

### TechUpdate:

Cisco Unified Communications System Release 7.0



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## **Agenda**

- Housekeeping
- UC 7.0 overview
- Sikkerhed og Cisco ASA i UC sammenhæng
- Unified Communications Manager 7.0
- Mobility
- Presence og Unified Personal Communicator
- Integration til Microsoft
- Endpoints
- Trusted Relay Point
- Contact Center Express
- Unified Workspace Licensing update
- Diverse

## **SE** persongalleriet

Ent/Pub support





Channels support



AM



### **UC 7.0 - New or Enhanced Products**

#### **IP Telephony-Call Control & Endpoints**

Cisco Unified Communications Manager 7.0

Cisco Unified Communications Manager Business Edition

Cisco Unified Communications Manager Express 4.3

Cisco Unified SRST 4.3

Cisco Emergency Responder 7.0

Cisco Unified IP Phone Expansion Module 7915

Cisco Unified IP Phone Expansion Module 7916

Cisco Unified IP Phones

#### **Network Management**

Cisco Unified Provisioning Manager 1.3

Cisco Unified Operations Manager 2.1

Cisco Unified Service Monitor 2.1

Cisco Unified Service Statistics Manager 1.1

Cisco netManager Unified Communications 1.1

#### Security

IOS Firewall 12.4(20) T

Cisco Adaptive Security Appliance 8.0(4)

Firewall Service Module 4.0

#### **Tools**

Solution Expert 3.7

**Quote Builder 3.3** 

UC Solution Capacity Tool (UCSCT) 1.0

Licensing

Cisco Unified Workspace Licensing

#### Communications Infrastructure

Cisco Unified Border Element 1.2

Cisco ISR 880

Application eXtension Platform (AXP) for UC

#### **Unified Communications Applications**

Cisco Unity 7.0

Cisco Unity Connection 7.0

Cisco Unity Express 3.2

Cisco Unified MeetingPlace 7.0

Cisco Unified MeetingPlace and WebEx Integrations

Cisco Unified Presence 7.0

Cisco Unified Personal Communicator 7.0

Cisco IP Communicator 2.2

Cisco Unified Mobility 7.0

Cisco Unified Mobility Advantage 7.0

Cisco Unified Mobile Communicator 7.0

Cisco Unified Application Environment 2.5

Cisco Unified Communications Plug-Ins

WebEx Connect Widgets

#### **Customer Contact**

Cisco Unified Contact Center Express 7.0

Cisco Unified IP IVR 7.0

Cisco Agent Desktop for Cisco Unified Contact Center Express 7.0

Cisco Agent Desktop Suite for Cisco Unified Contact Center Enterprise 7.5

Cisco Unified Contact Center Enterprise, Hosted, and ICM 7.5 (includes Expert Advisor)

Cisco Unified Customer Voice Portal 7.0

Cisco Unified Intelligence Suite 7.5

**IBM** and Microsoft Interoperability



Cisco ASA 8.0.4 som UC Security Appliance



TLS Proxy – Securing the Campus

**Phone Proxy – Secure Remote Access** 

**Mobility Proxy – Unified Mobile Communicator** 

**Presence Proxy – Secure Business-to-Business Collaboration** 

## True UC Security Requires a Secure Network AND Secure Telephony

Secure Network

**Secure Unified Communications** 

**Secure Telephony** 



"Organizations must focus on creating efficiencies across all aspects of UCC ownership. Including: Hygiene, Compliance, Integration, Security & Identity and Management."

- Key Issues for Unified Communications & Collaboration; Gartner, 3/07

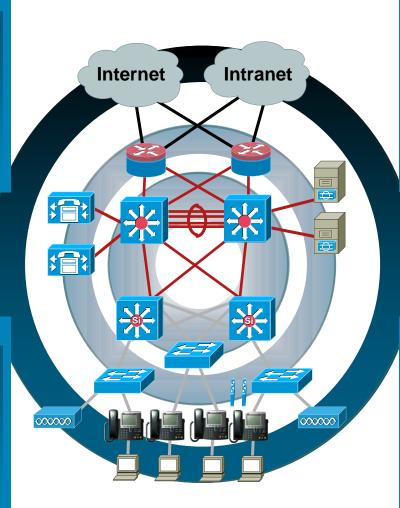
## **Secure Unified Communications Systems Approach in Action**

#### Infrastructure

- VLAN segmentation
- Layer 2 protection
- Firewall
- Intrusion detection
- QoS and thresholds
- Secure VPN
- Wireless security

#### **Call Management**

- Hardened Windows OS
- Digital certificates
- Signed software images
- TLS signaling
- Integrated CSA



#### **Applications**

- Multi-level administration
- Toll fraud protection
- Secure management
- Hardened platforms
- h.323 and SIP signaling

### **Endpoints**

- Digital certificates
- Authenticated phones
- GARP protection
- TLS protected signaling
- SRTP media encryption
- Centralized management



Cisco ASA TLS Proxy



## Large Enterprise Customer Challenge Solving the Firewall & Encryption Integration Problem

#### Customer Security policy mandates

- All Servers, including CUCM, must be firewalled for their protection
- Key end users must have all phone calls encrypted

#### Firewalls need to inspect the signaling traffic to

- Open Media pinholes
- **Apply Protocol Conformance**
- Apply Application Inspection and Control (AIC)

Encrypted calls must encrypt the signaling (TLS) because phones have the media encryption keys sent to them by CUCM via the signaling

#### **Problem**

Two key security functions cannot coexist or integrate

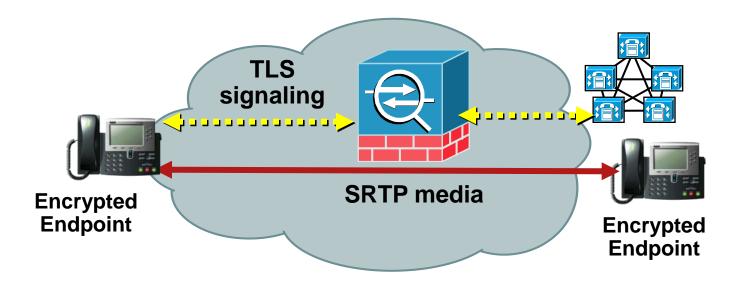
### **Customer Options**

Choose Encryption or Firewalling, but not Both

#### **Cisco Solution**

The ASA TLS Proxy (ASA 8.0)

## **Encrypted Voice Security Solution Security – UC – Network Integration**



## CUCM encrypted calls with SRTP/TLS can now be inspected by Cisco ASA 5500 Adaptive Security Appliances:

- Maintains integrity and confidentiality of call while enforcing security policy through advanced SIP/SCCP firewall services
- TLS signaling is terminated and inspected, then re-encrypted for connection to destination (HW Based encryption)
- Dynamic port is opened for SRTP encrypted media stream, and automatically closed when call ends

**NOTE:** Not the same as Phone Proxy – **NOT** designed for Remote Access phones



Cisco ASA Phone Proxy



## Cisco Unified Secure Remote Access One Solution for Diverse Remote Access Needs

Clientless **VPN Access** (Web based data apps)

**SSL VPN** (Softphones and data apps)

**Phone Proxy** (Cisco IP **Phones** 

**IPsec VPN** (Softphones, 3rd party phones and data apps)









**Mobility Proxy** (CUMC, iPhones etc)

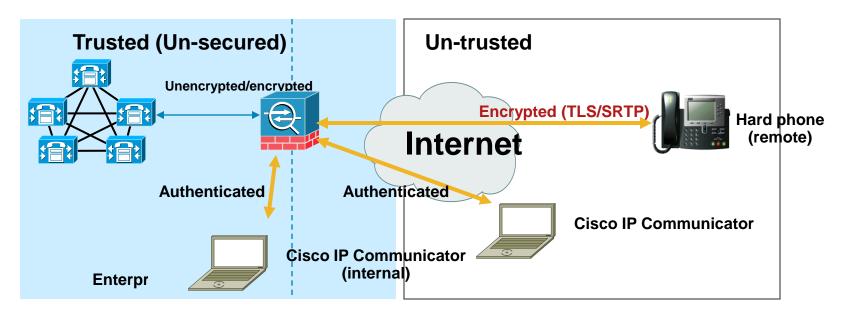






## **Cisco ASA Phone Proxy Solution**

### Remote Access and Voice/Data Segmentation

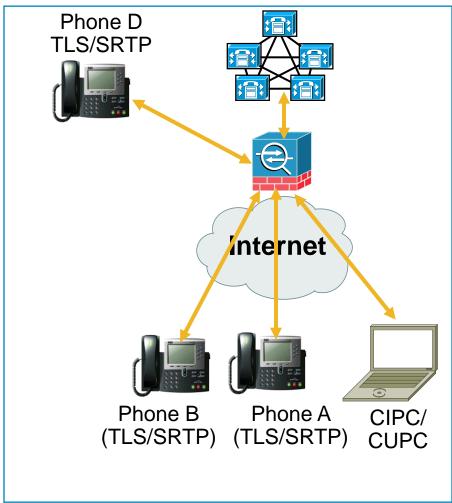


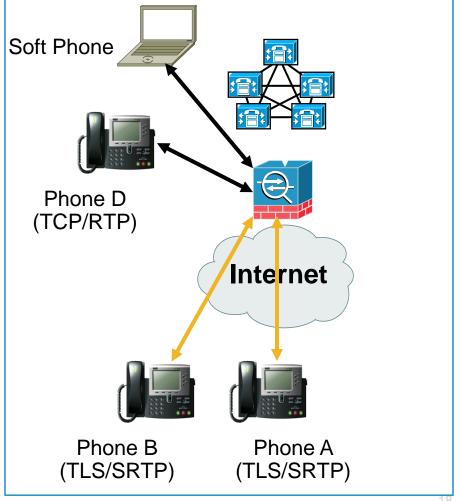
### **Secure Remote Access and Campus Segmentation:**

