



Cisco Unified Communications System & Retail



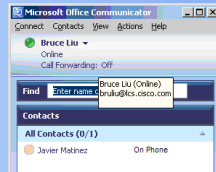
Aleksandar Vulović

Sistem inženjer

24. februar 2009.

Cisco Unified Communications System

3RD Party Applications



Microsoft outlook



Vertical apps.



IBM Lotus Notes

Applications



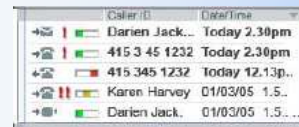
Mobility Manager



Unity Unified Messaging



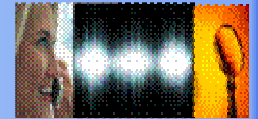
Unified Meeting Place conferencing



Unified Presence Server



Unified Personal Communicator



Unified Contact Centre

Endpoints



Unified IP Communicator



Nokia Dual-Mode

Unified IP phones

Media Control



Cisco Unified Communications Manager Express



Cisco Unified Communications Manager



Cisco Unified Application Environment



Cisco IPICS

Infrastructure



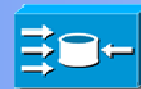
Routing



Switching



Availability



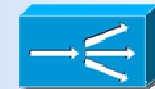
Management



QoS

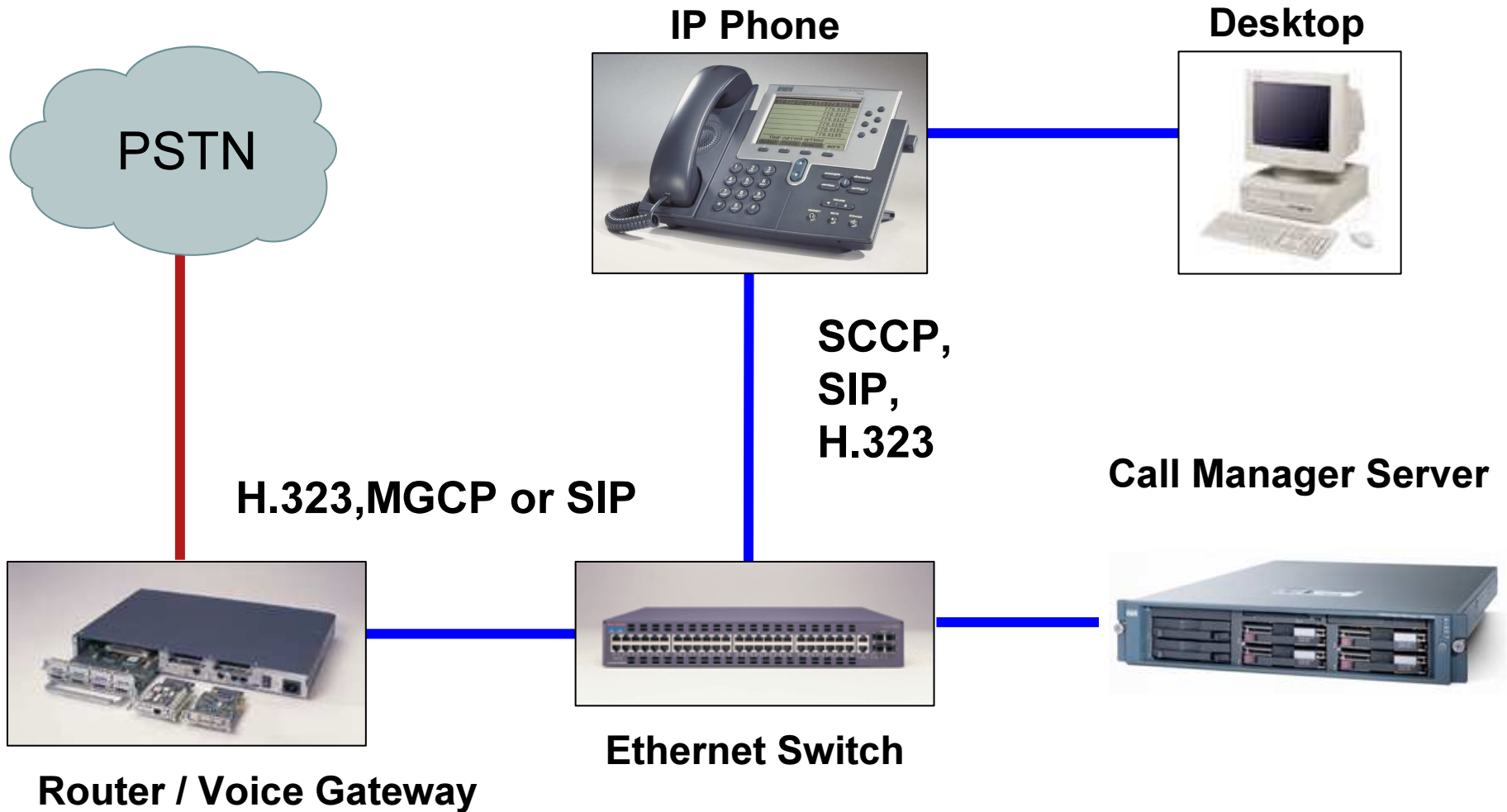


Security

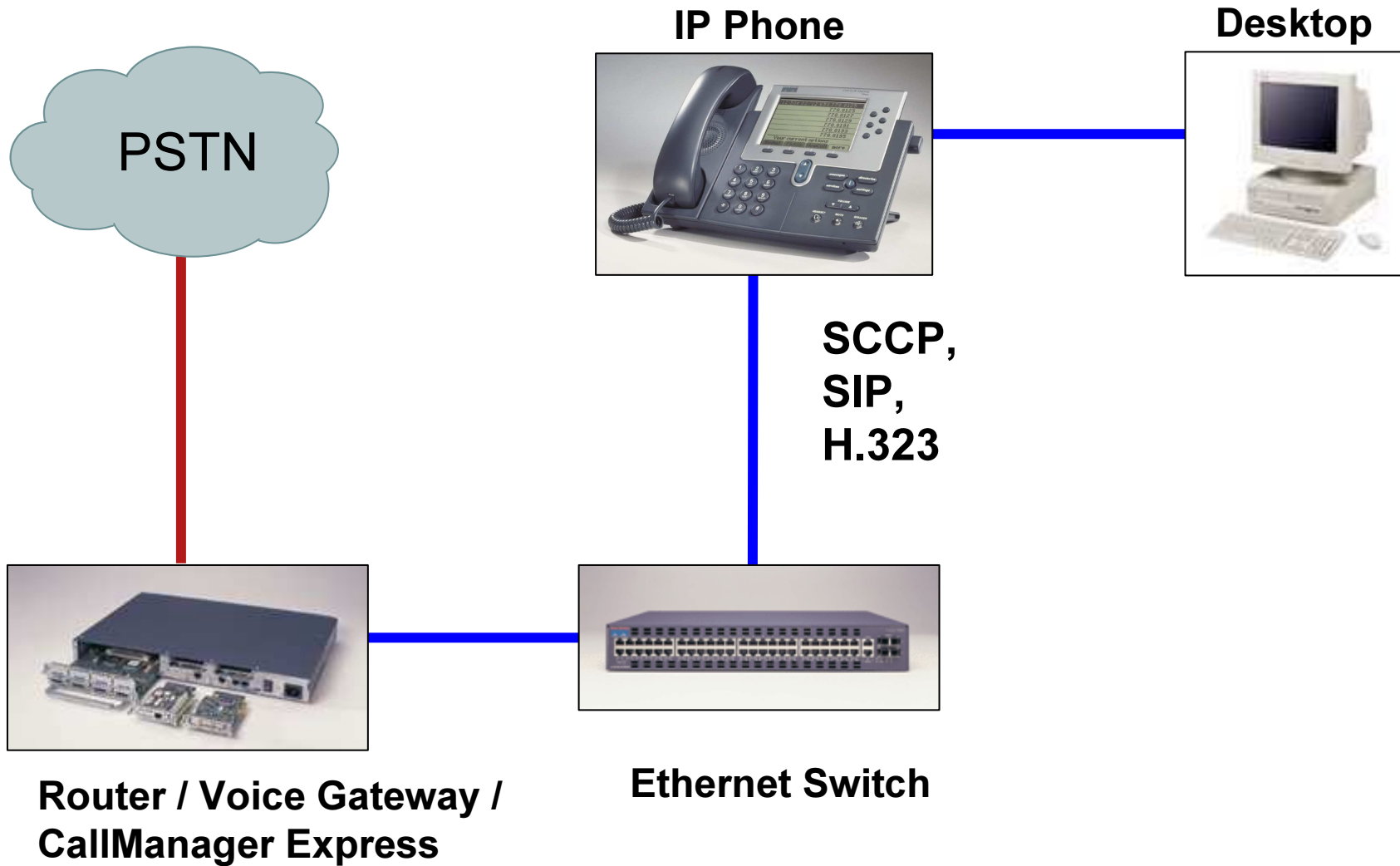


Administration

Cisco IP Telephony – Basic Components

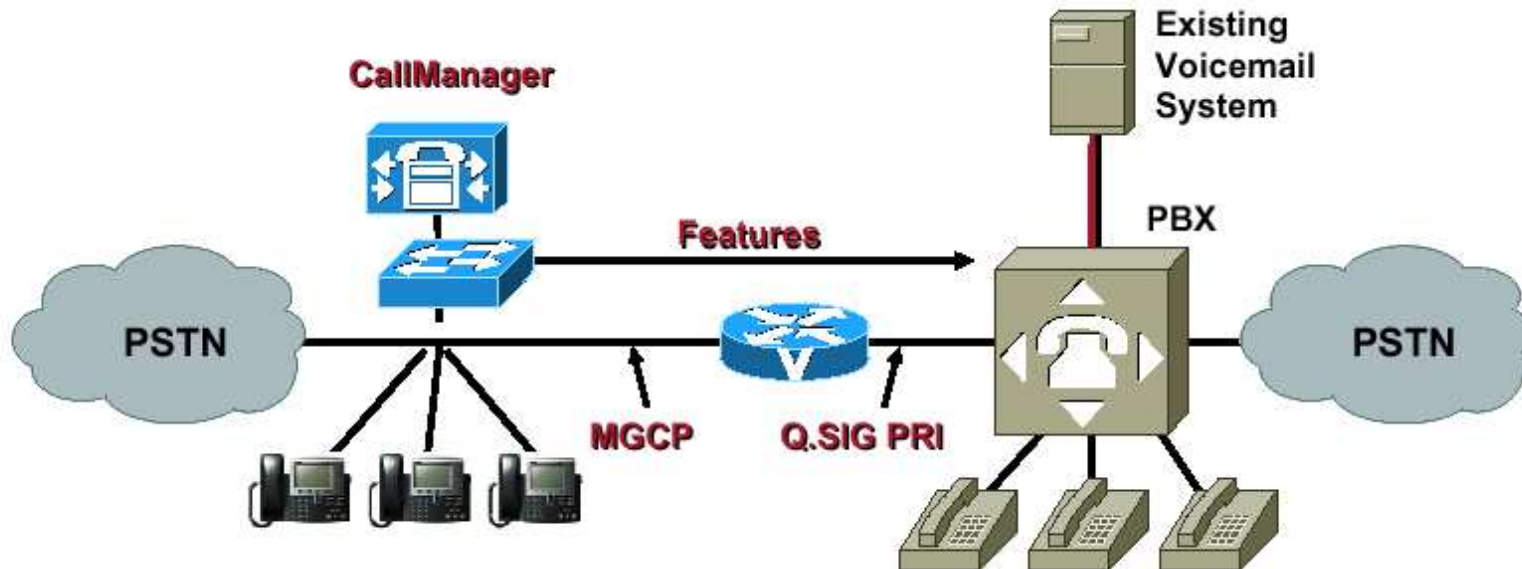


Cisco IP Telephony – Basic Components

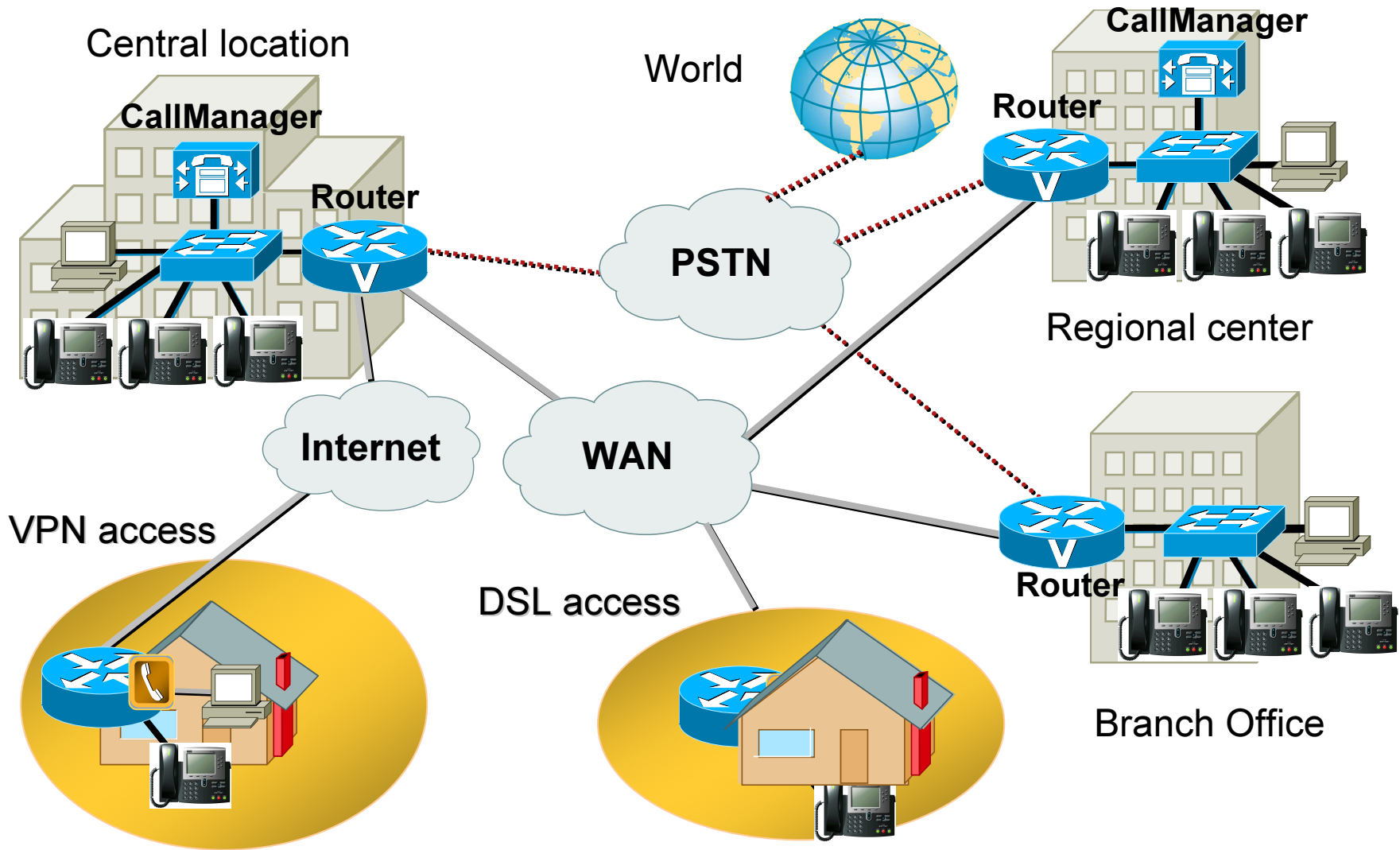


QSIG Protocol

- **Inter-PBX network features in stub or tandem environments**
 - ID services, diversion, forwarding, transfer, conference, call back/camp-on, ...
- **Ability to share common voicemail between PBXs**

