Cisco Unified Communications and Collaboration
CISCO COLLABORATION

• **Unified Communications**
  - Cisco converges voice, video and communications around a shared IP-based infrastructure
  - Improve productivity and responsiveness while reducing IT costs

• **Collaboration**
  - Allows employees to work freely with teams – within and beyond your organization
  - Integrated capabilities of voice, video, conferencing, content sharing, instant messaging and presence
    - Supports collaboration at any time, from any device, from the browser to the boardroom
Cisco Unified Communications Manager (CUCM)
CISCO UNIFIED COMMUNICATIONS MANAGER (CUCM)

- **Core of the Cisco Collaboration Portfolio**
  - Call control platform
  - Connects all collaboration applications

- **Services**
  - Session management
  - Voice
  - Video
  - Messaging
  - Mobility
  - Web conferencing
Benefits

- Extend video capabilities beyond traditional borders
- Simplify voice systems to cut costs and dramatically simplify provisioning and maintenance
- Build productivity with comprehensive unified communications to help workers communicate and work more effectively
- Enable mobility with embedded unified mobility software capabilities to keep workers productive wherever they are, with any content type, on any device
- Improve collaboration - simply click to begin an IM session, initiate a phone call, or easily start a video-conferencing call
Cisco Unified Communications

The Heart of Cisco Collaboration

- Scalable up to 80,000 users
- Available: multiple levels of server redundancy & survivability
- Centralized or distributed call processing
- Integrated services
- Integrated network management
- Highly secure
CISCO UNIFIED COMMUNICATIONS MANAGER (CUCM)
## Cisco’s Vision

Leveraging Cisco UCM v9.1 and v10.0

<table>
<thead>
<tr>
<th>Features and Functionalities</th>
<th>4.x/5.x</th>
<th>6.x/7.x</th>
<th>8.0.x</th>
<th>8.5/8.6</th>
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<td>BYOD (Jabber on Win/MAC/IOS for voice and video)</td>
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<td>Self Provisioning for endpoints</td>
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Cisco Unity Connection (CUC)
Unity Connection Features

- Unified messaging
- SMS, SMTP, HTML message notification
- Outlook integration
- Speech recognition features
- SpeechView (Speech-to-Text)
- Directory Synchronization/Authorization
- Virtualization Support
- Single Sign-on
- Redundancy (Server Active/Active & SRSV)
CISCO UNITY CONNECTION (CUC)

Anywhere Access

- Cisco Jabber
- Cisco SpeechView
- Unity Connection Web Inbox
- Cisco Visual Voicemail
- Cisco ViewMail for Outlook
Cisco IM & Presence (IM&P)
XMPP–based solution
- Instant Messaging, Rich Presence, Group Chat, Persistent Chat
- Open Presence and IM standards–based support
- Interoperable–Federates with popular IM solutions
- Device & Platform Agnostic
- Open libraries (Cisco AXL) to customize for web-based applications
IM & Presence Service
2 Modes of Operation
CISCO IM AND PRESENCE (IM & P)

Benefits

✓ Improve productivity
  ✓ Quickly Communicate
  ✓ Presence of users
  ✓ Launch instant message
  ✓ Launch instant WebEx
  ✓ Launch instant video chat
  ✓ Share screen
  ✓ Remote control
  ✓ Share files

✓ Extend range and method of communications

✓ Multi-platform support (Windows, Mac, iPhone, iPad, Android...)

Cisco Emergency Responder (CER)
CISCO EMERGENCY RESPONDER (CER)

Solution

✓ Automatically track IP Phone location

✓ Provides emergency call routing instructions to CUCM

✓ Allows for creation of location specific emergency response locations (ERLs) and maps them to emergency location identification numbers (ELINs)

✓ Eliminates administration for IP Phone relocation

✓ Supports emergency call-back to a predefined “security” number or to the phone that placed the emergency call
CISCO EMERGENCY RESPONDER (CER)

987-654-3201

987-654-3202

987-654-3203

987-654-3204

987-654-3205

987-654-3206

987-654-3207
CISCO EMERGENCY RESPONDER (CER)

1. Emergency services are deployed to the correct location.
2. CER intercepts call and rewrites call to CER.
3. Call placed out of Voice GW at BLDG 2.
4. Selective Router queries Route DB for correct PSAP.
5. PSAP 2 queries ALI Database and receives the correct location.

San Francisco BLDG 1
- Building 1
- 123 Main Street
- ERL 1 = ELIN 1 = 3033196510

San Francisco BLDG 2
- Building 2
- 345 Bridge Street
- ERL 2= ELIN 2 = 3033196511

LEC Network
- Central Office Switch
- SS7-CAMA
- 911 Selective Router
- Route DB
- 3033196510??
- 3033196510??

PSAP 1

PSAP 2
- 123 Main Street
- Floor 3, SE corner
- 3033196510

Called party: 911
Calling party: 3033196510

Cisco TelePresence is helping schools, colleges and universities around the country to enable next-generation teaching and learning, improve administrative efficiency, and reduce carbon footprints.

