Cisco Meeting Server Unveiled

Advanced Capabilities and Best Practices

Svend Boerding
Solution Engineer, Collaboration

cisco Live !

BRKCOL-2228

Webex App

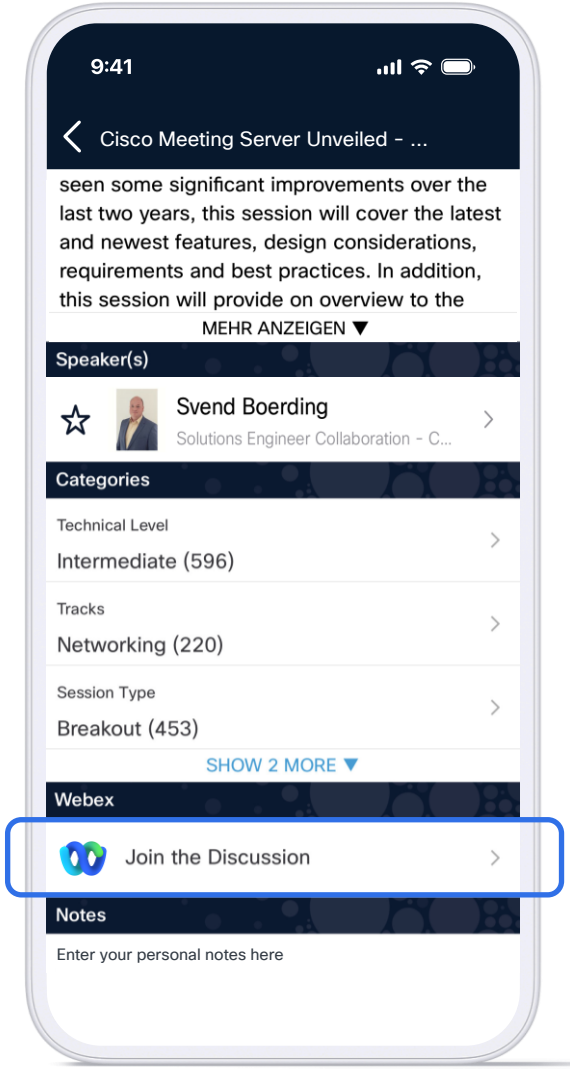
Questions?

Use Webex App to chat with the speaker after the session

How

1. Find this session in the Cisco Events 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 February 27, 2026.



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Agenda

01 Technical Refresher

02 What has changed?

03 Hardware

04 TMS is passing away

05 What’s next?

06 Conclusion

07 Reference

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01 - Technical Refresher

General Deployment Concepts

- Cisco Meeting Server has two general deployment concepts
  - Single Combined Server Deployment
  - Split Server Deployments

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General Deployment Concepts

- Cisco Meeting Server has two general deployment concepts

  - Single Combined Server Deployment

    This deployment enables both SIP and web app participants to join meetings if participants have direct network access to the Call Bridge for signaling and media.
    This deployment works where all participants are within the same network.

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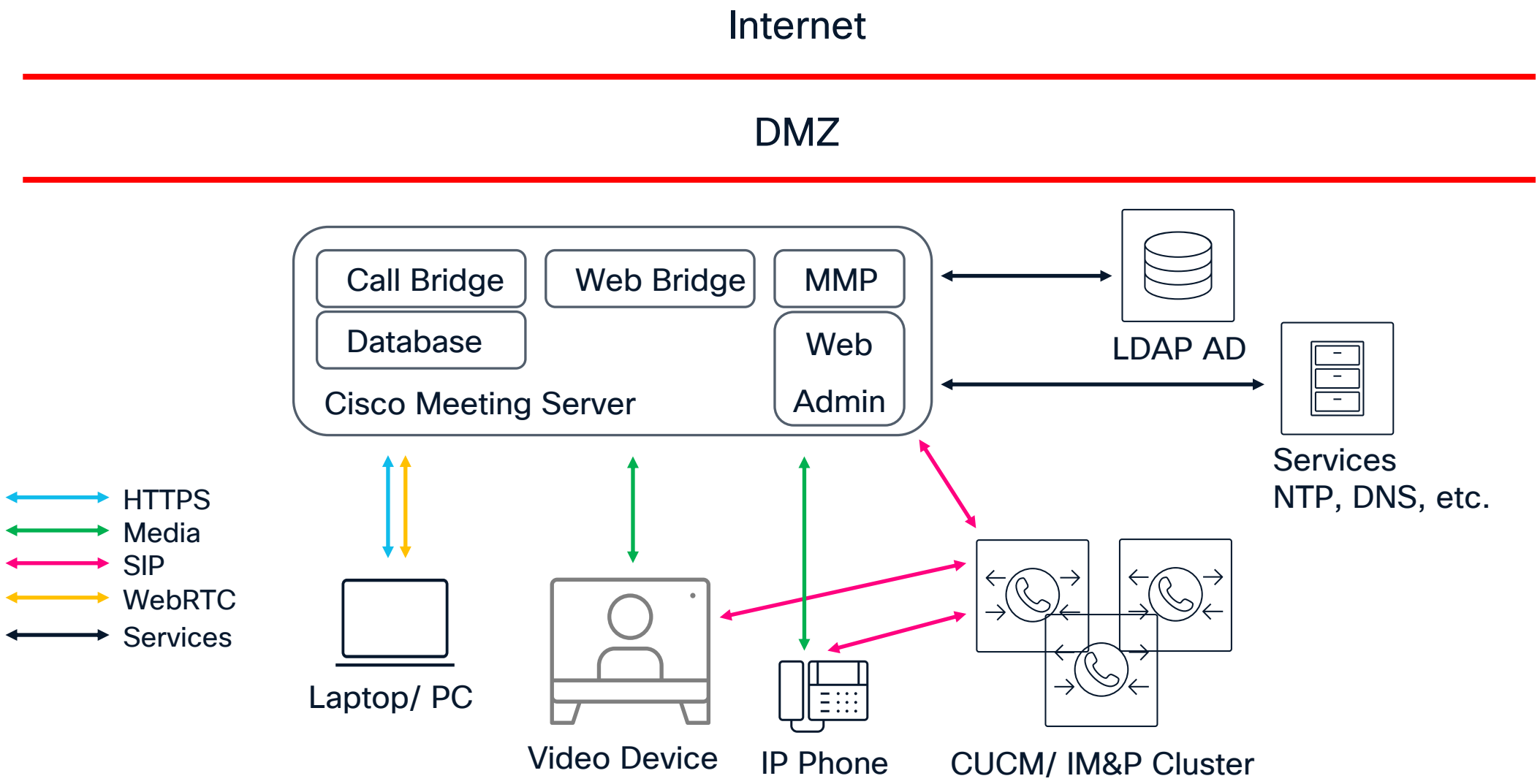
General Deployment Concepts

Single Combined Server



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General Deployment Concepts

- Cisco Meeting Server has two general deployment concepts

  - Split Server Deployments

    Every deployment which includes resiliency, multiple server for scale or participants joining from outside of your network boundry is a „Split Server Deployment“.

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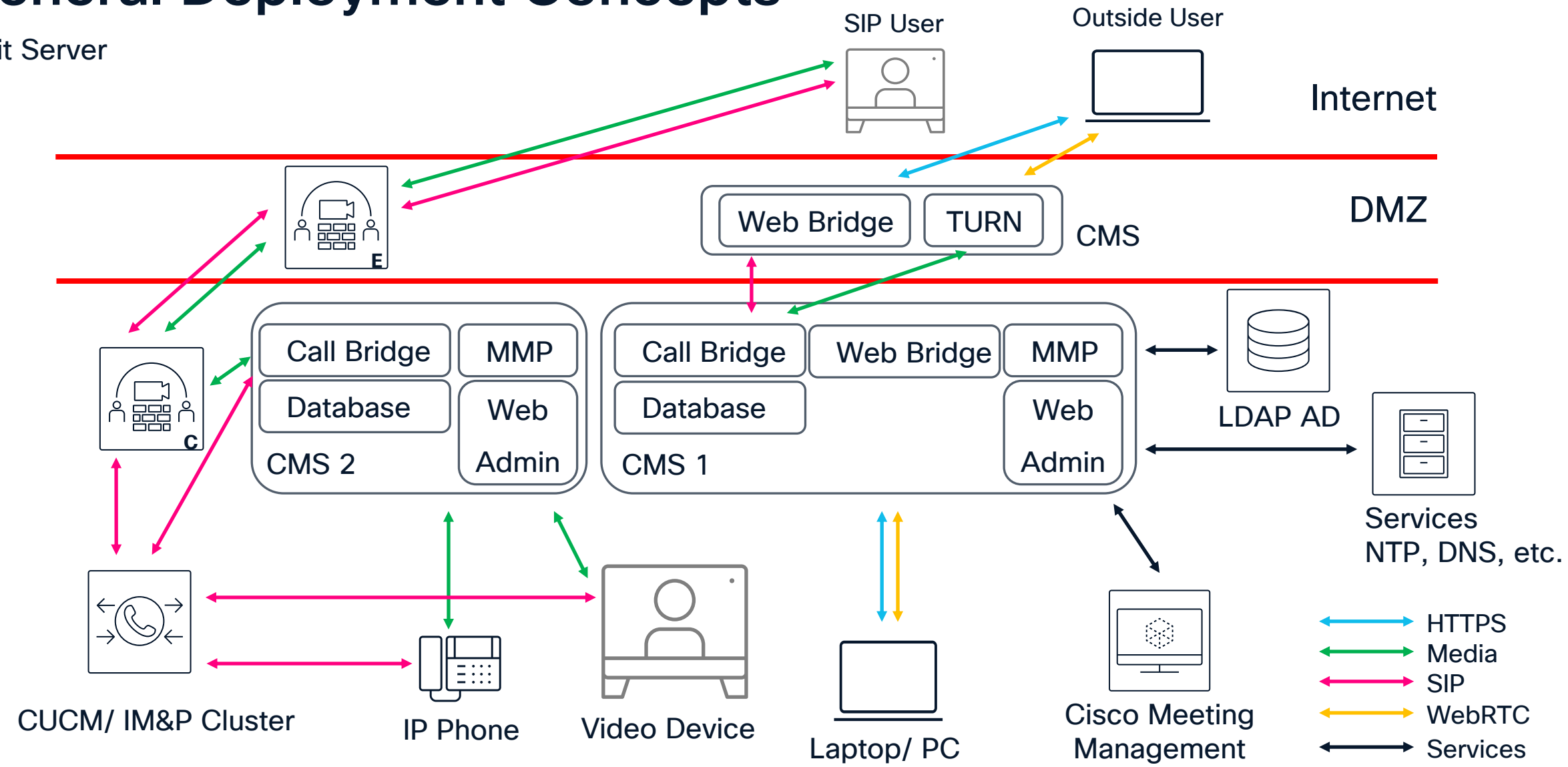
General Deployment Concepts

Split Server



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CMS Components

Database

The Call Bridge reads from and writes to the database storing the space information, for example, the members of spaces, and recent activity within a space.

Call Bridge

The Call Bridge is the component on the Meeting Server that bridges the conference connections, enabling multiple participants to join meetings hosted on the Meeting Server.

Web Bridge 3

Web Bridge 3 is a Meeting Server component that enables participants to join meetings using the browser-based Cisco web app client.

TURN Server

The TURN server provides firewall traversal technology, allowing the Meeting Server to be deployed behind a Firewall or NAT.

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CMS Components

Web Scheduler
The Scheduler is a Meeting Server component that allows end users to schedule meetings via the web app.

MeetingApps
WebApp features like File Sharing and Surveys are deployed on the MeetingApps service.

Have to be deployed on a dedicated instance.

Recorder
The Recorder component on the Meeting Server adds the capability of recording meetings and saving the recordings to a document storage such as a network file system (NFS).

Has to be deployed on a dedicated instance.

Streamer
The Streamer component adds the capability of streaming meetings held in a space to the RTMP URL configured on the space.

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Has to be deployed on a dedicated instance.

Web Admin
The Web Admin is a web based interface to configure the Meeting Server.

Mainboard Management Processor (MMP)
The CLI interface to configure the platform itself

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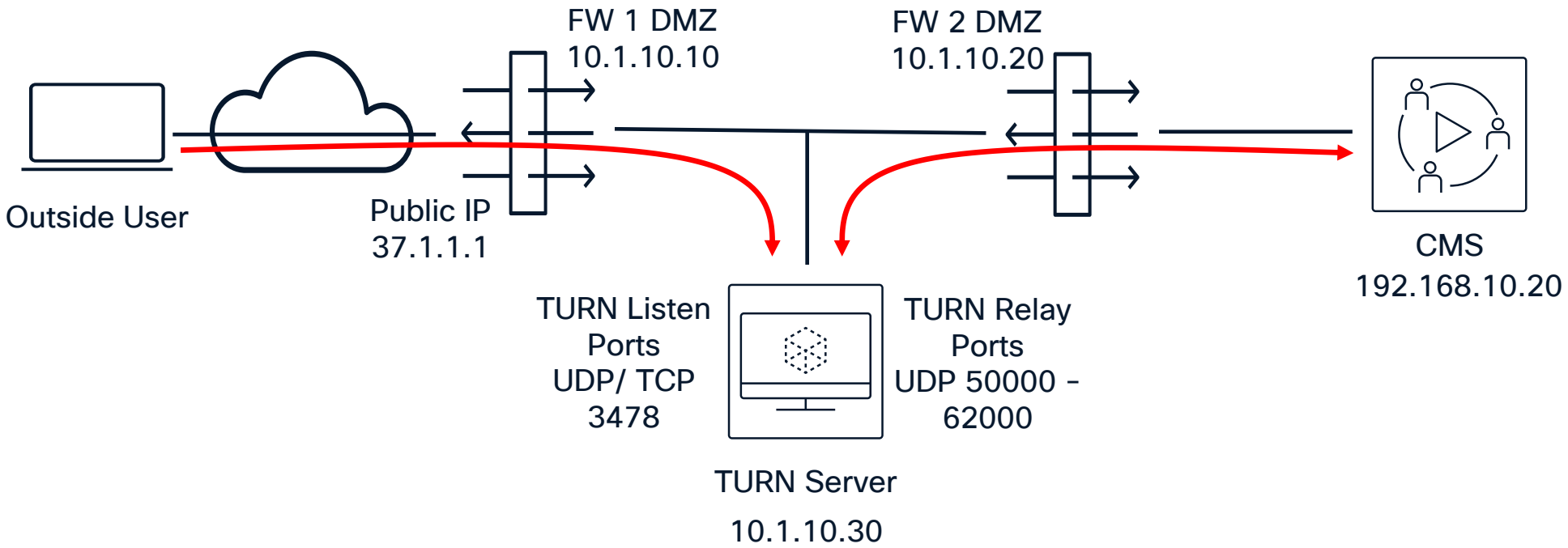
TURN Server

- A TURN (**T**raversal **U**sing **R**elays around **N**AT) server is a component in real-time communication (like WebRTC video calls) that acts as a relay to connect devices when direct connections are blocked by firewalls or Network Address Translation (NAT).