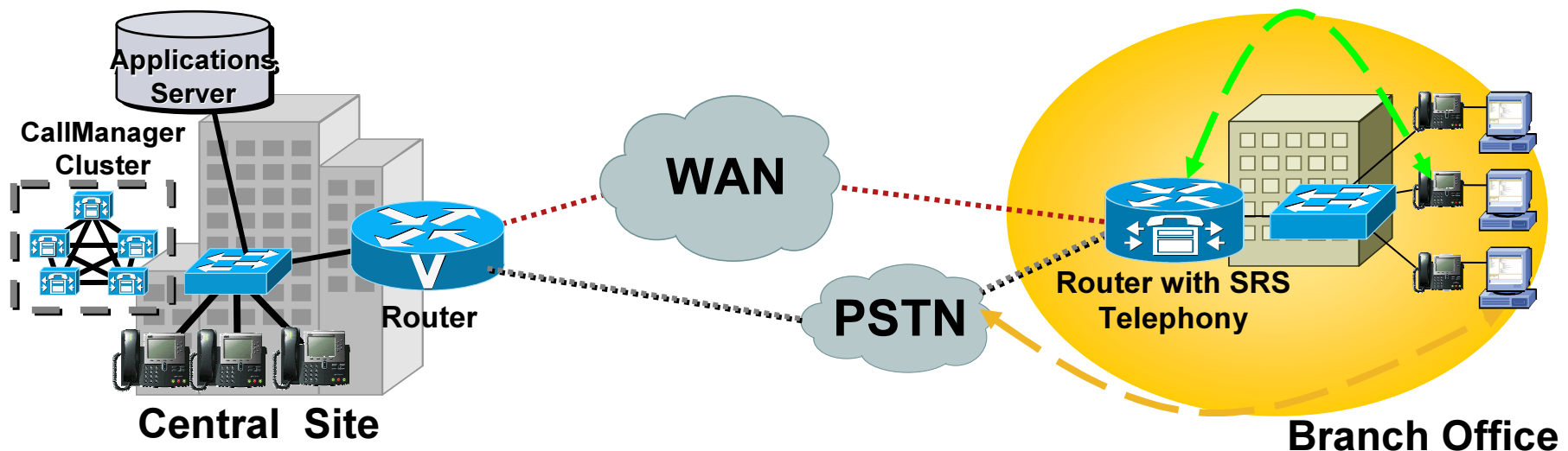


Cisco IP Telephony End-to-end

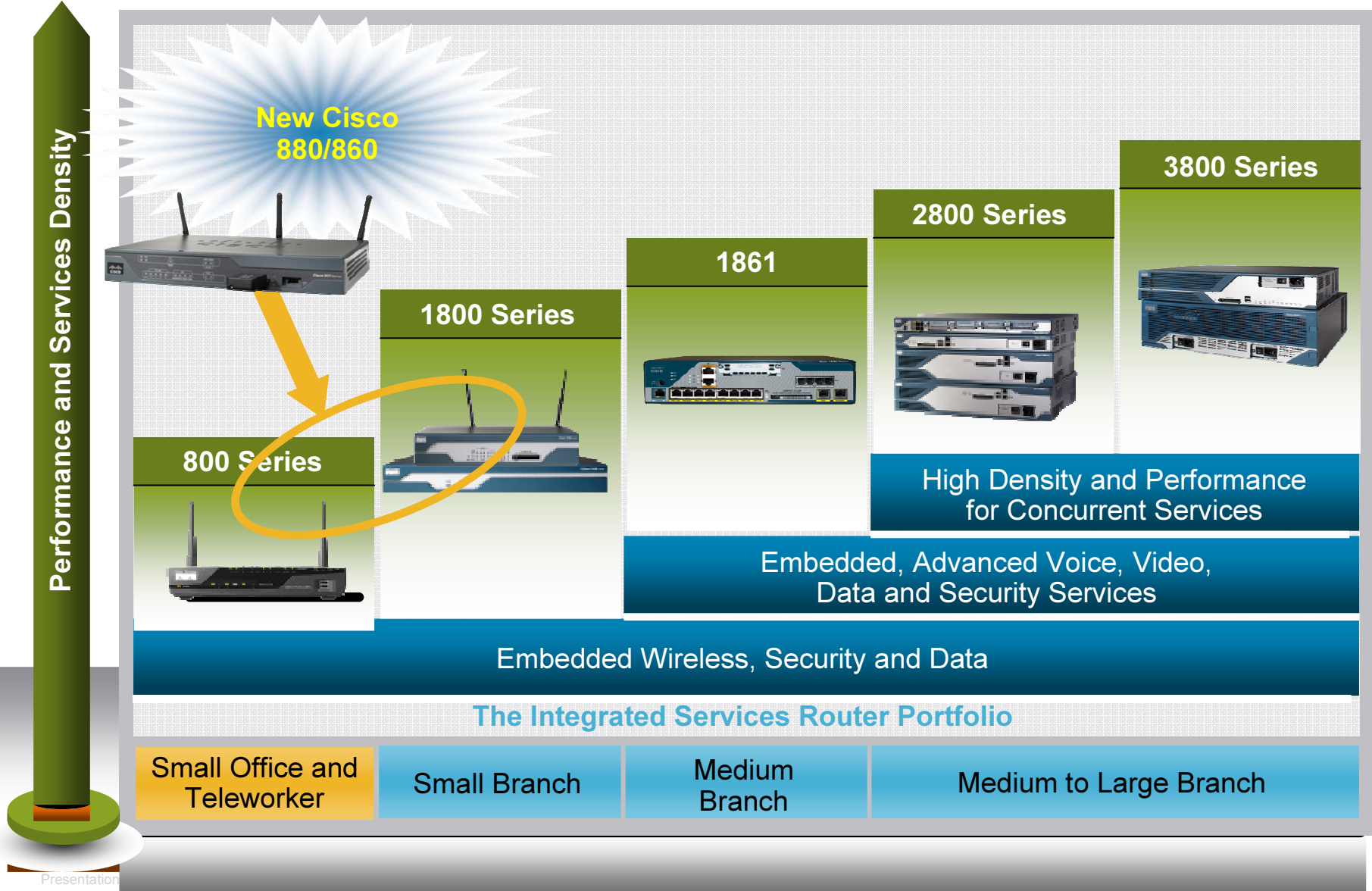


Survivable Remote Site Telephony

- SRST provides redundancy in the case of WAN failure
- Ideal for enterprise customers utilizing Centralized Cisco CallManager Deployment for IP telephony at their branch offices
- Provides near feature parity with Cisco Call Manager
- Configure it and forget it! SRST inherits its configuration from Cisco Call Manager and requires no configuration or intervention in the event of a WAN failure
- Supported across all Voice platforms, up to 720 Phones per Router



Cisco Integrated Services Router Portfolio



Cisco 880 SRST Integrated Services Router

New



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



IP Phones & Services



Cisco Endpoints

Executive

Cisco Unified IP Phone
7975G / 7971G-GE



Manager

Cisco Unified IP Phone
7960G / 7961G / 7961G-GE

Business

Cisco Unified IP Phone
7940G / 7941G / 7941G-GE



Multibutton

Cisco Unified IP Phone
7931G

Basic

Cisco Unified IP Phone 7906G /
7911G



Video

Cisco Unified IP Phone
7985G

Cisco Unified Video
Advantage

Cisco Unified
Personal Communicator



Mobility

Cisco IP Communicator

Cisco Unified Wireless
IP Phone 7921/7925

Cisco Unified
Personal Communicator



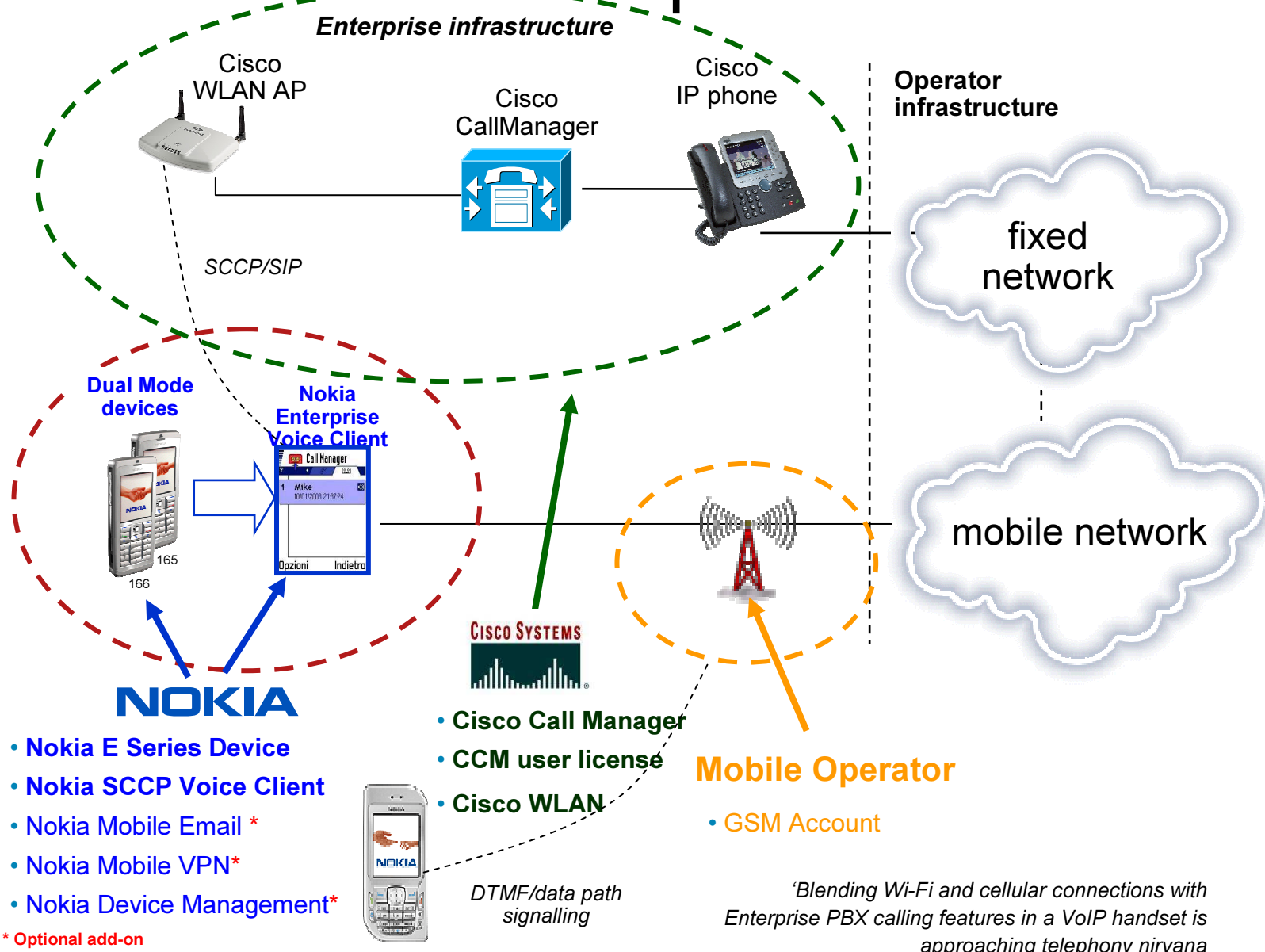
Analog

Cisco ATA 186

Cisco VG202/204/VG224/VG248
Analog Phone Gateway



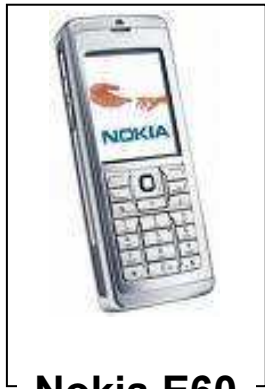
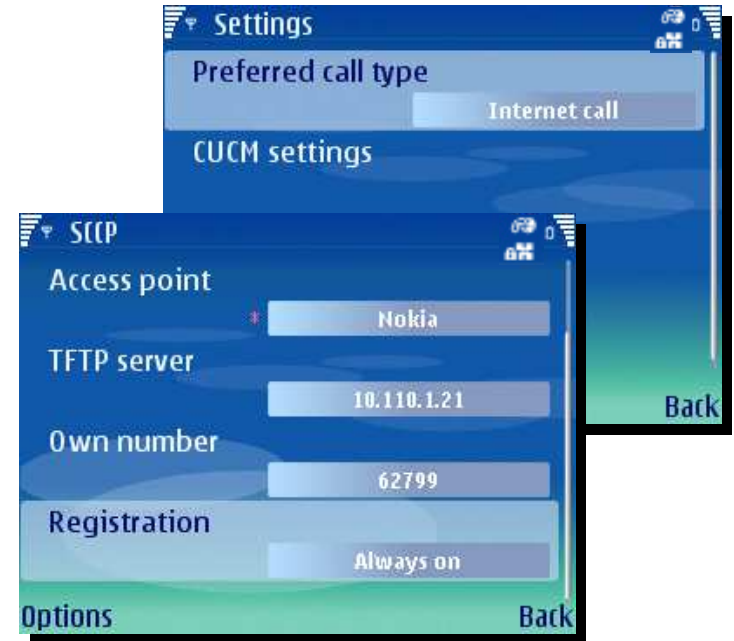
Nokia Dual Mode phone



