



Cisco IP Communications Products

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Cisco Systems

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Summary



What's happening in recent voip market?

- **Skype**
 - PC2PC
 - PC2Phone (Skype Out, Skype In and packet Skype)
 - Application (Skype voicemail)



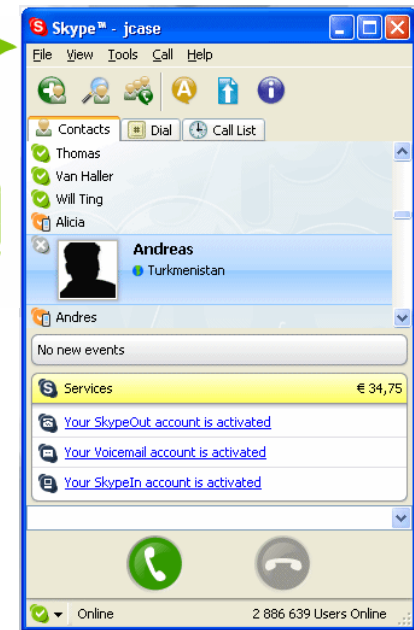
- **Google (GoogleTalk)**
 - PC2PC



- **MS + Teleo**
 - PC2PC
 - PC2Phone

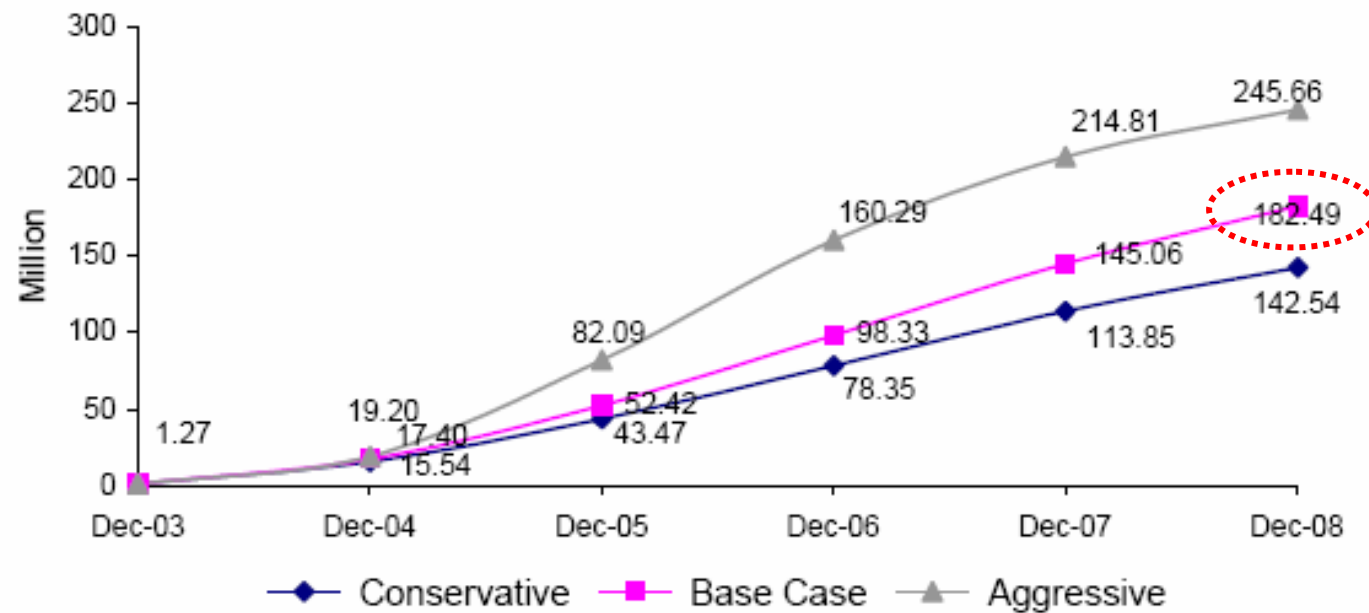


- **Yahoo + DialPad**
 - PC2PC
 - PC2Phone



Skype Penetration

Figure 1: Worldwide Skype Subscriber Base (2003 – 2008)