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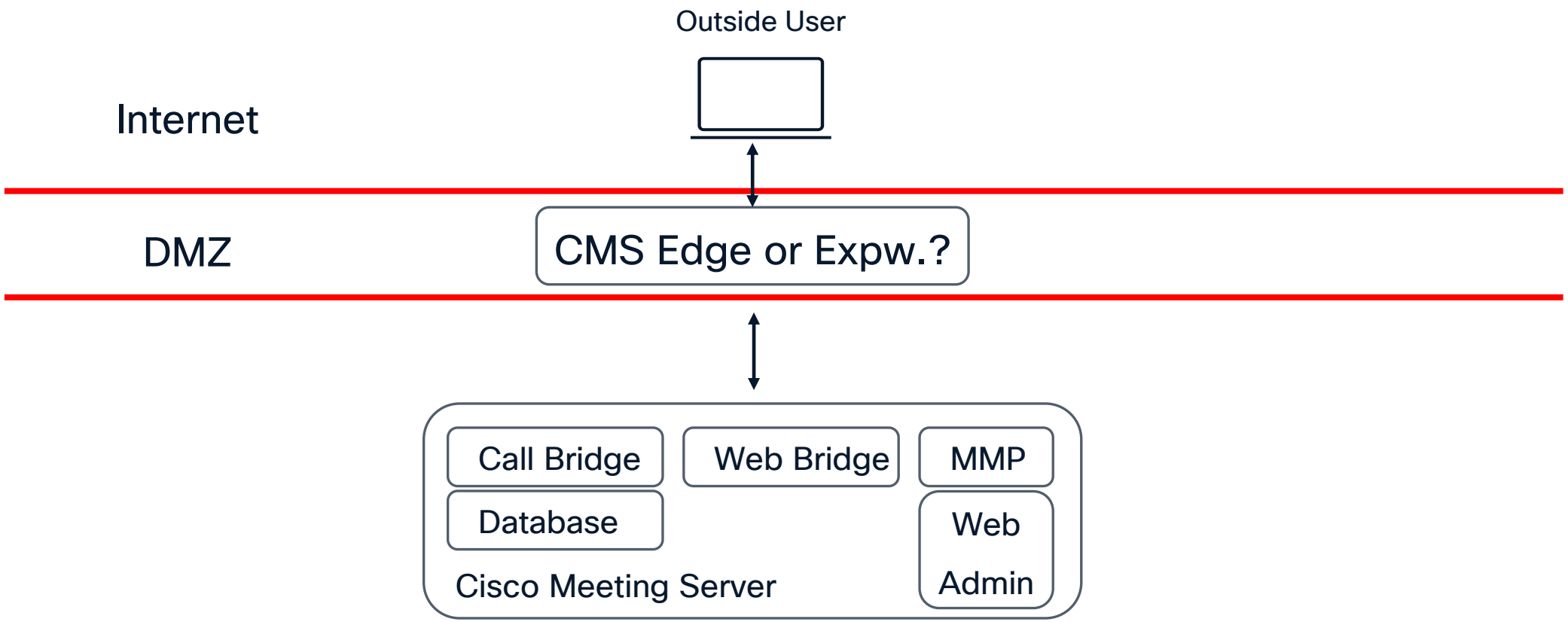
Meeting Server Edge vs. Expressway



- To allow external participants to join a meeting a Traversal/ TURN component is needed to work around the firewall rules and NAT as no direct connection is allowed.

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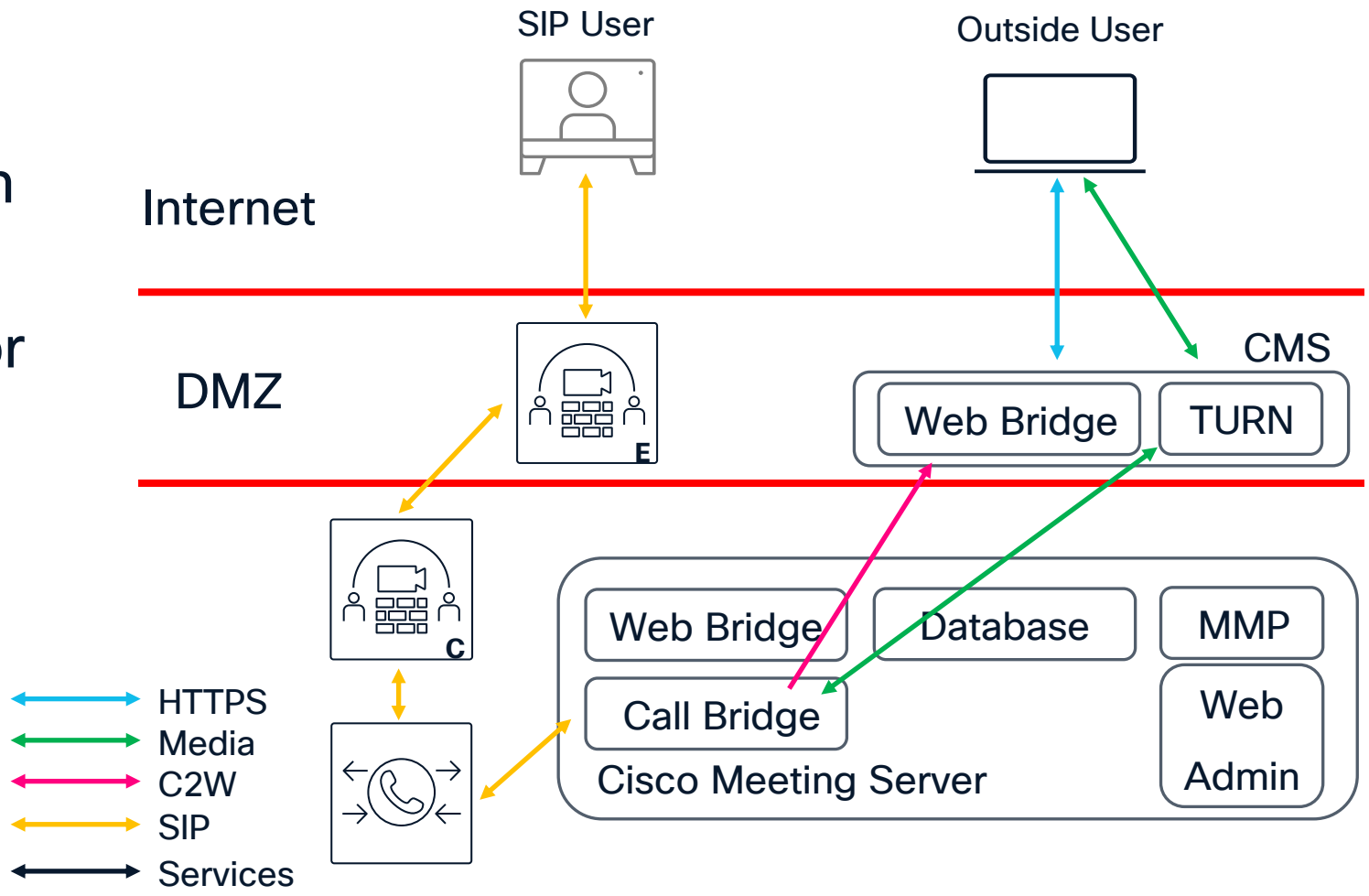
Meeting Server Edge

- CMS offers Web Bridge and TURN Server service in DMZ
- Expressway C/E needed for external SIP participants

Traffic flows:
TLS 443 – Client to WebBridge
UDP/TCP 3478 – Traffic between Client and TURN (both ways)
TCP 9999 – C2W traffic (CB to WB)
UDP 50000 to 62000 – Media between CallBridge & TURN (both ways)



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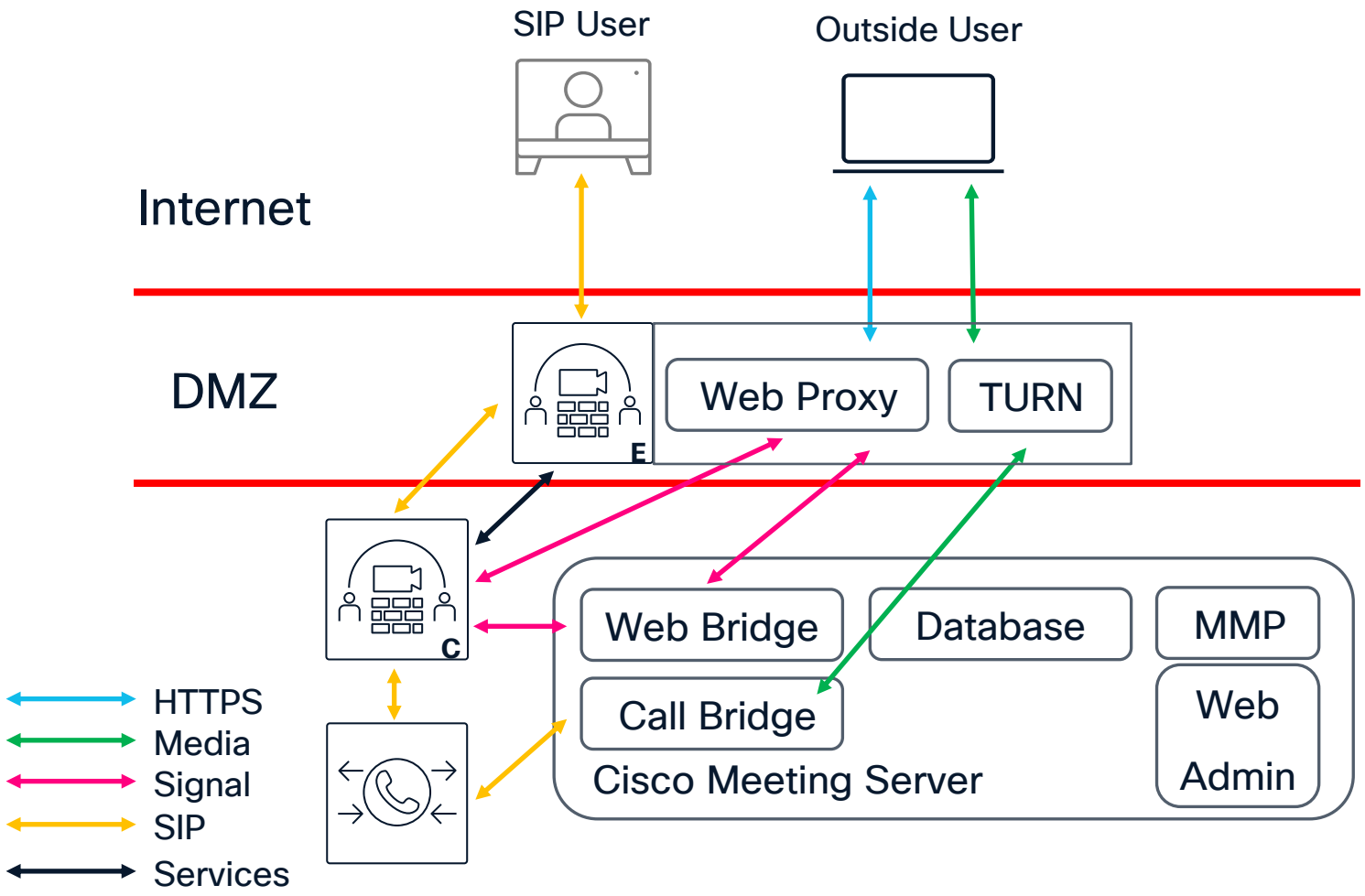
Expressway Edge

- Expressway additionally offers WebProxy and TURN service in DMZ

<u>Traffic flows:</u>
TLS 443 – Client to WebProxy (Exp-E Public)
UDP/TCP 3478 – Traffic between Client and TURN (Exp-E public) (both ways)
TLS/TCP 7001+ff Signaling Exp-C to Exp-E private
TCP 2222 SSH tunnel Fw-Traversal Exp-C to Exp-E private
HTTPS 443 Signaling Exp-C to WebBridge
UDP 3478 TURN WebBridge to Exp-E private
UDP 24000-29999 TURN media CallBridge to Exp-E public

Note: if these ports are not allowed, TURN media will use UDP 3478, this will add additional load on turn server



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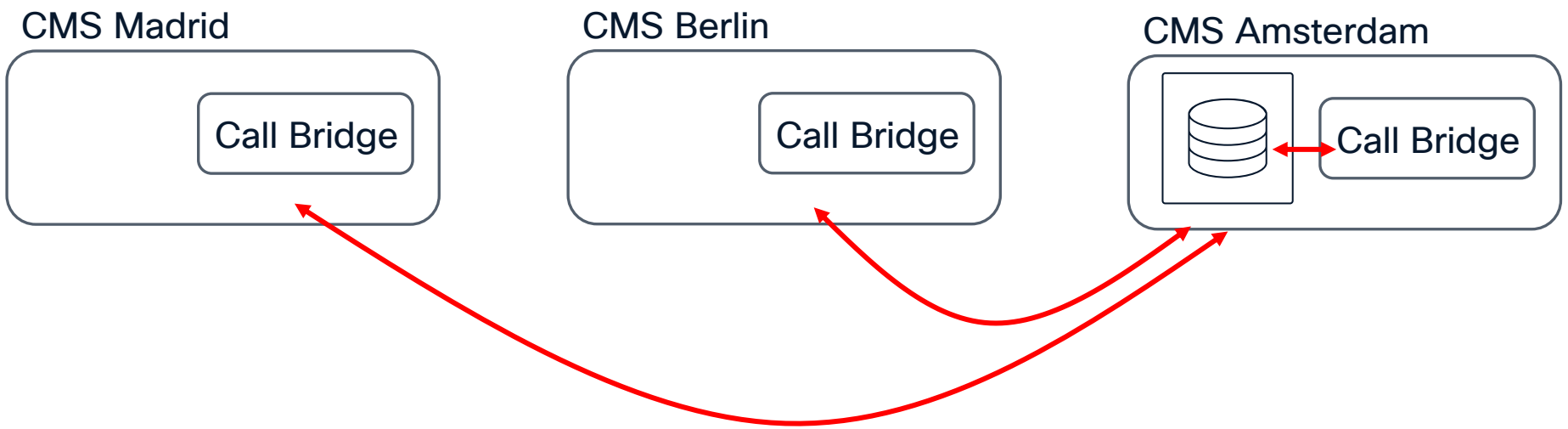
Data Base Resiliency

- Every setup needs at minimum 1 database. Installing the CMS image automatically deploys an empty database on that server



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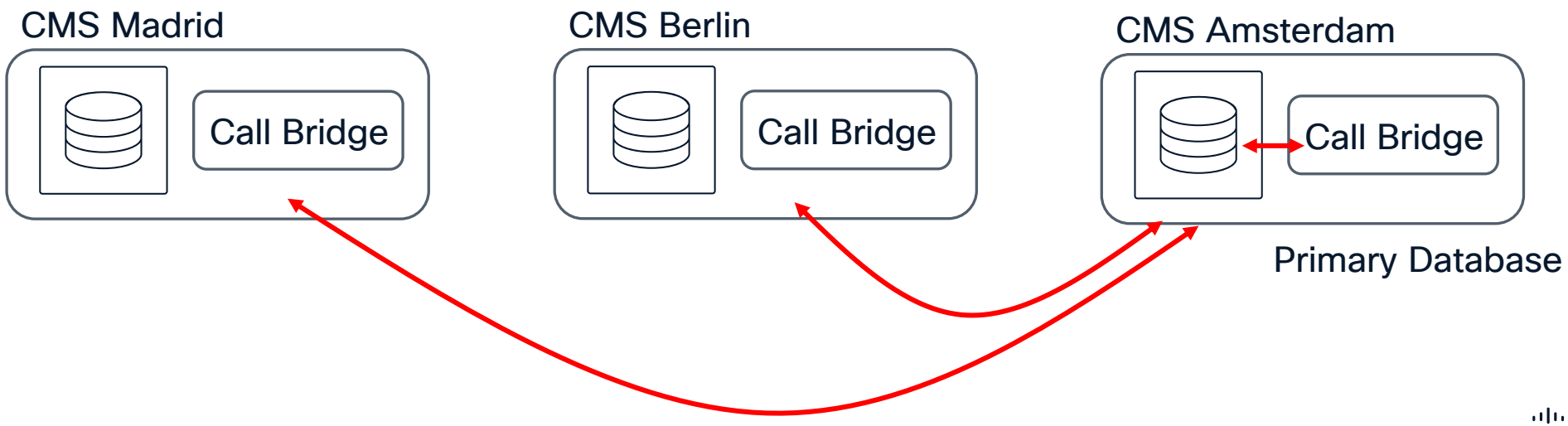
- We recommend the use of a data base cluster (odd number of nodes required)



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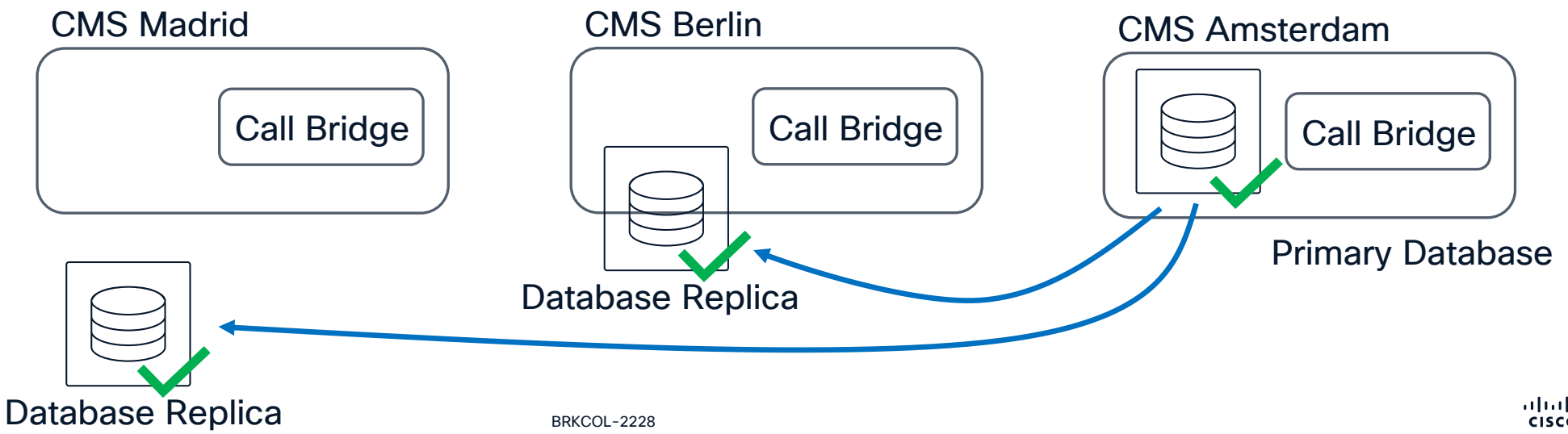
Data Base Resiliency