'Blending Wi-Fi and cellular connections with Enterprise PBX calling features in a VoIP handset is approaching telephony nirvana
NETWORK WORLD

Nokia Dual-Mode Phone

- **Nokia Intellisync Call Connect**
- **Phone handsets: Nokia E60, E61, E61i, E65, E51, E66 and E71**
- **SCCP-only Client**
- **Switch to cellular: supported on E51, E66 and E71**
- **Nokia Mobile VPN**



Nokia E60



Nokia E61



Nokia E61i



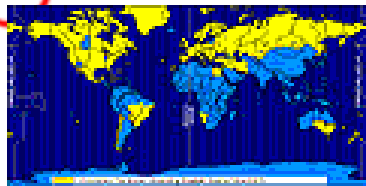
Nokia E65



Nokia E66

Nokia E71

Cisco IP Phone Services Examples



World Clock

Meeting Room Scheduler



Yellow Pages Lookup



Stock Tracker



Weather

19:18 07/20/00		9728111026	
Tue.	Wed.	Thu.	Fri.
83 F	84 F	90 F	92 F
28 C	28 C	32 C	33 C

Update Exit

Flight Status



Transit Schedules

Joining the Live Broadcast

- After the demo has been started, users can join the Subscription by selecting the **Live Broadcast** from the menu. Thus becoming participants and starting to receive audio and images
- Users can leave the Broadcast at any time by pressing the **Exit** button.



Cisco Systems

CISCO IP PHONE
7941 SERIES

15:52 27/01/09

2335

Vreme u Novom Sadu

Dobrano: 27. 01. 2009. u 14:00

Temperatura: 6 °C

Prilisak: 994 mb

Rel. vlažnost: 90%

Brzina vetra: 4 m/s

Gore/Dole - zelena tipka

Osveži | Povratak

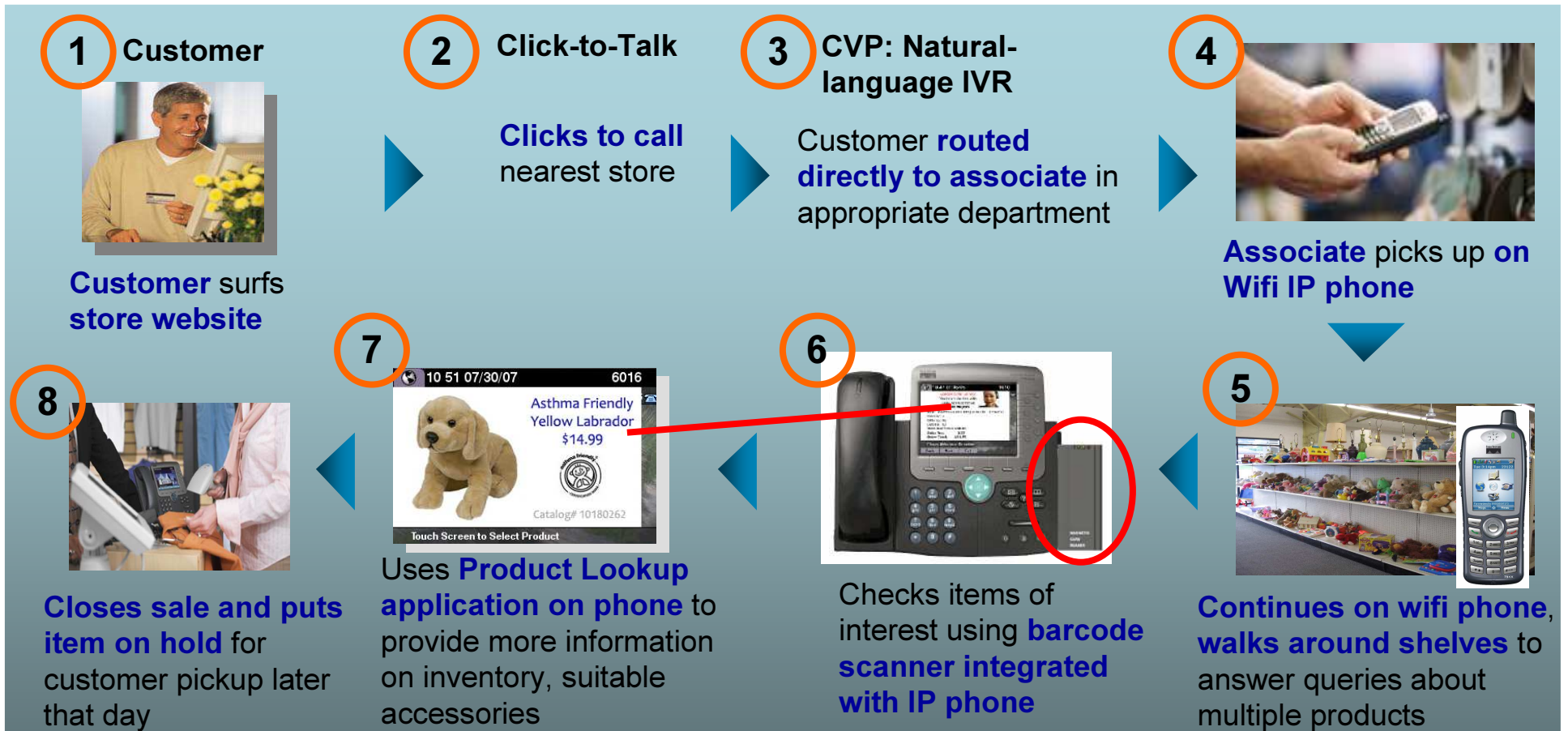
1

2

3



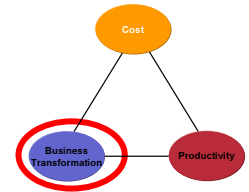
UC-enabled Store Associate Solution enhances associate productivity and customer experience



Business Value

- Enhanced associate productivity (potential >50% improvement in efficiency of interaction with customers)
 - Call routed directly to associate with wifi phone
 - Seamless 2-way phone to radio, phone to PDA communications in store
- Increased cross-sell/upsell due to richer customer experience
 - Phones integrated with product lookup and inventory applications

Wifi Phones Integrated With Key Store Applications Can Enhance Productivity Of Store Employees



ILLUSTRATIVE

Revenue menu

- Item description
- Price, location, QOH
- Open POs, available date
- Partner store availability
- Hot-key access to product/category expert (on the speakerphone)
- Promotion alerts for cross-sell



Operational menu

- Item location and QOH
- Replenishment, transfers
- Cycle counts
- Receiving
- Planogram

Manager menu

- Sales metrics (e.g., revenue per hour, per department, per customer)
- Special order status and metrics
- Associate stats
- Broadcast messaging (e.g., voice-mail)

UC Employee Dashboard Solution decreases on-boarding time by streamlining delivery of information to associates



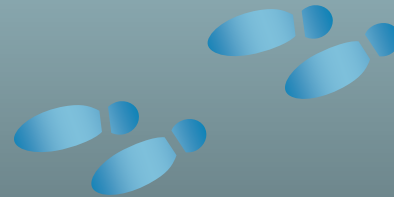
1

Store Associate arrives at start of shift



3

Walks to department, begins work



2



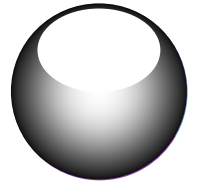
Associate **on-boards at single station** using applications integrated on IP phone

1. **Clock In/Out of Shift**
2. **Receives Shift and Meal Breaks**
3. **Reads Reports and New Information**
4. **Receives goals/tasks**

Business Value

- Improved associate productivity (~>50% decrease in on-boarding time)
- Improved customer service by reinvesting gains to customer facing time
- More consistent delivery of management communications
- (FUTURE): VoDs delivered to IP phones can save training costs

Available IP Applications

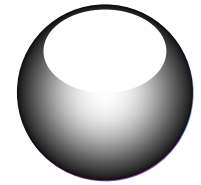


Store Customer Assistance Applications

- Inventory Availability
- Service Connection
- IP Phone Media Display
- Fitting Room Assistance
- Price Inquiry



Available IP Applications



Retail Employee IP Dashboard Solution

- Time capture system
- Store reminder notification
- Broadcast audio messaging system
- Employee communication and recognition



