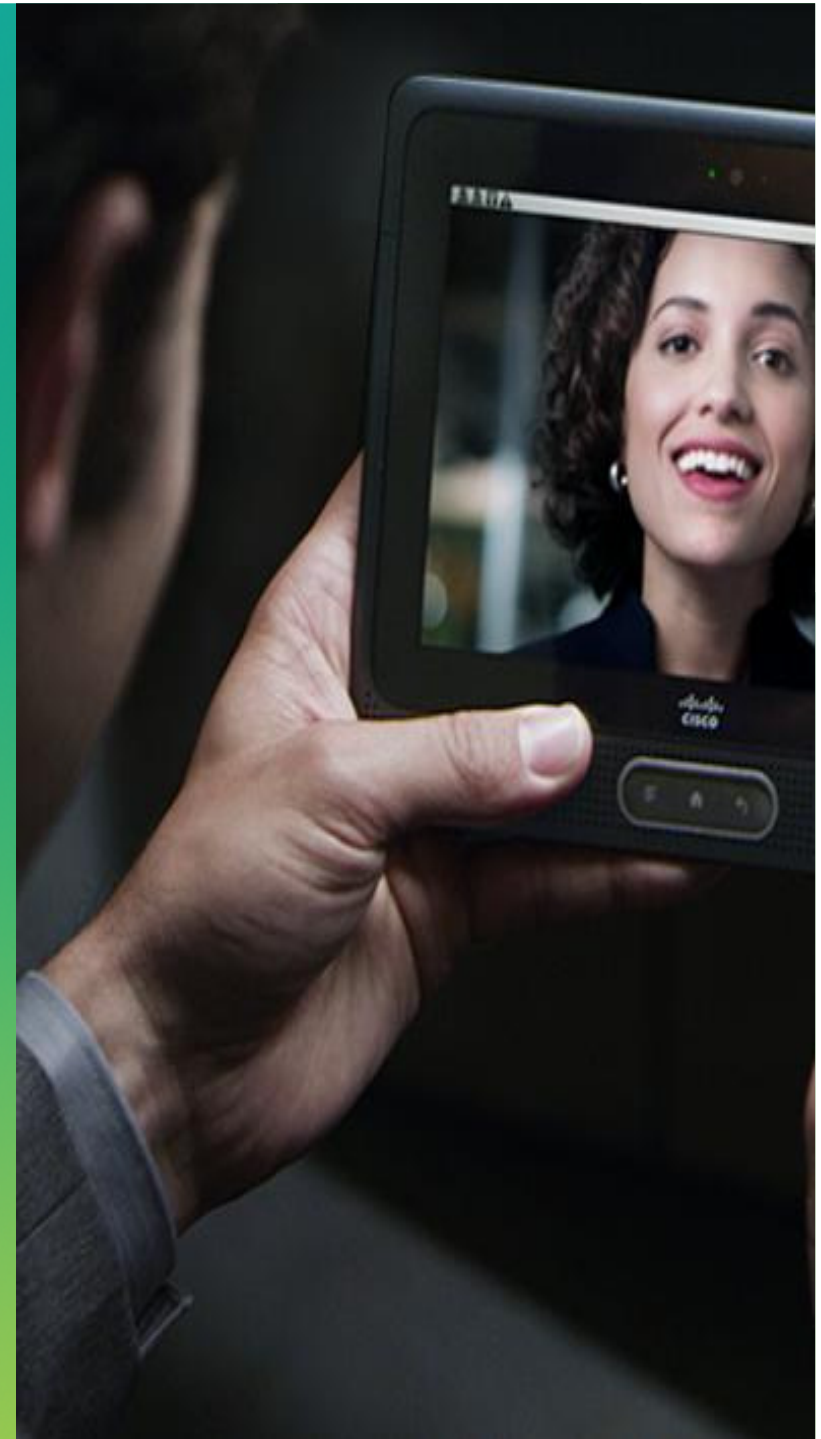




Introducing Cisco Unified Communications System Release 9.0

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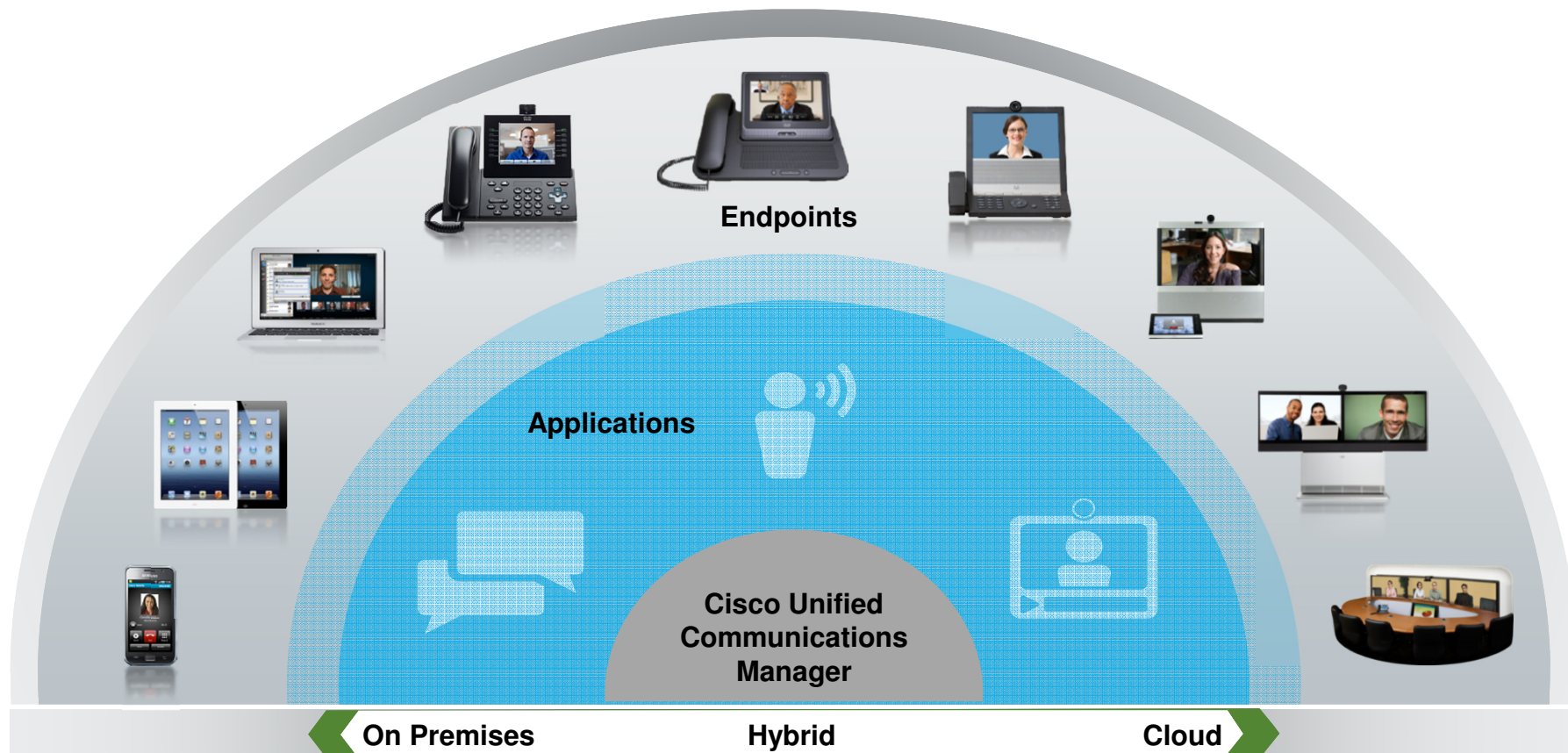
Cisco Collaboration