- Every setup needs at minimum 1 database. Installing the CMS image automatically deploys an empty database on that server
- We recommend the use of a data base cluster (odd number of nodes required)
- Database works on primary/ replica base, no loadbalancing, <200ms RTT between DB nodes, call bridges and primary DB node



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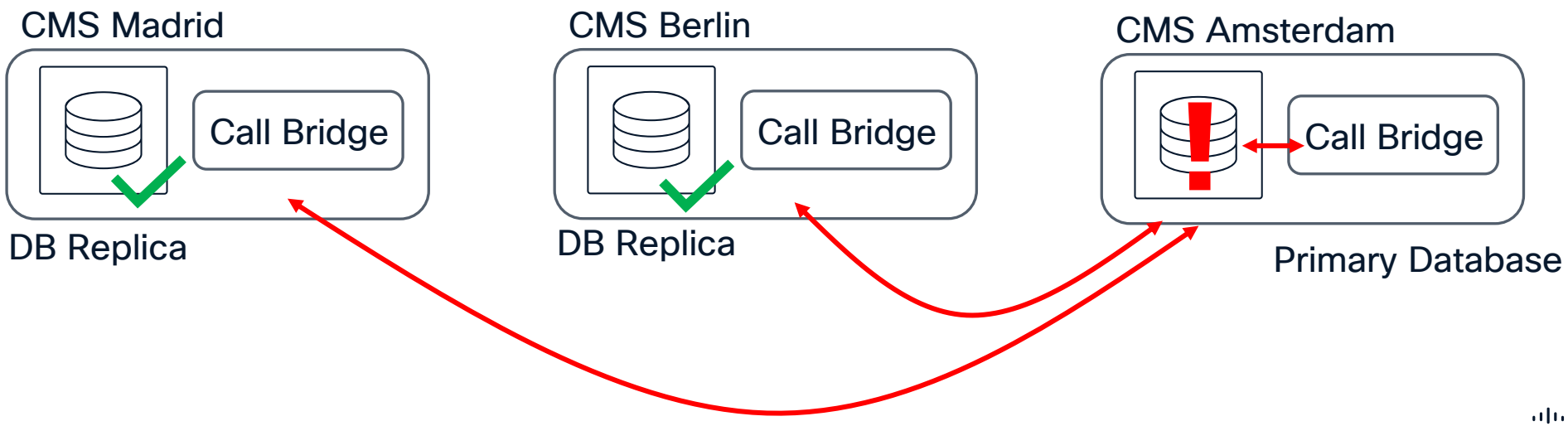
Data Base Resiliency

- If a failure occurs on the primary DB node



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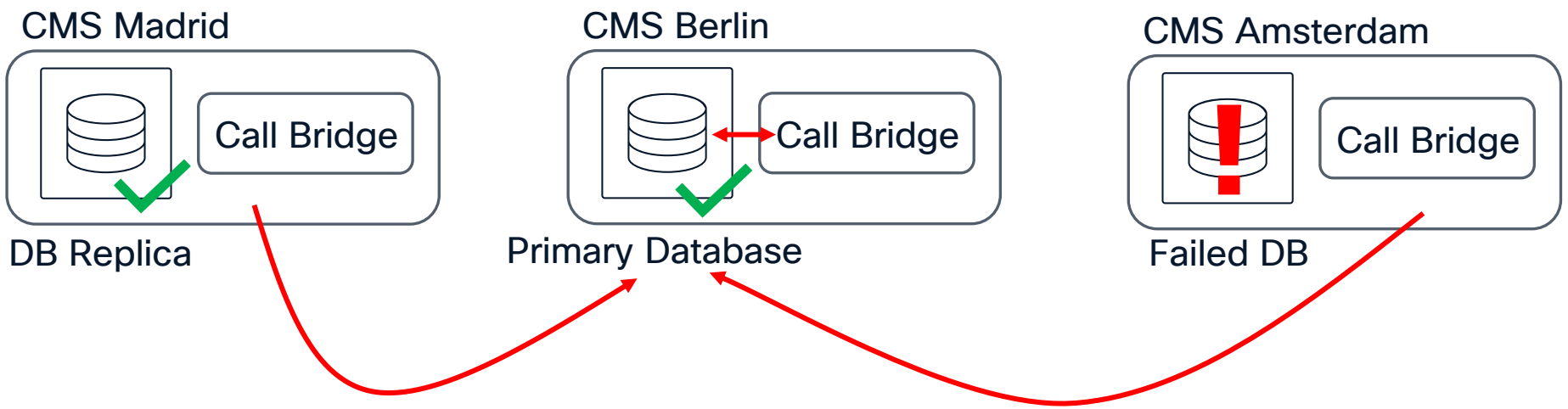
Data Base Resiliency

- If a failure occurs on the primary DB node
- A Replica DB will be promoted to Primary Database and Call Bridges and DB replicas will reconnect accordingly



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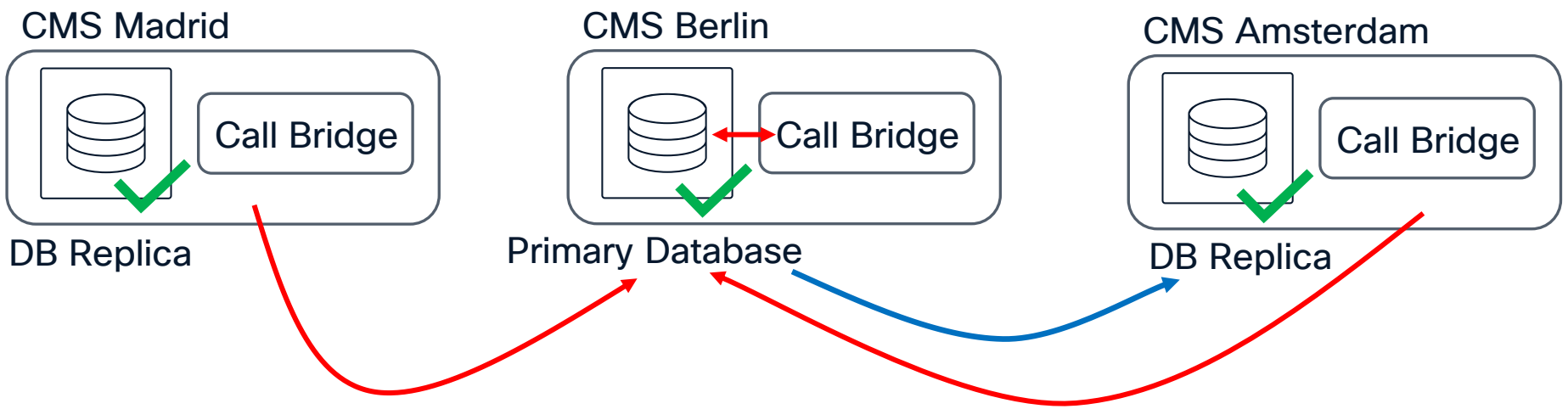
Data Base Resiliency

- If a failure occurs on the primary DB node
- A Replica DB will be promoted to Primary Database and Call Bridges and DB replicas will reconnect accordingly
- After failure, old primary DB node will reconnect as DB replica node



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Call Bridge vs. Call Bridge Cluster vs. Call Bridge Groups

- Call Bridge
  Connects and bridges multiple participants into their meetings. It doesn‘t offer load balancing or resiliency

- Call Bridge Cluster
  Enables and allows you to operate multiple Call Bridges as a single entity and scale capacity beyond of a single Call Bridge

- Call Bridge Group
  Is a subset of clustered Call Bridges (CB) to allow logical grouping of CBs which are located closely to each other (same site, DC, etc.) and to enable better ressource allocation and load balancing

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Call Bridge Resiliency

- Resiliency ≠ Load Balancing
- In a Call Bridge Cluster, if a Call Bridge fails the call will immediately failover to the next available callbridge
- A CB Cluster should contain at least 3 nodes up to 7 nodes (recommended)
  Up to 24 nodes are possible, Cisco approval needed
- Node RTT between cluster nodes should not exeed 300ms
- All nodes are connected to the same Database/ DB Cluster

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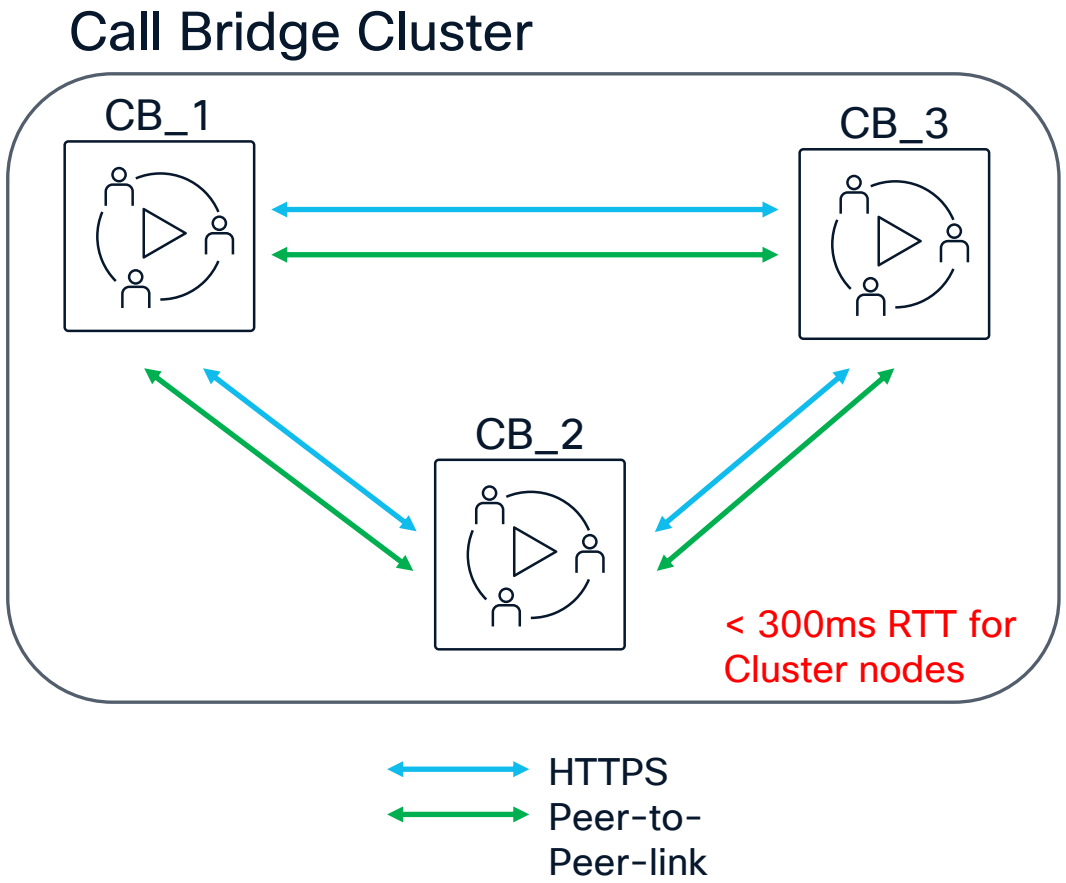
Call Bridge Resiliency

Peer-to-Peer-Link

- Reduce call complexitiy due to direct link between call bridges
- Reduce load on Call Control device and frees ressources for call which have to be route through call control



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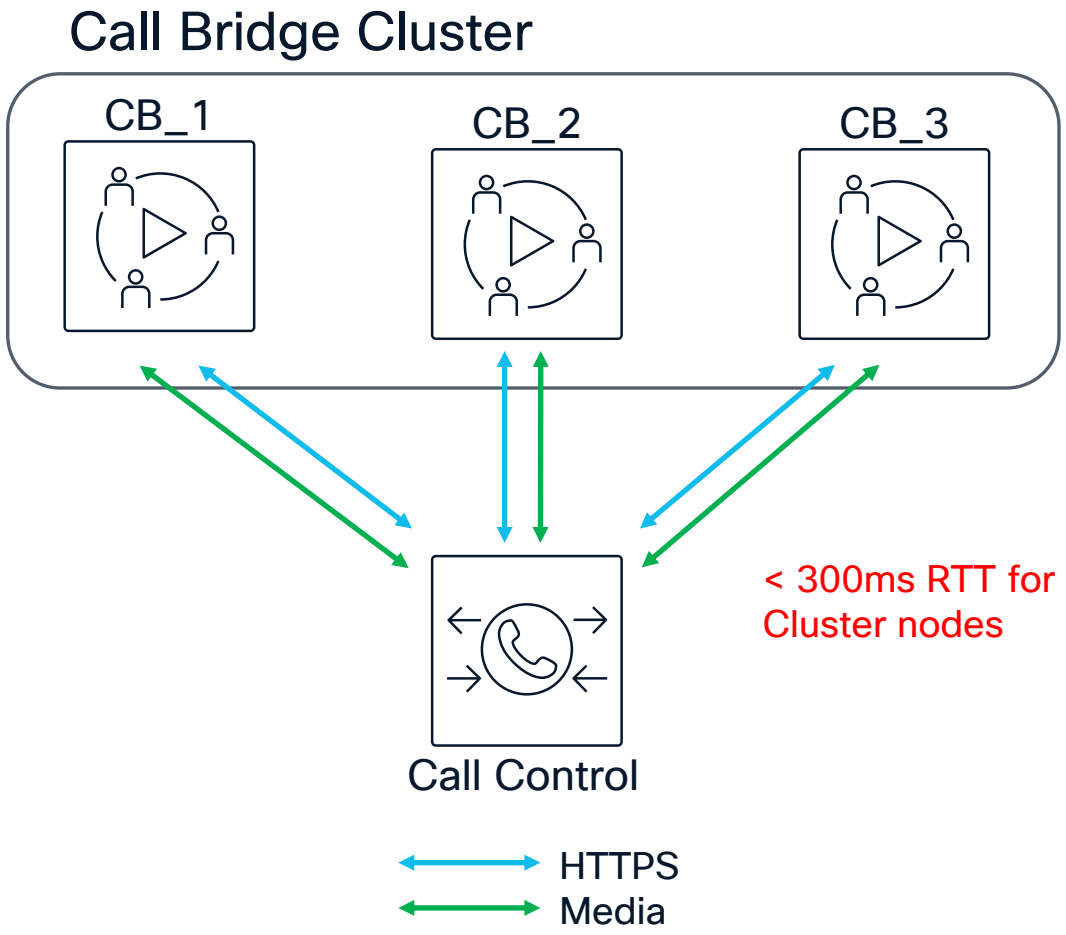
Call Bridge Resiliency

Routing via Call Control

- Consistent call flow between Meeting Server and local SIP devices
- Pot. simplify network config, if firewalls are in place



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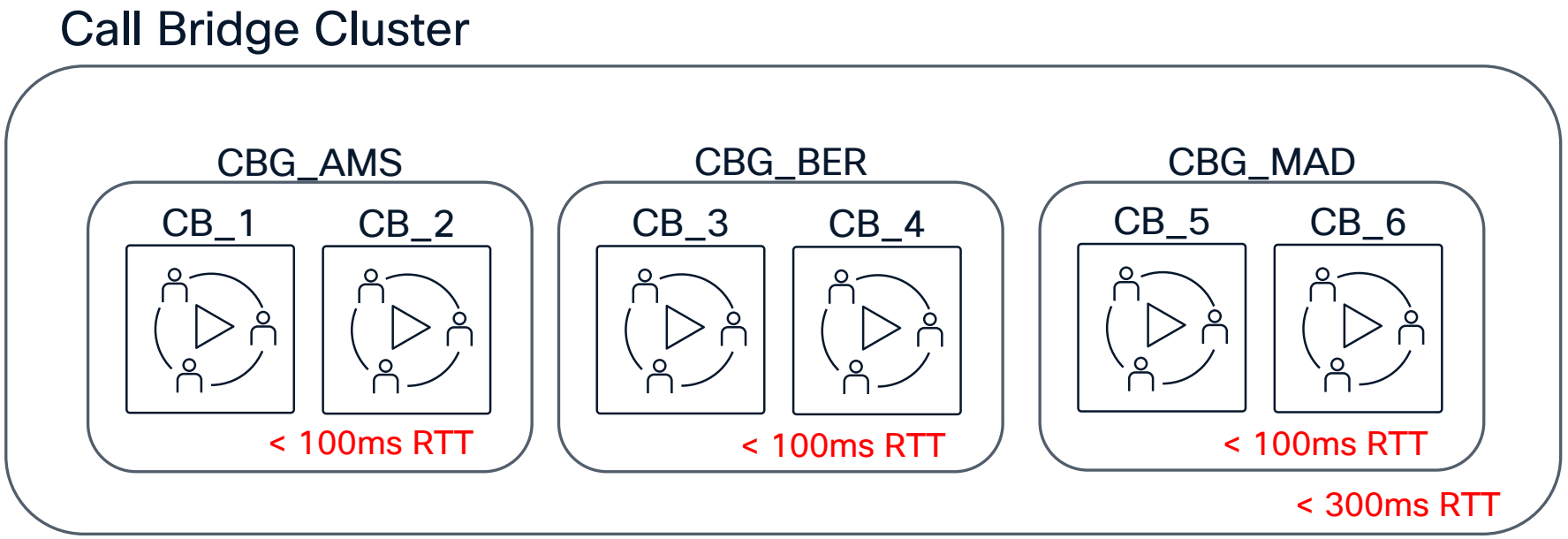
Call Bridge Load Balancing