Source: Evaluateserve Analysis

Cisco IP Communications 제품군

Integrated Management

Applications



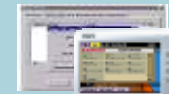
Workplace Resources



Voicemail and UM



Mobile Connect



Customer Contact



Rich Media Conferencing

Endpoints



Cisco IP Phone



Wireless Phones



Video Phone



IP Communicator



VT Advantage

Call Control



CallManager



Survivable Remote Site Telephony on Cisco ISR



Cisco CallManager Express and Unity Express on Cisco ISR

Infrastructure



Routing, QoS



Switching



Administration



Wireless



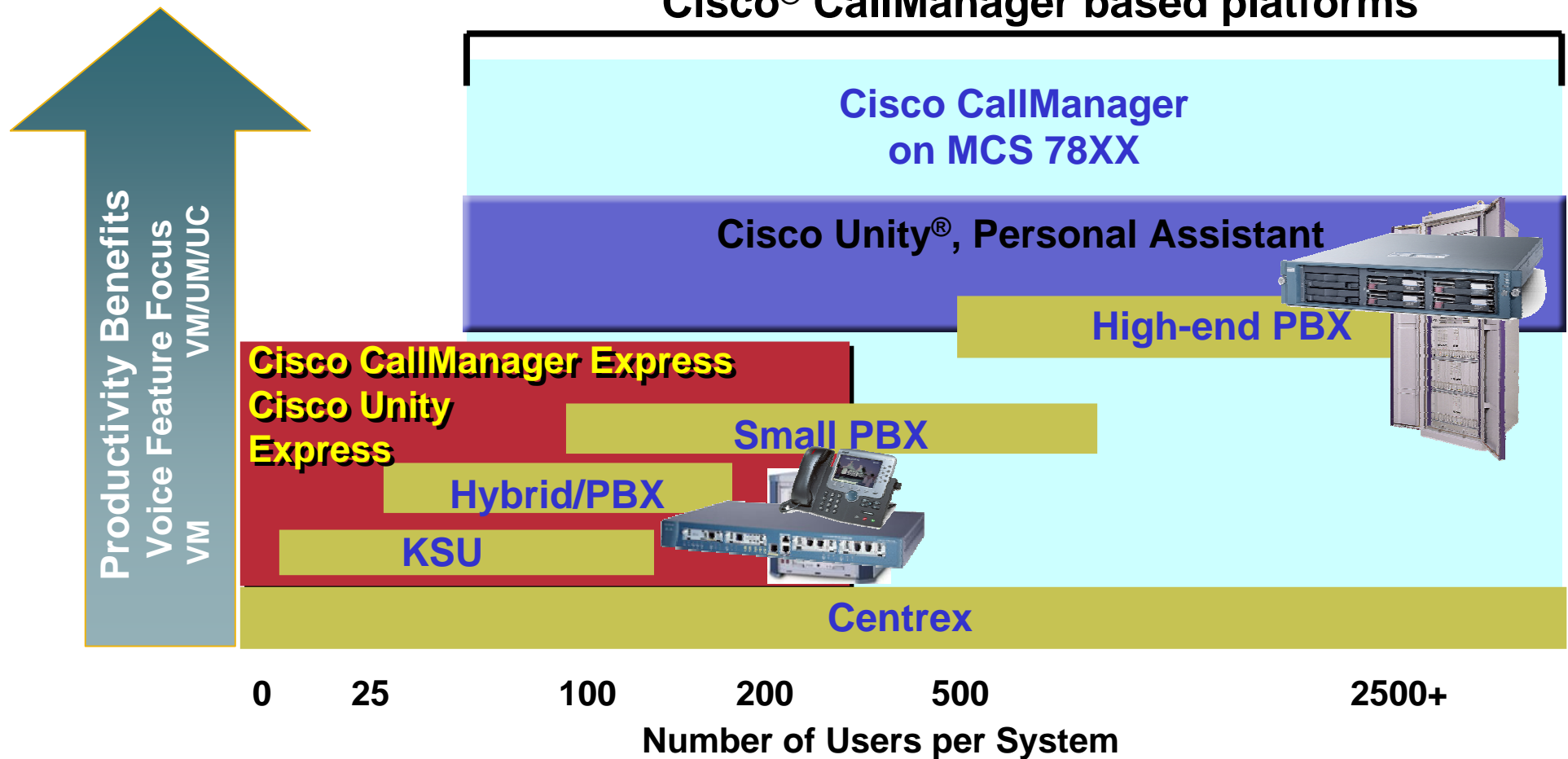
Security