Comprehensive Portfolio of Applications, Solutions, and Services



Cisco Unified Communications

The Heart of Cisco Collaboration

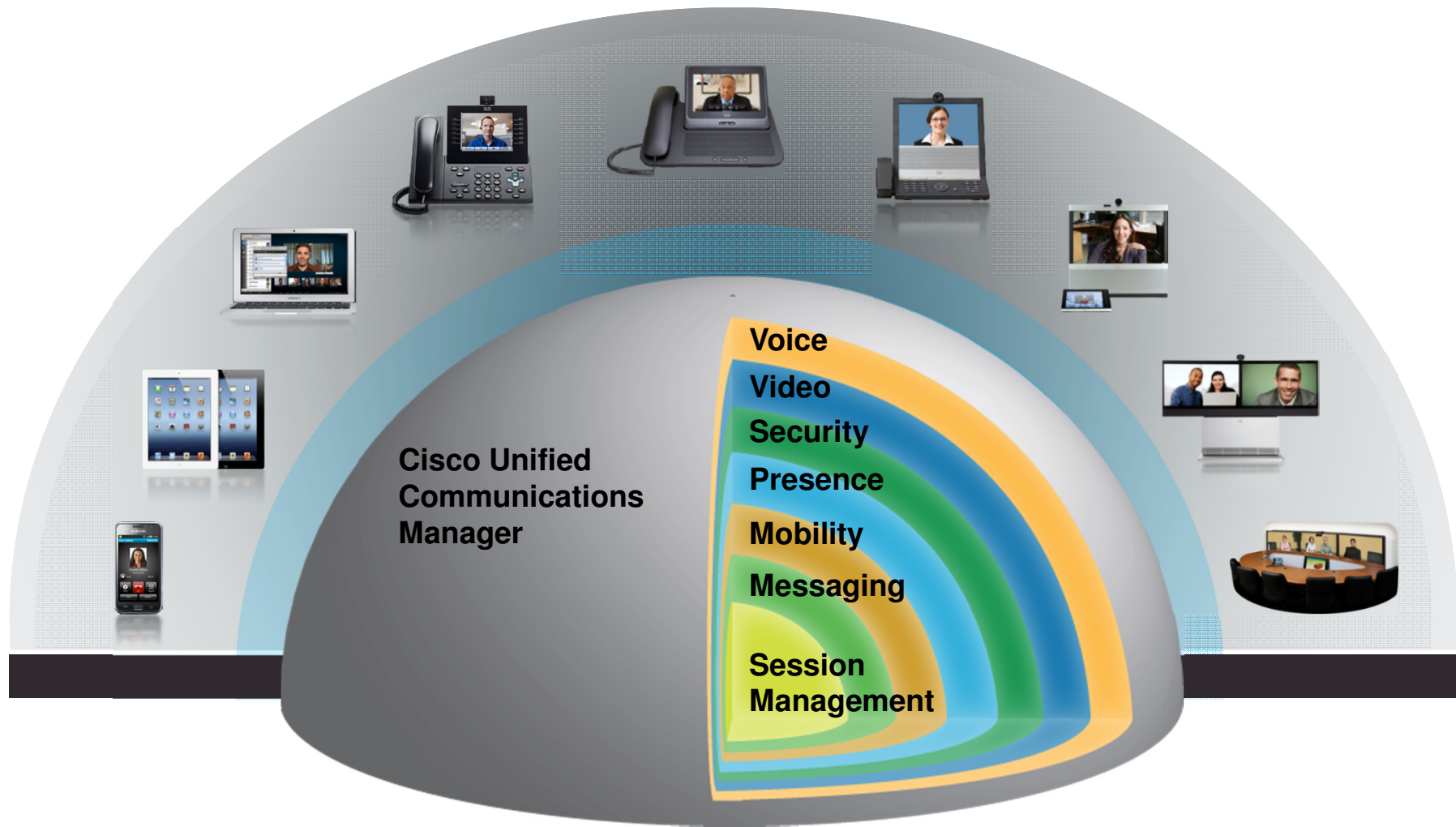




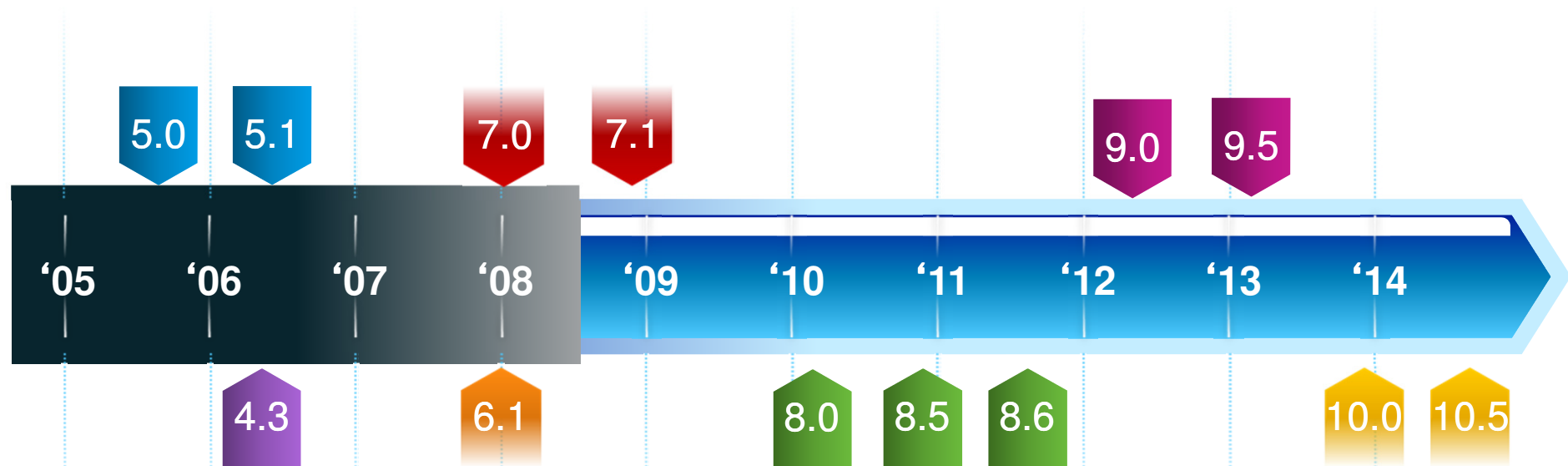
CUCM 9.0 Update

Cisco Unified Communications Manager

Uniting applications and endpoints



Cisco Unified Communications Manager Release Roadmap

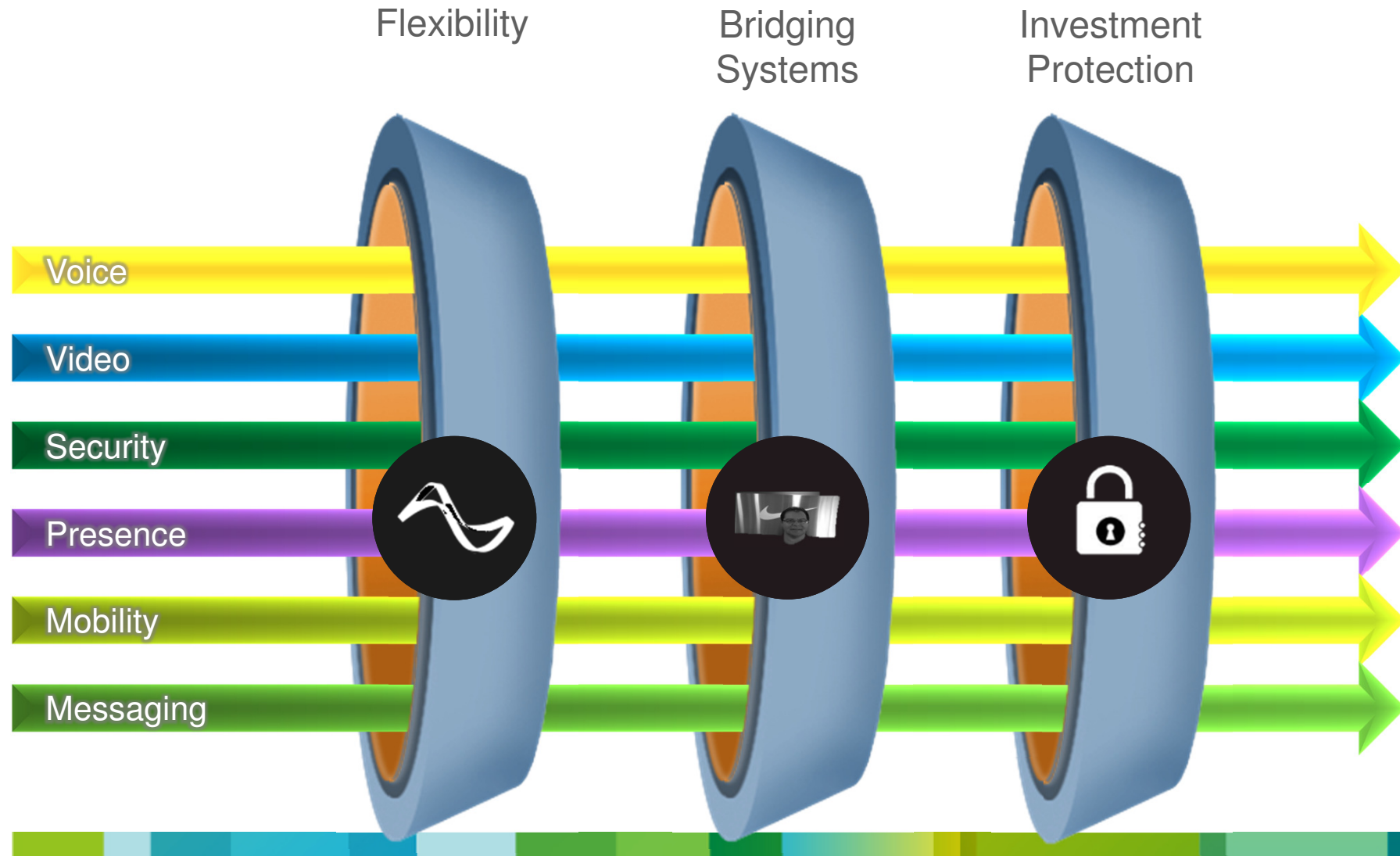


Long Life Releases
8.6(2) and 9.5(2)



Cisco Unified Communications 9.0

Key Benefits



Unified CM 9.x Features

Continued Evolution in Unified Collaboration

Video

Single Call Control Voice and Video

- URI Dialing
- Locations CAC for complex networks
- SIP Normalization and Transparency - Line Side
- RTCP and presentation channel
- iX Channel support for better interworking with conf infrastructure

Native IM/Presence

Voice, Video, IM, Presence from a single cluster.

- Common Collateral/Ordering
- Reduce Operating Expense with common
 - Install
 - Administration End user/Device
 - Licensing
- Common Documentation and TAC support

Unified CM 9.x Features

Continued Evolution in Unified Collaboration

Licensing

Licensing Simplification and alignment with User Model

- Simplification
- Alignment with UCL/CUWL
- Better reporting and migration
- More flexibility with overages.
- Enterprise wide licensing

Mobility

Improved Mobility User Experience with video

- 2-way video support over WiFi, 3G/4G (via VPN)
- Video support for SNR
- Video session handoff
- TLS/SRTP and Hunt Group Logout
- DVO VM Detection
- Simplified Mobile Provisioning

Unified CM 9.x Features

Deployment Options: Hosted, Enterprise, and Mid Market

Hosted service

IMS interface for Mobile phone integration. TCO reduction.

- Backup and Restore timing and APIs
- IMS ISC Interface - CF, MWI, CW, CB, Hold, Resume, Conf etc
- Cisco Mobile Client on the top of IMS network
- AXL Change Notification

Session Management Edition

Deliver applications to 3rd party/PBX phones. Deployment Simplification.

- Cisco “Extend and Connect” – CTI application for PSTN and 3rd party TDM/IP phones
- Global Deployments – Single cluster spans multiple continents.
- Custom codec preference list in region configuration and from SIP devices

Unified CM 9.x Features

Simplify your network and lower your TCO

Platform

More Virtualization flexibility and tools

- VMware vSphere 5.0
- Lower-cost/complexity VMware vSphere
- New Intel CPU and UCS support (E7 at 2.4+ GHz UCS M2)
- RH 5.7 and Tomcat 7.0
- Upgrade Orchestration
- Virtualized IME

Directory Enhancements

- Cluster Discovery
- Service Discovery
- UDS API Enhancement
- Flex Fields
- Manual + Automatic directory population

Unified CM 9.x Features

Continued Evolution in Unified Collaboration

Some key UCM Features

- Secure Cross Cluster Extension Mobility
- Pause in Speed Dials
- User page/client Improvements
- Native Queuing
- AS SIP Line
- Connected Number support for Hunt Pilot
- G.Clear
- SIP Redirection Counter

More UCM Features

- Layer 2 location discovery of VXC-based endpoints for E911
- Directory Improvements.
- RTCP through UCM for better
- Start/Stop Recording Key on the phone and apps
- E911 support for remote workers (for hardware IP phones; with framework for future client support)