- CB Groups can intelligently load balance calls between call bridges in the same location or across locations
- Decision making is handled by CMS itselfs
- Call control must be able to handle SIP messages (e.g. Replace Header) to route calls to the correct node

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Call Bridge Load Balancing

Based on these values:

<u>Load</u>
Value of maximum load per Call Bridge (depending on HW)

<u>newConferenceLoadLimitBasisPoints</u>
Value between 1-10000 for starting a new non-active conference. Default 5000 = 50%

<u>existingConferenceLoadLimitBasisPoints</u>
Value between 1-10000 for adding participants to existing conferences. Default 8000 = 80%

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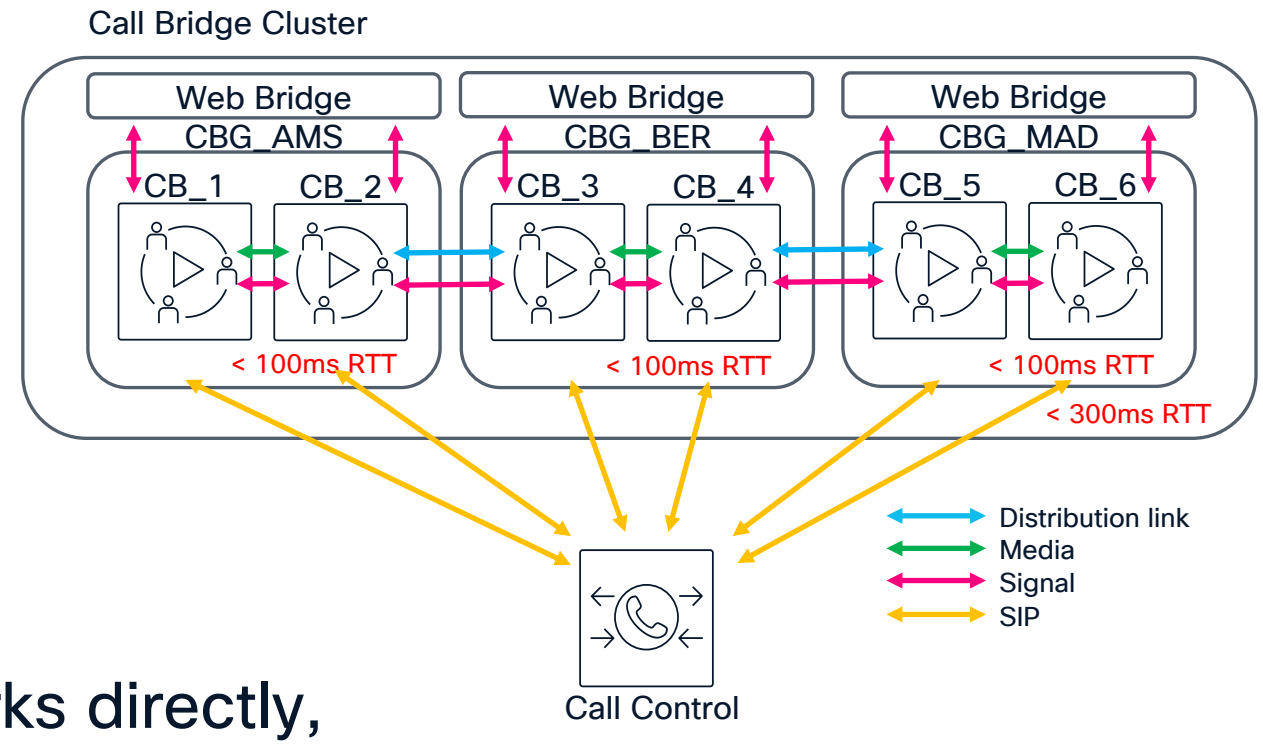
Call Bridge Load Balancing

- SIP call load balancing is based on Call Control rerouting and SIP redirection
- WebApp Calls (non SIP) get routed depending on the data-base information (space related) and load based
- Rerouting within a CB group works directly, rerouting to another CB group or joining a distributed meeting creates a “distribution link” between these CB groups



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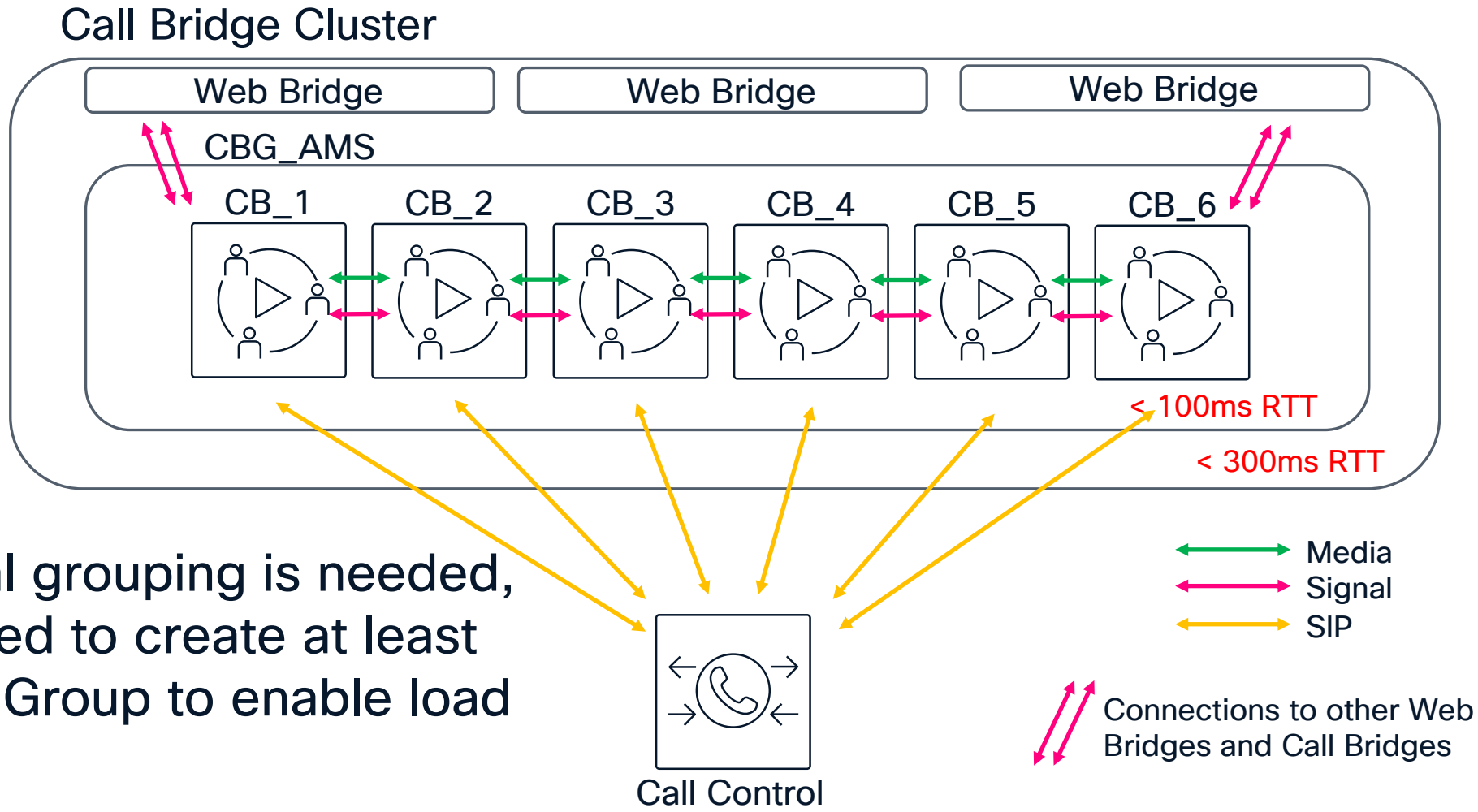
Call Bridge Load Balancing



Also if no logical grouping is needed, it's recommended to create at least one Call Bridge Group to enable load balancing

Overloading a node can result in bad quality.

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Sizing

- Sizing depends on multiple factors
  1. Required call/ conference capacity
  2. Resiliency & load balancing
  3. Logical grouping (sites, etc.)
  4. Additional features (Streamer, Recorder, File Share, etc.)

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Sizing

Capacity depending on selected hardware:

Cisco Meeting Server platform		Cisco Meeting Server 1000 M6*	Cisco Meeting Server Small M7	Cisco Meeting Server 2000 M6*	Cisco Meeting Server Medium M8
Individual Meeting Servers or Meeting Servers in a cluster	1080p30 720p30 SD Audio calls	80 160 320 3000	120 240 480 3000	648 1296 1875 3200	225 450 850 3000
.....	.....	.....	.....	.....	.....

Actual numbers can be found in Appendix „X“ named „Call Capacities by Cisco Meeting Server platform“ in nearly all CMS guides

Example:
https://www.cisco.com/c/dam/en/us/td/docs/conferencing/ciscoMeetingServer/Deployment_Guide/Version-3-12/Cisco-Meeting-Server-3-12-Single-Split-Server-Deployment.pdf
→ Appendix C

*End of Sale Hardware

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Sizing

If using virtualized environments:

Version 3.12

Supported Versions of VMware vSphere ESXi: ESXi 8.0.3 P05

Component & Capacity Point	VM Configuration Requirements click to download OVA file for this version				
	vCPU	Physical CPU Base Frequency	vRAM	vDisk	vNIC
Callbridge VM or Combined VM (Edge + Callbridge + DB + Scheduler)	4 + (1 vCPU per 1.25 HD ports)	Min: 2.0GHz; Recommended: 2.5GHz	1GB per vCPU (*See Notes)	1 x 100GB	1
Small Edge VM	4	2.5 GHz recommended	4 GB	1 x 100GB	1
Large Edge VM	16	2.5 GHz recommended	8 GB	1 x 100GB	10 Gbps
Database VM	8	Min: 2.0GHz; Recommended: 2.5GHz	8 GB	1 x 100GB	1
Recording VM	Min 4	Min: 2.0GHz; Recommended: 2.5GHz	Min 4GB and .5GB per vCPU	1 x 100GB	1
Streaming VM	Min 4; Max 8	Min: 2.0GHz; Recommended: 2.5GHz	Min 4 GB; recommended 8 GB	1 x 100GB	1
MeetingApps	8		16 GB	1 x 100GB	

Notes:

* vRAM requirements are 1GB per vCPU with a minimum of 4GB of RAM, but recommended minimum of 8GB. A Combined VM (Edge + Callbridge + DB + Scheduler) only supports 1000 cospaces as a base opposed to the 75,000 of a dedicated Callbridge VM. To support additonal cospaces in a deployment an additional 1GB per 100,000 cospaces is required across all CMS VMs using the Callbridge or Database components. For example, a separate Callbridge VM and Database VM deployment to support 20HD ports and 275,000 cospaces would be required. Additionally, running a Scheduler requires an additional 4GB

Cisco Collaboration Virtualization

https://www.cisco.com/c/dam/en/us/td/docs/voice_ip_comm/uc_system/virtualization/cisco-collaboration-virtualization.html

→ Installation guide for Cisco Meeting Server 1000/Small and virtualized deployments for version 3.12

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Sizing Best practices & Guidelines

- Up to 24 nodes/ Cluster **BUT** designs with 8 or more nodes/ Cluster needs to approved by Cisco
- Meeting Apps (File share, Surveys, Streamer & Recorder) have to be deployed on a dedicated node
- If you need 2 dedicated interfaces in DMZ, use Expressway Edge
- For resiliency use Call Bridge Cluster(s)
- To avoid Call Bridge Overload configure at least 1 Call Bridge Group for load balancing

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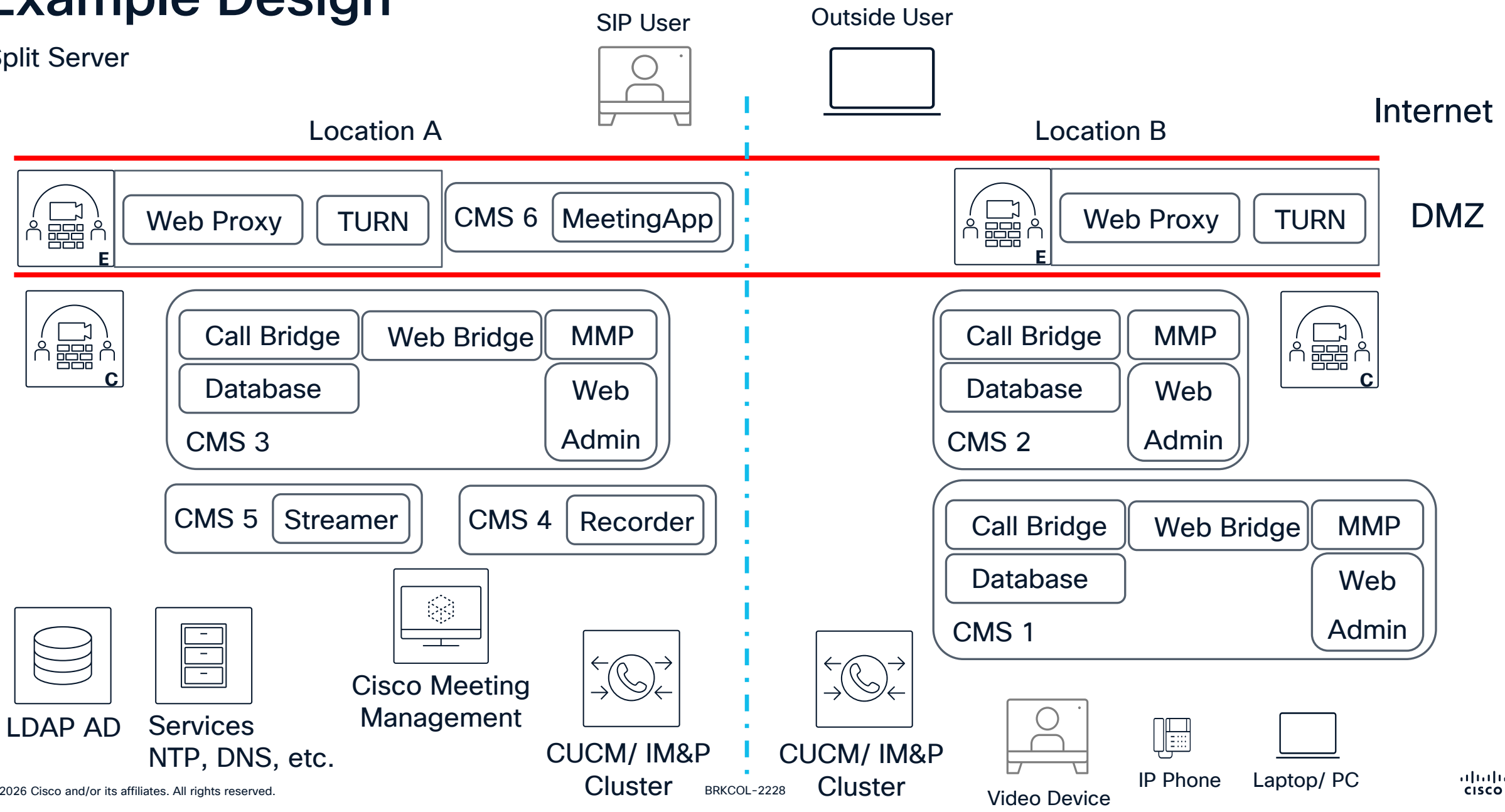
Example Design

Split Server



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Licensing

- Cisco Meeting Server still supports two methods of licensing
  - Local license mode
    No CMM needed, licenses are „installed“ on Callbridges
  - Smart licensing mode
    CMM needed, CMM connects to CSSM (Cisco Smart Software Manager) or license reservation needed

Recommended

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Licensing

- Smart licensing mode
  - Online Mode
    CMM connects to CSSM and syncs the needed licenses
  - Specific License Reservation (SLR)
    Challenge/ Response methode, no connection to CSSM needed.
    Add & change has to be done manually.
  - Permanent License Reservation (PLR)

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Licensing Deployment Methods

For Your Reference

Ease of use

Security Policy

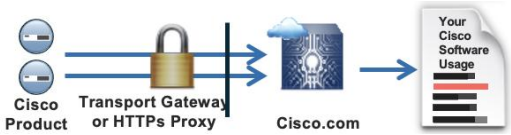
Options

❶ Direct cloud access

Cisco product sends usage information directly over the internet, no additional components needed.