- Leverage native Cisco IP Phone encryption (TLS/SRTP) to enable secure calls from IP Phones on untrusted, remote networks
- Seamless deployment and operation with minimal impact on existing UC infrastructure
- Simplified user experience Plug and play
- Optional campus deployment for Secure VLAN traversal for Cisco IP Communicator (Roadmap – Q4 2008)

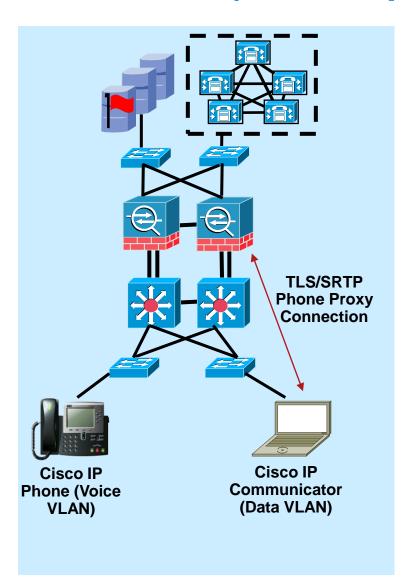
## **ASA Phone Proxy For Remote Access**

Mixed Mode CUCM Cluster Not Supported (Roadmap) Non-Secured CUCM Cluster Supported





## Cisco ASA Phone Proxy for Secure VLAN Traversal (Roadmap Q4 2008)



- Provides Secure VLAN traversal Better than stateless ACL's No policy routing needed
- Softphone connections utilize Phone Proxy

**Authenticate Soft Client** 

**Encryption of signaling and media is optional** 

Data-Voice VLAN communication media is proxied via ASA

IP Phone communicates as normal with CUCM

Only sends media to ASA when communicating with soft client on Data VLAN

- Support predicated on clients (Cisco IP Communicator) supporting TLS/SRTP
- Cisco Unified Personal Communicator & Video clients are not supported

## **TLS Proxy vs Phone Proxy**

#### **Positioning**

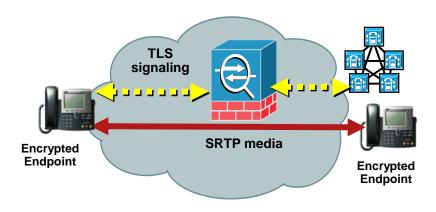
- TLS Proxy provides encryption and firewall interworking for CUCM clusters; A solution for encrypted phones and **CUCM** in Secure Mode
- Phone Proxy provides for remote access and SoftPhone vlan traversal for encrypted and non-encrypted phones
- Phone Proxy is a super-set of TLS Proxy functionality

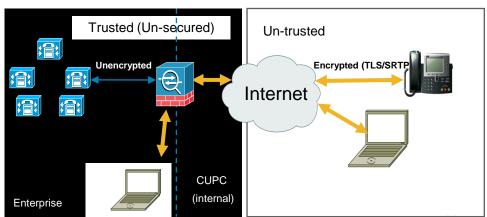
#### **TLS Proxy**

Only manipulates TLS signaling – does not touch the media (SRTP/RTP)

#### **Phone Proxy**

Manipulates signaling, media and creates its own CTL file





## Secure UC Remote Access Technology Positioning

- Phone Proxy using TLS/SRTP ideal for Remote Cisco IP Phones
   Campus VLAN traversal for Softphones
- Phone Proxy using TLS/SRTP NOT suitable for Remote Softphones (CIPC/CUPC)
   3<sup>rd</sup> party Phones
- Client desktop based IPSec/SSL VPN ideal for Remote Soft Clients (including data applications) – CIPC/CUPC 3<sup>rd</sup> party Phones (Nokia, iPhone etc)
- Client desktop based IPSec/SSL VPN NOT suitable for Cisco IP Phones
- VPN Router based IPSec ideal for Small or Home Office telecommuting – Premier Teleworkers
- VPN Router based IPSec NOT suitable for Small or Home Office telecommuting – Casual or Mobile Teleworkers

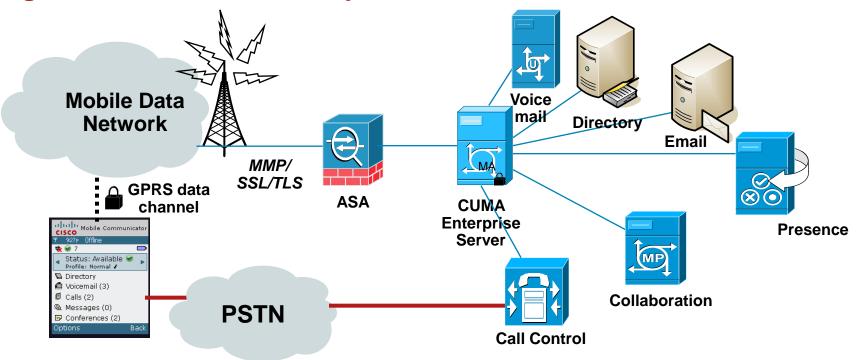


Cisco ASA Mobility Proxy



## Cisco ASA and Mobility Proxy

**Integration with Cisco Mobility Solutions** 



#### **Secure Mobile Access:**

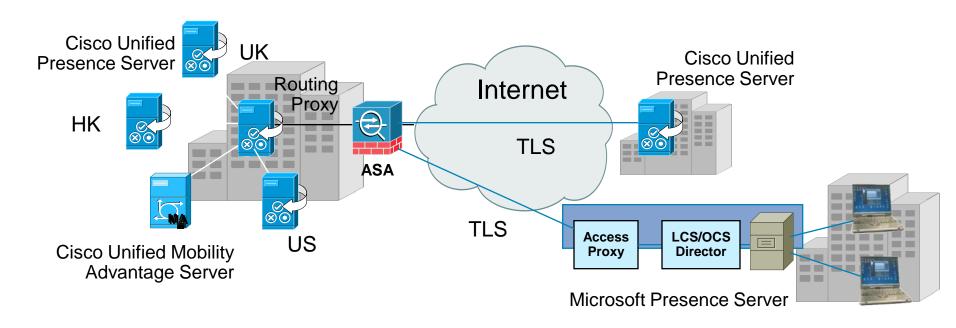
- Tightly integrated solution for mobile unified communications clients
- Secure integration of mobile devices using Cisco Unified Mobility Client
- **Protection for the Cisco Unified Mobility Advantage Server through** dedicated inspection engine for MMP signaling protocol



Cisco ASA
Presence Proxy



## Cisco ASA and Presence Federation Integration with Cisco and 3<sup>rd</sup> party Presence Solutions



#### **Secure Presence Federation:**

- Tightly integrated solution for inter and intra company presence federation
- Confidentiality through TLS Proxy encryption services
- Protection for the Cisco Unified Presence Servers with granular policy enforcement capabilities



Cisco Unified Communications Manager (CUCM) version 7.0



## Cisco Unified Communications Manager 7.0

### **Solution**

- Customer choice
  - Dialing and routing options (E.164)
  - SIP features, security
  - Simultaneous Ring with Cisco Unified Communications Manager and MS OCS 2007
- Mobile call features
  - Dial via PBX forward
  - Time of day access list
  - Mobility On/Off from Deskphone
- Business Edition LDAP integration
- Click to conference with IBM Sametime
- T.38 fax with MS Exchange
- No OSI

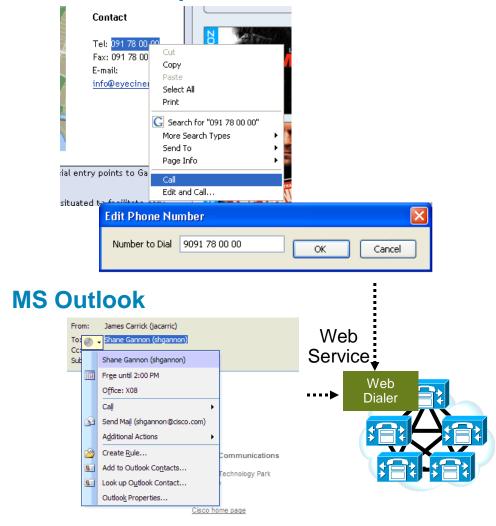




## Quickly Call Co-workers, Customers, Partners Using Cisco Click-to-Call Plug-in

- Save time with Click-to-Call for Microsoft Office, Outlook, IE and other applications
- Select and right-click to call
   MS Office: Word, Excel, PowerPoint
   MS Outlook
   MS SharePoint
   MS Internet Explorer
   Mozilla Firefox
   C2D URL support
- MS Persona menu support
   MS Outlook
   MS SharePoint
- System Tray
   Dialled numbers
   Edit and Call (with clipboard content)
- No additional infrastructure
   Simple desktop install only

**MS Internet Explorer & MS Office** 





# Cisco Mobile Unified Communications Solution



### Cisco Mobile Unified Communications Solution Portfolio

## Wireless IP Phone

## Single Business Number & Voice Mail (Unified Mobility)

## Seamless Mobile Collaboration





Cisco Unified Wireless IP Phone (792x)

Single-Mode Wireless IP phone on Cisco Unified Wireless Network







Mobile Business Solution from Cisco

Dual-mode mobile phone is a wireless extension of IP Phone on Cisco Unified Wireless Network