- Students can learn about other cultures by connecting with schools around the world
- Administrators can conduct meetings and share best practice without leaving the office
- Researchers can collaborate "face-to-face" more frequently, and finish projects more quickly
- Subject matter experts from around the world can be brought into the virtual classroom for guest lectures
- Students can receive career mentoring from the private sector
CISCO TELEPRESENCE VIDEO

Solution

✓ Fully immersive video solution
✓ Join meetings from anywhere
✓ Face-to-face collaboration
✓ HD resolution

Benefits

✓ Reduced Travel costs
✓ Increased productivity
✓ Real time collaboration
✓ Connecting geographically distributed work force
✓ Share knowledge
✓ Quicker resolution of issues
✓ Faster turn around time on projects
CISCO TELEPRESENCE VIDEO

Our mission is to provide a no-compromise collaboration experience to:

Every Room
Every Desk
Every Pocket

CDIO COMPUTER DESIGN & INTEGRATION
CISCO TELEPRESENCE VIDEO
Cisco WebEx
Cisco Conferencing

Brings together audio, video, web conferencing
Always-on, personal meeting room
Works with third-party endpoints
About Cisco WebEx

- Interact with students more efficiently and cost-effectively, train faculty and staff across geographical boundaries, and provide shared workspaces using WebEx applications specialized to meet your needs.

- Tailor instruction to individual learning styles with advanced interactive features.

- Hold district-wide teacher training sessions and meetings without requiring educators to leave their campuses.

- Reach parents at the times and places most convenient for them.

- Move instruction beyond the classroom by reaching students on the devices they use most, including smartphones.

- Improve attendance by making recorded classes available to students who missed them.
**Solution**

- Industry leading web and video conferencing solution
- Meet, collaborate and stay productive
- Anywhere, anytime, on any device
- Enter into the 21st Century classroom

**Benefits**

- Collaborate with employees and parents
- Share information and content
- Increased productivity
- Accelerate processes
- Support for mobile platforms
- Real time collaboration
- Make faster, better informed decisions
- Manage teams located in different buildings
- Record meetings to share content with users
Discover Cisco WebEx solutions for K–12 education.

- Provide flexible instruction with extended reach online using Cisco WebEx solutions—and find a solution to dwindling budgets and resource constraints. Primary and secondary schools can take advantage of the following WebEx solutions:

  - **Cisco WebEx Training Center.**
    - Use interactive features like real-time testing and grading, instant feedback, assessment tracking, breakout sessions, and hands-on labs to deliver a variety of dynamic e-learning opportunities to K–12 students.

  - **Cisco WebEx Meeting Center.**
    - Meet online in real time with parents, staff, and students to keep everyone on the same page without requiring them to assemble in one place.
Cisco WebEx Support Center.
- Support remote users as if they were in the same room, viewing and controlling remote desktops and applications, installing and transferring files, recording sessions, and applying patches and updates in real time.

Cisco WebEx Event Center.
- Cast a wider net. Use WebEx Event Center to facilitate and manage online conferences and interactive events, bringing together geographically dispersed students, teachers, parents, and administrators.

Cisco WebEx Connect.
- Streamline communications and accelerate decision-making. Ensure that education continues after the school day ends by taking advantage of presence, enterprise IM, audio, VoIP, video, file sharing, and integrated web conferencing to collaborate across time zones and platforms.
“We now have the capacity to share knowledge to an exponentially larger number of people than ever before.”
Cisco Spark
Solution

- Cisco Collaboration application
- Allows for seamless communication and collaboration
- Send messages, share files, and meet with different teams, all in one place
- Secure 1:1 or group messages
- Anytime face-to-face meetings
- Connect your calendar and contacts
- Teamwork is always accessible anytime and from any device
- Encrypted messages, files and room names
CISCO SPARK

What We Did Here Will Be Done..
CISCO SPARK

- Rooms
- Notes / Discussion
- Decisions
- Tasks
- Documents
- Screens
- Voice/Video
- People
- Whiteboards

And Here...

www.webex.com/ciscospark/
Cisco Collaboration Edge Architecture
Cisco Collaboration Edge

Industry’s most comprehensive any-to-any collaboration solution

ON-PREMISES OR CLOUD CISCO UC

Collaboration Edge
Firewall Traversal
Session Border Control
Gateways
Branch Survivability

Internet
Cloud service users

Internet, PSTN, IP PSTN
3rd party businesses
Teleworkers
Mobile workers
Consumers

WAN
TDM or IP PBX
Analog devices
Branch offices
Cisco Collaboration
Simplified Licensing Structure
## Cisco Collaboration Systems Release 10 Licensing Summary

<table>
<thead>
<tr>
<th>Feature</th>
<th>Personal Multiparty</th>
<th>WebEx Conferencing</th>
<th>Unity Connection</th>
<th>Expressway</th>
<th>Jabber UC</th>
<th>Jabber IM/P</th>
<th>Prime Collaboration</th>
<th>CUWL Professional</th>
<th>CUWL Standard</th>
<th>UCL Enhanced Plus / Enhanced</th>
<th>UCL Basic</th>
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<td>Unity Connection</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<td>Expressway</td>
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<tr>
<td>Jabber UC</td>
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<td>Jabber IM/P</td>
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<td></td>
<td>CPE &amp; Hosted</td>
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<td>CPE &amp; Hosted</td>
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<td>Prime Collaboration</td>
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</table>

- ✓ = included w/ license
- + = optional add-on
- N/A = not available w/ license

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CISCO LICENSING STRUCTURE

CUCM 10.0 Licensing Summary Cont.

