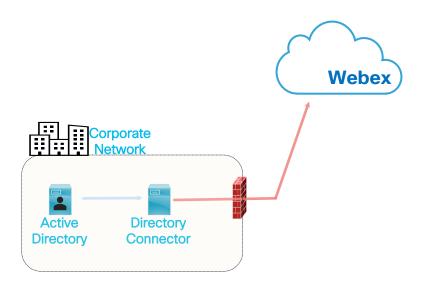
Method	Description		
Meetings Site User Linking	Automatically link Site Admin user accounts to Control Hub		
Directory Connector	Automatic method for creating, updating and deactivating user accounts and groups via Active Directory or AD LDS		
SCIM/Azure AD Wizard	Automatic method for creating, updating and deactivating user accounts via Azure AD or Okta		
SAML JIT	Automatic account creation based on SSO login		
Self Registration	User can self register to create their Webex account in a claimed org		
CUCM User Sync	Create Webex user accounts based on CUCM endusers (via CCUC)		
Social Login	Automatic account creation via sign in to third party service for claimed domain (Apple, Google, Facebook, Microsoft)		
CSV file	Admin can create and update users by importing a CSV file into Control Hub		
API	Admin can create, update delete and list users by using Webex API's		
Manual	Admin can use Control Hub to manage user accounts		





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### Directory Connector Vs Azure AD / SCIM



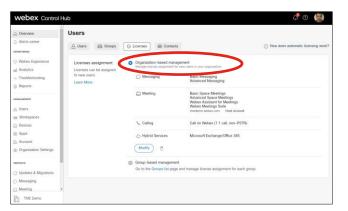
**Directory Connector** 



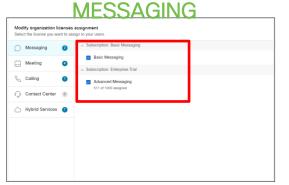
Azure AD / SCIM

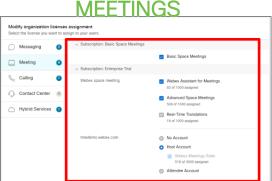


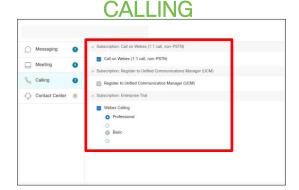
#### License Template



- Create an org wide License Template
- Newly created user accounts will be automatically licensed for selected services
- License changes can be made on an org wide, group or individual user basis

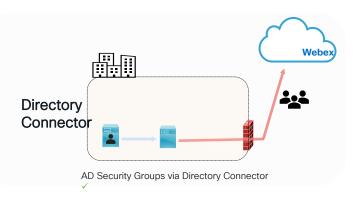






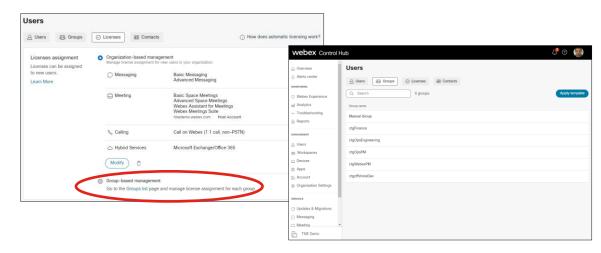


#### Groups





- User groups can be synced to Webex
  - Directory Connector ✓
  - Azure AD Wizard ✓
- Licensing Templates can be set on a per group basis
  - Changing a license template will apply to new and existing users