Cisco Unified Mobility

Business calls are extended from IP Phone to any mobile phone over cellular network



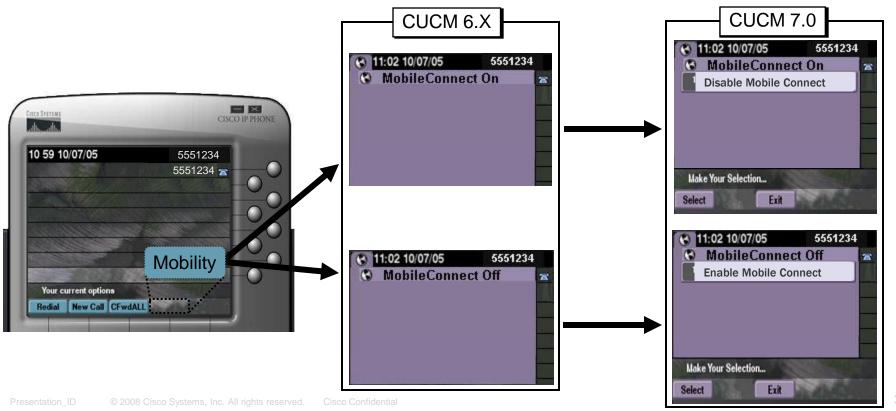
Cisco Unified Mobile Communicator

Unified Communications experience is available on mobile phones and smart phones

## **Unified Mobility Mobile Connect Toggle**



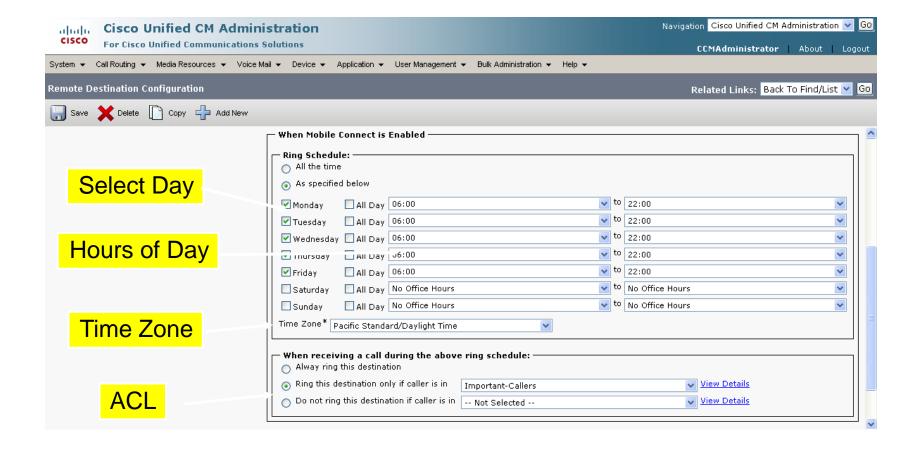
- Mobile Connect can be enabled or disabled using the Mobility softkey.
- Functionality available in On Hook state
- Enable/Disable Mobile Connect for all RDs



## **Mobility Time of Day**

- Time of Day routing will either allow or deny calling to a remote destination based on a defined time schedule
- Uses Access Control Lists to include/exclude calls
- User or administrator can configure time schedule for each remote destination
- Default time of day call routing behavior is same as Unified CM 6.x

## **Mobility Time of Day: Selecting Day and Time Range**



### **Cisco Unified Mobile Communicator**

Extend rich mobile unified communications experience to smart phones

- Mobile presence status and availability
- Real-time personal & corporate directory access
- Dial-via-Office
- Single Number Reach on/off

- Visual business voicemail
- Integrated office and mobile call history
- Conference alerts on the go
- Secure text messaging







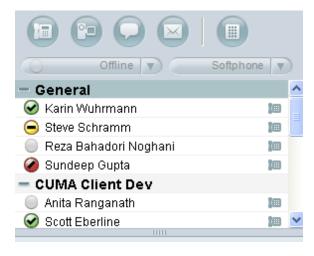
### **Presence Unified with CUP**



 Presence shared across Cisco Unified Personal Communicator and Cisco Unified Mobile Communicator

 Buddy list synchronized with Cisco Unified Personal Communicator





### **Dial via Office**

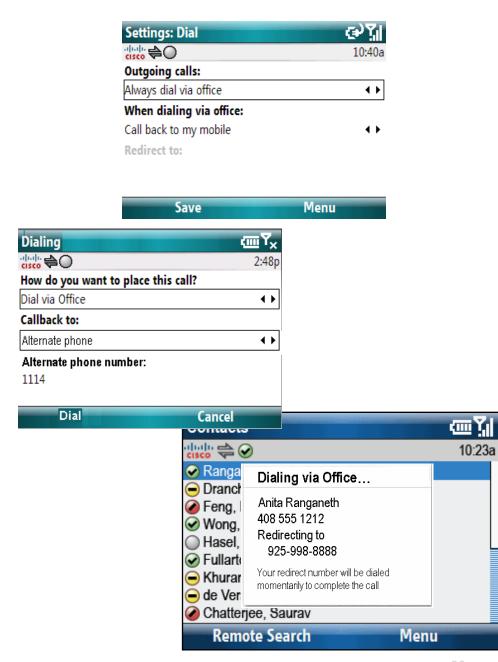
 Admin or user defined Dial via Office Setting

Always on

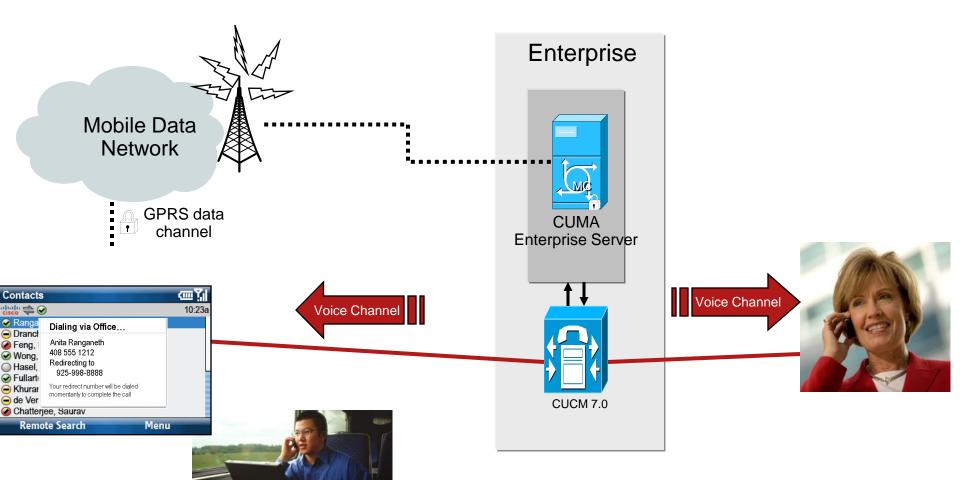
Always off

Choose on a per call basis

- Call dialed via CUCM (using reverse call back)
- Emergency calls go direct
- Ability to reverse call back to alternate endpoint

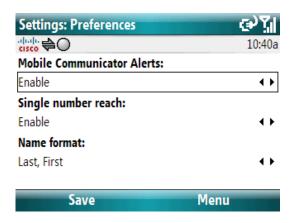


## Dialing Via Office (i.e., Dial via CUCM)



## Single Number Reach (Unified Mobility) On/Off

 Ability to enable/disable Single Number Reach from mobile device



## Cisco Unified Mobile Communicator Cisco Unified Mobility Advantage

 CUMC v7.0 client for Windows Mobile 6 OS

Samsung Blackjack II & Motorola Q9H target handsets at FCS

Additional handsets "cascaded" post FCS

 CUMC v3.0 clients on BlackBerry and Symbian will work against CUMA v7.0 server

Support for BlackBerry OS and Symbian OS will be phased after release of Windows Mobile OS.



## iPhone Update

- iPhone client under development
- Focus on collaboration capabilities

Click-2-join meetings

View Roster

**View Share** 

Move sessions from mobile to desktop & back (dusting)

Work across hosted (WebEx) and on-premise (MeetingPlace)

H1 2009



## **Global Operator Support**

CUMC 7.0 clients available for all operators

Improved "keep alive" algorithm adjusts optimal connection across different mobile networks