❷ Direct cloud access through an HTTPs proxy

Cisco Products send usage information over the internet via a Proxy Server – Smart Call Home Transport Gateway (Free VM Download) or off-the-shelf Proxy (such as Apache).

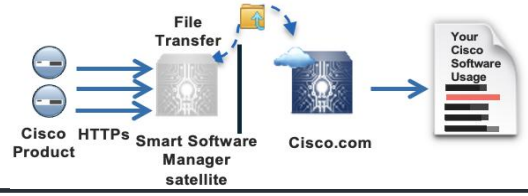


❸ Mediated access through an on-premises collector – connected

Cisco Products send usage information to a local connected collector, which acts as a local license authority. Periodically, an exchange of information will be performed to keep the databases in sync.

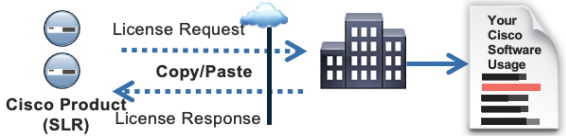
❹ Mediated access through an on-premises collector – disconnected

Cisco Products send usage information to a local disconnected collector, which acts as a local license authority. Once a month, an exchange of synchronization information will be performed to keep the databases in sync.



❺ License Reservation: (PLR / SLR)

Designed for highly secure intelligence and military environments where communications with outside is difficult. Products will operate normally without ongoing communication to CSSM



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Licensing

For Your Reference

- Available licenses:
  - A-CMS-PMP - Personal Multiparty License
  - A-CMS-SMP - Shared Multiparty License
  - A-CMS-CUSTOM – Customization License
  - A-CMS-RECORDING – Recording-/ Streaming-Port License
  - A-CMS-SNAPSHOT – Snapshot Monitor License

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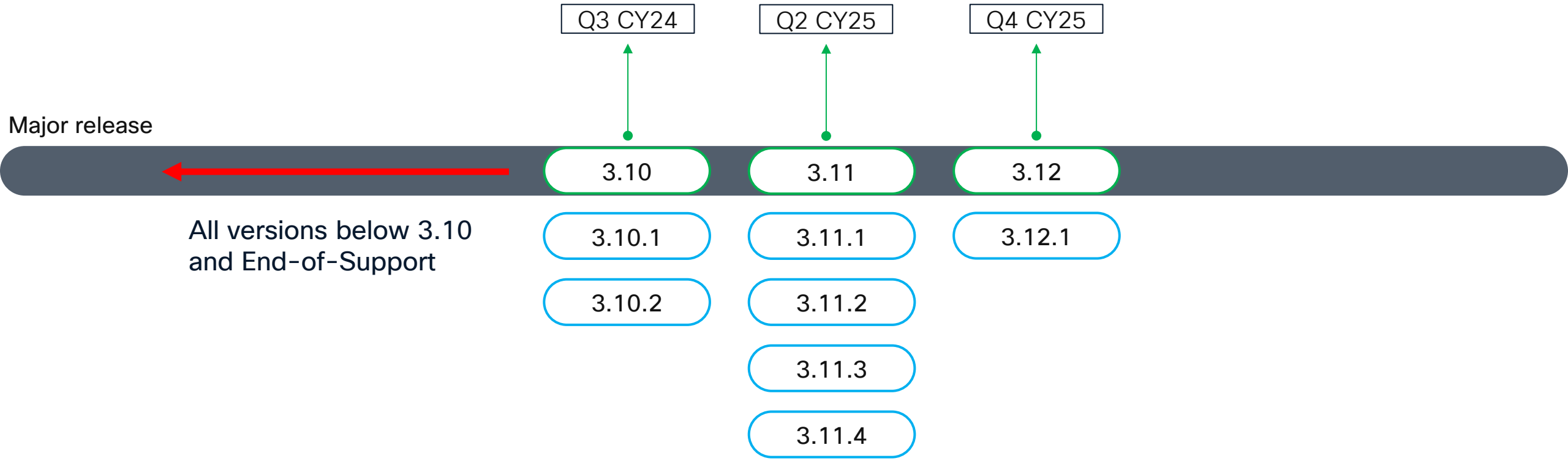
02 – What has changed?

CMS & CMM 3.10 to 3.12

Highlights

Release-Overview



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Software Lifecycle

3.9	3.10	3.11	3.12	.....
Announcement End-of-Software Maintenance Version 3.7	**Announcement** End-of-Software Maintenance Version 3.8	**Announcement** End-of-Software Maintenance Version 3.9	**Announcement** End-of-Software Maintenance Version 3.10	.....
	End-of-Software Maintenance Version 3.7	**End-of-Software Maintenance** Version 3.8	**End-of-Software Maintenance** Version 3.9	.....

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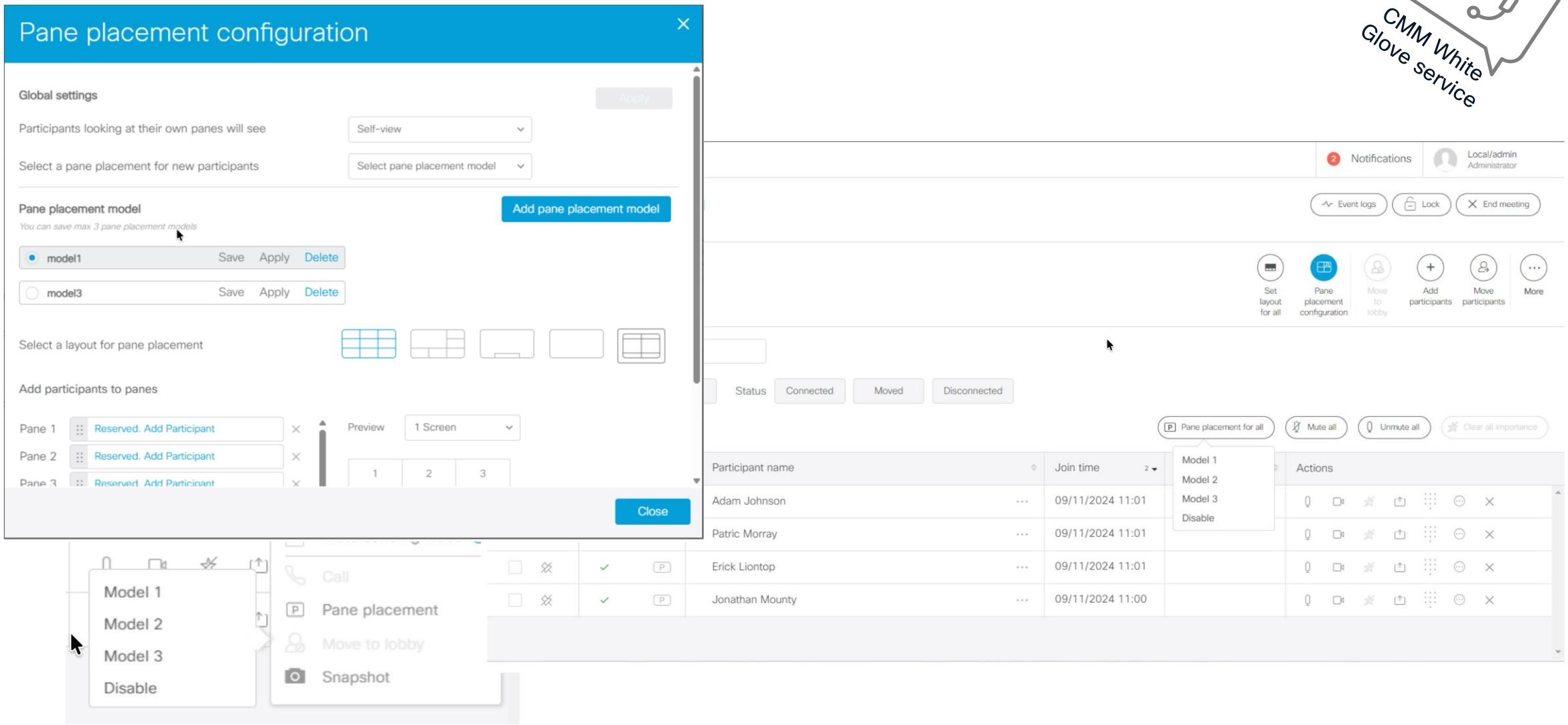
Cisco Meeting Management (CMM)

Highlights 3.10 to 3.12

Per Participant Pane Placement



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Per Participant Pane Placement

- Pane placements can now be applied at individual participant levels
- Pane placement workflow is split into 2 steps:

  1. Create Pane Placement Models: Create up to 3 models
  2. Apply Pane Placement

     - All Participants
     - Group of Participants
     - Single Participants

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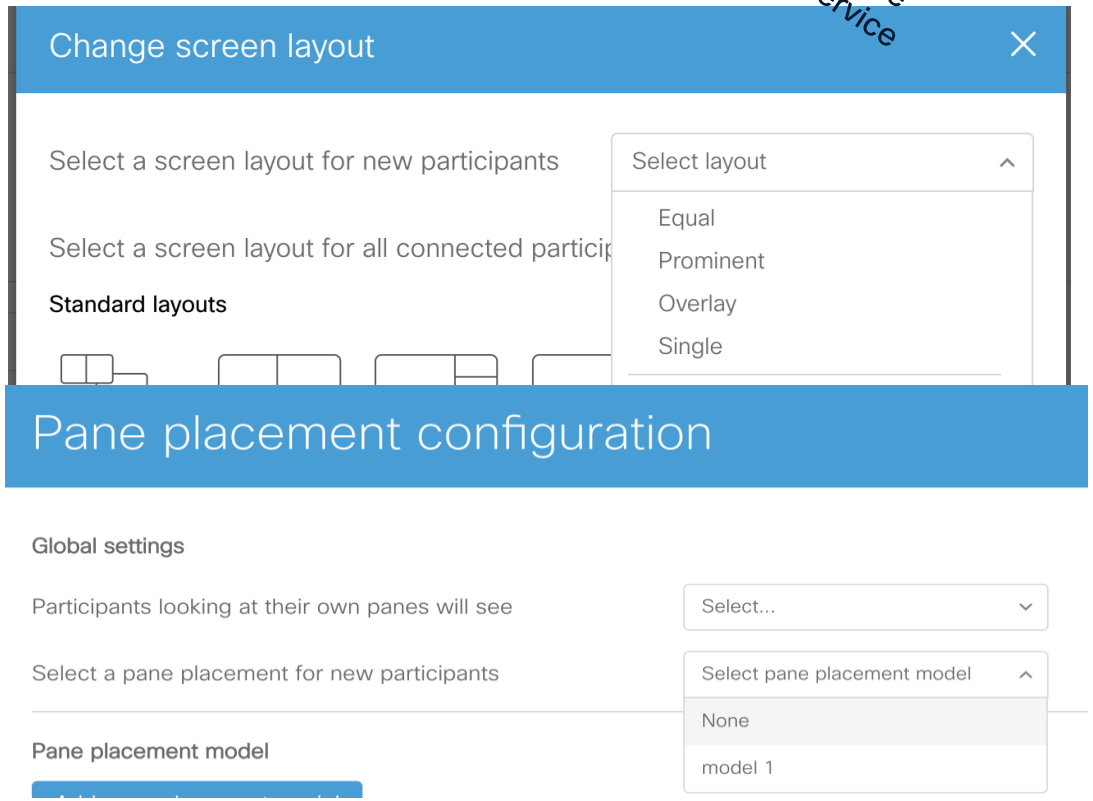
Layout/ Pane Placement for new participants

- For every new participant entering, Video Operators had to apply the meeting layout or pane placement again (CMM 3.10)
- With this feature, this is reduced to single configuration step
- Once set, any new participant entering the meeting will be given selected layout or pane placement
- If both are set, pane placement takes precedence



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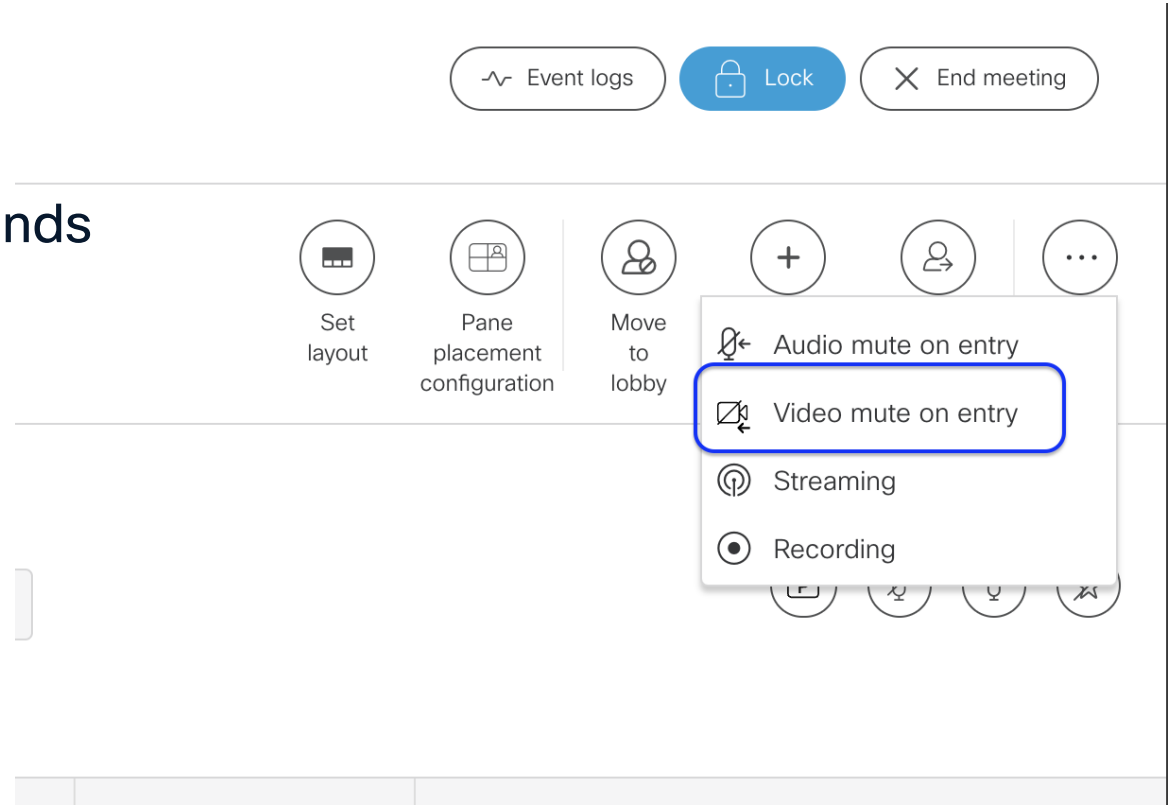
Video Mute On Entry

- Provides an option to Video Mute participants when they enter the meeting

Info:
Participant Video may be visible for milli-seconds when Video Mute setting gets applied