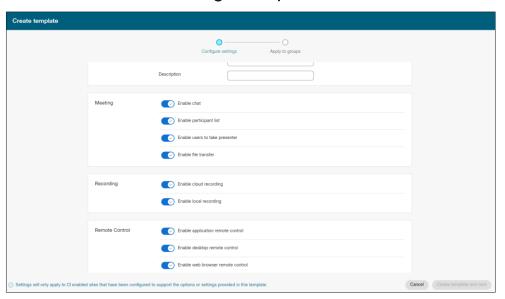






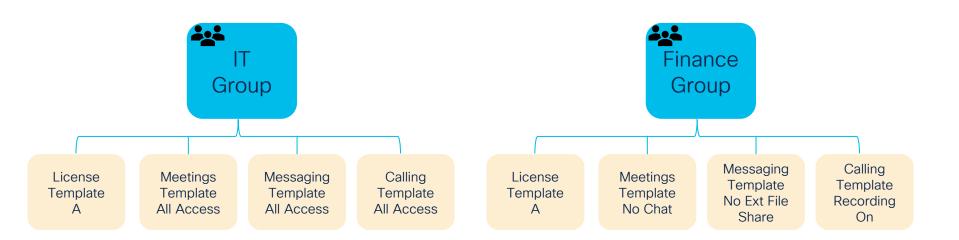
#### Templates

#### Meetings Template



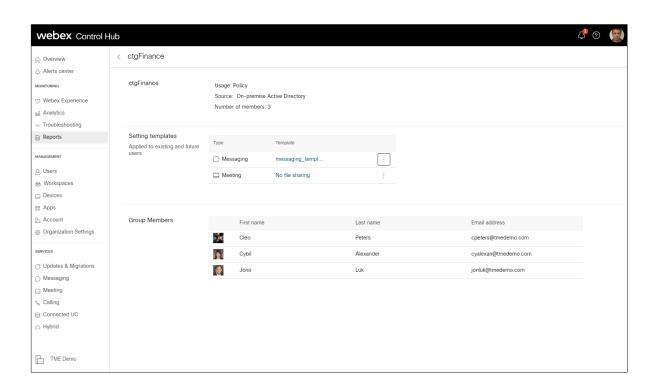
- In Control Hub, create meetings, messaging and calling configuration templates
  - Calling Template coming soon
- Templates can be used to set licensing and service configuration preferences and apply to groups of users

### Templates Example





### Templates Example



- View Group Members
- **Apply License** Template
- **Apply Settings Template**



## Meetings





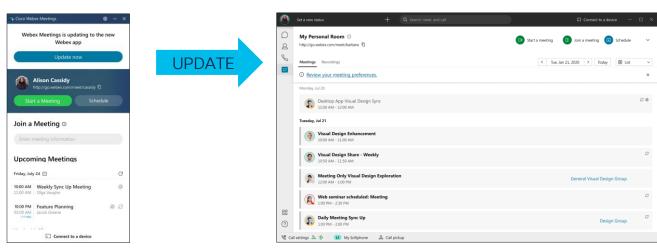
#### Webex Meetings



- Webex Meetings
   Desktop App to
   Webex App Update
   Program
- Full Features
   Meetings
- Converged backend



### Webex Meetings Desktop App to Webex App



Webex Meetings Desktop App

Webex App

#### Applies to

- Control Hub Managed ✓
- Site Linked Webex Orgs ✓
- Slow Channel ✓



#### Updated set of Capabilities



View your schedule and schedule meetings

Share content from



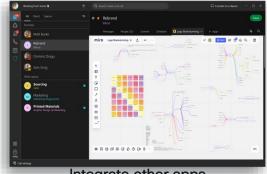
Continue the conversation with messaging



**View Meeting Artifacts** 



Call contacts with voice & Video

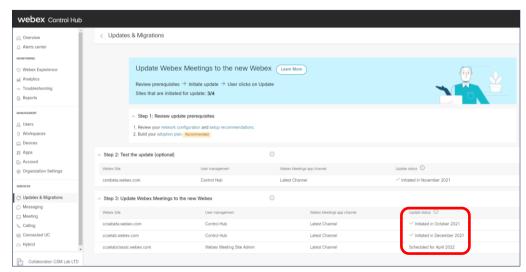


Integrate other apps



### **Update Timetable**

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov



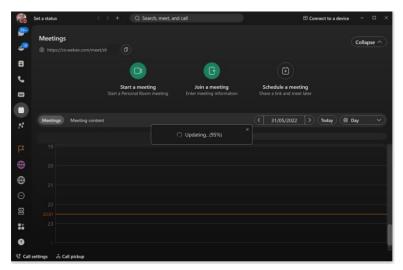
Set your preferred update month in Control Hub