No need for operator-specific testing

CUMC v7.0 localized clients
 Roadmap H1 2009

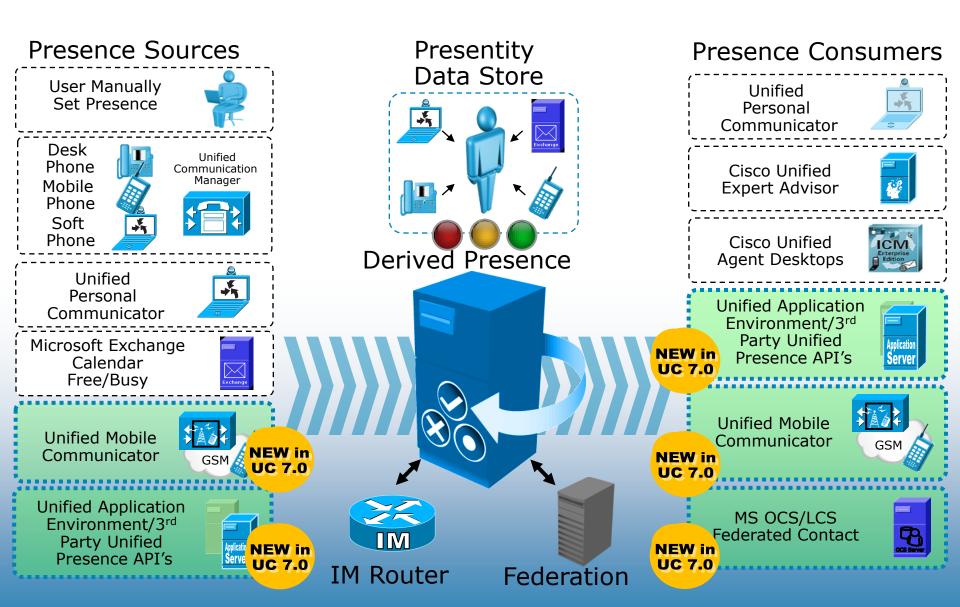




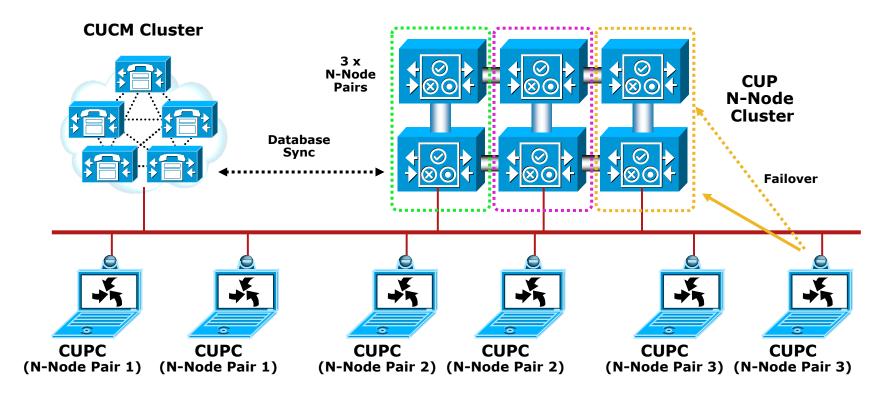
Cisco Unified Presence (CUP) og
Cisco Unified Personal
Communicator (CUPC)



### **Cisco Unified Presence**



## Cisco Unified Presence 7.0 SCALE: N-Node Clustering



- Cisco Unified Presence introduces N-Node Clustering.
- This allows an administrator to create a CUP cluster to support larger CUCM deployments

NOTE: Clustering over the WAN with N-Node requires UCBU approval

### **Cisco Unified Presence 7.0 Extensibility: API's and Key Points**















**Phone App** 

Web 2.0 Widget

MS Exchange / IBM Sametime / Siebel / PeopleSoft

























3rd Party **Application** 

#### **CUP API**

Provides SOAP, REST and **SIMPLE** interfaces for **CUAE** and 3rd Party **Application Developers** 

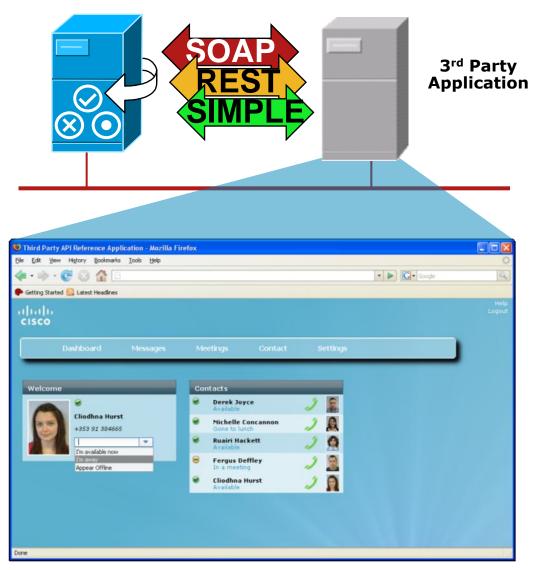
#### **Business Applications**

Allows integrations to business applications such as MS Exchange, Siebel and PeopleSoft

#### **VMware Player**

**CUAE Software** development toolkit will provide a VMware Player image for CUP

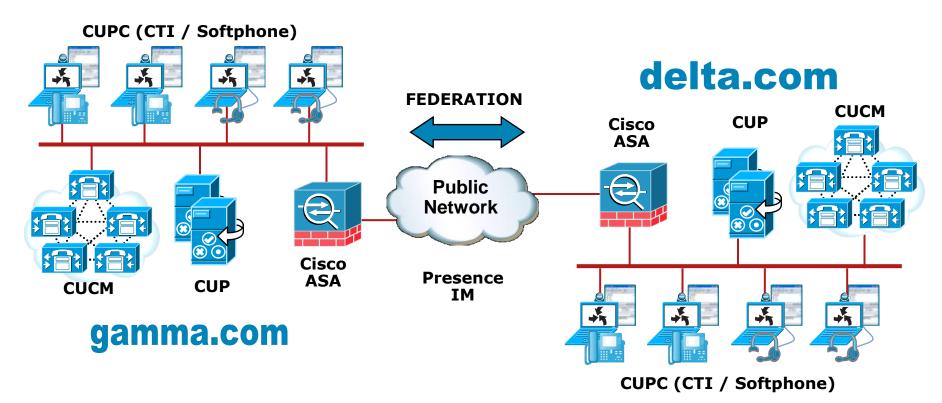
## Cisco Unified Presence 7.0 Extensibility: CUP API's Reference App



- CUP 7.0 exposes development API allowing 3<sup>rd</sup> party developers access SOAP and REST interfaces which provide
- Buddy/Contact lists access
- Set Presence
- Read Presence

Third Party API
Reference Application

## Cisco Unified Presence 7.0 Federation Solution Diagram #1 (CUP/CUP)

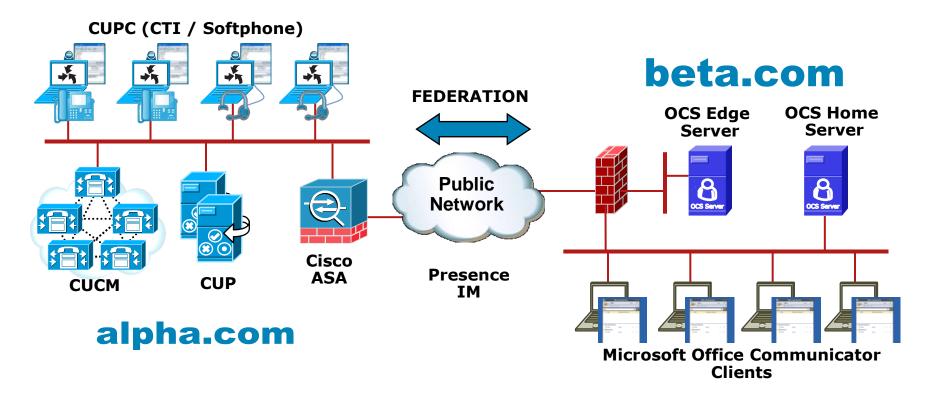


Use Case: Inter-Domain federation supports both IM and Presence federation between different enterprises.

This is to allow for inter-working between CUPC and CUPC where CUPC is in one enterprise and CUPC is in another enterprise

This includes support of users of both clients on a client buddy list, sending/receiving IM, and sending/receiving status updates

## Cisco Unified Presence 7.0 Federation Solution Diagram #2 (CUP/OCS)



Use Case: Inter-Domain federation supports both IM and Presence federation between different enterprises.

This is to allow for inter-working between MOC and CUPC where MOC is in one enterprise and CUPC is in another enterprise

This includes support of users of both clients on a client buddy list, sending/receiving IM, and sending/receiving status updates

## Cisco Unified Personal Communicator 7.0 New Features – Key Points

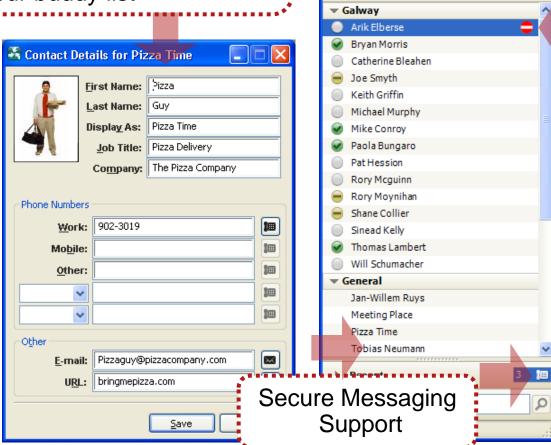
👫 Bryan Morris - 81384675 📳 🗖

Softphone

View Contacts Actions Help

Available

"Pizza Guy" supports allows you to add a non-presence aware/ speed dial contact to your buddy list



Contacts can now be blocked with visual indication of state plus managed via Privacy Preferences

"Do Not Disturb" state will now sync with CUCM DND status

Federated Contacts can be added to Contact List

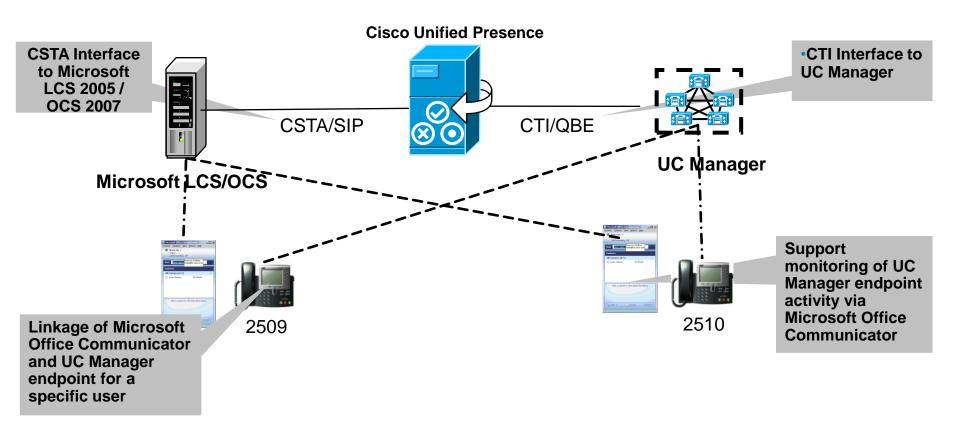
CUPC can be minimized to the system tray