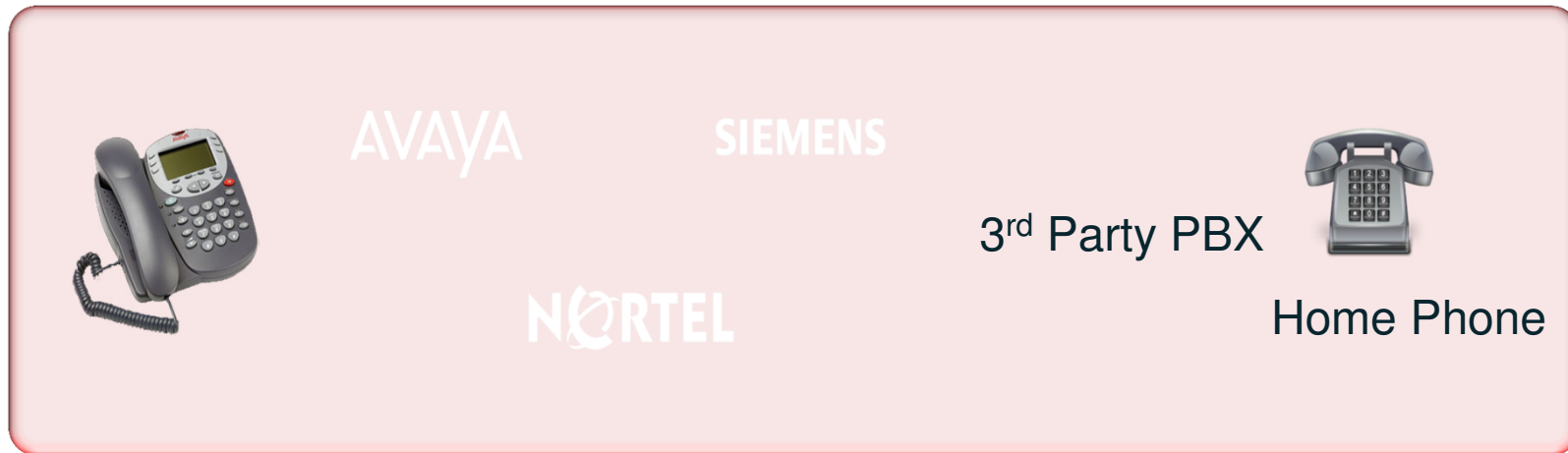
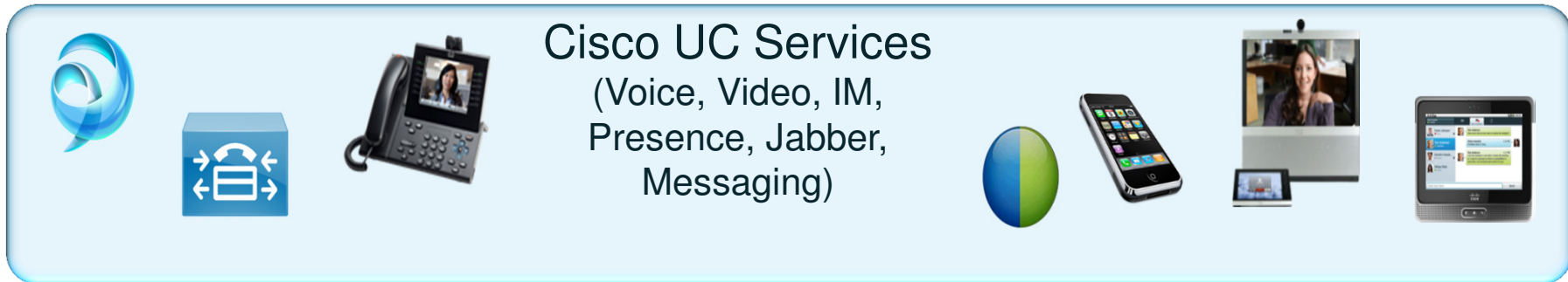
Enterprise License Manager (ELM):

Enterprise-wide management of all your UC licenses



- Simple, free (part of Unified CM 9.0)
- User license management, reporting, compliance
- Multiple applications/clusters
- Unified CM, Unity Connection, IM, Presence

Cisco Extend & Connect

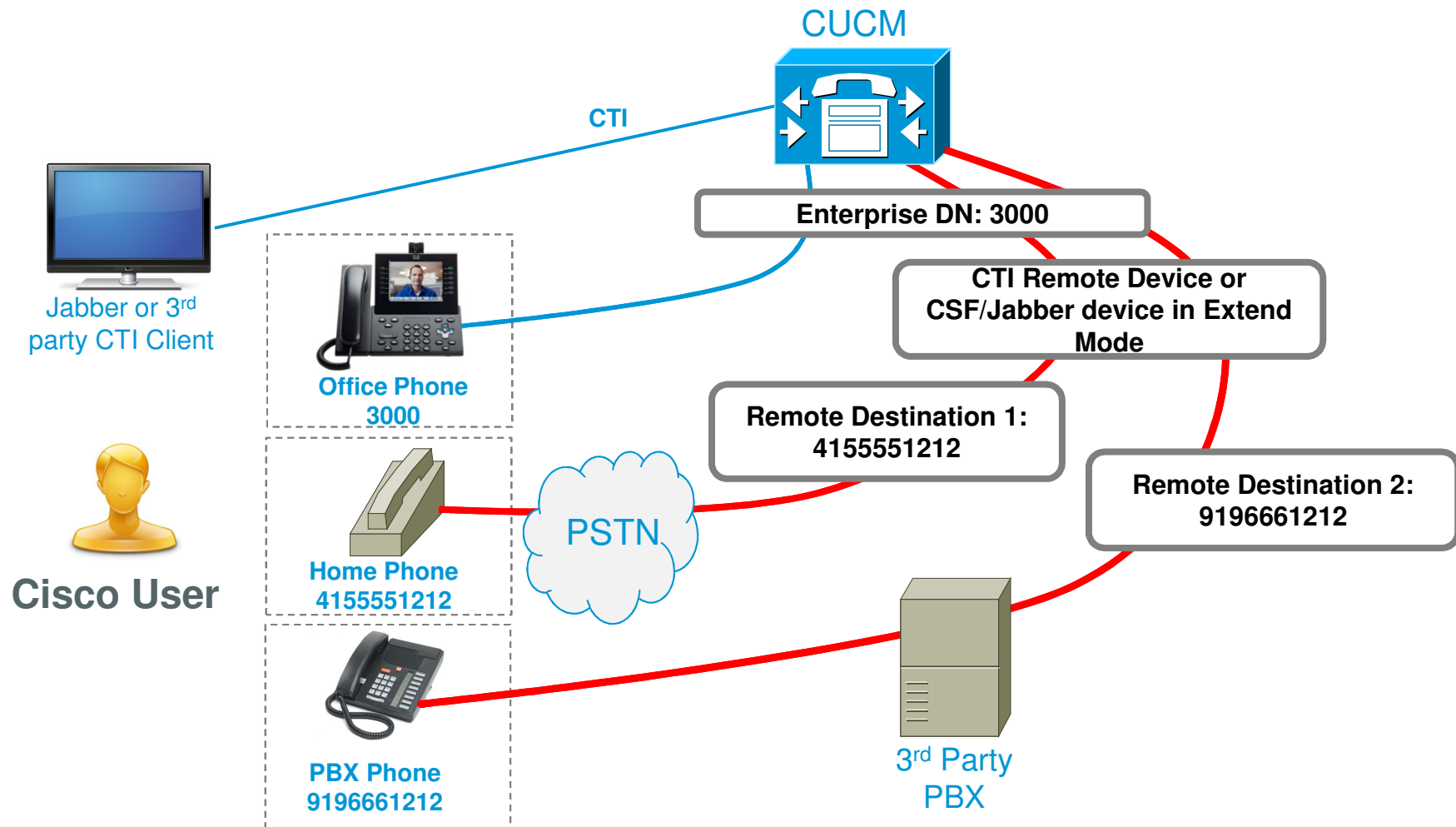


Cisco Extend & Connect

Extending Cisco UC throughout your infrastructure/enterprise



CUCM 9.0 - CTI Extend and Connect



CTI applications have limited monitoring and call control capabilities for remote destinations

Cisco Extend and Connect

Deployment scenario

- 1) Contact Center agent working from home
 - low bandwidth at house, VOIP not an option (hard phone or soft client) and cell phone is not an option
 - Extend connect sends call to home phone and CAD agent allows enterprise features needed for contact center agents
- 2) Use Cisco Unified Communications with legacy PBX
 - Customer has PBX under contract and not ready to move phones
 - Customer wants UC for IM, Chat and messaging, but phones on PBX
 - Extend Connect enables Jabber deployment for UC, but enterprise control of PBX phone (as remote device for Jabber)

New User Pages

- Two types of users
 - Core Users with one phone and one line
 - Users with multiple phones with one or more lines on each device.
- New User Page UI targeted towards core users



New User Pages

Unified Communications Manager User Options

Home | Contacts | Directory | Line Settings | Phone Settings | Services

Currently Selected Phone and Line

Select a Phone: SEP111111111111
Select a Number: 1111
Model: Cisco 7965
MAC Address: 111111111111

General Settings

☐ Forward all calls on line 1111

Phone Button Configurations

Button #	Button Type	Assignment
1	Line	1111
2	Line	1112
3	Speed Dial1	<input type="text"/>
4	Speed Dial2	<input type="text"/>
5	Speed Dial3	<input type="text"/>
6	Speed Dial4	<input type="text"/>

Save Reset

URI Dialing

Simplify your reachability

Any Addressing Scheme



Product
Manager
My Company

johns@mycompany.co
Email, Jabber ID/IM

John
Smith

408-555-1212

Office



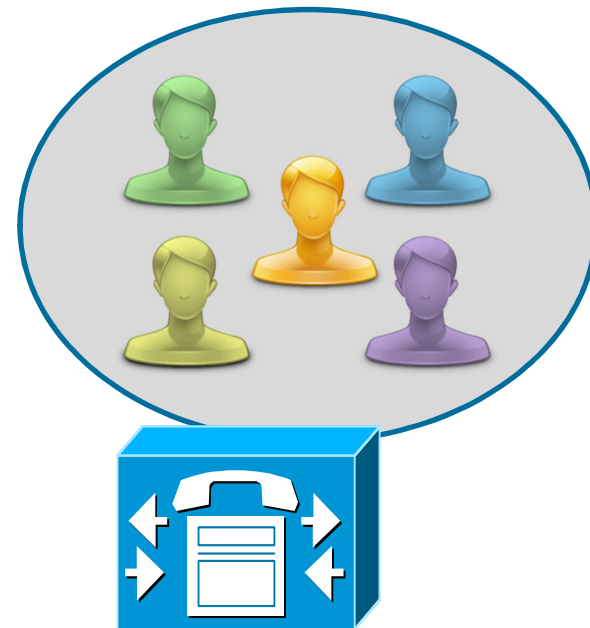
Native Queuing

- Hold hunt pilot callers while they wait for an employee to become available
- Play Announcements & Music in Queue
- Longest call waiting distribution
- View queue information on Cisco IP Phones
- Enhanced call detail records and monitoring tools

“Thank you for calling”

“Please hold a moment”

“Your call will be answered in the order in which it was received”



Unified CM Subscriber

Native Call Queuing

- Enables Hunt Pilot to queue callers
- Allow for redirection of calls based on different queue criteria
- Allow agents to participate in multiple queues
- Auto logout and call re-queue if agent does not answer
- Longest waiting call in all queues will be delivered first
- No 'post call' time or agent greeting options
- On phone 'Queue Status' display

Configuration

Native queuing

- Queuing options are configured for each Hunt Pilot
- Route callers to secondary numbers when maximum wait time, maximum callers in queue, and no members available conditions are met

Secondary numbers may be a simple DN, voicemail DN, shared line DN, or another Hunt Pilot DN (with or without queuing enabled)

- Play announcements by configuring a Music on Hold Audio or Fixed Audio Source

When music on hold is not configured queued callers will hear tone on hold.