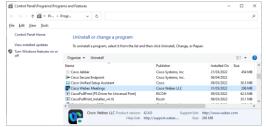
Month	Date of Update	Last Day to Select	Last Day to Defer
Jan	Jan 14	Jan 7	Jan 13
Feb	Feb 11	Feb 4	Feb 10
Mar	Mar 4	Mar 5	Mar 3
Apr	Apr 1	Apr 25	Apr 3-
May	May 6	**	**
Jun	Jun 10	Jun 3	Jun 9
Jul	Jul 15	Jul 8	Jul 14
Aug	Aug 12	Aug 5	Aug 11
Sep	Sep 16	Sep 9	Sep 15
Oct	Oct 14	Oct 7	Oct 13
Nov	Nov 18	**	**



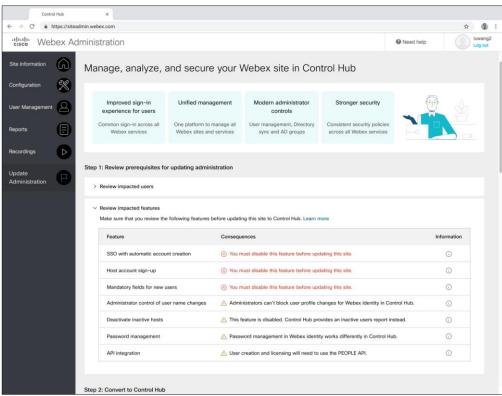
#### Full Featured Meetings

- Webex MC plugin is packaged into the Webex App installer – same in meeting experience as Webex Meetings Desktop App
  - Version matches Webex App version
- If a user joins a meeting on a different Webex Site version, a compatible version of MC plugin will be downloaded
  - Files written to c:\users\userID\AppData\Local\WebEx\
  - Entry in Add/Remove Programs (this is not the Webex Meetings Desktop App)
- Launching a Webex meeting on Webex App for mobile will cross launch the Webex Meetings App





### Site Admin to Control Hub Migration



#### Updating administration from Site Admin to Control Hub is seamless

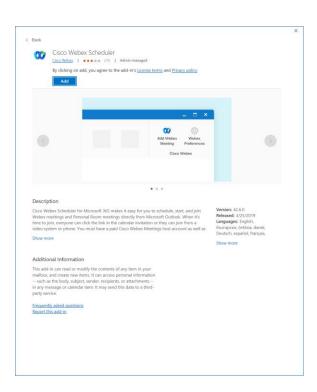
All Meetings data (upcoming Meetings, recordings, site settings, user preferences) will be retained!

- Do site readiness assessment to determine
  - Any admin features being used that are not supported on CH sites
  - Users that may need attention



### Productivity Tools EOL

- Productivity Tools for Mac is already end of life
- 42.6 update is the <u>final</u> release of Productivity Tools for Windows
- Productivity Tools will continue to work until Microsoft blocks the plugin architecture (expected)
- Customers should migrate from Productivity Tools to Webex Scheduler (M365 add-in). For migration detail, check out this
  - https://help.webex.com/en-us/article/nvx0mw4/Migrate-from-Productivity-Tools-to-the-Webex-Scheduler-add-In
- Applies to both Latest and Slow channel organizations



## Webex Meetings Converged Platform

Converged Meeting Platform

Support for Video Mesh for all meetings (Webex and Space Meetings)