UC Media Display: Features



UC Media Display: Features

LiteScape



Image

UC Media Display: Features

LiteScape



Image and
Audio

UC Media Display: Features

LiteScape



Text

UC Media Display: Features

LiteScape



Surveys

UC Media Display: Features

LiteScope

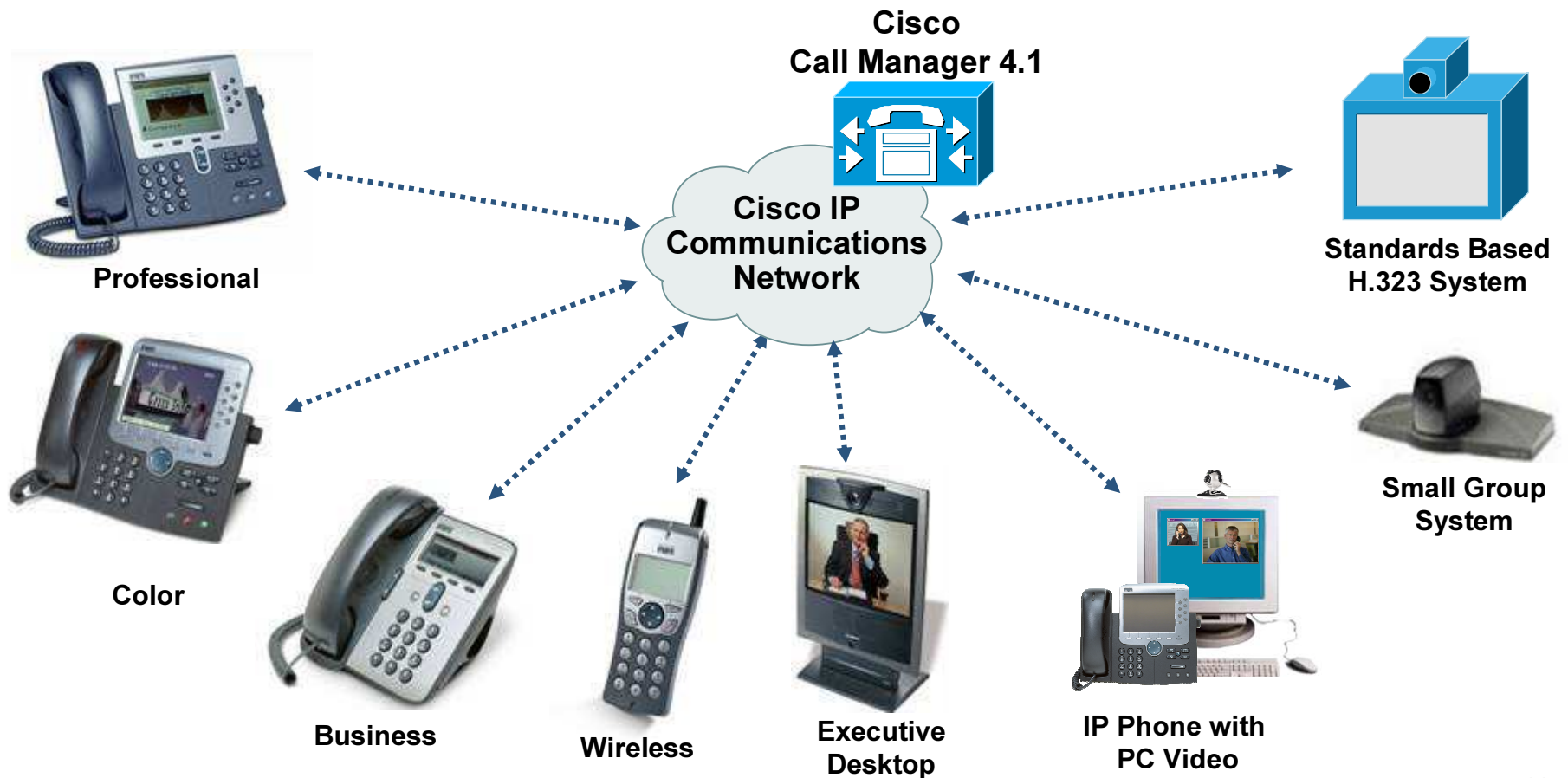


Rich Media Communications



Introducing IP Video Telephony

Enterprise-class IP telephony and video is delivered over a single Cisco IP Communications infrastructure



JJ Foods: Leveraging UC platform to drive greater collaboration



"New features in Cisco Unified Communications-such as presence technology, easy-to-use video phones, and SIP support-make our company more cohesive." - Rif Kiamil, IT Manager, JJ Food Service Limited

1



Employee at HQ reads customer voicemail in email in-box, wants to discuss issue with a colleague

2



Uses Presence in CUPC to find a colleague in another location available for a call

3



Colleague answers on IP phone, decides to conference in a manager

4

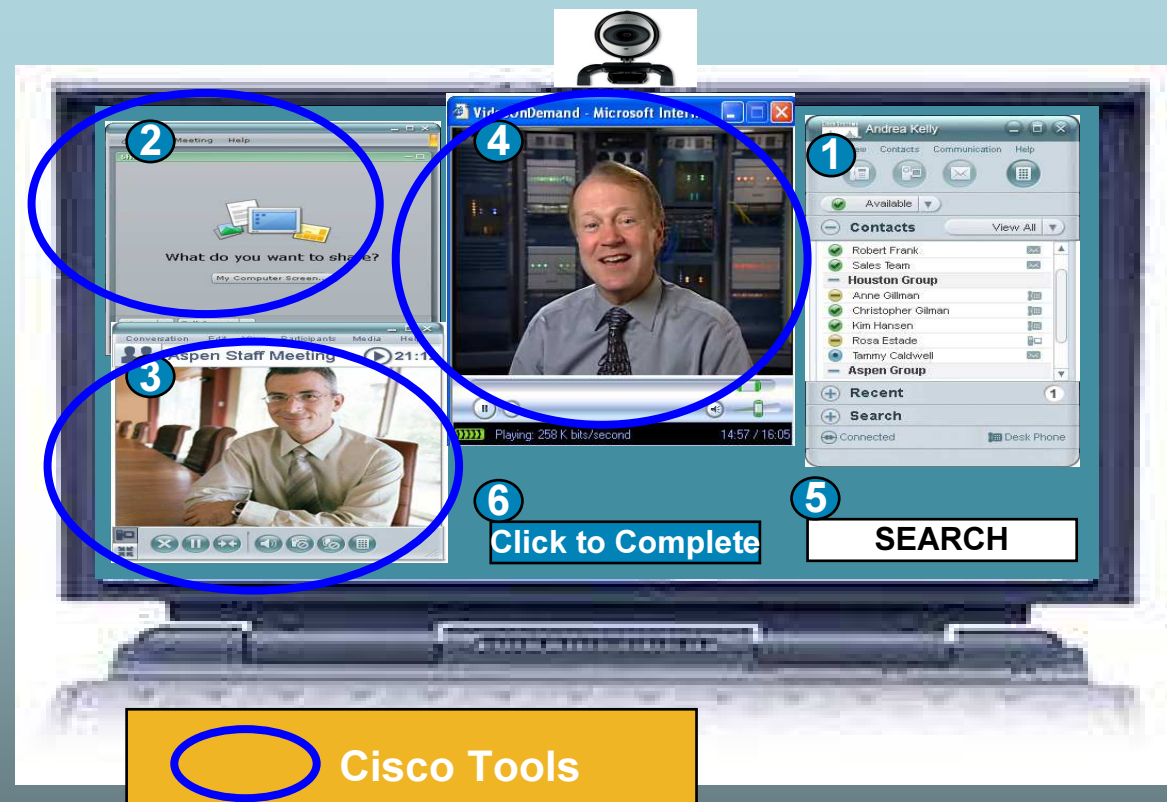
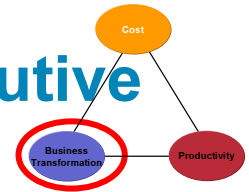


Manager on IP video phone helps resolve issue (call with 1st employee on CUPC is video, 2nd employee is on only for audio)

Business Value

- Rapid integration: Added 60 employees from acquired company in 1 day
- Ease of management: 2 new locations managed with same 3-man staff
- Ability to reach right employee the first time presents better image to customers
- Four-digit dialing, directory lookup, unplanned conference calling, unified messaging all save time and increase productivity

UC Can Enable Rapid Delivery Of Training And Executive Communications To Employees



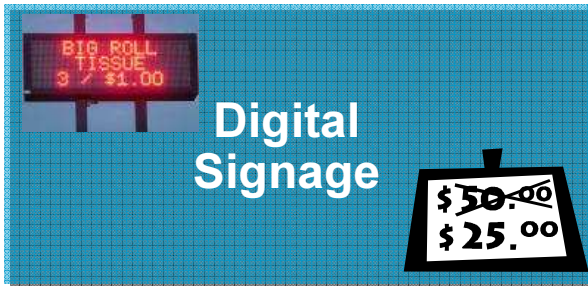
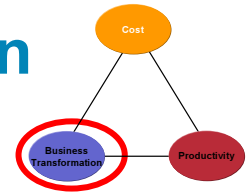
- 1 Checklist of training topics
- 2 Documents to share with trainees
- 3 On-demand category expert
- 4 VOD explanations
- 5 Knowledge database keyword search
- 6 Automated click to complete

Potential Benefits to Retailer

- Rapid ramp-up of new team members - immediate delivery of expert content at the time of need w/ no associated labor
- Immediate availability of experts for key products through voice / video/ web conferencing
- Training related travel and facilities cost avoidance and associated productivity enhancements