Content Delivery

솔루션 포지션

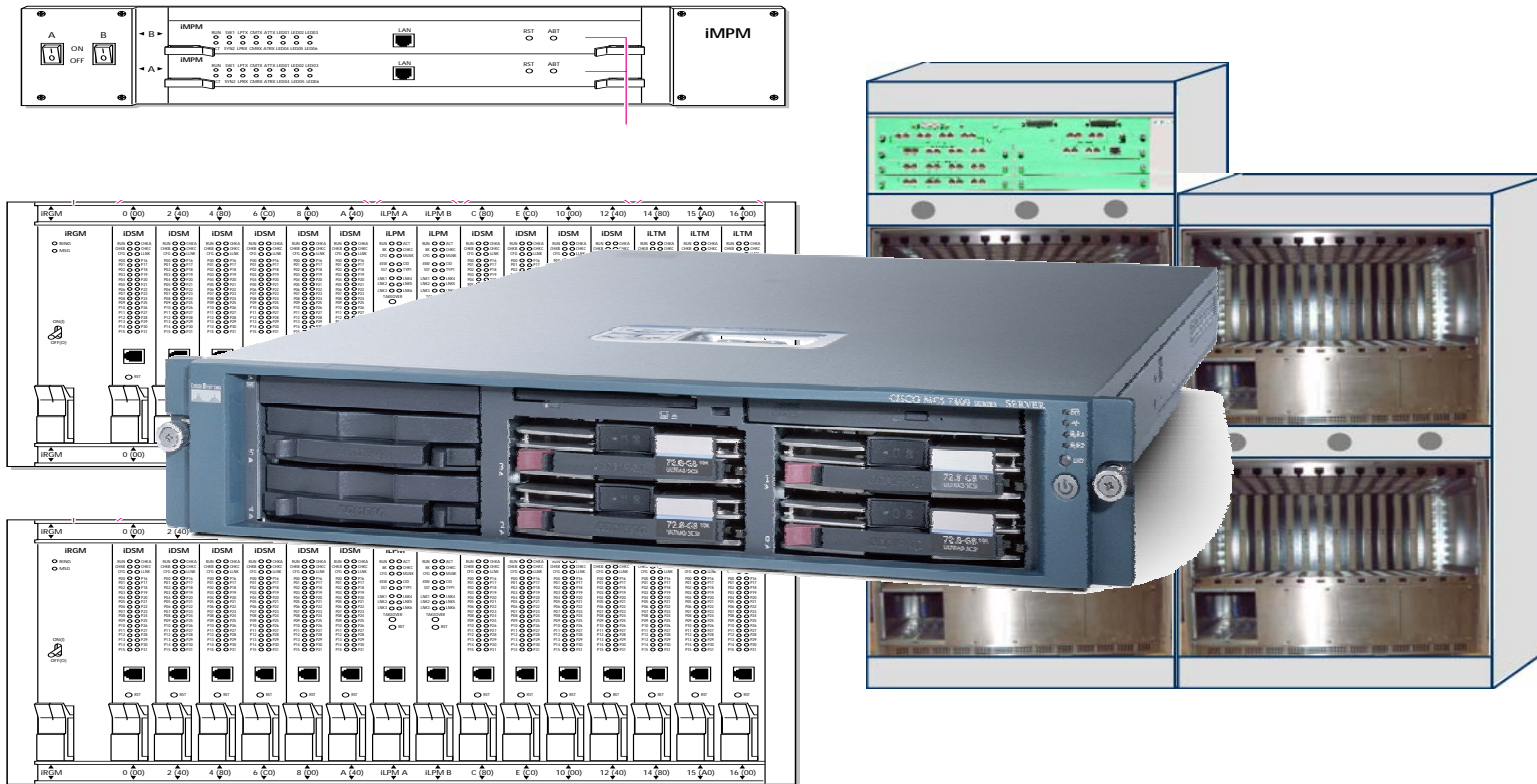
Cisco® CallManager based platforms



**Cisco CallManager Express with
Cisco Unity Express for smaller site locations**

PBX System

제어부

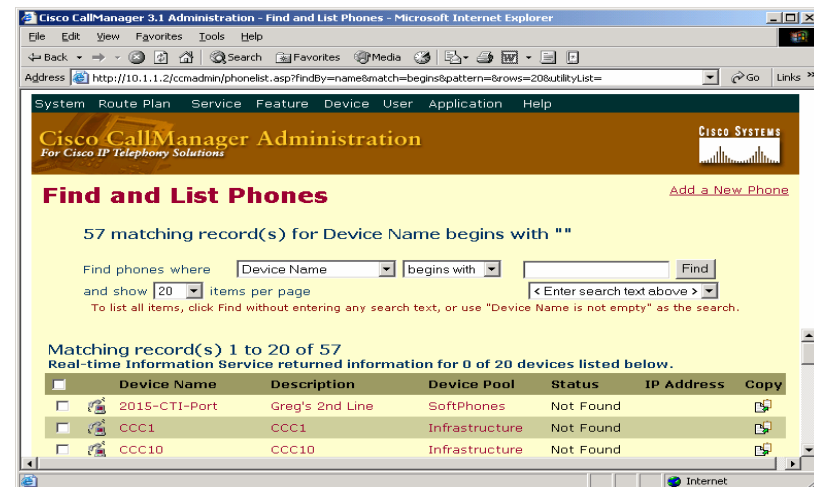
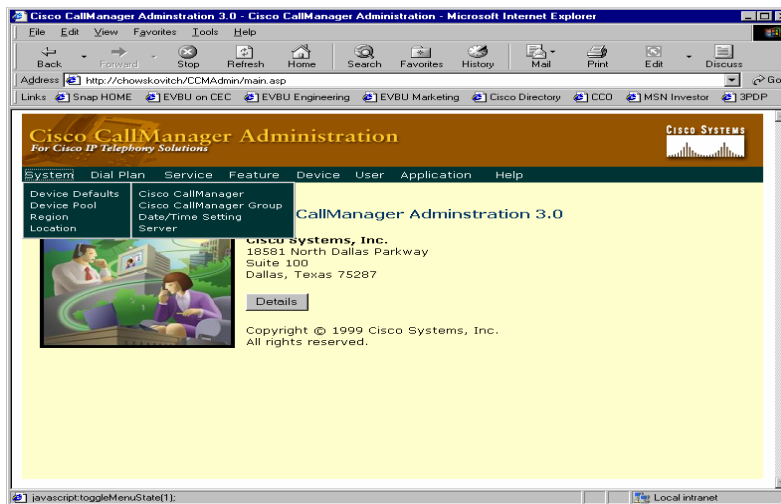


Shelf
(각종 card장착)