Single App on mobile

Single App on VDI

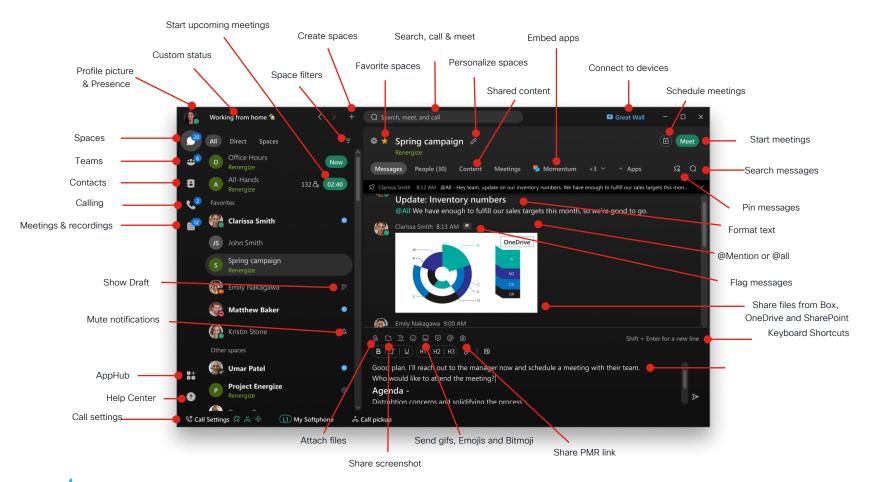
**Coming Soon** 

Beta is available



## Messaging







## Content Storage and Retention

#### Webex Org Location

- When a user sends content using Webex (a message or a file), that content is stored in the Webex conversation service
- Organizations can choose whether to store their content in a US or EU based datacenter

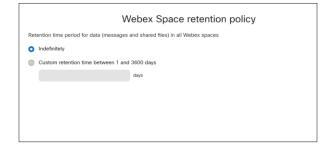
# | Data Locations | Data Type | Covered Data | Data Location | Recordings, transcripts, files, meeting titles, attendee names and emails, and user profiles in Webex site adminstration portal | | Messages, files, spaces, and organization metadata | All Webex identity platform data, such as full user profiles (name, email, avatar), user groups, and other org settlings | Americas | Americas | Americas | Americas | Americas | Common Application Data | Americas | Common Application Data | Common Application Data

#### Webex Messaging Data Retention

- Message and file content will be stored for a period of time defined by the retention period
- Control Hub admin can set retention period as desired
  - Indefinite
  - 1 to 3600 days

#### Tip

- Setting a very low retention period will diminish user experience users enjoy having access to long term persistent messaging and file sharing
- Take care with any changes to Retention policy. Once data meets the retention period, it is hard deleted



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### Open Federation



- Webex messaging supports open federation by default
  - Webex users in different organizations can message and participate in spaces with eachother
- When a space contains an external participant, the external participant UI is displayed for that space (external participant icon and space color change)
- Open federation settings can be managed by the Control Hub admin
  - Block all external messaging
  - Limit external messaging
  - Create and allow list of orgs where external messaging is permitted



## Control Hub Messaging Restrictions Controls

Restriction	Purpose
Restrict external file sharing	This setting ensures that users can only post, preview or download files on your organizations network. (Organizations network can be defined using subnets/IP addressing)
Block file upload, preview and download in space owned by my organization	This setting can block file sharing in your organization based on specific client types (e.g. block file sharing on mobile). External users can also be blocked from file sharing to your organizations spaces
File type restriction	This setting can be used to specify a list of file types that are allowed to be shared in your organization
File upload size restriction	Sets the maximum file size that can be shared (max=2048 MB)
Share Animated GIFs	Allows for enablement /disablement of GIPHY integration
GIPHY content rating	Choose between "General acceptance" or "Parental guidance" rated GIFS
Allow Bitmoji sticker sharing	Allows for enablement /disablement of Bitmoji integration
Preview Shared Links	Enablement/disablement of preview of links share in Webex
Team Guest Restrictions	Control level of space access a team guest has
Webex classified spaces	Allows for marking of spaces with a classification level e.g. Company Confidential etc
Real-time data loss prevention for files	DLP integration. Allows for detection and blocking of file content violations based on DLP policy
Mobile Application Security	Allows for disablement of message preview on mobile device lock screen
Internal Communication (requires extended security pack)	Allows for blocking of selected groups from communicating with each other (ethical wall)
External Communication	Block your users from communicating with external orgs/users (messaging) Specify an allow list of domains for external messaging Limit access to join only spaces owned by your organization (excludes 1:1 spaces)
Instant Messaging	Enablement/disablement of XMPP or SIP federation
Anti-Malware File Scanning (requires extended security pack)	Enable virus and malware scanning of files posted to Webex (via Cisco Talos)