- Add Hlog (login/logout) and Display Queue Statistics buttons to Cisco IP Phones

Native Call Queuing

Queueing

☒ Queue Calls

Network Hold MOH Source & Announcements QueueAudioSource [View Details](#)

Maximum Number of Callers Allowed in Queue* 32 (1-100)

When Queue is full:

- ☒ Disconnect the call
- ☐ Route the call to this destination

Full Queue Calling Search Space < None >

Maximum Wait Time in Queue* 900 (10 - 3600 seconds)

When maximum wait time is met:

- ☒ Disconnect the call
- ☐ Route the call to this destination

Maximum Wait Time Calling Search Space < None >

When no hunt members are logged in or registered:

- ☐ Disconnect the call
- ☒ Route the call to this destination

No hunt members logged in or registered Calling Search Space 601000 < None >

Native Call Queuing

The screenshot shows a configuration page for Native Call Queuing. It is divided into two main sections: 'Music On Hold Server Audio Source Information' and 'Announcement Settings'. The 'Announcement Settings' section contains several dropdown menus and a text input field. Two callout boxes with arrows point to specific elements: one points to the 'Initial Announcement' dropdown (labeled 'Can be customer uploaded announcements'), and another points to the 'Initial Announcement Played*' dropdown (labeled 'Choices: -Always -Only for queued Calls').

Music On Hold Server Audio Source Information

MOH Audio Stream Number* 3

MOH Audio Source File

MOH Audio Source Name*

☐ Allow Multi-casting

Announcement Settings

Initial Announcement [View Details](#)

Initial Announcement Played*

Periodic Announcement [View Details](#)

Periodic Announcement Interval* (10 - 300 seconds)

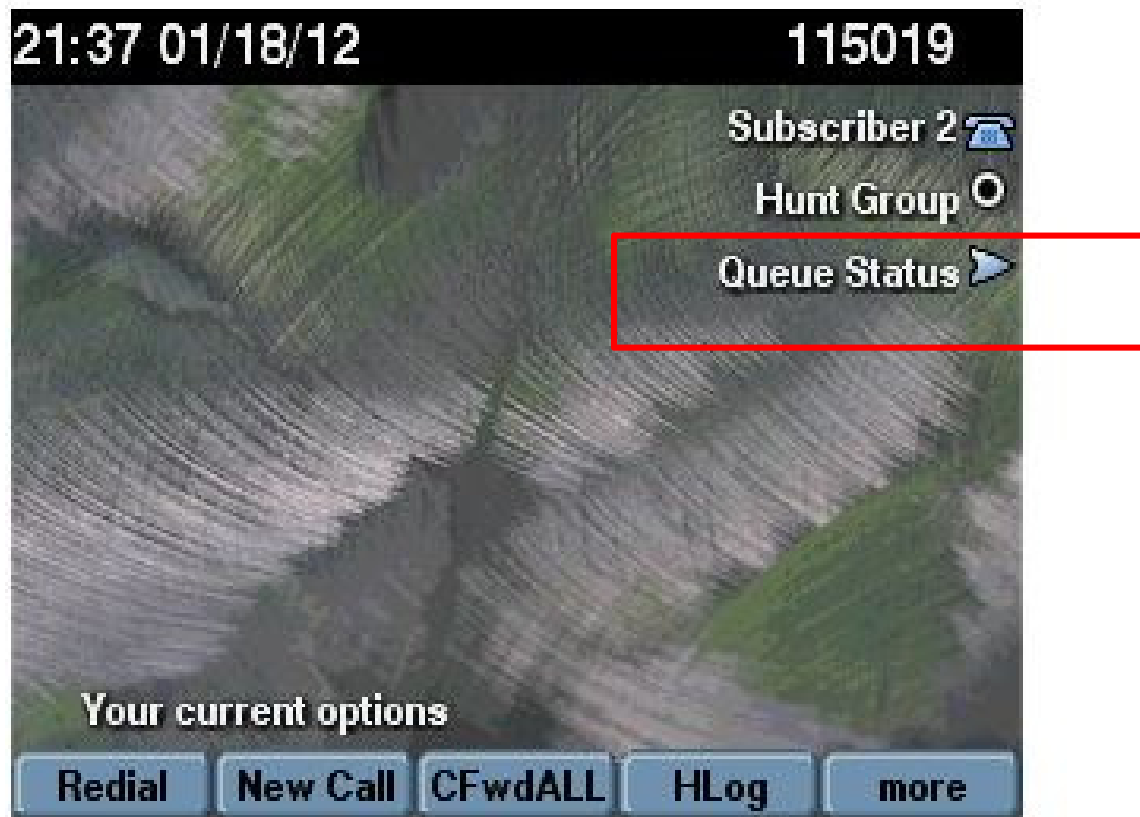
Locale Announcement*

Can be customer uploaded announcements

Choices:
-Always
-Only for queued Calls

Native Call Queuing

Queue Status information: Softkey, Programmable Line Key or Feature Control Policy (99xx/89xx phones)