Shelf를 증가 시켜야 함

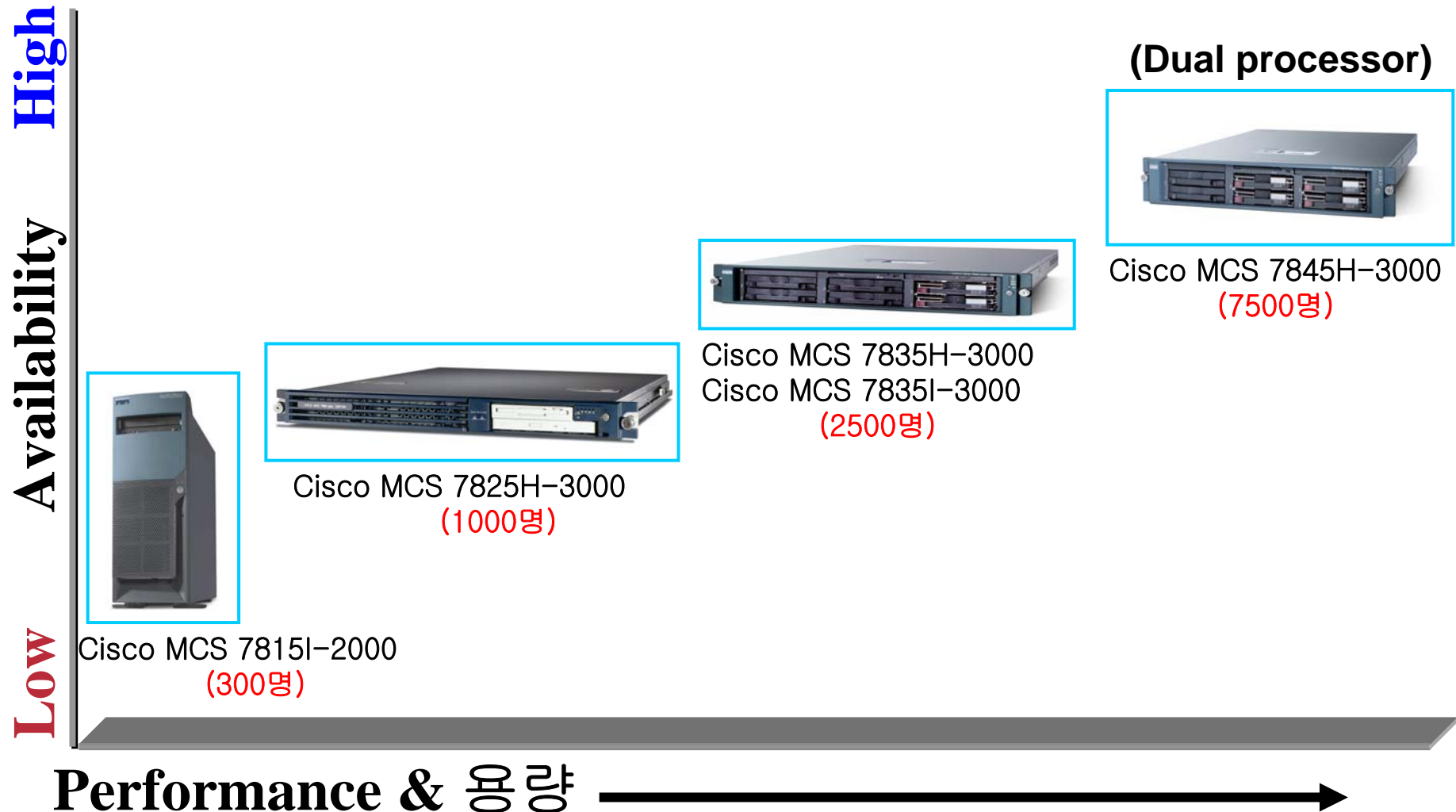
Cisco IP PBX Call Manager 4.1

➤ IP Telephony 를 구성하는 가장 중요한 요소로써 MCS Server 에 설치되며, Call-Processing 을 담당한다. 특히 Cisco Call Manager의 경우 Voice 뿐만 아니라 Video도 지원하여 Video Telephone, Video Conference를 지원