## App Deployment



## Webex App Platform Support















Desktop



MacOS

MacOS 10.13 and later Intel CPU Apple M1 CPU



Red Hat EL 8.2, 8.3 Ubuntu 18.04, 20.04

Web App

Last 2 major releases Chrome Firefox Edge Safari





iPhone7 and later iOS 13.7 and later Various iPad Releases



Android

8.0 and later

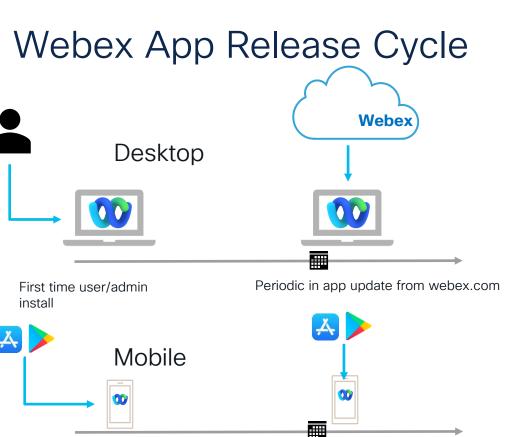


ChromeOS

(Android app emulated on ChromeOS)



Mobile



- A new major release of Webex App is delivered monthly
- App versioning is based on time e.g.
   May 2022 release 42.5.0.22083

Year: 42.x.x.xxxxMonth: 42.5.x.xxxxxBuild: 42.5.0.22083

- Webex App monthly release is typically delivered on the first Tuesday of the month
  - App auto update make take a number of days to occur after release

#### **Update Management**

- Desktop Update Schedule: Control Hub
- Mobile Update Schedule: App Store Setting

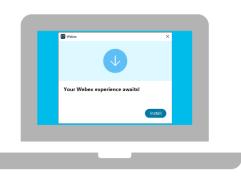
stores

First time user install from app

Periodic update from app stores

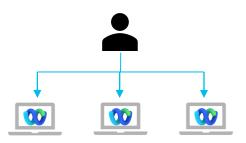
## Webex App for Windows

#### User Install



- User downloads the .exe installer from Webex.com
- Runs the installer
- Webex App is installed to C:\users\userID\AppData\Local\CiscoSparkLauncher
- Admin permissions NOT required

#### Admin Install



- Admin installs the Webex App msi installer to Windows machines via deployment tool (e.g. SCCM)
  - msiexec /i webex.msi ALLUSERS=1 /quiet
- Webex App installed to C:\Program Files\Cisco Spark\
- Admin permissions required



### Webex App for Windows Installation

• Installer switches can be set to configure the first time experience as well as enabling Outlook integration

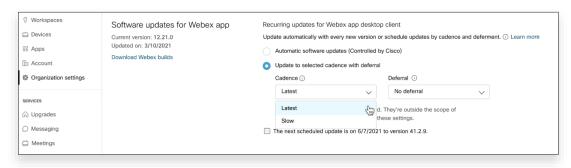
Switch	Purpose
ALLUSERS=1	Admin install to C:\Program Files\Cisco Spark\
ACCEPT_EULA=true	Automatically accept EULA so user does not have to
AUTOSTART_WITH_WINDOWS=true	App auto starts on Windows login. User cannot change within the app
DEFAULT_THEME="Light"	Sets theme to light. User can set their preference in the app
DELETEUSERDATA=1	Removes all existing cache is app is already installed
INSTALLWV2=1	Installs Microsoft WebView2 embedded browser
EMAIL=\$userPrincipalName	Prepopulates the Webex App with user UPN for login. Restricts access to the app current Windows user only
ENABLEOUTLOOKINTEGRATION=1	Enables Outlook integration at install time (registry key). Admin permissions required