UCL Enhanced / Enhanced Plus
CUWL Standard
CUWL Professional

UCL Basic
UCL Essential
TelPePresence Room

Fax
Analog

6911
6921
7821
3905
6901
7937 / 8831
792x
78xx
69xx
89xx
99xx

Jabber Desktop
DX650
Jabber Mobile
Third Party SIP

TX / CTS / T Series
MX / Profile Series
System Codecs and Quickset Platforms
Cisco Collaboration IP Endpoints
CISCO IP ENDPOINTS

Classroom Phone Options

Cisco 3905

Cisco 6901
Classroom Phone Options

Cisco 7811

Cisco 7821
CISCO IP ENDPOINTS

Phone Options

Cisco
7861
Phone Options

Cisco 8800 Series
Family
### Cisco IP Endpoints

#### 8800 Series Features

<table>
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<tr>
<th>Specifications at a Glance</th>
<th>8811</th>
<th>8831</th>
<th>8841</th>
<th>8845</th>
<th>8851</th>
<th>8861</th>
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<td>High-def Video (720p)</td>
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<td>No</td>
<td>Yes</td>
<td>No</td>
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<td>Integral switch</td>
<td>Gigabit</td>
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<td>Gigabit</td>
<td>Gigabit</td>
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<td>Programmable (line) keys</td>
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<td>5</td>
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<td>Yes (2)</td>
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<td>Wall-mountable</td>
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Phone Options
Cisco 7900 Series Wireless IP Phones
Phone Options
Cisco 9900 Series IP Phones
Phone Options
Cisco 9900 Series IP Phones
Desk Endpoints
Cisco
DX650
DX70
DX80
Cisco TelePresence MX Series
Cisco Immersive TelePresence
IX5000 Series
Cisco Immersive TelePresence
TX9000 Series
Cisco Jabber – The Power to Collaborate

All-in-One UC Application
- Presence & IM
- Voice, Video, voice messaging
- Desktop sharing, conferencing

Collaborate from Any Workspace
- PC, Mac, tablet, smart phone
- On-premises and Cloud
- Integration with Microsoft Office
CISCO’S VISION FOR COLLABORATION

Open and Interoperable

Lead and set industry standards

Develop native, standards-based products

Support third-party endpoints
CDI AT A GLANCE

OVERVIEW

- Founded in 1995, 20-year established and nationally ranked full-service IT solutions provider
- Over $300 million and 300+ employees with offices located in NJ, NY, NC, GA, MA and PA
- True hybrid IT solutions and services

CDI STRATEGIC PARTNER AWARDS

- EMC: #1 Top-tiered nationally ranked Platinum Partner
- Cisco: Cloud Builder of the year for the United States and Solutions Partner of the Year for the east
- VMware: VSPP Certified, vCloud Air Certified (VCHS), Premier Professional Services Partner
- VCE: #1 Vblock Partner

SUBCONTRACTOR FOR EMC, CISCO, VMWARE AND VCE SERVICES

DATA CENTER NETWORKING
- SDDC

EMERGING TECHNOLOGIES
- End User Compute Video Collaboration

MANAGED SERVICES
- Cloud-Based DRaaS, IaaS, BaaS

CLOUD SERVICES
- Converged, Hyper Converged Infrastructure Public, Private Hybrid Cloud
The CDI Professional Services Group (PSG) adheres to a deep playbook of delivery capabilities that extends from the data center to the end user.

**BUSINESS SERVICES**
- Collaboration
- Security
- Mobility
- SDDC
- End User Compute
- Cloud Computing
- Advisory Services

**MANAGED SERVICES**
- IaaS
- DRaaS
- BaaS
- 24/Remote Monitoring
- End User Help Desk

"PSG is positioned as the deepest and most technically capable team among our contemporaries. Our history of delivering complex, multi-vendor solutions enables CDI to rise above in this very competitive marketplace."

Frank Romano, Vice President of Professional Services
SOCIAL MEDIA

@cdillc /cdillc /CDIntegration /cdi-lc
WIN A FITBIT OR AUTOGRAPHED BOOK!

FOR A CHANCE TO WIN, FOLLOW CDILLC ON TWITTER/FACEBOOK/INSTAGRAM AND POST WITH #CDIEDUCATESU

*WINNERS CHOSEN AT RANDOM FROM DAILY POSTS.*