Microsoft Office Communicator Integration

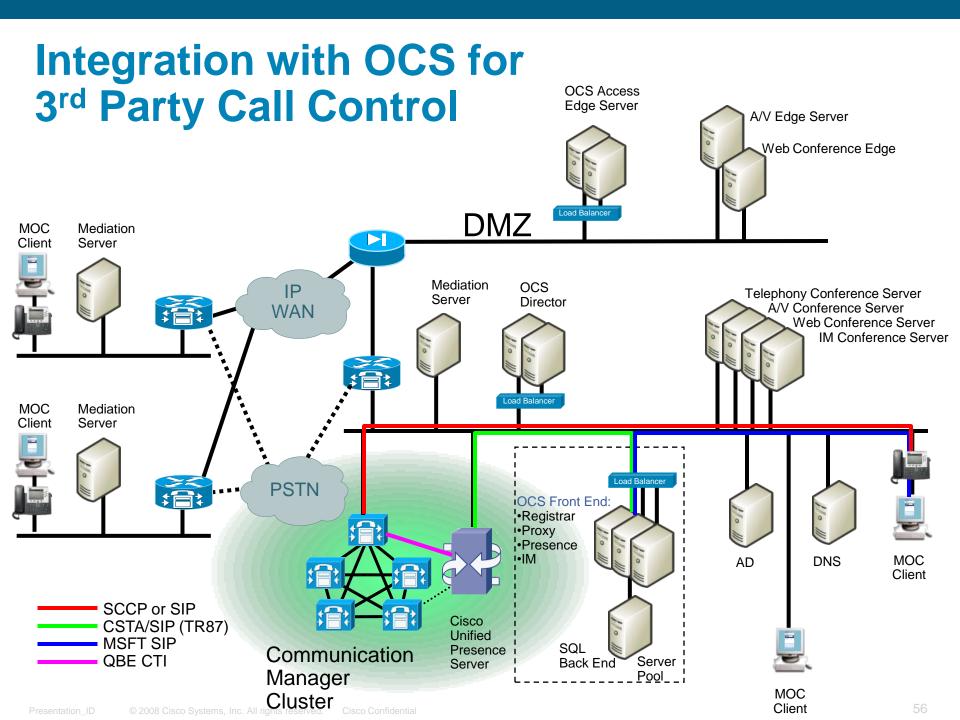


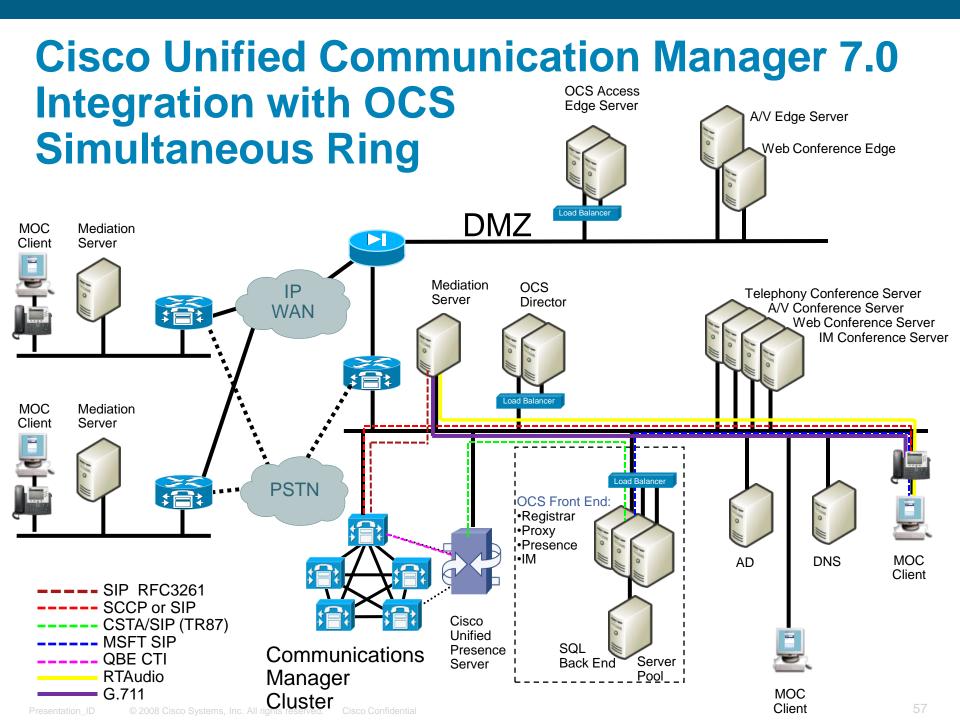
## Integration with OCS for 3<sup>rd</sup> Party Call Control CTI-GW Feature Interaction



Support call establishment and call modification for CallManager endpoints via Microsoft Office Communicator:

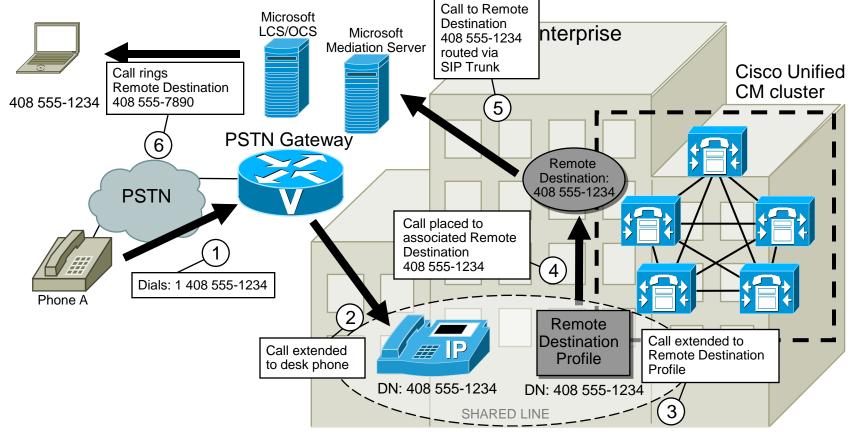
Make call, Answer call, Clear connection, Deflect, Hold, Retrieve, Consultation, Single step transfer, Transfer, Alternate, Reconnect, Generate digits, Set/Get forwarding, Set/Get DND





## CUCM – OCS Simultaneous Ring Flow

**Dual-Forking using CUCM Unified Mobility** 



Call to Enterprise directory number rings at desk phone and Remote Destination phone (i.e. Microsoft Office Communicator)

- Call can be answered at either Cisco Phone or Microsoft Office Communicator
- Once answered all other call legs are cleared
- Mediation Server is required and SIP Trunk must be configured to point to it
- Call Admission Control only works for IP Phone



## **Endpoints**



## Wireless Phone 7925G

- 802.11a/b/g
- Color display (same size as 7921G)
- Bluetooth 2.0
   Bluetooth and WLAN co-existence
- Hermetically sealed
   Resistance to dust, liquid splashes, and moist wipes

   IP-54 rated
- Rugged
   More resistant to drops, shocks, and vibration
   MIL-STD-810F
- Does not support the 7921 Base Unit
- Supported on CUCM 4.1x / CME: 4.3
- Schedule

**EFT: In Progress** 

FCS: Early Nov '08





### Cisco Unified Wireless IP Phone

### 7925G Hardware



## 7925 Gang Charger

- Charges 6 phones and 6 batteries simultaneously
- Desk mount or wall mount options



## 3<sup>rd</sup> Party Accessories

 Desktop charger from zCover (<u>www.zcover.com</u>)

Charges phone and spare battery

Can accommodate phone fitted with zCover case

- Multi-Charger for battery only from zCover
   Charges 9 batteries
   Desk mount or wall mount options
- Carry cases from zCover and System Wear (<u>www.systemwear.com</u>)







### **EoS/EoL Announcements**

7941G-GE, 7961G-GE, 7970G, & 7971G-GE

Last Sale Date = Aug 1 '08

Hardware-only EoS. Firmware releases/feature development continues

79xx Model Number / Product	EoS Announcement - Estimate	Last Sale Date - Estimate
<b>Cisco Attendant Console</b>	Oct 2008	April 2009
7914	Oct 2008	Apr 2009
7936	Jan 2009	July 2009
7940G	Jan 2009	July 2009
7941G, 7961G	Jan 2009	July 2009
SIP Load on 40/60/ATA	Jan 2009	July 2009

### **Portfolio Evolution**

Hi-res displays, lighted line keys

**Enhanced** Power & Data **Throughput** 

**Options** 

**Enhanced Applications** Capability

**Unicode Support /** Asian Localization

#### **User Experience-focused:**

- Designed for Wideband/hifidelity voice, adds iLBC
- Choice of models with **Gigabit Ethernet and large** backlit color displays
- Improved navigation and UI