See tinyurl.com/wbxwininstall for more

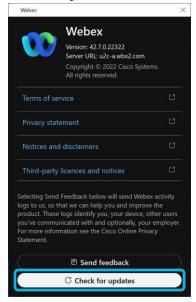


## Upgrade Management Setting

- Webex App for desktop software update cadence is set in Control Hub
  - Default is automatic (monthly)
- Organizations can request that Slow channel option is enabled (Only available upon request)
- Slow Channel releases every 4 months (user is updated to version from 4 months previous)
- Software update cadence is an org wide setting. Individual users update cadence can be overridden



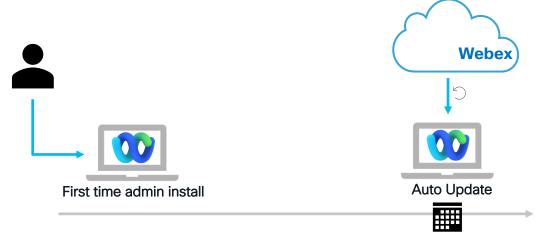
#### Did you know?



NOTE: Meeting site version is configured separately



## Windows App for Windows Update Process



#### Note

Webex App will only update the Windows registry at install time (first time install)
As such, the registry key detailing the app version will not be updated upon Webex App auto update. Software inventory tools or Add/Remove Programs will report the original install version only, even though many auto updates may have occurred.

The current app version is written to C:\users\userID\appdata\local\CiscoSparkLaun cher\version.txt.

Software inventory tools can use this file to determine latest installed version on machine

- msiexec /i webex.msi ALLUSERS=1 /quiet
- Webex App installed to "C:\Program Files\Cisco Spark"
- · CiscoCollabHost.exe is the main Webex binary

- Webex App downloads update from webex.com
- Update package written to C:\users\userID\appdata\local\CiscoSparkLauncher\
- The main Webex binary continues to be CiscoCollabHost.exe running from C:\Program Files\Cisco Spark\ (the original install)
- The auto update process does not reinstall the app its simply an update package downloaded to %appdata%, that is loaded at runtime by CiscoCollabHost.exe
- No admin permissions are required to autoupdate



## Admin Managed Webex App for Mobile Deployment



#### Webex for Intune

- Webex for Intune allows in app enforcement of policies pushed to a mobile device by the admin e.g.
  - VPN on demand
  - Conditional Access
  - Disable copy/paste



#### **AppConfig**

- Webex App for iOS/Android supports AppConfig derived policies
- Policy can be pushed to Webex via an AppConfig compliance EMM e.g. Cisco Meraki, MobileIron etc
- Many policies can be set which will be adhered to by Webex e.g.
  - Disable copy/paste
  - Disable screen capture
  - Login Hint



#### **App Wrapping**

- Admins can obtain the Webex App iOS (ipa) and Android (apk) installer files from Cisco
- Admins can then wrap the Webex App installer using their own MDM process and push to mobile devices
- NOTE: Any discovered issues will need to be reproduced using an app store Webex App installer to gain support from Cisco



## Webex App for Windows WebView2 Requirement

- From Webex App 42.6 (June 2022), WebView2 will be required to use the Webex App on Windows
  - WebView2 is an embedded browser created by Microsoft.
  - Webex App uses WebView2 to display content. Use of WebView2 within the Webex App will ensure lower memory usage and better performance

#### Action Required

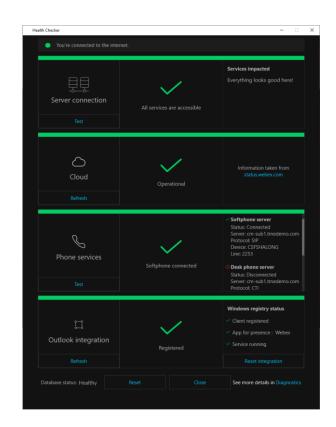
- Admins can push WebView2 to Windows devices via
  - Windows Update
  - Microsoft Evergreen Installer ed mender e
- Webex App can also install WebView2 (from microsoft.com).
  - From 42.3, Webex App can silently download and install WebView?
  - From 42.4, any new installs of Webex App can be set to also install WebView2 by using the INSTALLWV2=1installer switch
  - WebView2 install is silent, and does not require admin permissions
  - NOTE: Webex App will not install WebView2 to VDI environments.
     Administrators must install via the Microsoft Evergreen Installer.