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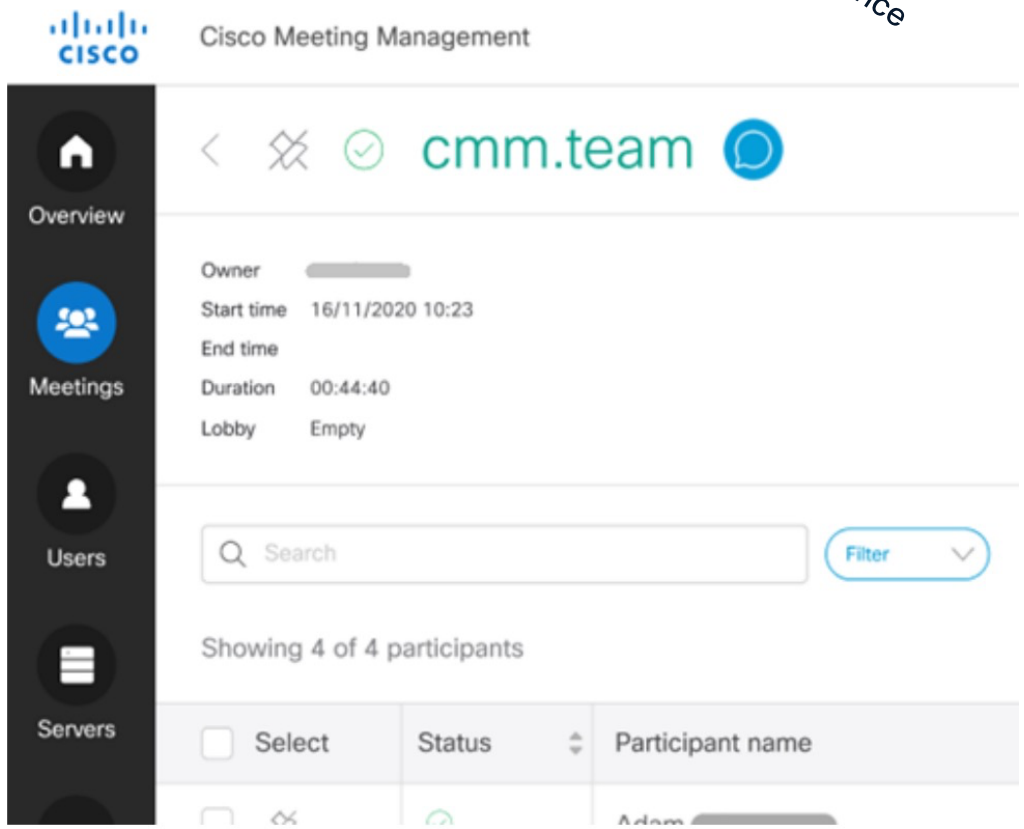
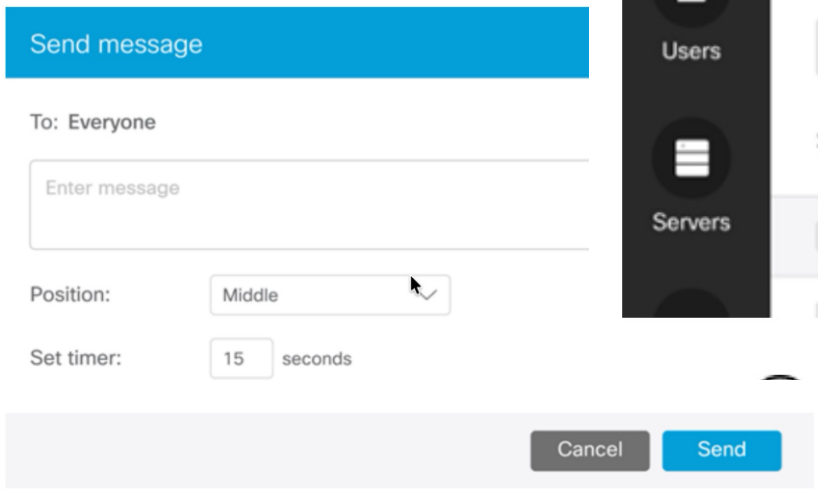
Message to all

- CMM Admins/Video Operators can now send messages to all participants in the meeting
- Select position and timer for the message
- Message size up to 200 characters





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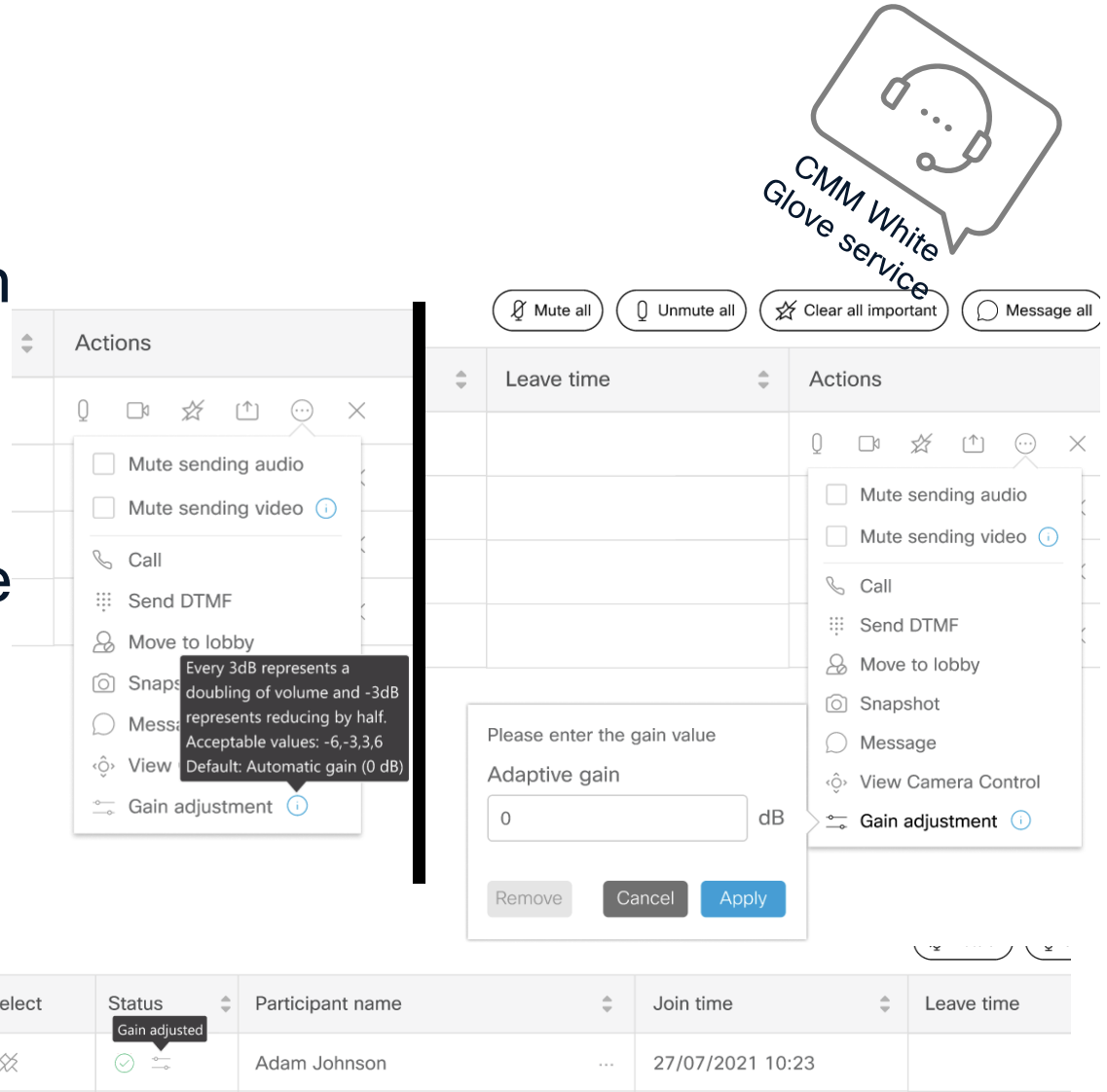
Participant Gain Adjustment

- CMM alongside CMS APIs will provide an ability to adjust gain (+/-) for each participant

- The gain controls how the CMS alters the audio stream received from the participant, and so affects how loud they sound to other conference participants

Allowed Gains:
+6 dB = Actual volume * 4
+3 dB = Actual volume * 2
0 dB = Automatic Gain (CMS default)
-3 dB = Actual volume / 2
+6 dB = Actual volume / 4



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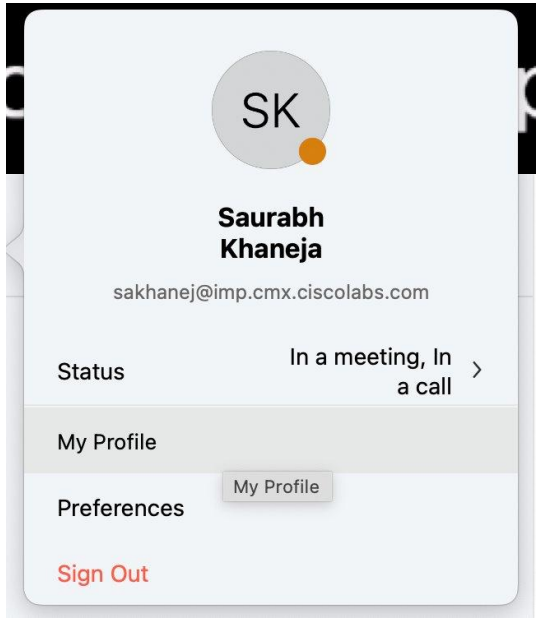
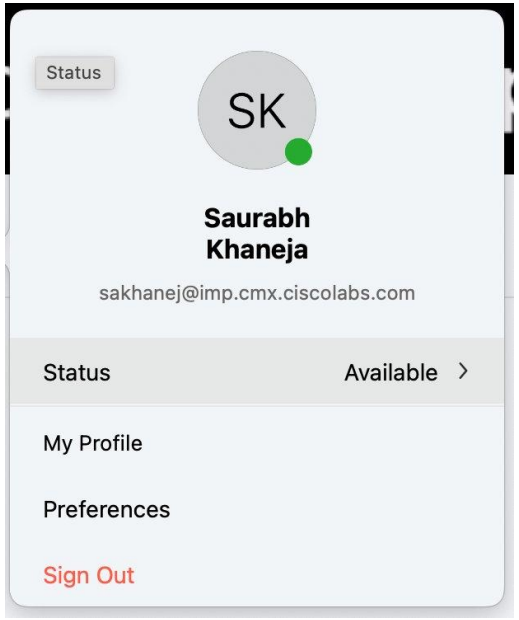
Cisco Meeting Server (CMS)/ WebApp

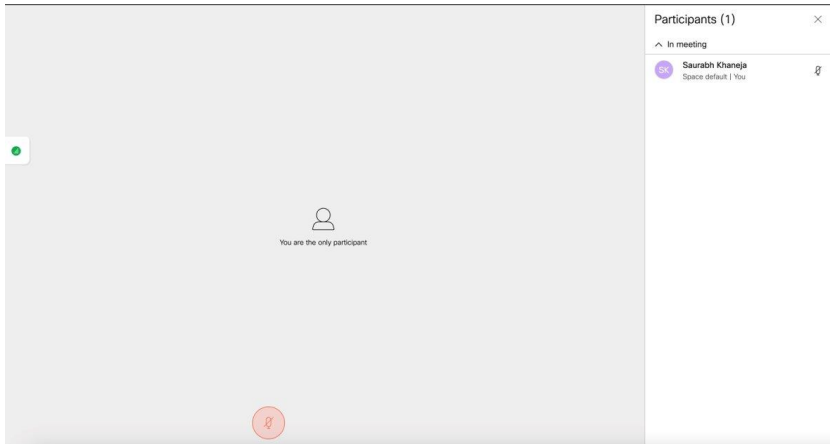
Highlights 3.10 to 3.12

Jabber Presence set when in meeting

- Integration between Jabber IM&P and CMS to update user presence when in CMS web app meeting
- CMS User ID must match Jabber JID to update presence
- Presence status set to „In a meeting, In a call“







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TLS 1.3 Support

- Improved Security, TLS 1.3 more secured than TLS 1.0, 1.1 and 1.2
- TLS 1.0 and 1.1 will soon be discontinued
- Supported across all components
  - Call bridge
  - Web bridge
  - Scheduler
  - Recorder and Streamer
  - Database
- Enabled by default, negotiated to TLS 1.2 if remote end does not support TLS 1.3

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AV1 Codec

- To improve screen sharing quality in low bandwidth scenario, web app now supports AV1 codec for content sharing
- Supported on all chromium-based browsers (Google Chrome/Edge)
- Codec can be enabled/disabled through callbridge MMP command
- Support for 1080p resolution over AV1

Content Share		
Jitter	-	64 ms
Packet Loss	0 %	0 %
Codec Negotiated	-	AV1
Resolution	-	720p
Frames per second	-	4

MMP Config Command:

cms01> callbridge av1 enable

Callbridge Restart needed

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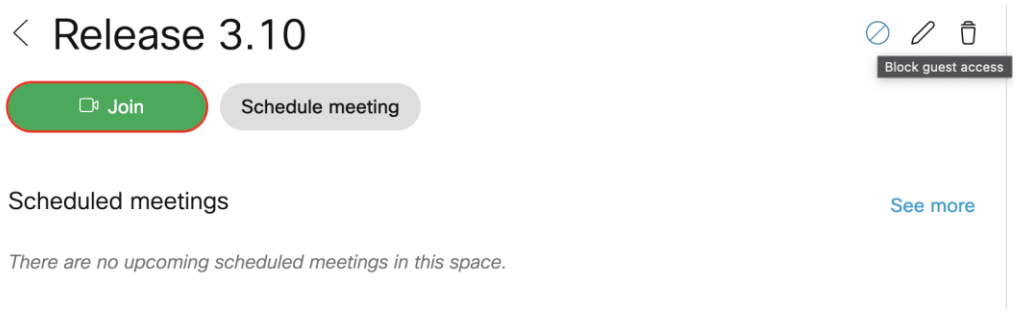
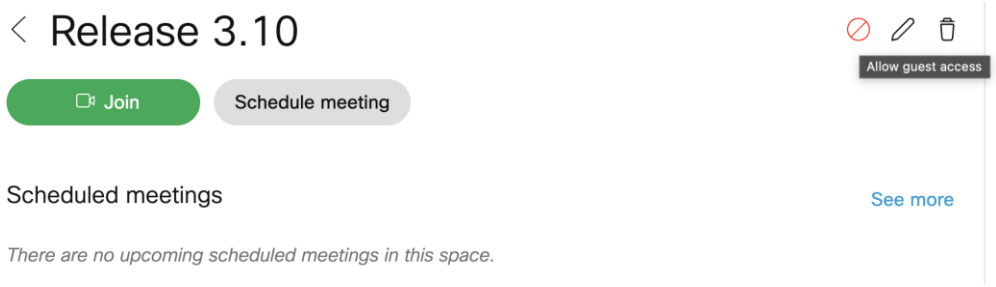
Space Access Control

- Provide ability for space owners to limit access to members of the space only
- This helps secure space access to “non-members”
- Web app provides a direct interface to limit the access
- Pre CMS 3.12 behavior:
  If applied, members cannot join the meeting directly via link. They have to log into web app and then ”Join” from space





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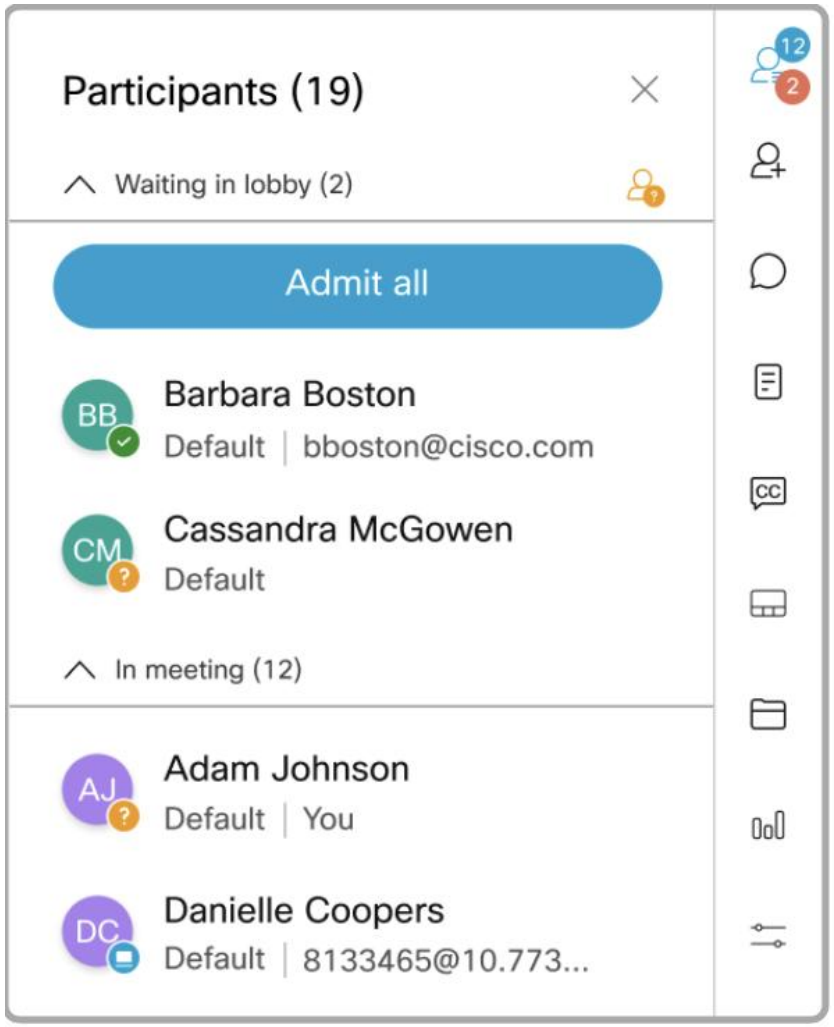
User Identification on WebApp