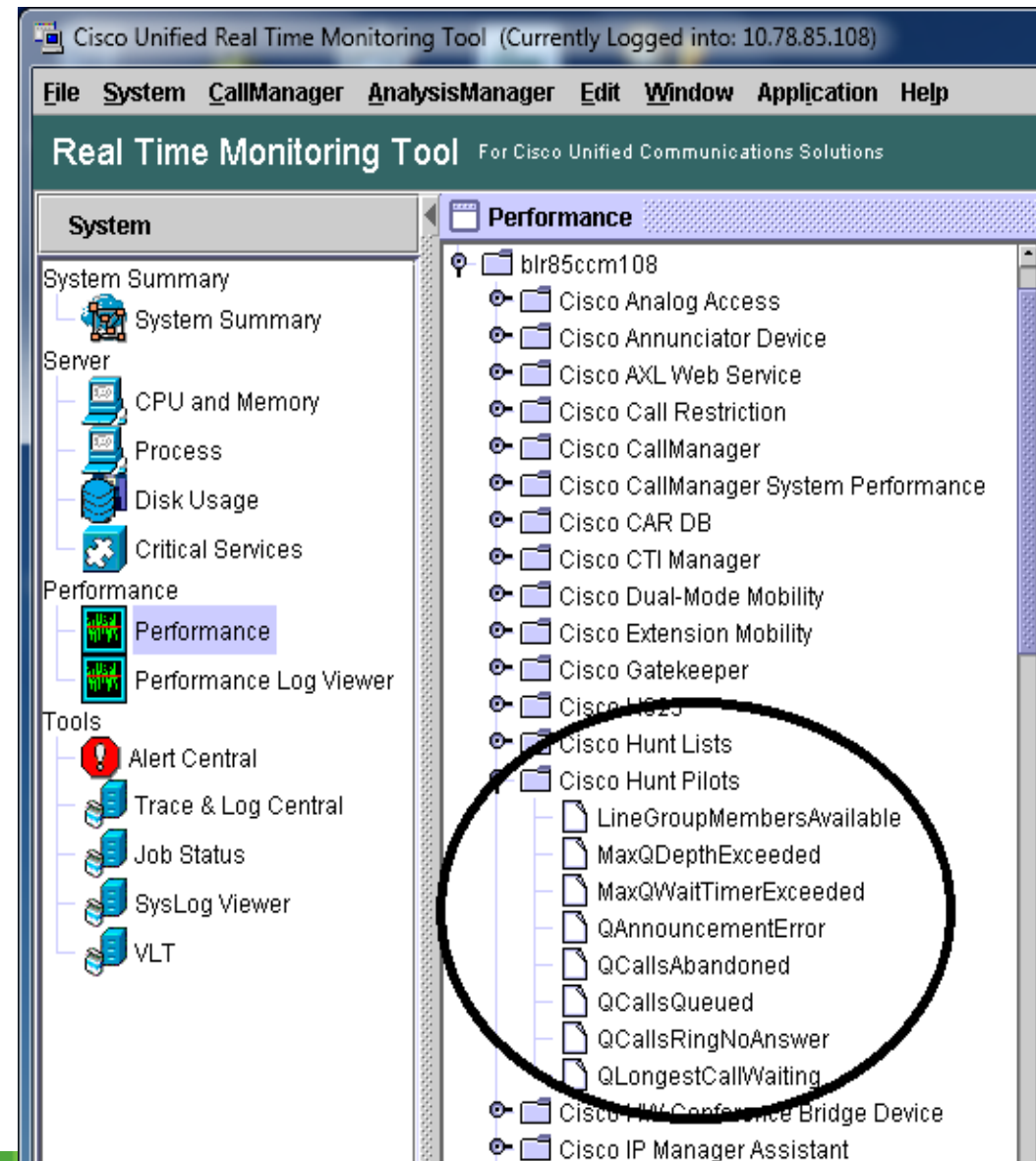
Native Call Queuing

Shows all queues handled by the device



Serviceability for Native Queuing

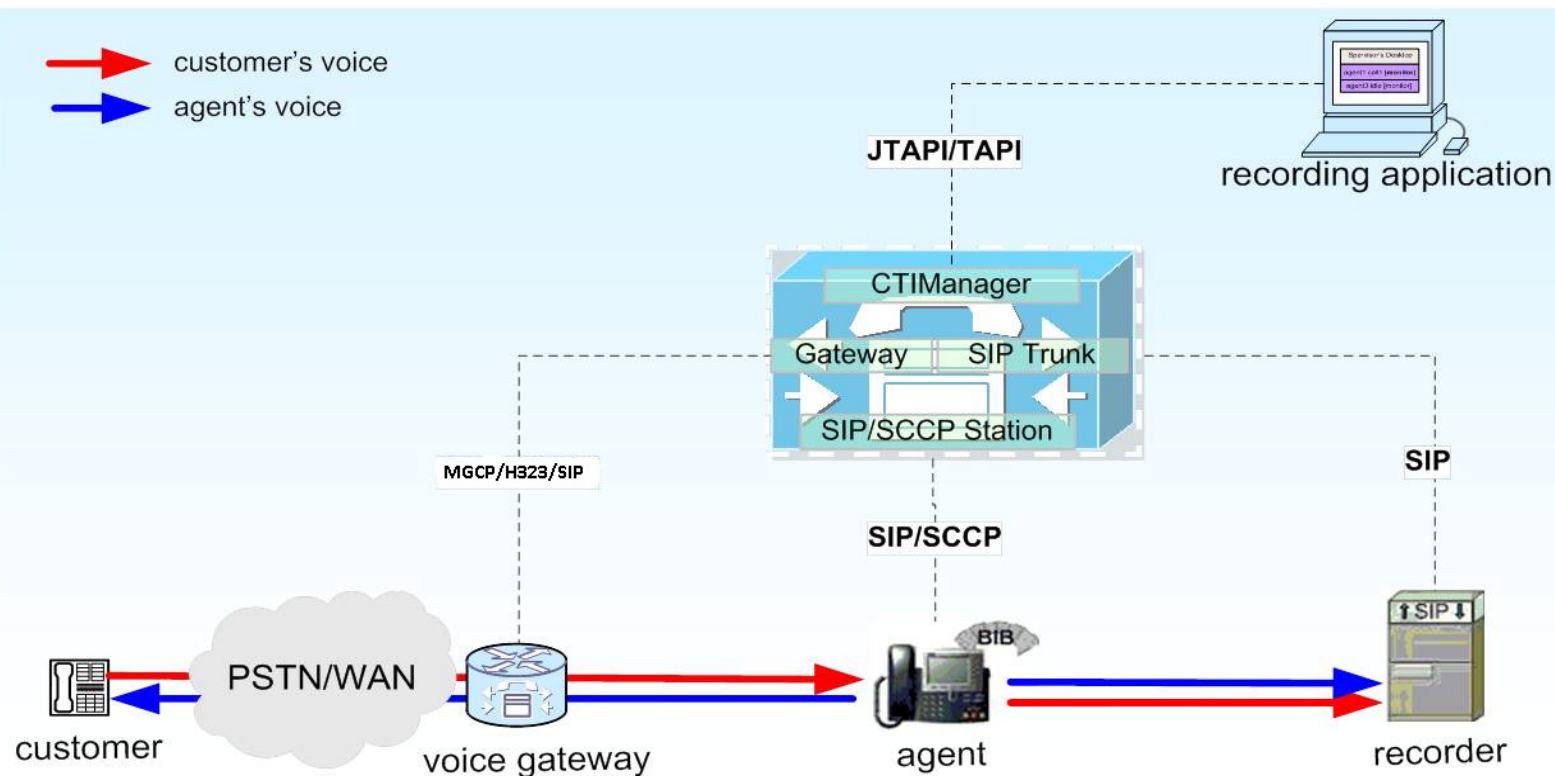
- Call Detail Records have been enhanced to indicate:
 - Queue flag – indicates if the call was queued
 - Queue time – cumulative queue time prior to call answered
- New serviceability counters have been added to monitor queue performance; includes alarms and alerts with configurable thresholds.



Native Call Recording

- Call recording was introduced in CUCM 6.0 release
- Secure call recording was introduced in 8.0
- CUCM 8.5 integrated with MediaSense (complete Cisco solution)
- Since call recording was a contact center features, the ability to record a call was limited to a CTI application
- Once recording started, there was no way to stop recording

Native Call Recording



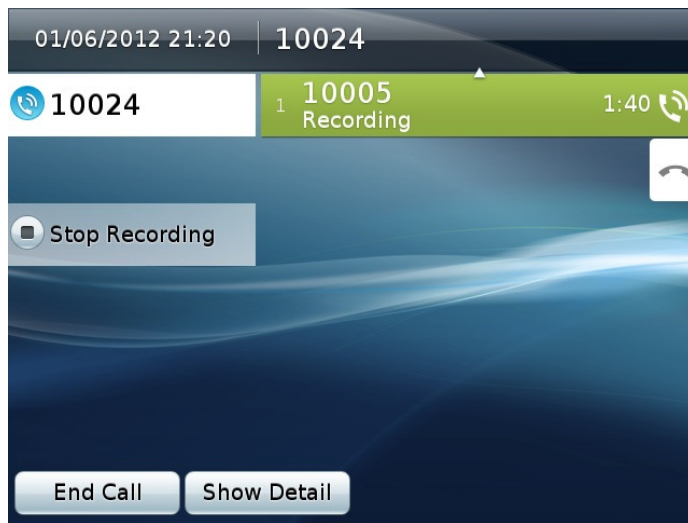
- Recording streams are forked from agent's IP phone to the recorder: agent's voice and customer's voice are sent separately.
- Recorder is configured in CallManager as a SIP trunk device.

Native Call Recording

- CUCM 9.0 provides user based call record using soft key, Programmable Line Key (PLK) or Feature Control Policy
- The record key is a toggle
 - First press starts recording
 - Second press stops recording
- Recording status displayed on the phone screen
- Recording can be started/stopped by any combination of phone or CTI control
- Must use phone Built in Bridge (BIB)
- Enable recording on the line appearance and configure tones



Native Call Recording



99XX:
SIP



79XX
SCCP or SIP

LDAP Enhancements



Custom User Fields

- Existing LDAP agreements sync 13 default attributes
- LDAP agreements will allow 5 Custom User fields

Standard User Fields To Be Synchronized			
Cisco Unified Communications Manager User Fields	LDAP Attribute	Cisco Unified Communications Manager User Fields	LDAP Attribute
User ID	sAMAccountName	First Name	givenName
Middle Name	middleName ▼	Last Name	sn
Manager ID	manager	Department	department
Phone Number	telephoneNumber ▼	Mail ID	mail ▼
Directory URI	msRTCSIP-primaryuseraddress ▼		

Custom User Fields To Be Synchronized	
Note: Custom User Field Names must be same across all synchronization agreements.	
Custom User Field Name	LDAP Attribute
OfficeLocation	OfficeLocal
TieLinePrefix	tieline

Custom User Fields

- Custom User Fields are common across all sync agreements
- Custom User Fields updated on 1 agreement are synched across all agreements
- Attribute will be validated at save time
 - Error message thrown when saving and the attribute does not exist



LDAP and Manual User support

- Prior to CUCM 9.0
 - Enabling LDAP sync would prohibit adding local users
 - End user to be used by CUCM must be defined on AD and synched
 - Extra users could trigger extra CAL's on the MS AD
- CUCM 9.0
 - Administrator can have both LDAP sync users and locally defined users
 - Ability to modify local users and roles assigned to LDAP users
 - Deleting LDAP synch will mark users synced for deletion (garbage collection)
 - Administrator can convert an LDAP user to a local user

LDAP and Manual User Support

System ▾ Call Routing ▾ Media Resources ▾ Advanced Features ▾ Device ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾

Find and List Users

Add New Select All Clear All Delete Selected

Status

6 records found

User (1 - 6 of 6)					Rows
Find User where First name ▾ begins with ▾ <input type="text"/>					
<input type="checkbox"/>	User ID ^	First Name	Last Name	Department	User Status
<input type="checkbox"/>	krati		srivastav		Active Local User
<input type="checkbox"/>	ginny	ginny	weasly		Active LDAP Synchronized User
<input type="checkbox"/>	harry	harry	potter		Active Local User
<input type="checkbox"/>	hermaoinee	hermaoinee	granger		Active LDAP Synchronized User
<input type="checkbox"/>	neville	neville	longbottom		Active LDAP Synchronized User
<input type="checkbox"/>	ron	ron	weasly		Active LDAP Synchronized User

User status field is used to differentiate between the Local user and LDAP Synchronized users.

LDAP and Manual User Support

System ▾ Call Routing ▾ Media Resources ▾ Advanced Features ▾ Device ▾ Application ▾ User Management ▾ Bulk Administration ▾ Help ▾

End User Configuration

Save ✕ Delete + Add New

Status

Status: Ready

User Information

User Status: Active LDAP Synchronized User

User ID: harry

PIN: [Edit Credential](#)

Confirm PIN:

Last name*: potter

Middle name:

First name: harry

Directory URI:

Telephone Number:

Mail ID:

Manager User ID:

Department:

User Locale: < None >

Associated PC:

Digest Credentials:

Confirm Digest Credentials:

Convert User Account

☐ Convert LDAP Synchronized User to Local User

Service Settings

☒ Home Cluster

☐ License User for Unified CM IM and Presence (Configure IM and Presence in the associated UC Service Profile)




UC Service Profile: < None > [View Details](#)

Device Information


To convert LDAP synchronized user to the local user. Check the box Convert User Account and Save changes.

LDAP and Manual User Support


End User Configuration

 Save  Delete  Add New

Status

 Update successful

User Information

User Status	Active Local User
User ID*	<input type="text" value="harry"/>
PIN	<input type="password" value="....."/> 
Confirm PIN	<input type="password" value="....."/>
Last name*	<input type="text" value="potter"/>
Middle name	<input type="text"/>
First name	<input type="text" value="harry"/>
Directory URI	<input type="text"/>
Telephone Number	<input type="text"/>
Mail ID	<input type="text"/>
Manager User ID	<input type="text"/>
Department	<input type="text"/>
User Locale	<input data-bbox="616 1013 862 1045" type="text" value=" < None > "/>
Associated PC	<input type="text"/>
Digest Credentials	<input type="password" value="....."/>
Confirm Digest Credentials	<input type="password" value="....."/>

Service Settings

☒ Home Cluster

☐ License User for Unified CM IM and Presence (Configure IM and Presence in the associated UC Service Profile)

UC Service Profile [View Details](#)

After a user is converted to local CUCM user all the fields become editable.