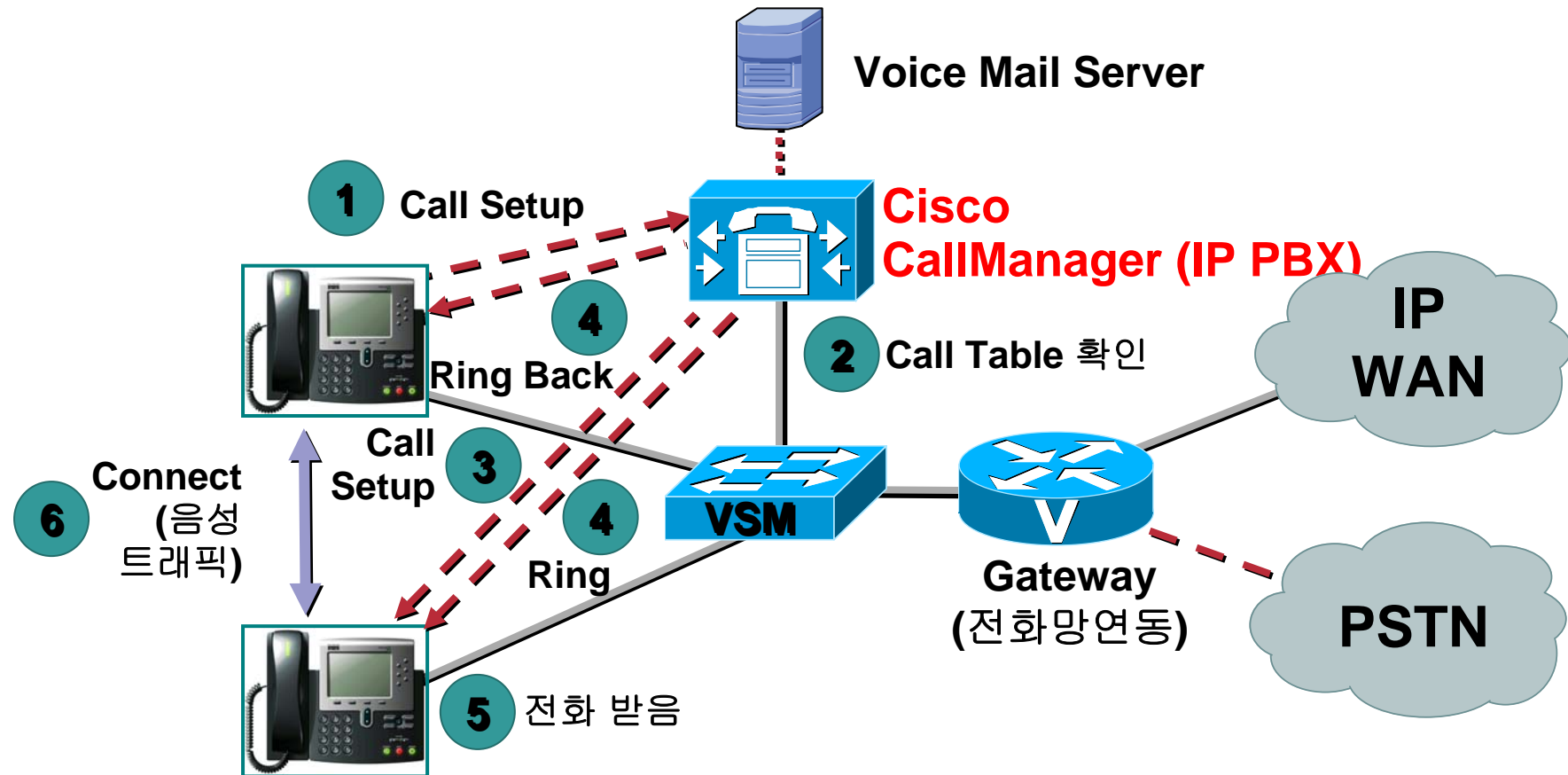
- 표준 HTML을 이용하여 설치, 구성, 관리 가능
- 지원 Protocol (Skinny, SIP, H.323, MGCP)
- Media Convergence Server platforms에 기본으로 설치되어 제공되며, 제공되는 CD를 이용하여 설치의 용이성을 제공한다.
- 일반적으로 사용되는 Telephone 관련 기능은 물론, 표준을 따르는 타사의 Application 사용 가능 (TAPI, JTAPI)
- 시간당 50,000 call 이상 지원
- Clustering를 이용하여 Load Sharing 및 Fail over 지원 – 최대 8 대
- 한 cluster 당 30,000 IP Phone 지원