### Health Checker

- Control Hub offers powerful analytics dashboards and reports to monitor adoption and use of Webex in your organization
- In App Health Checker is a great tool for a user/IT to validate users experience
- Users can use the Send Logs option in the Help menu. Logs will be sent to Cisco TAC direct.
   Quoting the user email address will allow TAC to retrieve logs

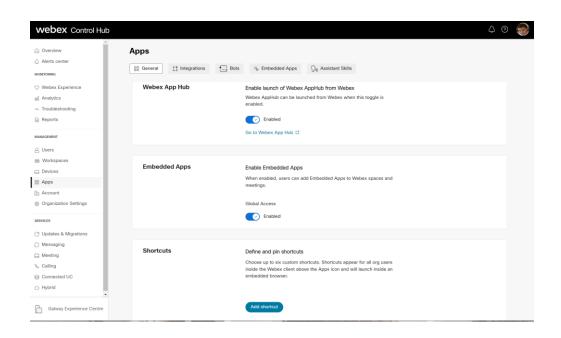




## App Integrations



## Integrations - Integrations and Bots



#### Webex App Hub

Launch Webex App hub (via browser) direct from Webex App

#### Embedded Apps

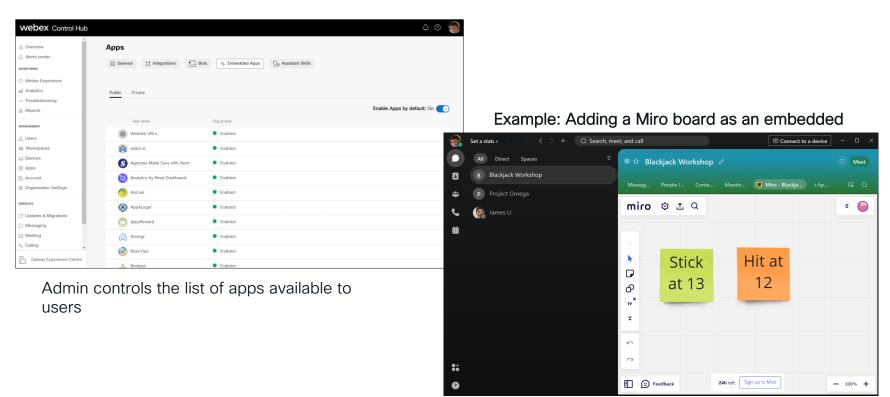
Users can add embedded web apps to a Webex space. Apps are available to all users in the space only

#### Shortcuts

 Admins can embed web sites/apps within the Webex App.



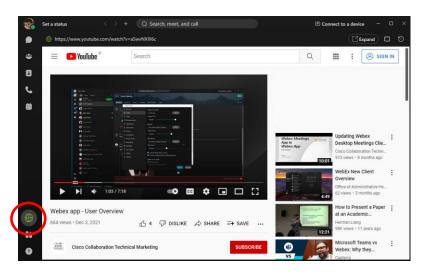
## Integrations - Embedded Apps





## Integrations - Shortcuts





- Add up to 6 shortcuts
- Global setting group Shortcuts are planned



## Don't forget Part 2

- · Part 1: BRKCOL-2198a
  - Webex App Architecture
  - User Management and Identity
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## **Technical Session Surveys**

- Attendees who fill out a minimum of four session surveys and the overall event survey will get Cisco Live branded socks!
- Attendees will also earn 100 points in the Cisco Live Game for every survey completed.
- These points help you get on the leaderboard and increase your chances of winning daily and grand prizes.



## Cisco Learning and Certifications

From technology training and team development to Cisco certifications and learning plans, let us help you empower your business and career. www.cisco.com/go/certs



(CLCs) are prepaid training vouchers redeemed directly with Cisco.