Simultaneous Ring

CUCM 7.0 introduced the parameter “Reroute Remote Destination Calls to Enterprise Number”

Calls direct to cell would ignore time of day settings and call the cell

Calls would be anchor on the enterprise phone....but the line would not ring

Added “Ring All Shared Lines” service parameter

Boolean Setting

True – all lines (including other remote destinations) ring

False – only the dialed number (remote destination) rings

Default and existing behavior is False

Pause in Speed Dial

- Users can configure speed dials with FAC, CMC and post connect DTMF
- Comma accepted in speed dial as delimiter and pause
- Feature allows two methods of configuration:
 - Method 1: Using comma as a pause and also as a delimiter
 - Method 2: Dialstring/FAC/CMC/Post connect digits with no commas



Method 1: Comma Delimiter for Pause

- Comma used to delineate dial string, FAC, CMC, and post connect digits
- For post connect digits, commas insert a 2 second delay
- Commas may be duplicated to create longer delays
- Preferred method for non-CUPC devices

Method 2: No Comma

- All digits to be used for dial string, FAC, CMC and post call digits entered as one string
- Once a digit string has been matched, CUCM moves on to next digit string
- Can be used on SCCP and SIP phones, but required for CUPC

Pause in Speed Dial Examples

- 914085551212,,,,123456
Will dial 914085551212, after connect, wait 8 seconds to dial 123456
- 90114455612323#,2244
FAC for International Calls. Will dial 90114455612323# with FAC of 2244
- 914085551212,6534,5656,,,9933
Will dial 91408551212, with a FAC of 6534 and CMC of 5656, wait 6 seconds, then dial the DTMF digits 9933
- 914085551212**653456569933**
Will dial 914085551212 with a FAC of 6534 and CMC of 5656, then immediately after connect, dial 9933

Pause in Speed Dial

- New Service Parameter allows configuration of interdigit delay

[Pause In Speed Dial InterDigit Interval](#) *

60

- If the speed dial FAC or CMC is wrong
 - Method 1: Call disconnects and an error is displayed
 - Method 2: phone displays an error and allows the user to manually enter the information
- Dial string is truncated in the calls history list (only dialed number)
- Feature may not work with CUPC client and variable length/overlapping dialplans (no comma delineation)
- This feature is not supported SRST

Codec Preference

- Pre CUCM 9.0
 - Administrator could only eliminate codecs (based on Maximum Audio BitRate)
 - Could not prioritize G.711alaw over G.711ulaw, or G.729 codecs
- CUCM 9.0
 - System default codec preference same as earlier versions
 - Allow administrator to deterministically specify codec order
 - Allow codec selection based on received offer
 - Custom Codec list applied globally or on a GW/Trunk Level
 - Can be applied to: SIP, MGCP, SCCP, H323 and EMCC



Code Preference


Audio Codec Preference List Information

Name*

Description*

Codecs in List*

- AMR-WB (7k-24k)
- AMR (5k-13k)
- MP4A-LATM 128k
- AAC-LD (MP4A Generic)
- MP4A-LATM 64k
- MP4A-LATM 56k
- L16 256k
- MP4A-LATM 48k
- G.722 64k
- ISAC 32k
- MP4A-LATM 32k
- G.722.1 32k
- G.722 56k
- G.722.1 24k
- G.722 48k
- MP4A-LATM 24k
- G.711 U-Law 64k
- G.711 A-Law 64k
- G.711 U-Law 56k
- G.711 A-Law 56k
- ILBC 16k
- G.728 16k
- GSM Enhanced Full Rate 13k
- GSM Full Rate 13k
- G.729b 8k
- G.729ab 8k
- G.729 8k
- G.729a 8k
- GSM Half Rate 6k
- G.723.1 7k





Audio Codec Preference List Information

Name*

Description*

Codecs in List*

- G.722 64k
- G.711 U-Law 64k
- G.711 A-Law 64k
- AMR-WB (7k-24k)
- AMR (5k-13k)
- MP4A-LATM 128k
- AAC-LD (MP4A Generic)
- MP4A-LATM 64k
- MP4A-LATM 56k
- L16 256k
- MP4A-LATM 48k
- ISAC 32k
- MP4A-LATM 32k
- G.722.1 32k
- G.722 56k
- G.722.1 24k
- G.722 48k
- MP4A-LATM 24k
- G.711 U-Law 56k
- G.711 A-Law 56k
- ILBC 16k
- G.728 16k
- GSM Enhanced Full Rate 13k
- GSM Full Rate 13k
- G.729b 8k
- G.729ab 8k
- G.729 8k
- G.729a 8k
- GSM Half Rate 6k
- G.723.1 7k



Codec Preference

- Codecs preference still choose by Regions
- For SIP Devices/Trunk, can specify “Accept Codec Preference in received Offer” (for DO and EO)
- Can change codec selection for EMCC logged in devices

Region Information
Name*

Region Relationships

Region	Audio Codec Preference List	Maximum Audio Bit Rate	Maximum Session Bit Rate for Video Calls
DataCenter1	Custom low loss	64 kbps (G.722, G.711)	384
Remote1	Custom low loss	8 kbps (G.729)	384
NOTE: Regions not displayed	Use System Default	Use System Default	Use System Default

Modify Relationship to other Regions

Regions	Audio Codec Preference List	Maximum Audio Bit Rate	Maximum Session Bit Rate for Video Calls
<input type="text" value="DataCenter1"/> <input type="text" value="DataCenter2"/> <input type="text" value="Default"/> <input type="text" value="Remote1"/>	<input type="text" value="Custom low loss"/>	<input type="text" value="8 kbps (G.729)"/>	<input checked="" type="radio"/> Keep Current Setting <input type="radio"/> Use System Default <input type="radio"/> None <input type="radio"/> <input type="text" value=""/> kbps

Codec Preference - Caveats

- A common Codec Preference List must be the same on all clusters when using the following features:
 - Extension Mobility Cross Cluster
 - H323 Inter Cluster Trunks
- Biggest challenge will be unexpected codec
 - Check “Accept Audio Codec Preferences in Received Offer” settings
 - Check at Device level and system level
- When using non-pass through MTP, codec negotiated hop-by-hop

Cisco Unified Communications Manager IM and Presence Service Overview for 9.0



Cisco Unified Communications Manager IM and Presence Service

Goals:

- **Easier to sell/order IM/ presence**
 - Common Websites, Briefing Materials, Ordering Guides, SKUs, etc
- **Easier to deploy IM/ presence**
 - Common Install, Upgrade, Licensing Methodology
- **Easier to administer IM/Presence**
 - Common user and client administration
- **Easier support**
 - Common Documentation , UCSS ordering, TAC support , etc

Removing the Customer Challenges:

Focus for CUP – CUCM Integration

■ Common Marketing

- Collateral
- Ordering



■ Reduce Customer OPEX

- Installation
- Administration
 - End User
 - Device
- Licensing
- Serviceability
- Security



■ Common Support

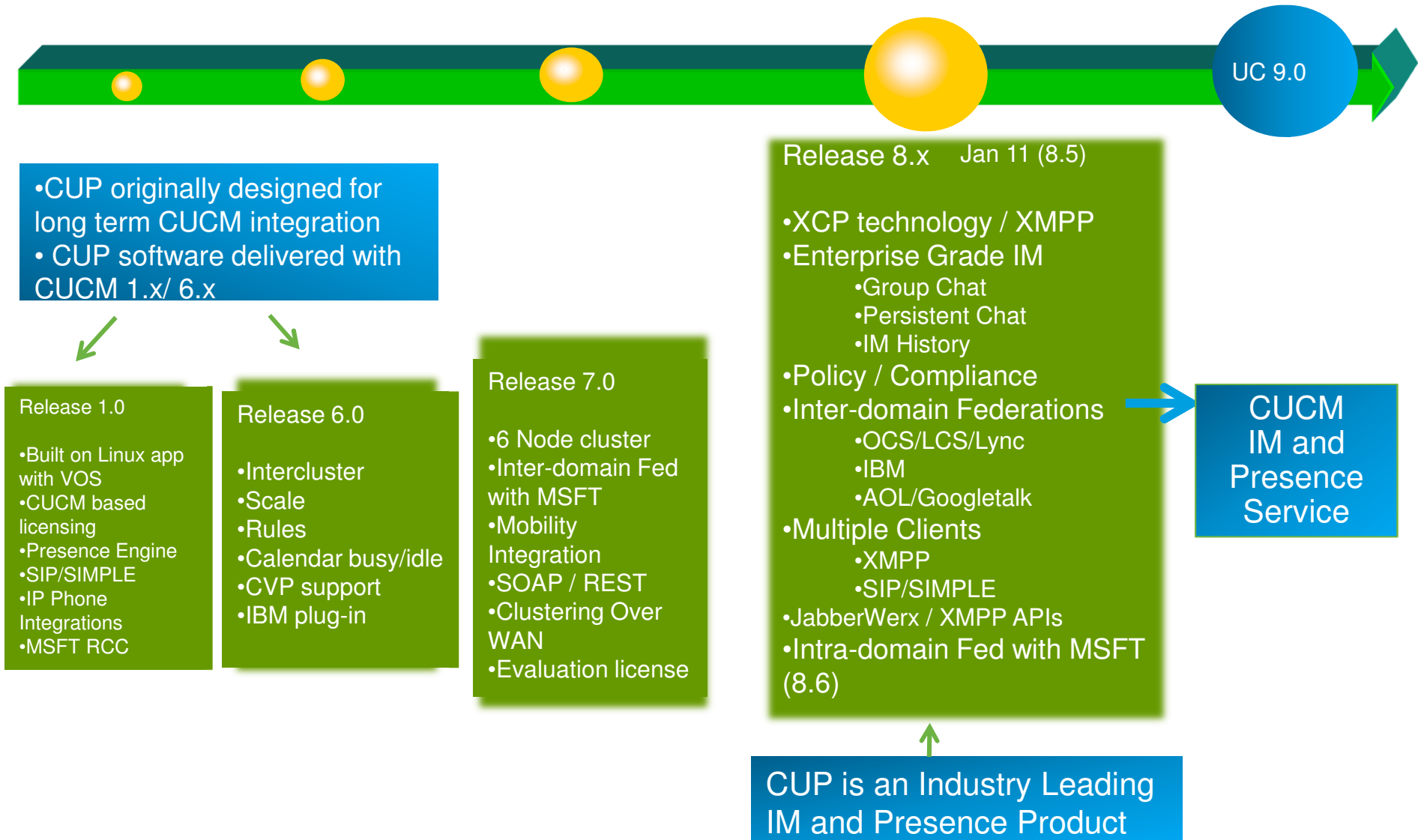
- Documentation
- TAC



- End User Value
 - Integrated view of V/V/IM/P
 - Showcase features



Cisco Unified Presence – Product Growth



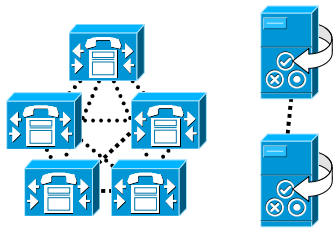
Ordering and Licensing

- Ordering
 - Single** Set of Customer facing Documentation
 - Single** Ordering Process
 - Single** set of SKUs
- Licensing
 - *** IM/P **included** as part of core UCL (User Connect Licensing) and CUWL (Cisco Unified Workspace Licensing) ***

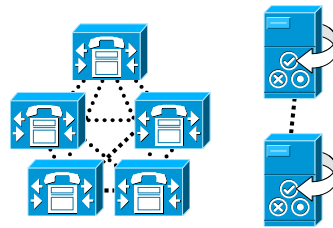
Migration & Support Plan

- Support CUCM 7.x / 8.x direct migration to 9.0
Provides ability to deploy CUCM with voice, video, IM , presence
- Support CUP 8.x IM Only direct migration to 9.0
Provides ability to deploy CUCM with voice, video, IM , presence
- Support CUCM 7.x / 8.x and CUP 8.x direct migration to 9.0
Provides ability to deploy CUCM with voice, video, IM , presence
- Earlier versions of CUCM or CUCM / CUP deployments will have perform a multi-step upgrade migration