- Web app users can now visually distinguish a non-signed in, a signed in user or a SIP-user/ device from participant list of web app



Signed-in user

Non-signed-in user

SIP user

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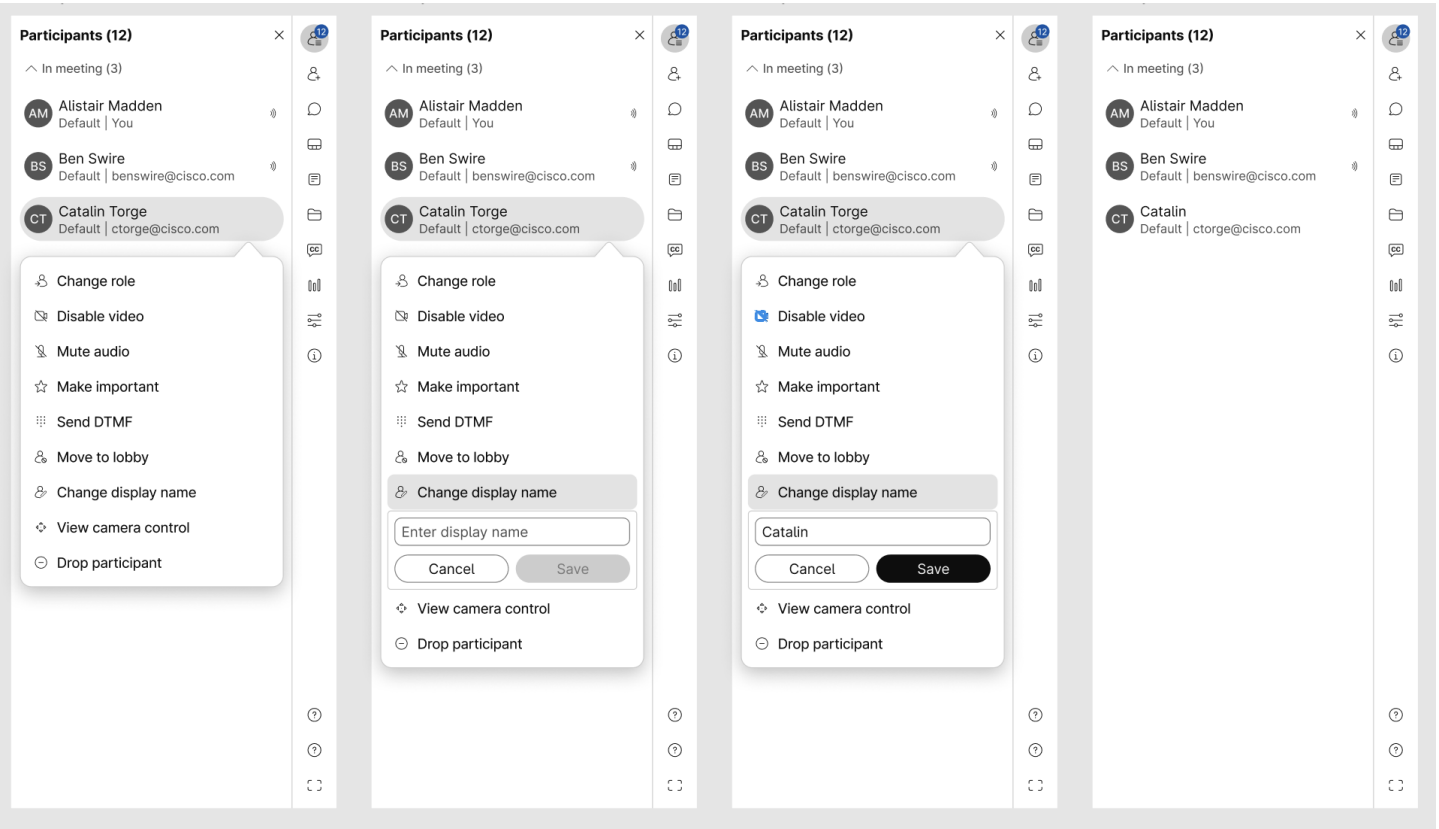
Rename Participants

- With appropriate permissions, meeting hosts can now change the display name for any participant from web app
- Participant whose name is changed will get notified



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CMS/ CMM 3.10

For Your Reference

Meeting Experience (CMS web app)

Improving Quality

- AV1 Codec for Screen Sharing (*GA*)

Engaging Experience

- Space access control on web app …
- Audio Notifications for web app participants
- Hindi language support (for Video stream)

Security & Interoperability

- Support for TLS1.3 …
- Support for Esxi 8.0
- Accessibility Improvements

Meeting Management

Management

- Per participant pane placement …
- Password security/enforcements
- Mute on entry (Audio/Video) …
- Space creation for Video Operators …
- Presentation controls from CMM…

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CMS/ CMM 3.11

For Your Reference

Meeting Experience (CMS web app)

Engaging Experience

- custom “help” links [Beta]
- Support for 44.1Khz sampling rate for streamer
- User Identification on web app …

Security & Interoperability

- Accessibility Improvements
- Encryption for Category-C/D Smart Accounts
- Secure storage for CMS 1K/VM
- TLS 1.3 support for scheduler

Meeting Management

Management

- Display participant IP address/Device type …
- Custom layout/Pane placement for new participants …
- Send messages to all participants …
- Participant rotation in pane placement …
- Far end camera control…
- Retain Audio/Video settings when moving participants …

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CMS/ CMM 3.12

For Your Reference

Meeting Experience (CMS & web app)

Engaging Experience

- Rename participants (web app) ✨
- Ability to save meeting chats ✨
- Webapp UX updates ✨
- Web app session timeout ✨
- Configuration for user Identification on webapp 🚀
- Direct Link join for NonMemberAccess coSpaces 🚀

Core & Interoperability

- creation Time for coSpaces ✨
- Audio gain at participant level ✨
- CMS-IMP Connection Resiliency 🚀
- Customized help links without license 🚀
- Secure storage enhancements 🚀

Meeting Management

Management

- Participant audio gain adjustment ✨
- Pane placement Usability Improvements 🚀

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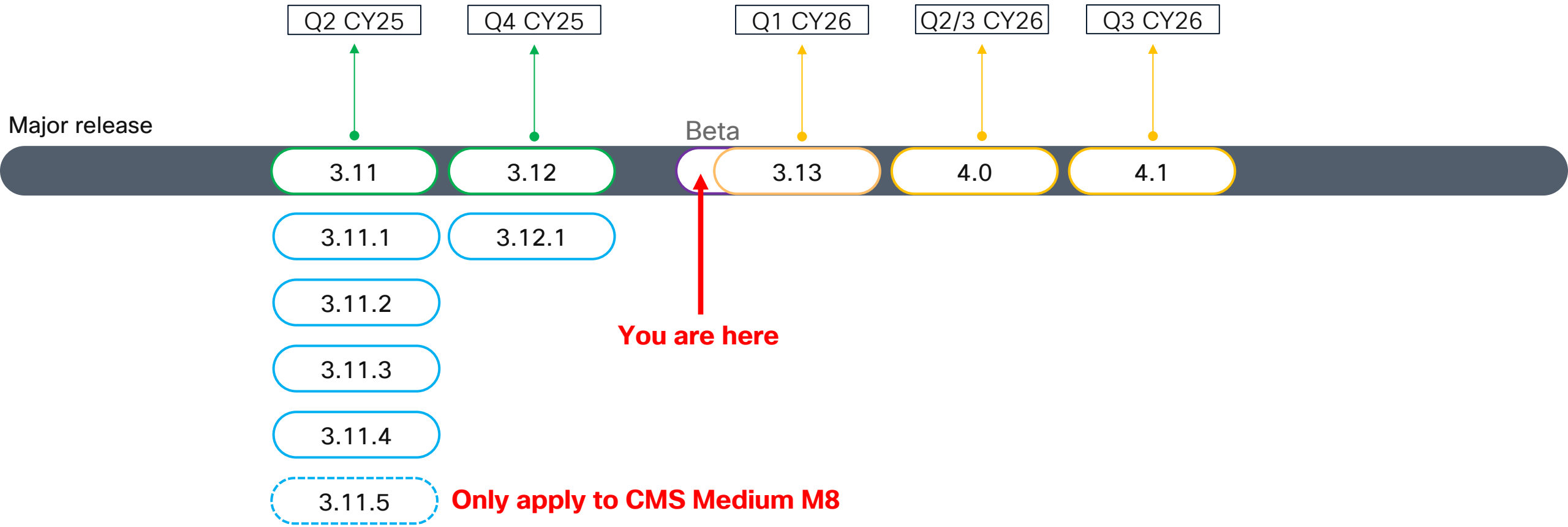
Future Releases



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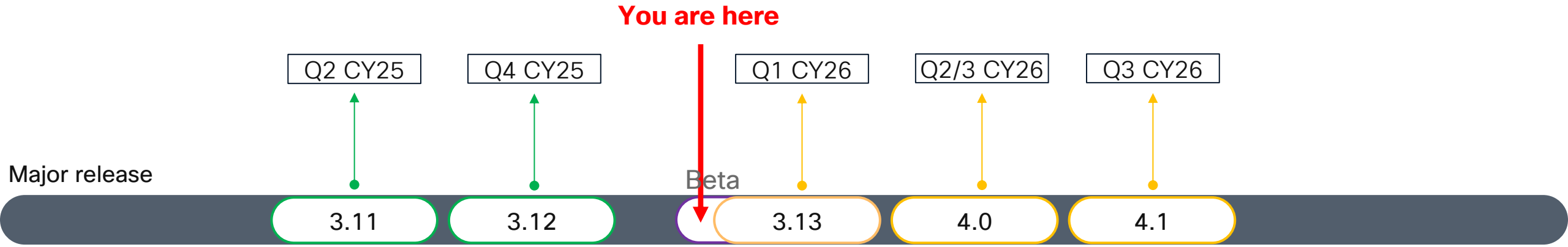
Future Releases



Deprecation Note:

CMS 3.13 will be the final release in 3.x series with SfB support.
CMS 4.0 and ongoing will not include native SfB gateway support

CMS 3.13 will be the final release in 3.x series with local license mode
CMS 4.0 and ongoing will support Smart Licensing with all previously mentioned modes (online, SLR & PLR)

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03 – Hardware

CMS EoS Hardware

- CMS 1000 M6 EoS Announcement
  https://www.cisco.com/c/en/us/products/collateral/conferencing/meeting-server/meeting-server-1000-m6-eol.html

  Announcement date: 16. June 2025
  End of Support: 30. Sep. 2030
  Replacement: Cisco Meeting Server M7 Small

- CMS 2000 M6 EoS Announcement
  https://www.cisco.com/c/en/us/products/collateral/conferencing/meeting-server/meeting-server-2000-m6-eol.html

  Announcement date: 01. Oct. 2025
  End of Support: 31. Dec. 2030
  Replacement: no direct replacement

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CMS Hardware Architecture

Simplify Architecture and Deployment

CMS M7 Small

CMS M8 Medium

→ Simplification of architecture and deployment

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CMS Hardware Architecture

Simplify Architecture and Deployment

Component	CMS 2K	CMS 1K/ virtualized
Call Bridge	available	available
Web Bridge 3	available	available
Database	available	available
Scheduler	available	available
TURN Server	not available	available
Recorder	not available	available
Uploader	not available	available
Streamer	not available	available
SNMP MIB	not available	available

Component	All deployments
Call Bridge	available
Web Bridge 3	available
Database	available
Scheduler	available
TURN Server	available
Recorder	available
Uploader	available
Streamer	available
SNMP MIB	available

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CMS Hardware performance

Appliance Model	Video Resolution	Port Capacity
CMS Small M7	1080p60	60
	1080p30	120
	720p30	240
	SD	480
	Audio Calls	3000
CMS Medium M8*	1080p60	150
	1080p30	225
	720p30	450
	SD	850
	Audio Calls	3000

* Capacitiy increase expected with CMS 4.x release

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General Collaboration Hypervisor Strategy

1

Stay On VMware

Hypervisor

vmware by Broadcom

Hardware

Existing Hardware

Deployment

Available Today

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General Collaboration Hypervisor Strategy

	1 Stay On VMware	2 Go to Webex Cloud
Hypervisor	vmware by Broadcom	webex by CISCO
Hardware	Existing Hardware	
Deployment	Available Today	Available Today

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General Collaboration Hypervisor Strategy

	1 Stay On VMware	2 Go to Webex Cloud	3 Cisco Hypervisor
Hypervisor	vmware by Broadcom	webex by cisco	cisco
Hardware	Existing Hardware		cisco **Selected Cisco Hardware** Servers – BE6K/7K (UCS-C Appliance) M5/M6, M7 Later CE1400V M7
Deployment			
	Available Today	**Available Today**	**Q1-Q4 CY26**

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General Collaboration Hypervisor Strategy

	1 Stay On VMware	2 Go to Webex Cloud	3 Cisco Hypervisor	4 Nutanix
Hypervisor	vmware by Broadcom	webex by cisco	cisco	Nutanix NCI AHV, AOS, Prism
Hardware	Existing Hardware		cisco **Selected Cisco Hardware** Servers – BE6K/7K (UCS-C Appliance) M5/M6, M7 Later CE1400V M7	cisco Cisco Compute Hyperconverged Servers - HCI/UCS-C M6/M7 HCI-X/UCS-X M7
Deployment	**Available Today**	**Available Today**	**Q1-Q4 CY26**	**Q1-Q4 CY26**

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CMS Hypervisor Strategy

1

Stay On VMware

Application	CMM/ CMS
Hypervisor	vmware by Broadcom
Hardware	Spec-based Hardware
Deployment	

Available Today

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CMS Hypervisor Strategy

	1 Stay On VMware	4 Nutanix
Application	CMM/ CMS	CMM/ CMS 3.13 onwards
Hypervisor	vmware by Broadcom	Nutanix NCI AHV, AOS, Prism
Hardware	Spec-based Hardware	Cisco Compute Hyperconverged Servers - HCI/UCS-C M6/M7 HCI-X/UCS-X M7
Deployment	Available Today	Q1/Q2 CY26

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CMS Hypervisor Strategy

	1 Stay On VMware	3 Cisco Hypervisor	4 Nutanix
Application	CMM/ CMS	CMM 4.0 onwards	CMM/ CMS 3.13 onwards
Hypervisor	vmware by Broadcom	CISCO	Nutanix NCI AHV, AOS, Prism
Hardware	Spec-based Hardware	CISCO **Selected Cisco Hardware** Servers – BE6K/7K M7+ (UCS-C Appliance)	CISCO Cisco Compute Hyperconverged Servers - HCI/UCS-C M6/M7 HCI-X/UCS-X M7
Deployment	**Available Today**	**Q3 CY26**	**Q1/Q2 CY26**

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CMS Hypervisor Strategy

	1 Stay On VMware	2 Bare Metal	3 Cisco Hypervisor	4 Nutanix
Application	CMM/ CMS	CMS 4.0 onwards	CMM 4.0 onwards	CMM/ CMS 3.13 onwards
Hypervisor	vmware by Broadcom	**Not Applicable**	CISCO	Nutanix NCI **AHV, AOS, Prism**
Hardware	Spec-based Hardware	CISCO **Selected Cisco Hardware** Servers – CMS Small M7, CMS Medium M8	CISCO **Selected Cisco Hardware** Servers – BE6K/7K M7+ (UCS-C Appliance)	CISCO Cisco Compute Hyperconverged Servers - HCI/UCS-C M6/M7 HCI-X/UCS-X M7
Deployment	**Available Today**	**Q3 CY26**	**Q3 CY26**	**Q1/Q2 CY26**

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04 – TMS is passing away

TMS is passing away

- EoS Announcement:
  https://www.cisco.com/c/en/us/products/collateral/conferencing/telepresence-management-suite-tms/telepresence-management-system-eol.html

- End of Software Maintenance:
  May 2026

- **End of Support**
  May 2027

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Plan ahead....

VQ COMMUNICATIONS

mividas

SYNERGY SKY

prognosis

CISCO DEVNET

LEARN CODE INSPIRE CONNECT

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05 – What’s next?

Delivering a seamless, reliable meeting platform that sets new standards for quality and stability, with intuitive, AI-powered experiences inspired by Webex.