#### Classic IP Phones



**Business Cisco Unified IP** Phone 7960G



**Cisco Unified IP** Phone 7940G



Cisco Unified IP

Phone 7941G/GE

Cisco Unified IP Phone 7975G Cisco Unified IP Phone 7945G/65G **Cisco Unified IP** Phone 7942G/62G

Cisco Unified Communications Manager

4.1, 4.2, 4.3, 5.1, 6.0+

Java-based '3rd-gen' platforms

### Cisco IP Communicator 7.0

- 8.3.x IP Phone Firmware
- Silent Monitoring for contact centers
- SRTP Encryption (signaling and media)
- iLBC codec
- G.722 Wideband Codec
- Target Release Date: Nov 2008

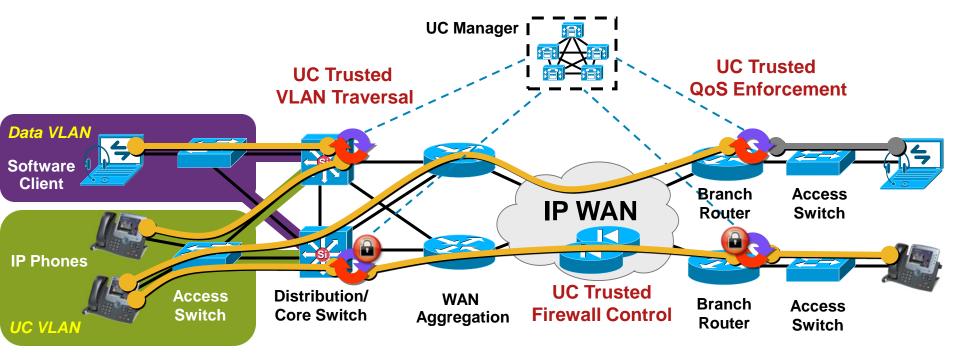




# Trusted Relay Point (TRP)

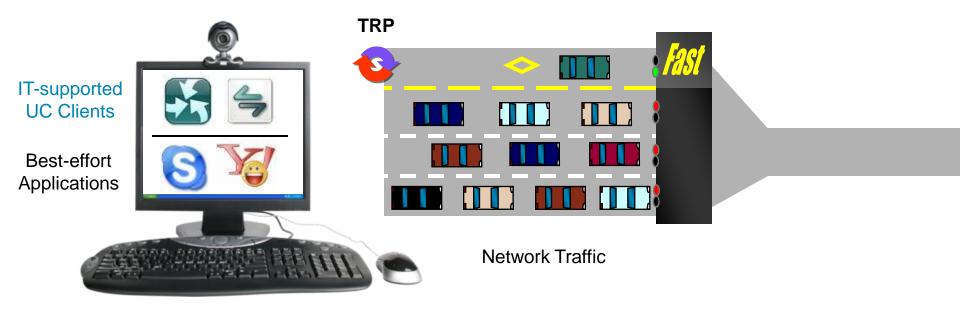


### **Trusted Relay Point (TRP) Overview**



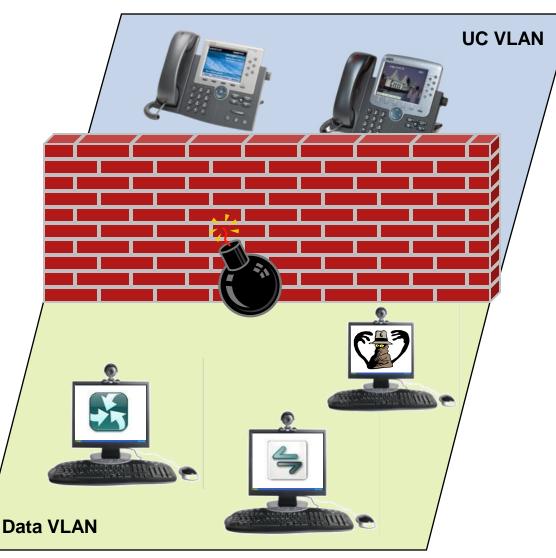
- Software function that runs on Cisco network devices such as campus switches and routers (similar to an MTP)
- Inserted in the call flow by CUCM 7.0 (or CUCME 4.0) based on config
- Provides trusted anchoring point for media to enable several functionalities (QoS enforcement, Trusted VLAN traversal, ...)

### UC Trusted QoS Enforcement Network-based QoS for Software UC Clients



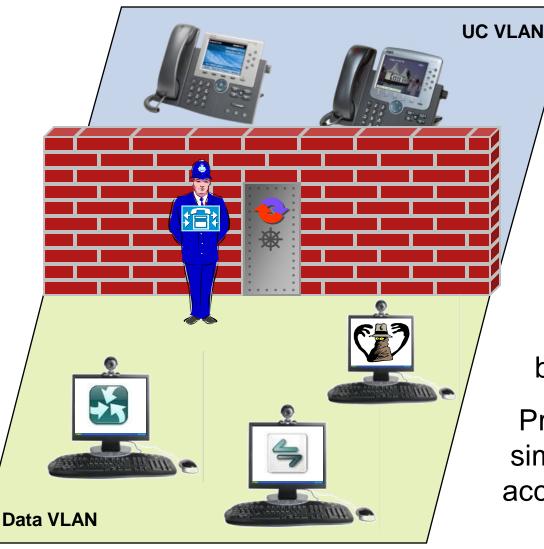
- User-controlled PC's are typically untrusted devices
- Cisco UC collaborates with Cisco network devices to enable QoS and call admission control for IT-supported UC clients
- Simple solution that provides software clients the same realtime network treatment available to hardware endpoints

# UC Trusted VLAN Traversal Controlling Access to UC VLAN's (1)



Mechanisms based on ACL's rely on port numbers—no way to ensure only 'trusted' media enters UC VLAN

# UC Trusted VLAN Traversal Controlling Access to UC VLAN's (2)



Mechanisms based on ACL's rely on port numbers—no way to ensure only 'trusted' media enters UC VLAN

TRP enables you to limit entry into UC VLAN only to media streams controlled by CUCM (or CUCME)

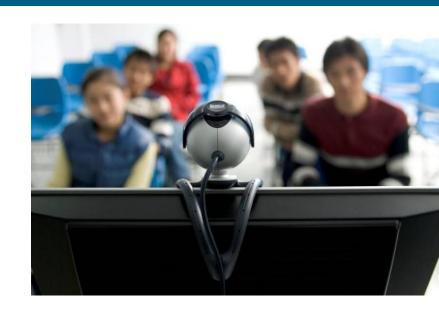
Provides an effective and simple mechanism to control access to UC VLAN's

## What's New in 7.0?



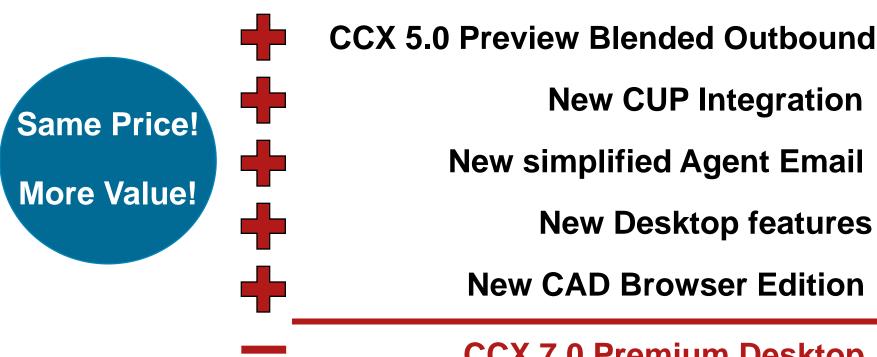
### **Overview**

- New Premium packaging
- New desktop features overview
- Presence integration
- Agent E-Mail



## **Unified Contact Center Express 7.0 Premium Repackaging**

**CCX 5.0 Premium (inbound voice only)** 



**CCX 7.0 Premium Desktop** 

#### **Additional Cost Options:**

WFO: Quality, Advanced Quality & Workforce Managers

**CIM**: Email and Web Interaction Managers

New Features for Unified Contact Center Express 7.0(1)



## Cisco Agent Desktop - Express 7.0(1) New Feature Set

New CAD Features	Benefits
Cisco Unified Presence (CUP) Integration	First Call Resolution
Agent E-Mail	Enhanced Capabilities
Cisco Agent Desktop Browser Edition	Ease of Installation
Embedded Browser Enhancements	Flexibility for Third-Party Apps
Web Administration	Ease of Use
Work Flow Enhancements	Flexibility for Third-Party Apps
Danish, Finnish, Norwegian, and Russian Localizations	Ease of Use
Enhanced Agent and Supervisor Accessibility (VPAT)	Usability
Global & work flow Specific Codes and Phone Directories	Ease of Use

## Extending the Contact Center with Collaboration: Unified Contact Center Express with Presence!

- Agent and supervisor desktops are presence enabled via integration with Cisco Unified Presence Server
- Available at no additional charge in Standard, Enhanced and Premium
- Unified Contact Center Express with Presence:

Enhances collaboration throughout the enterprise

Provides agents with visibility to key operational experts

Increases agent productivity and First Contact Resolution



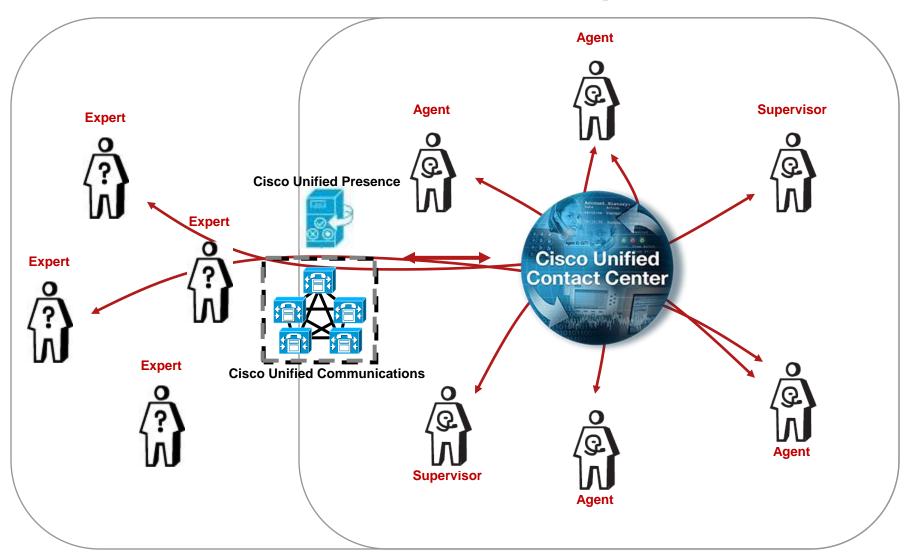




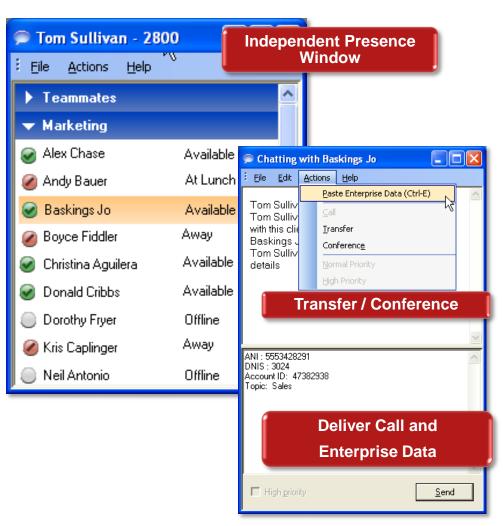
#### Demos can be found at

http://www.cisco.com/en/US/partner/products/sw/custcosw/ps1846/prod presentation list.html

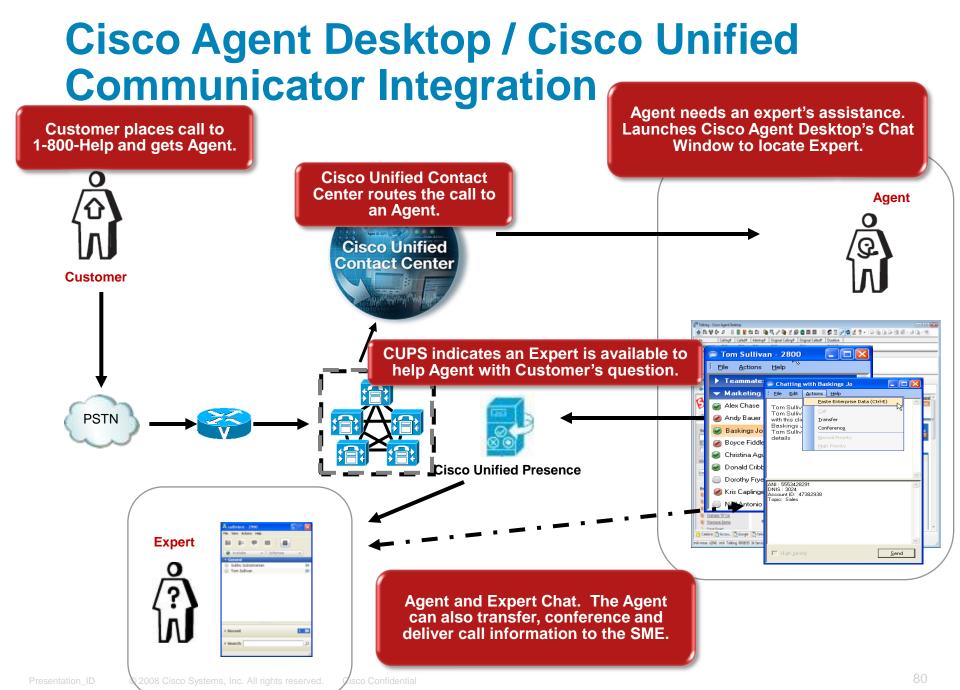
# Cisco Agent Desktop / Cisco Unified Communicator Integration



## Cisco Agent Desktop Communicating with Subject Matter Experts



- Agents and Supervisors see "Subject Matter Experts" (SMEs) who use Cisco Unified Personal Communicator
- Agents initiate chat, call, transfer, or conference with SMEs
- Administrators control visibility of contacts
- Presence selection window is independent and updated with the latest Agent ACD state and SME Presence State



## Extending the Contact Center with E-Mail Customer Interaction – Agent E-Mail!

 An alternative informal email interaction management service

Not a replacement for Cisco Unified E-Mail Interaction Manager

 Agent E-Mail provides a core feature set for managing e-mails

Distributes e-mails to agents

Sends responses from the contact center to the customer

Provides real-time and historical reports on e-mail activity

 Zero footprint, browser based and fully integrated with Agent and Supervisor Desktops NOTE: Availability
October, 2008 with CCX
7.0(1) SR1







Cisco Agent Desktop and Agent E-Mail



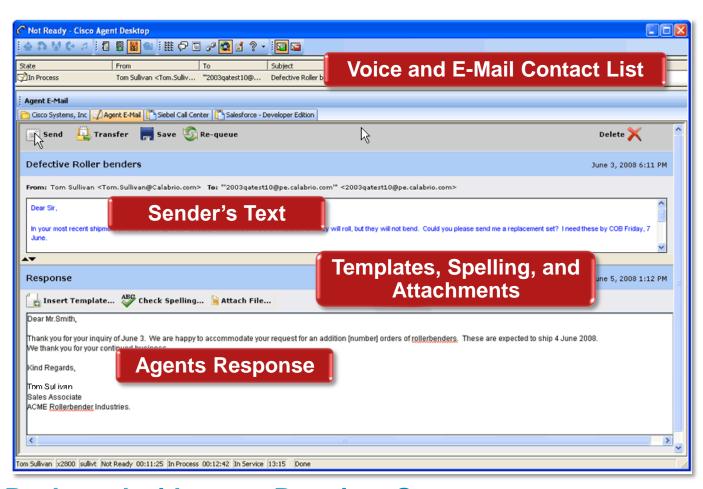
Check out the demo!

Demos can be found at

http://www.cisco.com/en/US/partner/products/sw/custcosw/ps1846/prod presentation list.html

### Cisco Agent Desktop - Agent E-Mail\*#

- Core feature set for managing contact center emails
  - Distributes emails to agents
  - Sends responses from the contact center to the customer
  - Reports on e-mail activity
- Tightly integrated into Agent and Supervisor Desktop GUIs

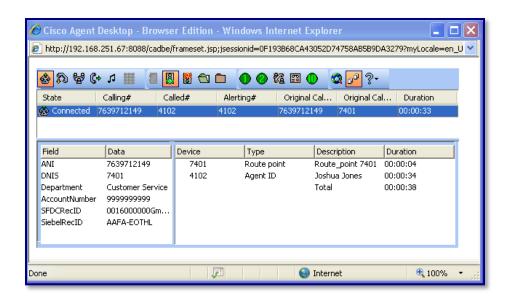


Packaged with every Premium Seat Requires release 7.0(1) SR 1

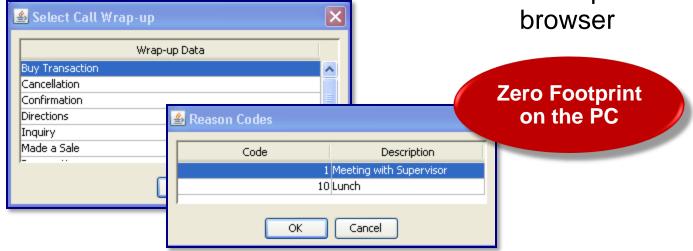
## **Agent E-Mail Administration**

- Enabling Agent E-Mail for Unified Contact Center Express
   7.0(1) requires the following steps:
  - Enable IMAP service and create the target Mailbox Account and Distribution Lists within Microsoft Exchange
  - Create one or more CSQs in Contact Center Express Administration
  - Configure Agent E-Mail Settings in Cisco Desktop Administrator
  - Assign Agents to Agent E-Mail CSQ Resources in Contact Center Express Administration

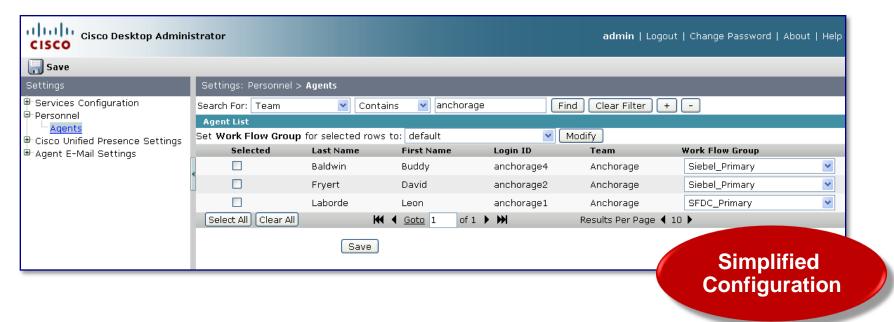
### Cisco Agent Desktop – Browser Edition



- Browser Edition client can operate on Windows and Linux operating systems
  - Firefox and Internet Explorer
- Support Reason / Wrap-Up Codes
- Coordinated screens pops via http into external browser



### Cisco Agent Desktop – Web Based Administration



- Cisco Desktop Administrator ported to a web application.
  - Configuration settings for Agent Work Flow Group assignments, Enterprise Data, Agent E-Mail, Monitoring and Recording Setting, Integration with Cisco Unified Presence

## Cisco Desktop Admin Enhancements Web Based Administration

- Cisco Desktop Administrator is migrating functions to a web module. The following components are now configured on the web-based CDA:
  - Agent E-Mail
  - Services Enterprise Data, Monitoring and Recording Setting
  - Personnel Assignment of Agents to Work Flow Groups
  - Cisco Unified Presence Integration of Cisco Agent Desktop with CUP users
- Work Flow Administration is still configured on the existing thick client



# Cisco Unified Workspace Licensing update



# Simplest, Easiest, Most Cost-effective Way To Unify The Workspace

### **Cisco Unified Workspace Licensing**

Now your organization can flexibly meet its business needs by procuring a broad range of Cisco Unified Communications applications and services on a per-user basis.