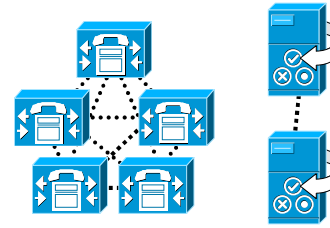
Large Enterprise Migration / Backwards Compatibility



CUCM 8.0 Cluster
with adjunct CUP 8.0



CUCM 8.0 Cluster
with adjunct CUP 8.0



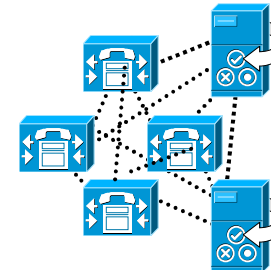
CUCM 8.0 Cluster
with adjunct CUP 8.0

8.x / 9.0 interoperability

9.0 deployment works
with legacy CUCM 8.0
and CUP 8.0 for V/V and
IM/P

- Intra-cluster upgrade in sync
- Inter-cluster can be a slow roll

Phased Migration
E.g. upgrade 1 cluster at a time to 9.0



9.0 Deployment
Voice/Video/IM/Presence

CUCM IM and Presence

- Solution release 9.0, CUCM and CUP will start integration to be one product
- Includes common release and upgrade process
- Centralize administration
- Simplify licensing, now included as part of CUCM user licensing
- Deprecating IP Phone Messenger (IPPM) and CUPC 7.0



CUCM IM and Presence

- Through CUCM IM and Presence administration screens, configure UC Services for clients
- UC Services that can be defined:
Voice Mail, Visual Voice Mail, Conferencing, Directory, IM and Presence, CTI
- UC Services are used to build a UC Service Profile
- UC Service Profiles assigned to users
licensing for the feature handled at the user level
Home cluster specified in the user page

Digest Credentials

Confirm Digest Credentials

Service Settings

☒ Home Cluster

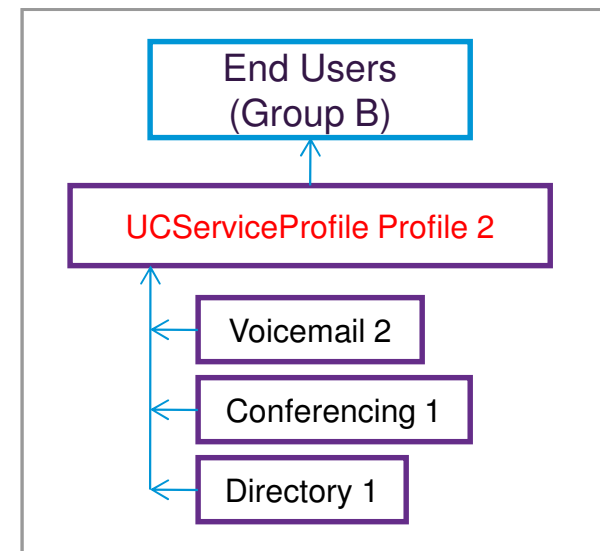
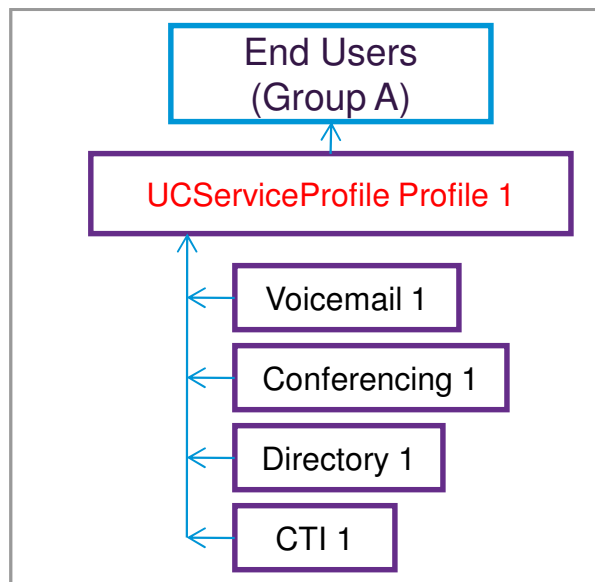
☐ License User for Unified CM IM and Presence (Configure IM and Presence in the associated UC Service Profile)

UC Service Profile [View Details](#)

Device Information

CUCM IM and Presence

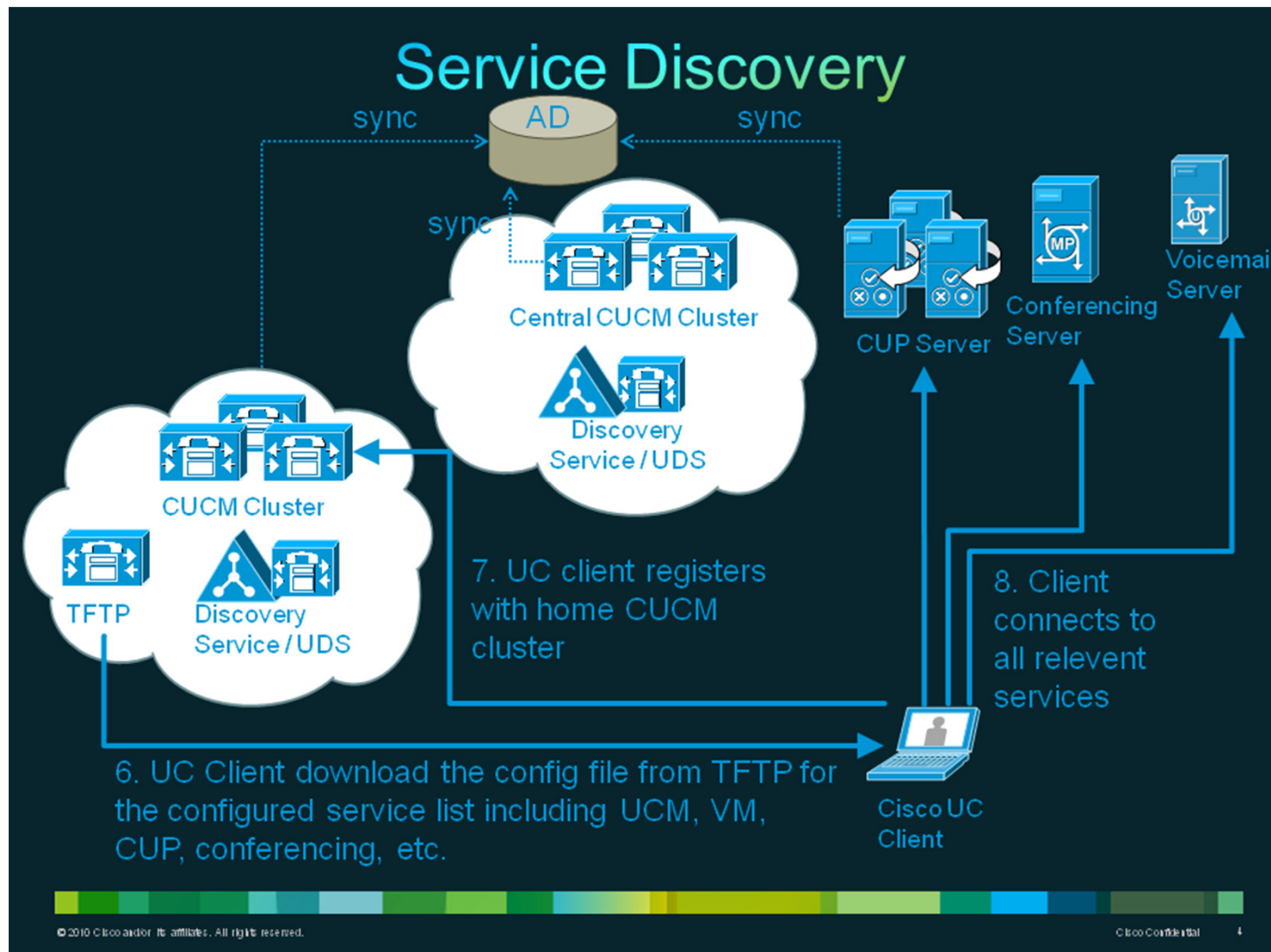
- CUCM 9.0 UC Service Profiles



CUCM IM and Presence

- Why do we need a 'Home Cluster' setting?
- Make client/server discovery simpler
- New service called User Discovery Service (UDS)
- UDS queries other servers to find a user's home cluster
 1. Client configuration points to a centralized TFTP server
 2. If not a local user, UDS queries other servers looking for a 'home' cluster
 3. UDS returns URL for users home cluster
 4. Client queries home cluster for configuration (which includes UC services)
 5. Client registers with home cluster for call control
 6. Client registers with other UC services

CUCM IM and Presence



CUCM IM and Presence

- When migrating to CUCM 9.0, existing service profiles and configuration in CUP will be migrated
- CUCM IM and Presence uses Templates and Layouts to speed up user creation
- BAT/AXL have been updated for CUCM/CUCM IM and Presence