#### Learn



#### Train



#### Certify



#### Cisco U.

IT learning hub that guides teams and learners toward their goals

#### **Cisco Digital Learning**

Subscription-based product, technology, and certification training

#### Cisco Modeling Labs

Network simulation platform for design, testing, and troubleshooting

#### **Cisco Learning Network**

Resource community portal for certifications and learning



#### **Cisco Training Bootcamps**

Intensive team & individual automation and technology training programs

#### **Cisco Learning Partner Program**

Authorized training partners supporting Cisco technology and career certifications

### Cisco Instructor-led and Virtual Instructor-led training

Accelerated curriculum of product, technology, and certification courses



#### Cisco Certifications and Specialist Certifications

Award-winning certification program empowers students and IT Professionals to advance their technical careers

#### Cisco Guided Study Groups

180-day certification prep program with learning and support

#### Cisco Continuing Education Program

Recertification training options for Cisco certified individuals

Here at the event? Visit us at The Learning and Certifications lounge at the World of Solutions





- Visit the Cisco Showcase for related demos
- Book your one-on-one
   Meet the Engineer meeting
- Attend the interactive education with DevNet, Capture the Flag, and Walk-in Labs
- Visit the On-Demand Library for more sessions at <u>www.CiscoLive.com/on-demand</u>



## Thank you



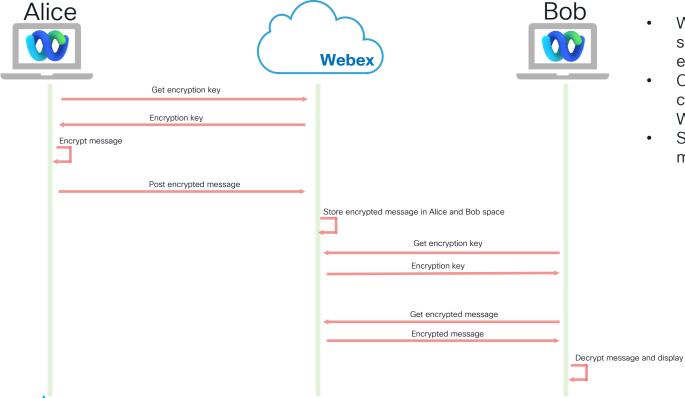


# cisco live!





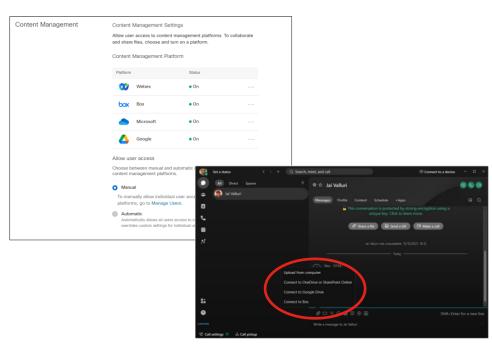
## Messaging Architecture



- Webex Messaging supports end to end encryption
- Only encrypted message content is stored in Webex
- Same for 1:1 and Space messaging

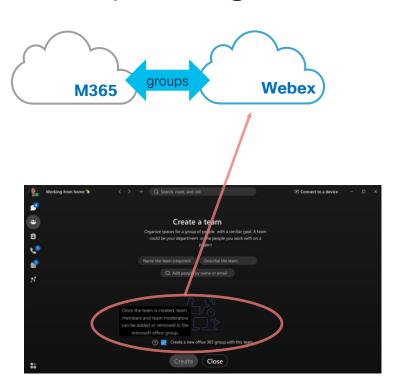
## Content Management and Groups

- Webex App can integrate directly to your existing content management system
- Share files from your content management system in Webex App – the content never leaves your content system. i.e. the content is not posted to Webex, just the link
- Content Management can be implemented on an org or per user basis





## Groups Integration



- Link Webex teams feature with Microsoft 365 groups via Groups Integration Hybrid service
- When user creates a team in Webex App, a M365 group is created (including team members)
- The team membership can then be maintained via the M365 group
  - E.g. as new team members join the organization, they can be synced to the Webex team automatically