Includes:

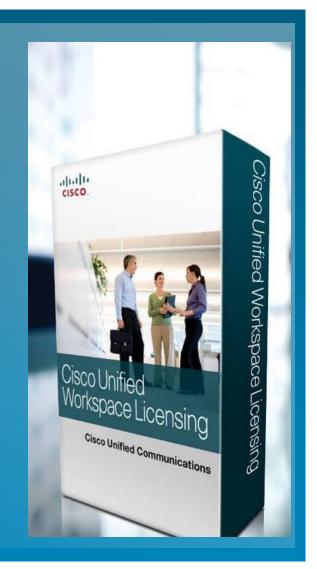
**UC** client software

UC server software

UC access rights

All in a single user license!

- At a great price
- With 3-years of upgrades and service



### **New Items**

- New ways to license public space devices
- Promise of UCSS
- Changes to Standard Edition
- Changes to Professional Edition
- New Migration Paths
- ESW Tiered Pricing
- Business Edition



### **New Way to License Public Space Devices**

- Add analog and public space device licenses for conference rooms, lobbies, fax machines, wall phones, etc.
- Analog Device does not include gateways or other hardware
- Public Space IP Phone may not exceed 15% of total IP Phones on order
- Not to be used for dedicated employee phones
- Cannot use applications with these devices (e.g. no voicemail)

Cisco Unified IP Conference Station 7937G

## Unified Workspace Licensing and UCSS Future-proof your UC investment

- UCSS on Unified WL offers all updated versions of applications in Unified WL when they are released
- New applications added to Unified WL are also immediately available. As UC advances you always get the newest products.
- Several applications added in August 2008 and more planned in the future
- Customers who bought in FY08 get additional value at no extra cost



### **Changes to Standard Edition**

- Now includes Unified Messaging with Cisco Unity
- All existing customers with valid UCSS get unified messaging and any additional applications that may be added in the future

Functionality	What Is Included in Cisco Unified Workspace Licensing	
Presence	Cisco Unified Presence Profile	
Mobility (with Sim Ring services)	Cisco Unified Mobility Profile	
Soft Client	Cisco Unified Personal Communicator or Cisco Unified IP Communicator with Cisco Unified Video Advantage	
Messaging	Cisco Unity or Cisco Unity Connection User (Now includes Unified Messaging)	
Call Control	License for One Cisco IP Phone Per User	

### **Changes to Professional Edition**

- Contact Center Express added to Professional Edition
- All existing customers with valid UCSS get CCX and any additional applications that may be added in the future

Functionality	What Is Included in Cisco Unified Workspace Licensing (CUWL)
	In addition to everything you get in Cisco Unified WL Standard Edition
Video Conferencing**	Cisco Unified MeetingPlace Express (25 CUWL=1 Port)
Web Conferencing**	Cisco Unified MeetingPlace/MeetingPlace Express Port (25 CUWL=1 Port)
Audio Conferencing**	Cisco Unified MeetingPlace/MeetingPlace Express Port (25 CUWL=1 Port)
Contact Center**	Cisco Unified Contact Center Express Standard Agent (25 CUWL=1 Agent)
Mobile Smart Phone Client	Cisco Unified Mobile Communicator Client
Call Control	License for Unlimited Cisco IP Phones Per User

<sup>\*\*</sup> Additional ports/agents can be purchased a la carte if more capacity is needed

### **New Migration Paths**

- New migration SKUs for customers who have an application but no Unified Communications Manager
- Allows you to move Unity customers to the full UC suite
- Other migration SKU pricing unchanged, despite Unified WL price increases

Existing User	Target User
Cisco Unified Communications Manager	Standard Edition
Cisco Unified Communications Manager	Professional Edition
Cisco Unified Communications Manager + Any Application in Unified WL	Standard Edition
Cisco Unified Communications Manager + Any Application in Unified WL	Professional Edition
Any Application in Unified WL	Standard Edition
Any Application in Unified WL	Professional Edition
From Unified WL Standard Edition	Professional Edition



### Diverse



Korte "teasers" om nogle af de ting, der ikke var plads til at gå i dybden med idag.

## Cisco Voice and Unified Messaging Reduce costs while maximizing productivity

#### Cisco Unity 7.0:

New scalability: 200 port, 15k user single systems Enhanced Telephony User Interface (TUI) addressing Automated recognition of alternate extensions

#### Cisco Unity Connection 7.0:

Increased scalability: 10k users and 144 ports on a single server

2 server active-active clustering for redundancy

Up to 50k users in a single messaging network

Voicemail player within Outlook

Active Directory synchronization for 10,000 users

#### Cisco Unity Express 7.0:

Centralized voicemail, auto attendant and management for up to 10 Cisco Unified CME sites

Authentication, authorization and auditing functions

Password synchronization between Cisco Unified CME and Unity Express



### **Cisco Unified MeetingPlace 7.0**

New Hardware platform – New Integrations

#### Solution:

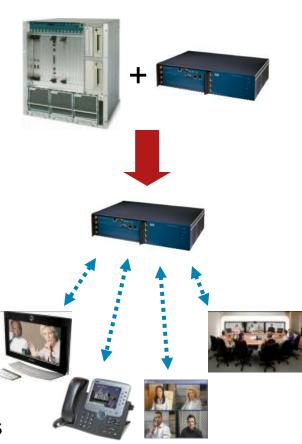
- Single server for voice and video conferencing
- Click to conference from SameTime
- WebEx Web conferencing integration
   Setup from Cisco Unified MeetingPlace or WebEx UI

#### Why Care:

- More scalable target larger deployments
- Simplified architecture, install and management
   Reduce servers, complexity for voice & video
   Expanding Partners able to sell >> UC Specialization
- Increases preference with IBM and WebEx users

#### **User Experience Improvements:**

- Consistent experience across voice and video access
   single number, recording, controls (e.g. mute)
- Auto login, meeting entry phone number recognition



### **Cisco Unified Provisioning Manager**

Cisco Unified Provisioning Manager (CUPM)
 Ingen problemer med danske karakterer i CUPM 1.3

### Cisco VG202 & VG204 Analog Voice Gateways



NOV CY2008

For Enterprise Branch
Offices and Small &
Medium Businesses

- Desktop form factor
- WAN 2 10/100 Mbps Ports
- Voice 2 FXS or 4 FXS Voice Ports
- Protocol Support SCCP,SIP,MGCP,H.323

 Unified Communication Analog Gateway solution for Enterprise Branch office and SMBs

Ease of operation—Cisco® IOS®-based

Provides consistent usability with the rest of the Voice Gateway Integrated Services Routers (Cisco 2800, 3800 Series)

Next-generation platform architecture supports SCCP,SIP and Secure Voice

Desktop form factor with fanless design

Best of Breed Hardware

Robust Analog Interfaces

Two 10/100 Mbps ports for dual homing

Proven and consistent DSP technology used across Cisco Platforms

## Cisco 880 SRST Integrated Services Router



### For Small Branch, Enterprise Teleworker or Remote Call Center Agent

- Desktop form factor
- WAN Interfaces: FE, VDSL2\*, G.SHDSL
- PSTN Fallback: BRI, FXO
- Voice Ports: Four FXS
- Four-port FE Managed Switch with PoE
- Voice Protocols: H.323, SIP, MGCP, SCCP
- Software: Advanced IP Services

\*Future

 Adds Voice with Survivability Features

Best-in-class integration of data and toll-quality analog/digital voice services for Enterprise Teleworker

- WAN/LAN Technologies
   Fast Ethernet, G.SHDSL, VDSL2\*
   802.11n WLAN and Unified Management
- Comprehensive security
   IPsec VPN acceleration: DMVPN, GET VPN, Easy VPN
   Firewall, IPS, Content Filtering, SSL-VPN,
- Comprehensive Routing and QoS
- Ease of Management

Cisco Configuration Professional CiscoWorks
Unified Wireless Management

### **Key Takeaways**

Cisco har en stærk Presense løsning

Desktop – IP telefon – Mobil – Contact Center – Kalender – CU Application Environment

Serverbaseret, ikke klientbaseret

- Cisco har en stærk mobilintegration
   Single Number Reach CU Mobile Communicator
- Cisco har en avanceret Contact Center løsning
- Infrastrukturen spiller en central rolle for en sikker UC-udrulning

## Tak for jeres venlige deltagelse ©



Udfyld venligst evalueringsskemaerne