Pre 9.0 Solution Deployment

CUPC / Aries



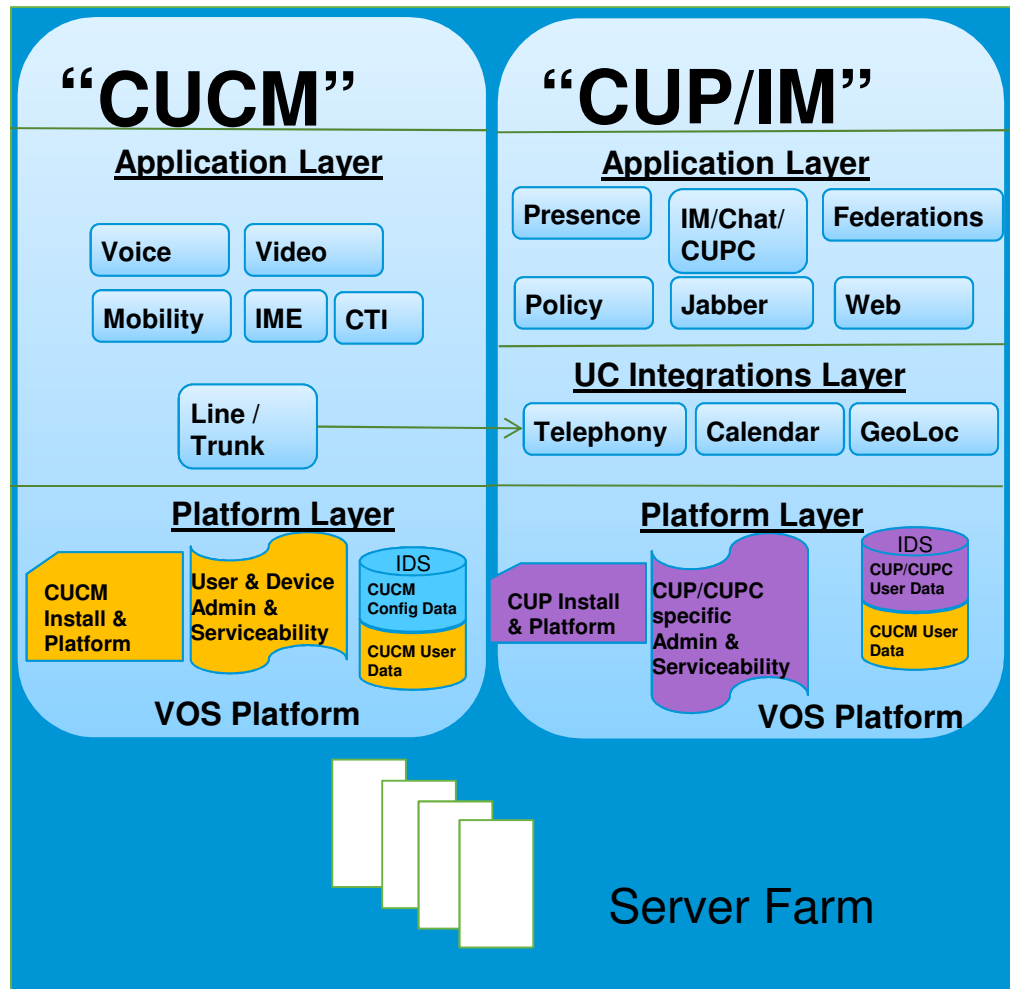
3rd party
XMPP clients



- Current:

Leverages CUCM for general User Config & Licensing.

Separate CUP Install and CUP / CUPC Admin and Serviceability.



Soln Strengths / Pros

Feature Strength (IM, Devices, Web, Fed)

VOS based and CUCM aligned

Optimised Performance /Scale

Optimised Test Matrix and effort

Lower Box count than OCS/Lync

No Mandatory CUCM upgrade for IM/Presence

Customer Feedback/ Cons

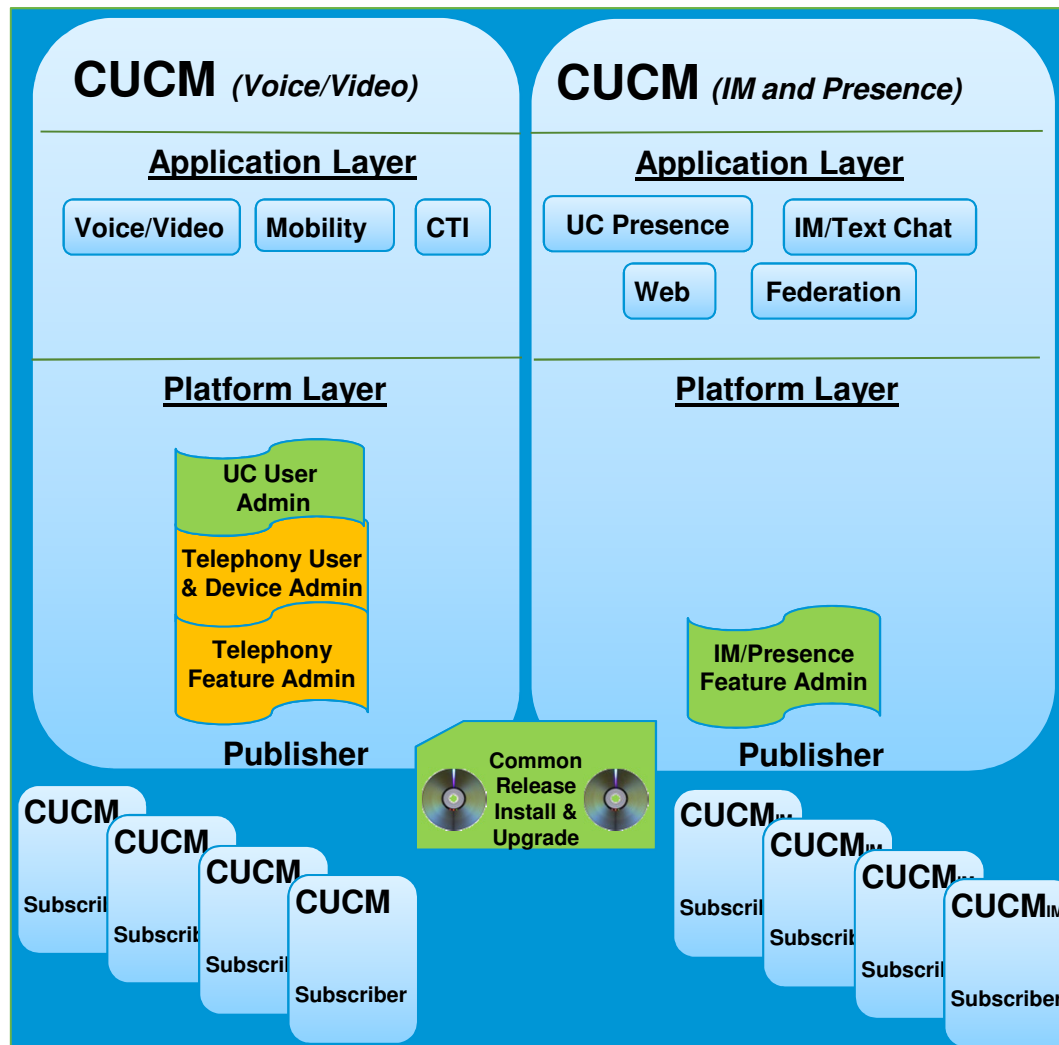
More Integrated Sale

Separate order / install for each media

End to end User Configuration is inefficient

Some Separation of Admin/Serviceability interfaces (although Common Look & Feel and CUCM based).

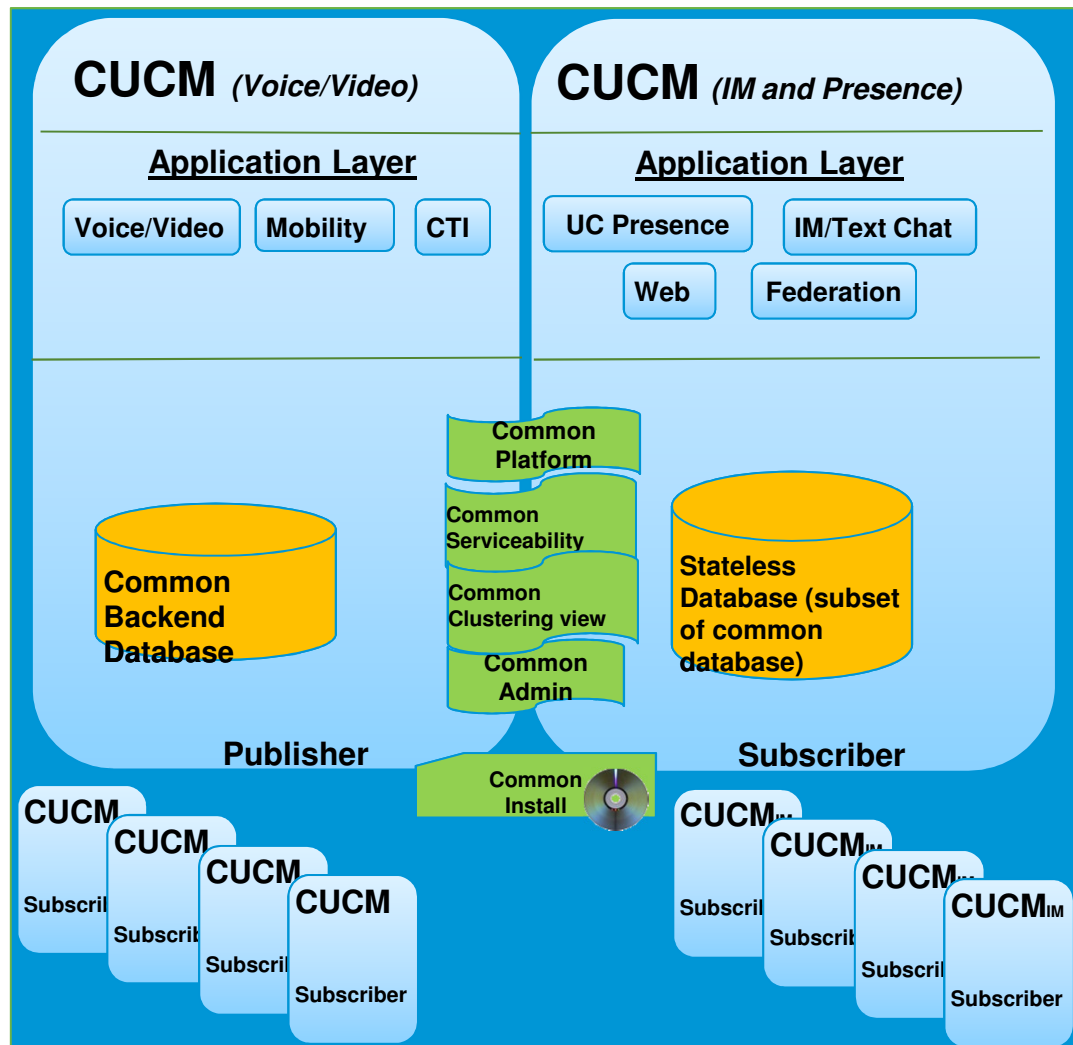
CUCM-CUP - Release 9.0 Integration



Core Content

- **Rebrand** CUP to "CUCM IM and Presence"
- ****Common Release Install & Upgrade Process**
 - From 9.0 CUCM and CUCM IM&P nodes must be upgraded simultaneously to a common joint release.
- **Admin Centralization and Simplification:**
 - Move all UC User and UC Service Config data currently in CUP to CUCM
 - This data (e.g. LDAP profile, Vmail Profile, Webex Profile, CTI profile) will be centrally configured in CUCM and centrally accessible via CUCM AXL interface (no longer CUP)
 - Simplify greatly UC User Config in CUCM (reduced workflow, fewer screens)
 - Provide Auto-Service discovery mechanism to access this data => significant Admin overhead reduction
- **Licensing Simplification:** Presence User based licensing only (no CUCM IM&P server license or Cisco Jabber client License)

CUCM-CUP - Release Final Integration



Core Content

• Common Install

Single ISO with options to choose the role of a server

• Common Cluster

• IM and Presence Nodes are roles of CUCM subscriber nodes

• Common Serviceability

Seamless serviceability for entire cluster

• Common Administration:

Single Administrative GUI

Thank you.