UC Can Increase Customer Conversion and Retention

Digital Signage, IP Phone Lookup, Click to Call Product Expert



A customer walks in and knows the price of an item is correct as it changes in real-time ... price history can be got on the spot to show if an item is currently on sale

The customer is interested in the item but cannot find the exact color / size they want ... check at the nearest kiosk about this for nearby store inventories

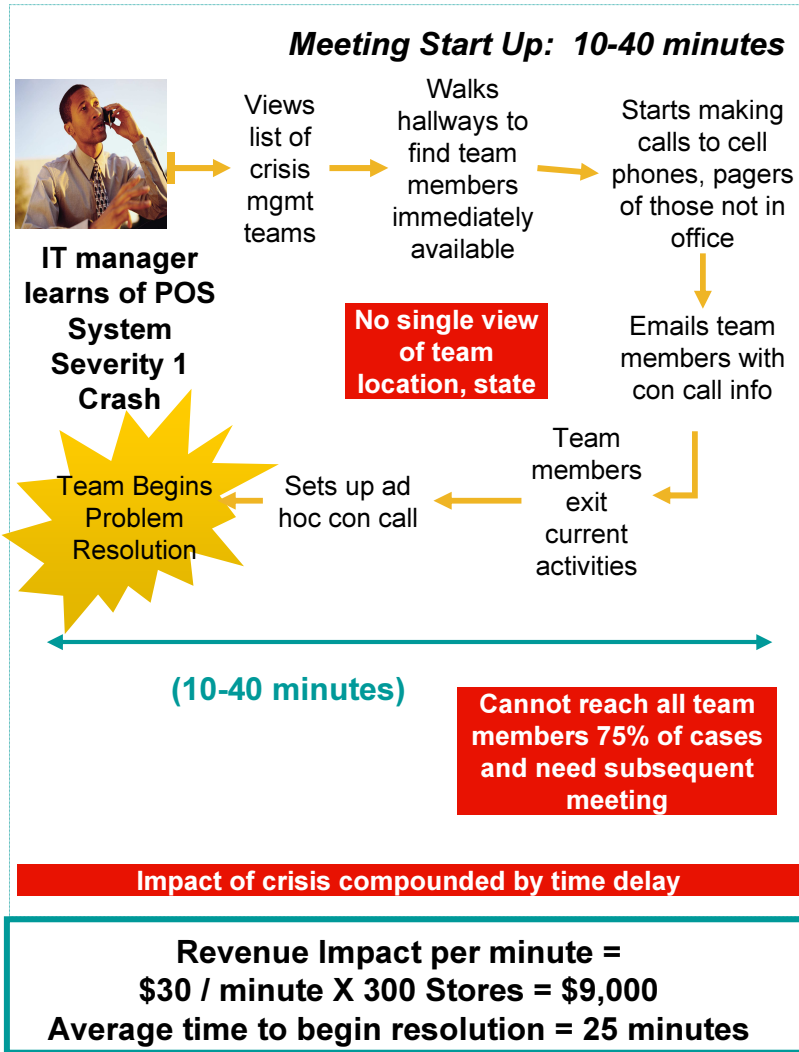


To clarify a question the customer “clicks to talk” and speaks with a virtual call center agent who completes the sale of the item on line with shipment to home ... sale closed

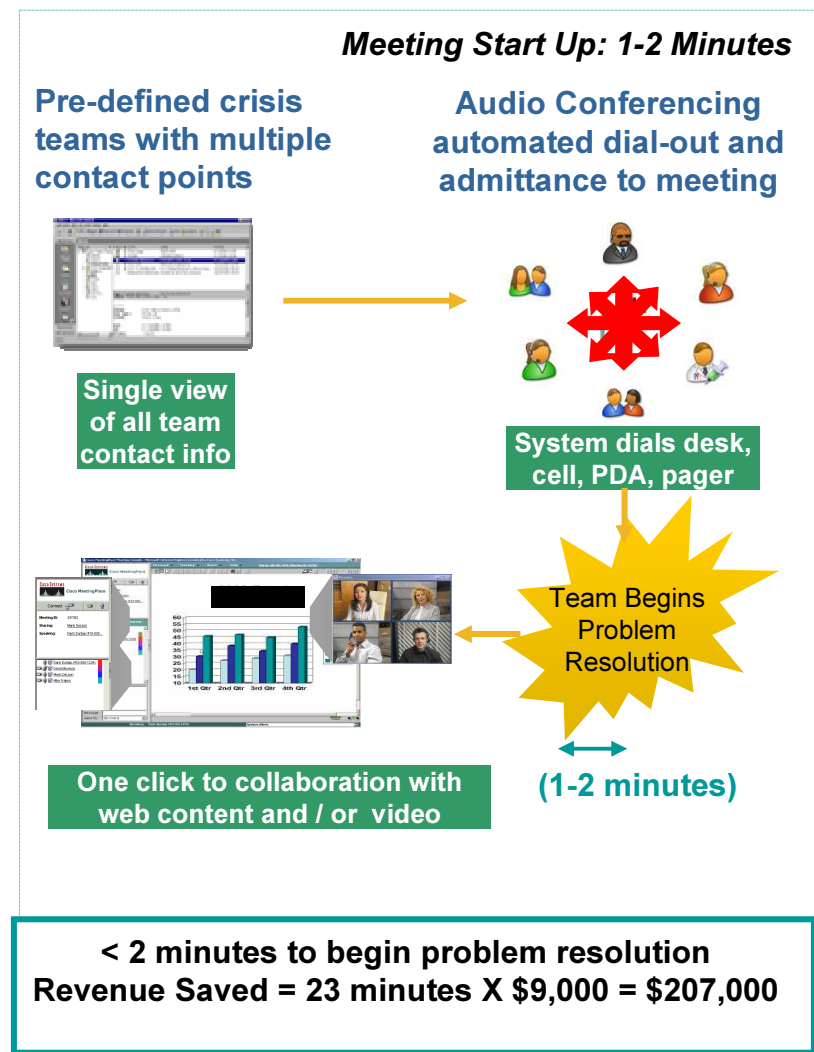
Retail -- Crisis Management

POS System Down at Lunchtime in 300 Locations

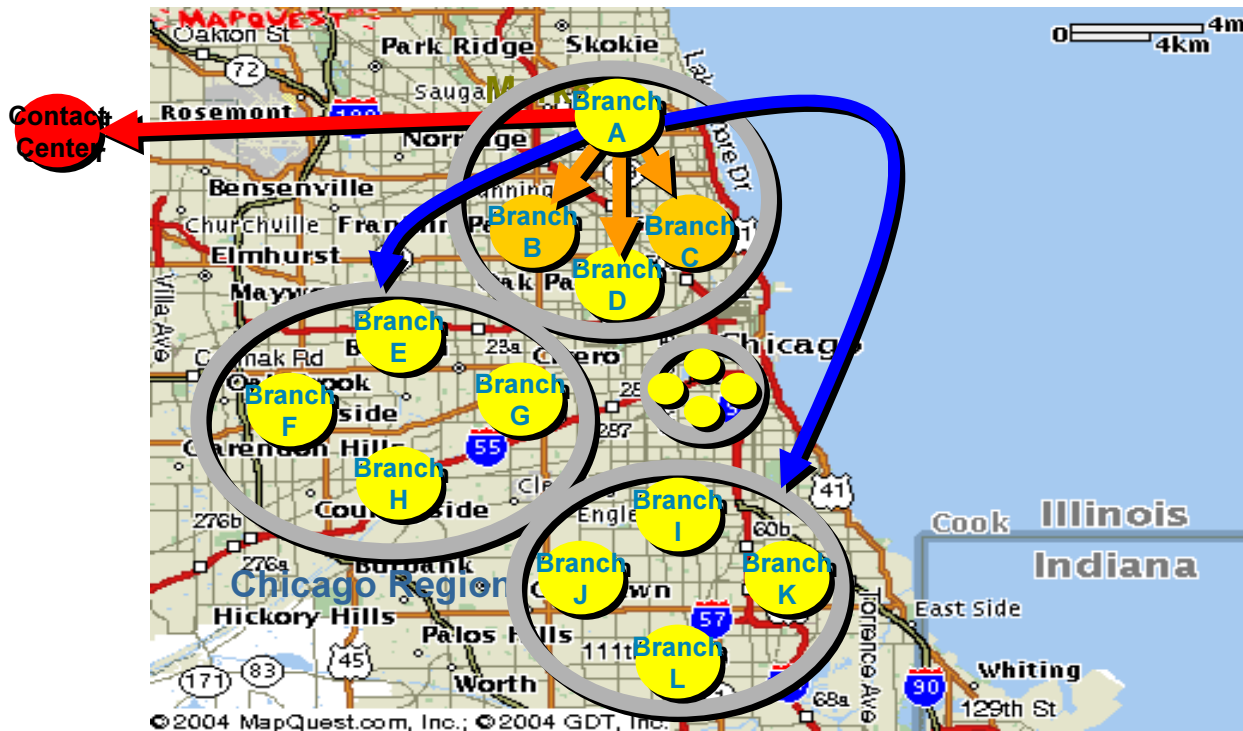
As is...