Vision & Strategy

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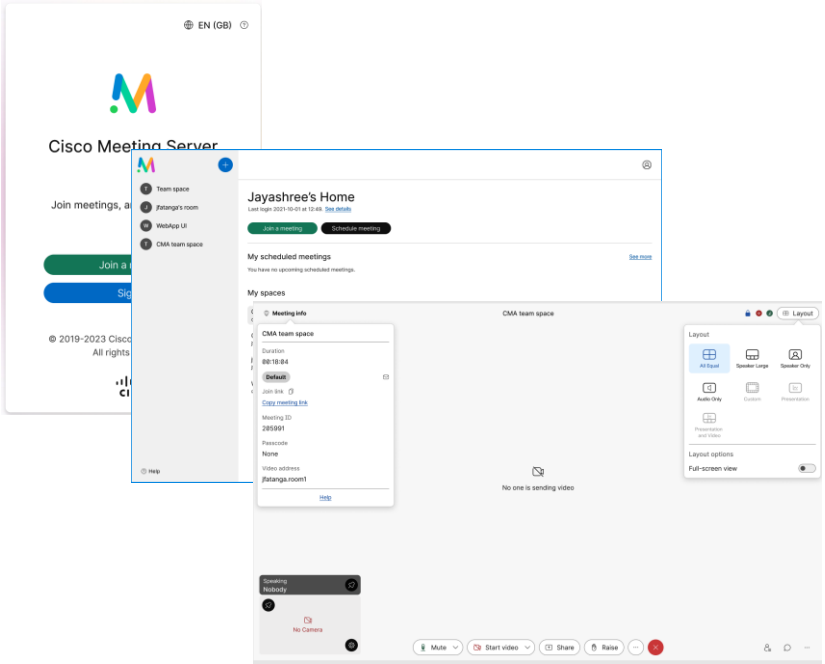
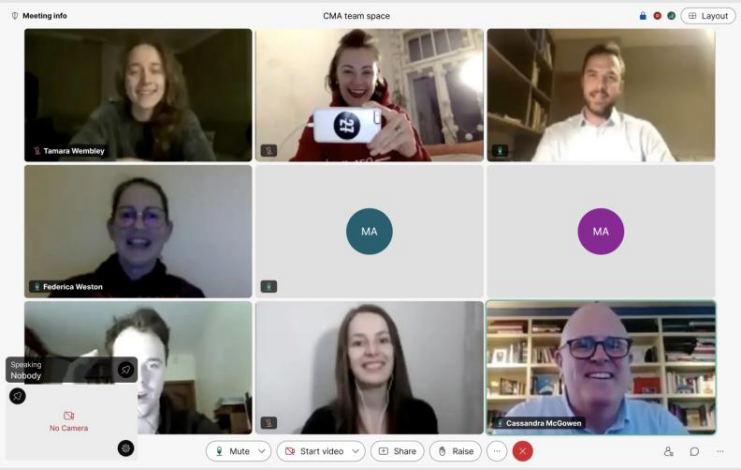
CMS 4.0 & Forward looking

Improving user experience across





A Fresh Look (Inspired by Webex)

- Join experience updates
- In meeting updates

Improved Quality and Stability

- Webex Media Framework: Revamped for CMS
- Media Resiliency with TWCC and MARI
- Video layouts (just like Webex)

AI Powered

- Noise Removal (Client and Sever side)
- Improved background blur

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CMS 4.x Callouts

- **Media Framework**
  - Webex Media framework replicated on CMS to provide similar meeting quality as webex.
  - Introduces latest resiliency protocols for both web app and SIP endpoints
  - Enhanced MARI/TWCC for web app
  - FEC and RTX used when SIP devices support them

- **No more legacy codecs**
  - Removal of legacy codecs like CN, H263+.
  - Focused investment on H264/AV1 for Video, Opus for Audio and AV1 for content share

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CMS 4.x Callouts

- **Refreshed UI**
  - Web app meeting experience just like Webex

- **Improved Security**
  - TLS1.2 default transport mechanism.
  - Discontinue TLS 1.0/1.1
  - Support for TLS1.3 for all services
  - UEFI boot and secure boot and storage
  - Latest cryptographic ciphers

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CMS 4.x Callouts

- **There is one more thing!**

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Webex Private AI

Powered by Cisco AI PODs

Realtime Closed Captions Demo

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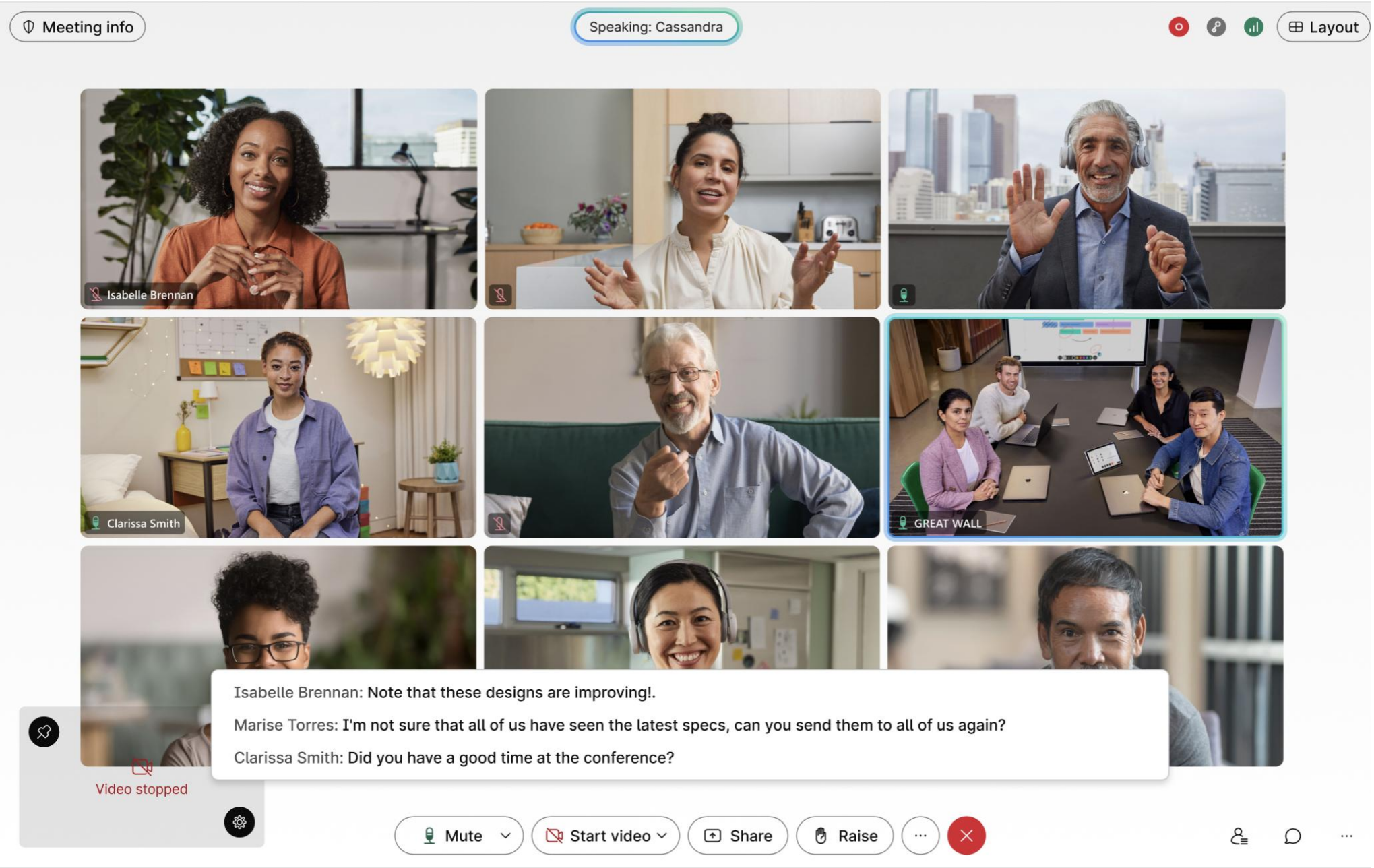

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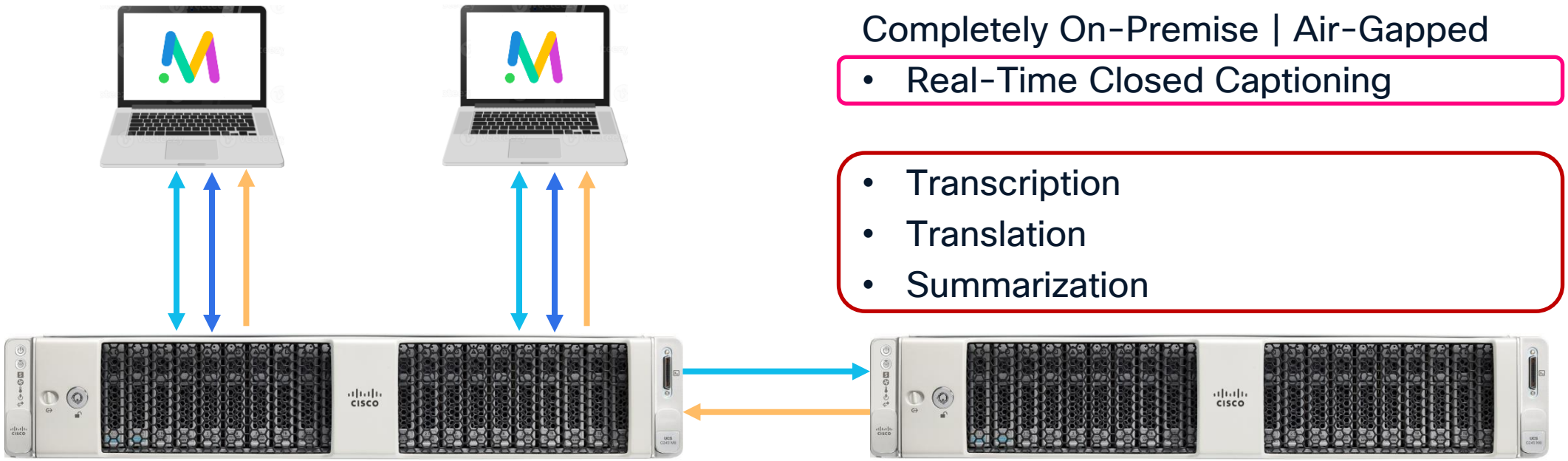
CMS Meeting with AI POD On-Premise

Audio
Video
Transcriptions, Summaries



Completely On-Premise | Air-Gapped

- Real-Time Closed Captioning

Committed

- Transcription
- Translation
- Summarization

Future

CMS Application
CMS Medium/Small + CMS VM + CMS 2K

Webex Private AI POD
UCS C240 M8 Rack Server w/ NVIDIA RTX Pro 6000 GPU

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Webex Private AI on Cisco AI POD

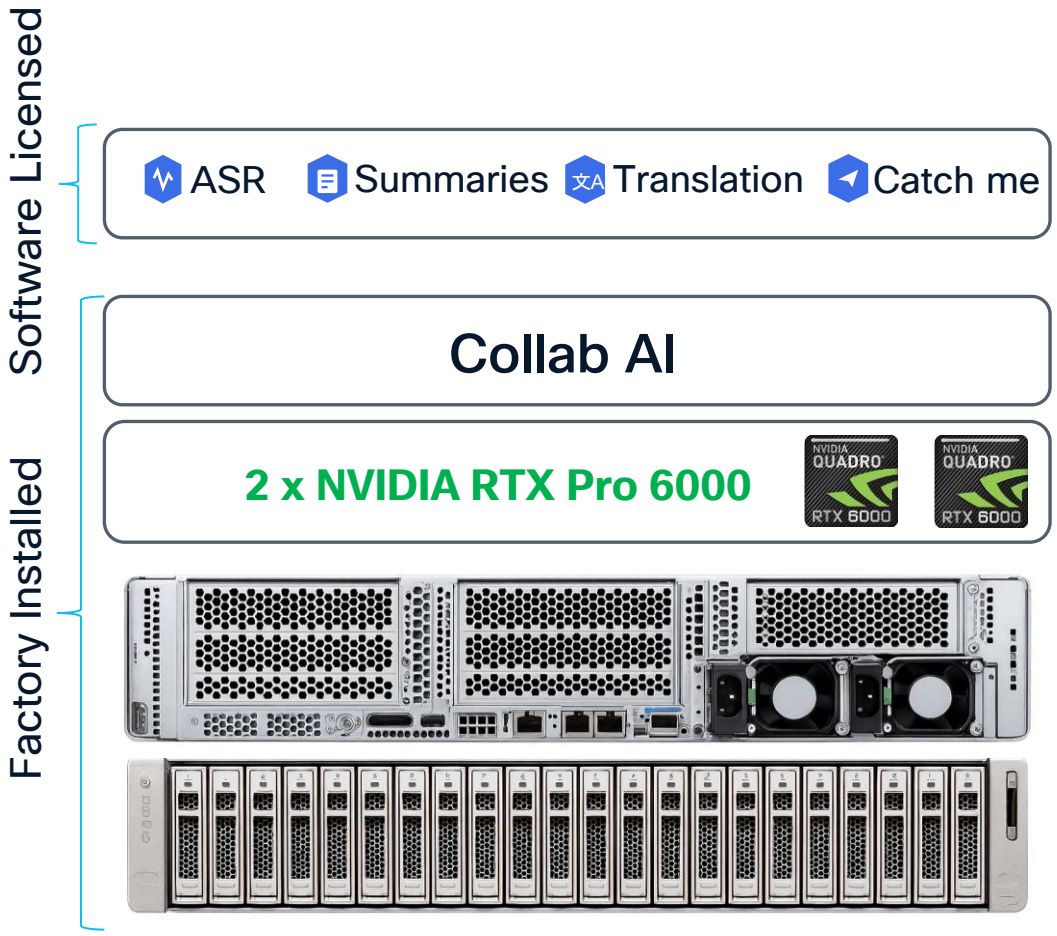
Purpose-Built 2RU Form Factor AI Hardware

Built to provide introductory AI capabilities to power meeting experiences on Cisco meeting server/Video Mesh.

AI Capabilities (To be supported)

- Real Time Transcriptions (Day 1)
- Batch Transcriptions
- Batch Summaries, Action items
- Real Time Summaries (a.k.a. “Catch me up”)

- We will be publishing capacity estimates for each capabilities running on version 1.0 reference hardware
- Customers can scale up their deployments by adding more nodes



UCS C240 M8 Rack Server AI POD

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Software Licensing

- Getting Started: Platform will offer **60-day trial mode** with no CAP on usage
- Simplified Licensing for predictable consumption
  - **Real Time Assistant License** → Covers all AI features that could be used in an "**on-going**" meeting/call.
  - **On-Demand Assistant License** → Covers all AI features that could be used for "**post**" meeting/call.

Still work in progress

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Do you want to know more?

Visit the showcase for a demo

- Feature-Proof Workspaces: Supercharge Collaboration with AI
- AI-Ready Data Center: Accelerate AI Deployments

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06 – Conclusion

Key Takeaways

- Cisco Meeting Server is more alive than ever
- We’re modernizing the User Experience
- Bringing advanced features and AI capabilities
- Cisco has a strong commitment and strategy for CMS and the other on-premise collaboration products

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07 – References

Other related Cisco Live 2026 Sessions

- [LTRCOL-2574] - A Hands-on Approach to Automation with Cisco Collaboration APIs
- [BRKCOL-2076] - Cisco Unified Communications Manager (CUCM) Platform Update for On Premise Calling and Webex Calling Dedicated Instance (DI)
- [BRKCOL-2125] - Expressway Architectural Update
- [BRKCOL-2143] - Troubleshooting the Session Initiation Protocol (SIP)
- [BRKCOL-2166] - Understanding how Provision and Single Sign-On works for Collaboration
- [BRKCOL-2226] - Unified CM Security Architecture: Technical Foundations for Deployment

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References

- Cisco Meeting Server 3.12, Single Split Server Deployment Guide
  https://www.cisco.com/c/dam/en/us/td/docs/conferencing/ciscoMeetingServer/Deployment_Guide/Version-3-12/Cisco-Meeting-Server-3-12-Single-Split-Server-Deployment.pdf
- Cisco Meeting Server 3.12 Scalability and Resilience Deployment Guide
  https://www.cisco.com/c/dam/en/us/td/docs/conferencing/ciscoMeetingServer/Deployment_Guide/Version-3-12/Cisco-Meeting-Server-3-12-Scalable-and-Resilient-Deployment.pdf
- Cisco Meeting Server 3.12 with Cisco Unified Communications Manager Deployment Guide
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