...With Unified Communications



Grainger Uses UC To Increase Customer Responsiveness Through CC Virtualization

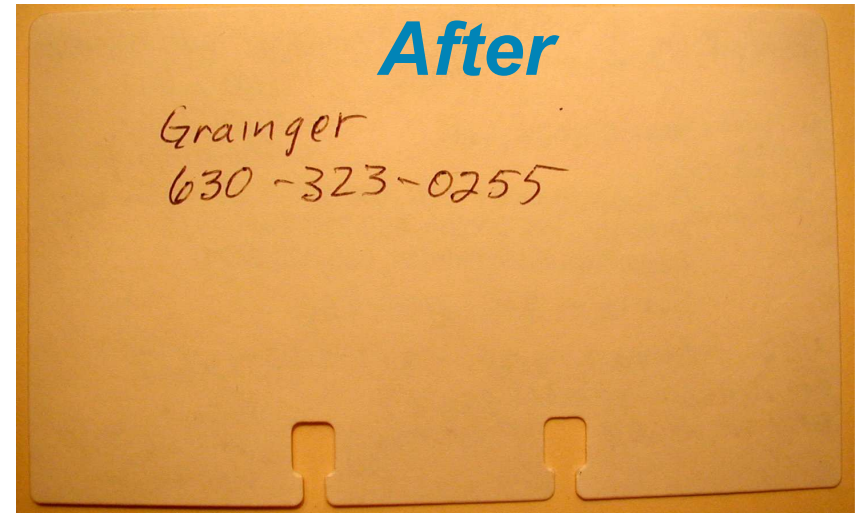
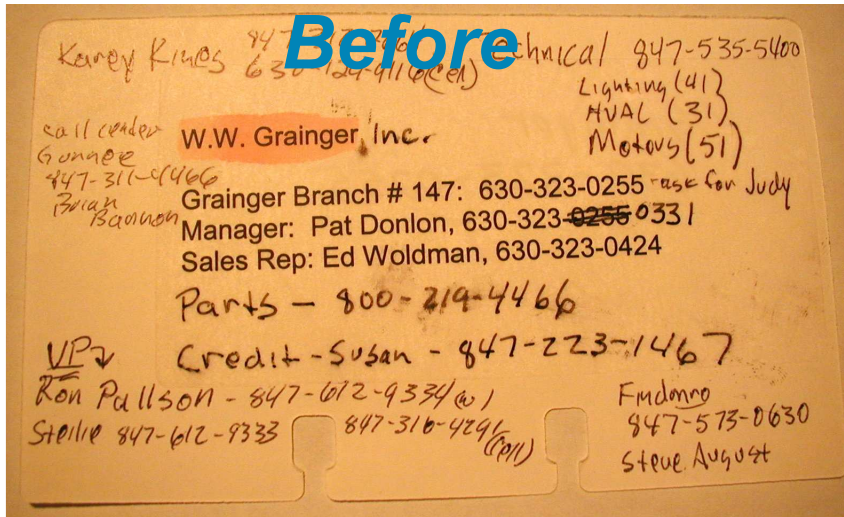


- **Grainger:** multi-channel, B2B distributor of industrial supplies & equipment
- **Company profile:** over \$5Bn in sales, 15,000 customers, 1,500 sales reps at ~400 branches
- **Key business challenge:** how to leverage local presence with central enterprise resources to drive sales, improve customer experience
- **Solution:** Integrating branch and enterprise resources through a converged network
- **Result:** Shorter hold time for customers, local touch, increased annual sales by \$60M

“Each branch is now part of a virtual contact center with an incredible array of resources. The local (branch) customer service agent can now act as the quarterback for the customer contact.”

- Pat Davidson, Grainger SVP of Customer Service

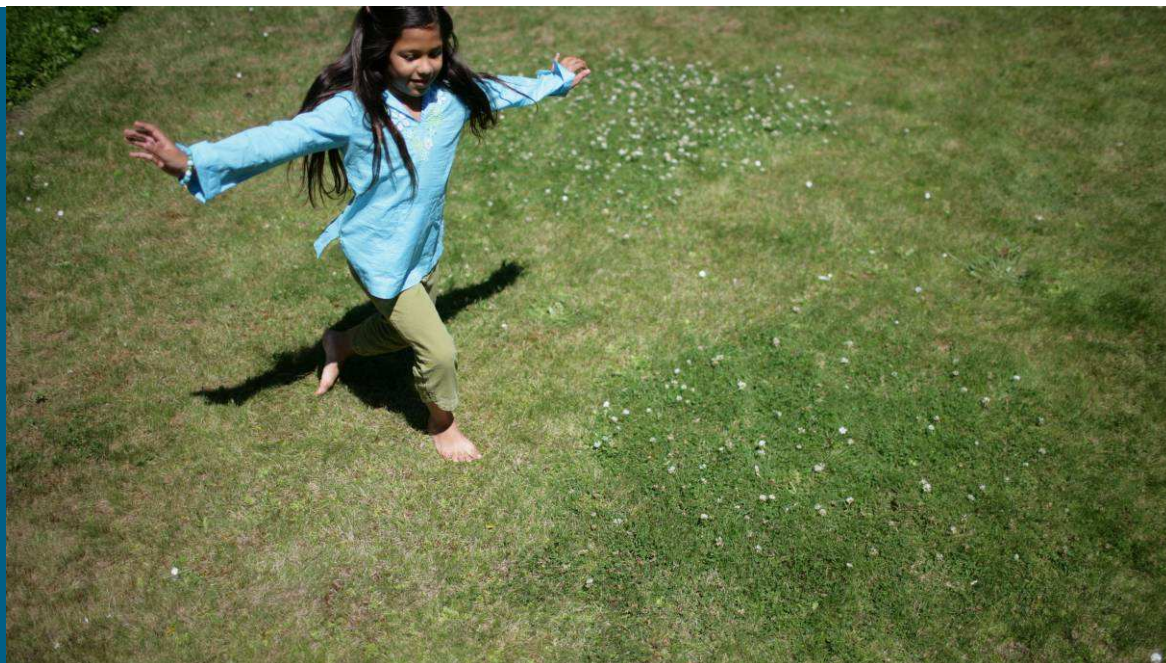
Value To Customers Is That UC Is “Making It Simple” ... Resulting In Increased Sales



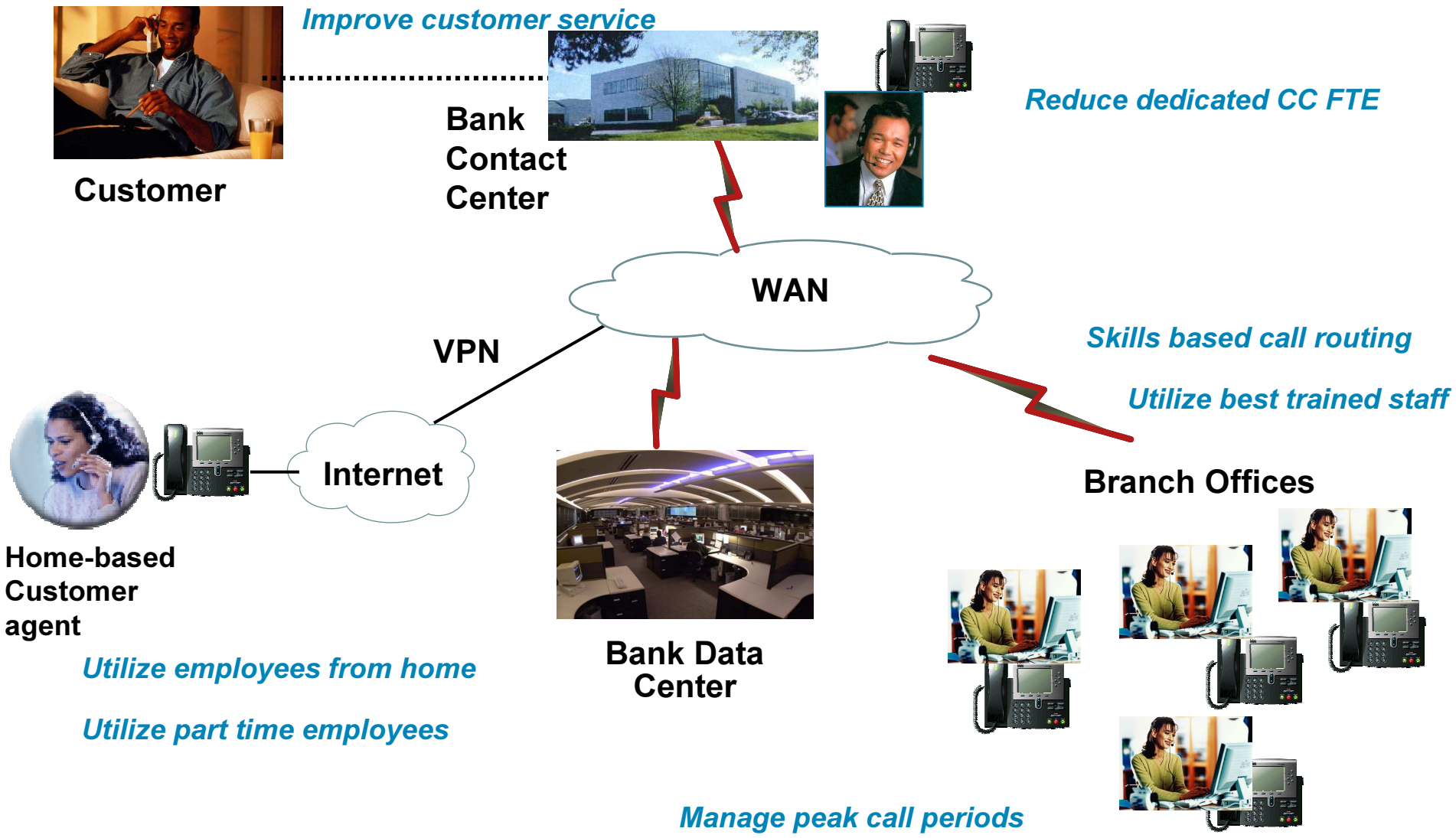
Grainger 2004 Annual Report:

“We updated our U.S. branch telephony and IT infrastructure using the latest Voice over IP technology. Customers now have seamless connectivity to all the products and services Grainger offers. **We are already seeing improvements in our costs while capturing more sales.**”

Contact Center

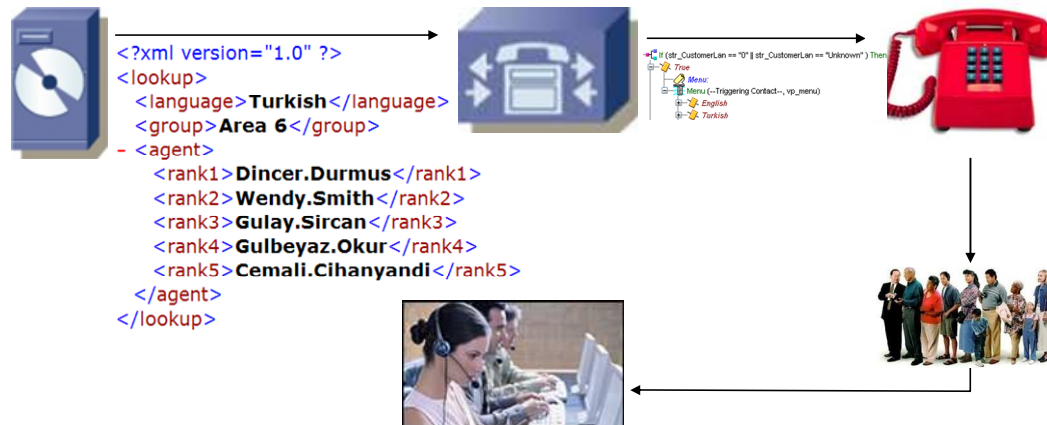


Virtual Call Center



JJ Foods: Integrating the call center with the ERP/CRM systems for increased capacity

Portal sends back information about the customer and how the call should be treated → IPCC Express routes call to the correct person



“This allowed us to cut down 162,500 customer calls a year being transferred and/or being called back.”

162,500 x 105sec =
\$6.5m productivity gain

“To build this application has taken a total **10 days** - the web developer has never worked on Cisco Unified Contact Center Express or on a call centre application before.”



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

- Email interaction management service
- Agent E-Mail provides a core feature set for managing e-mails

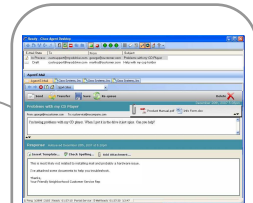
Distributes e-mails to agents

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

Contact Center Agent



Cisco Agent Desktop and Agent E-Mail

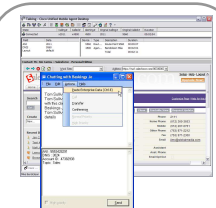


Click to play the demo!

Extending the Contact Center with Enterprise 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

Contact Center Agent



Cisco Agent Desktop and Presence



Click to play the demo!

Integracija sa mrežom

Aplikacija – “Pronađi eksperta”

Primer za aerodrom:

- Pristup aplikaciji kroz XML telefonski servis na telefonu
- Izaberemo željenu lokaciju, npr. “gate 3”
- Prikaz mape eksperata koji nose wireless 802.11 IP telefon
- Korisnik može da izabere određenog eksperta sa mape ili da klikne na “Najbliži”
- Upućujemo poziv na ekspertov wireless IP telefon 7921

Isti princip može da se primeni i u zdravstvu, maloprodaji, proizvodnji ...



Cisco Telepresence



Cisco TelePresence Meeting rešenje

Krajnji uređaji



Cisco TelePresence System 3000

- 12 mesta za virtuelnim stolom
- Specijalno napravljena soba
- 15 Mbps za 1080p, ultra-high definition
- Prostorni wideband audio
- Kašnjenje se ne može uočiti



Cisco TelePresence System 1000

- 4 mesta za virtuelnim stolom
- Soba za opšte namene
- 5 Mbps at 1080p, ultra-high definition
- Wideband audio
- Kašnjenje se ne može uočiti

TelePresence virtuelni stručnjak

- Cisco TelePresence i Cisco Unified contact center
- Virtuelni poslovni terminali
 - Maloprodaja
 - Filijale banaka
 - Virtuelna zdravstvena nega
 - Virtuelna recepcija
 - Hoteli
- Prodajna mesta
- Call centri
- Mesta gde je bliskost sa korisnicima komperativna prednost





Example Deliverable: Productivity and Business Transformation Opportunities for Key Roles in Retail

Retail Store Employee



Role: Maximize customer face time, answering questions and selling.
Issue: Administrative and inventory search activities reduce face time
Impact: Reduce time away from customers by 15-45 mins / day / emp.

From



To



Solution

IP phone time management, inventory lookup apps.

Contact Center Agent



Role: Product expertise and peak time resource for stores
Issue: Lost sales due to lack of point of sale product expertise
Impact: Reduce customer walk aways and increase customer loyalty

From



To



Solution

Click-to-talk to expert, integrated routing

Retail Store Manager



Role: Increase sales and customer loyalty, while minimizing opex
Issue: High turnover and employee retraining burden
Impact: Improve employee knowledge, reduce turnover, increase sales 4-6%

From



To



Solution

Web enabled distance learning, IP phone policy adherence apps

IT Application Manager / Engineer



Role: Maximize uptime of enterprise and store applications
Issue: Slow response time on critical system down situations.
Impact: Reduce lost store revenue by up to \$200K per incident

From



To



Solution

Rich media conferencing outdial functionality ? !

Retail: Fashion Retailer Enhancing Employee Productivity and Business Agility Through UC

Business Challenges

- Need to facilitate better communication and collaboration between executives discussing strategy, design decisions, new product lines etc.
- Improve productivity for mobile workers and teleworkers
- Reduce telephony costs while facilitating expansion and acquisitions
- Improve contact center service

Solution

- Cisco IP telephony solution including Call Manager, IP phones and broadband routers; IP Communicator softphones for traveling executives and associates
- Cisco IPCC Express to obtain integrated reports and performance metrics
- Planned deployment of video telephony solution to increase productivity of design discussions, reduce frequent travel between offices etc.

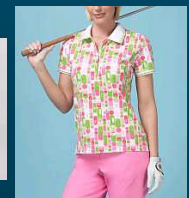
Business Value

- Improved productivity for executives visiting other locations since they can log on to any phone as their own
- Significant cost reduction due to savings in connectivity, toll bypass, MACs, cell phone and home phone expenses for mobile and teleworkers
- Faster integration of new offices into the corporate telephony network
- Optimized staffing and improved customer service through detailed contact center reporting and enhanced routing capabilities



“Extension Mobility is a boon for productivity”

“Integrating telephony systems of acquisitions is 3X faster than the industry standard”



Hannaford Brothers Enables Growth Via UC-driven Employee Productivity



Company Profile

- Fifth largest grocery operator in U.S. - 147 supermarket / food / drug stores in Northeast – business segment of Belgian based global retailer Delhaize. 24,000 employees

Business Challenges

- Improve store employee productivity – increase customer face time and improve task allocation across employees
- Improve ability to open / close stores more effectively
- Enhance user experience and reduce costs of international meetings and presentations

Solution

- Unified Communications: Call Manager, IP Phones, Unified Messaging, Video Conferencing, phone-based applications

Business Value

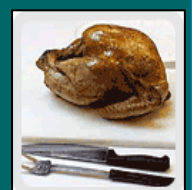
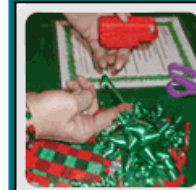
- Opened 14 new stores in 2006 – highest single year in history
- \$75M annual savings from unified communications, IP videoconferencing and converged network.
- Better communication / collaboration between stores, Hannaford HQ and Delhaize parent company.
- Improved customer experience and video “how to” content

“We’re lowering the cost of doing business, and we’re running a better store.

Our customers see it both in the cost of our products and how well the store is organized – very few products are ever out of stock, for example.

It’s subtle, but its very powerful.”

- Bill Homa, CIO



Example: Global Quick Service Chain

UC Platform Saved 23% on TCO in First Year

Business Challenges

- Improve communications across 5 brand silos, multiple geographies, consistent management, quality and policy
- Move away from EOL PBX solution, with escalating support costs
- Reduce voice TCO and consolidate 4 VM platforms to enable corporate wide communications

Solution

- End-to-end IPT / messaging in HQ, regional sites
- Click to talk integration with corporate directories, web conferencing application, crisis management
- Next phase: Leverage platform to expand—
Contact center, rich media, UM

Business Value

- 23% reduction in voice TCO realized in first year
- Consistency of communications and adherence, faster crisis resolution, productivity gains on repetitive communications tasks



“Crisis situations drive need to bring disparate team together. Before, it was difficult...and involved making multiple phone calls, searching offices, paging people, setting up impromptu meetings... just to start resolution”