Cisco IP Communication Platforms



All IP Cisco IP PBX 음성 신호 흐름도

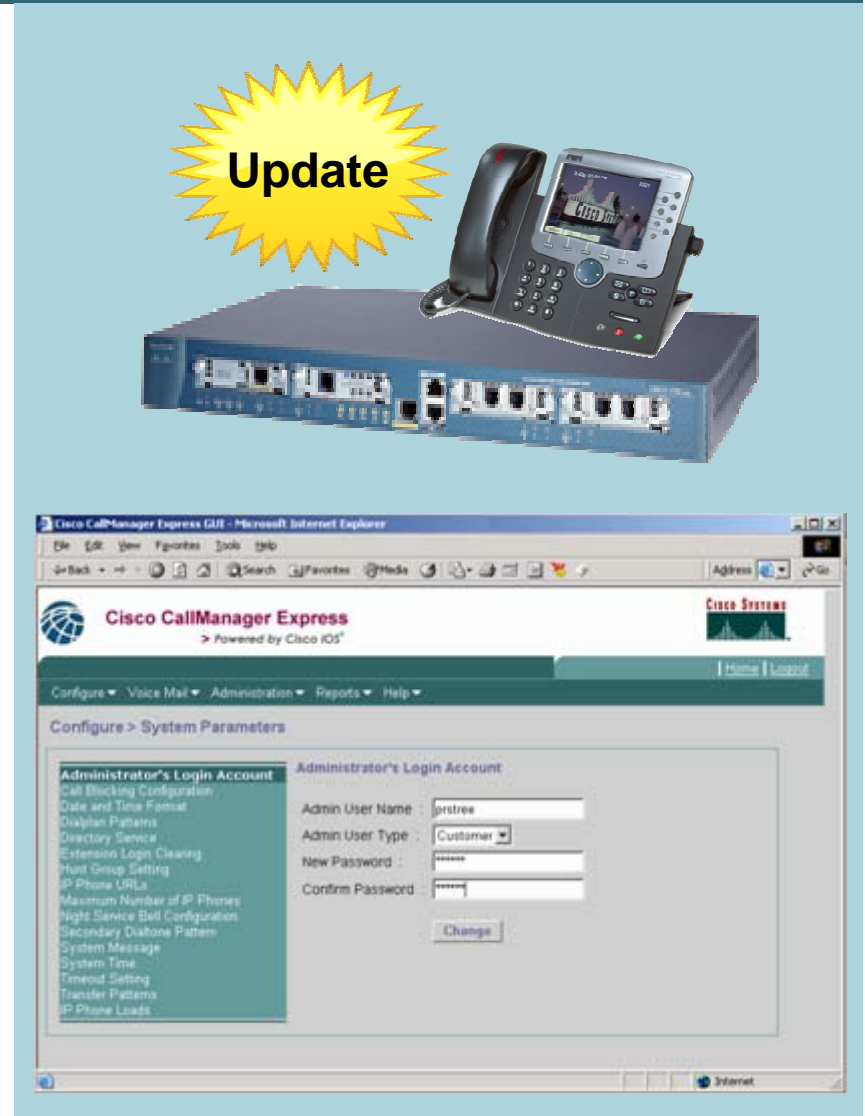
Single Site



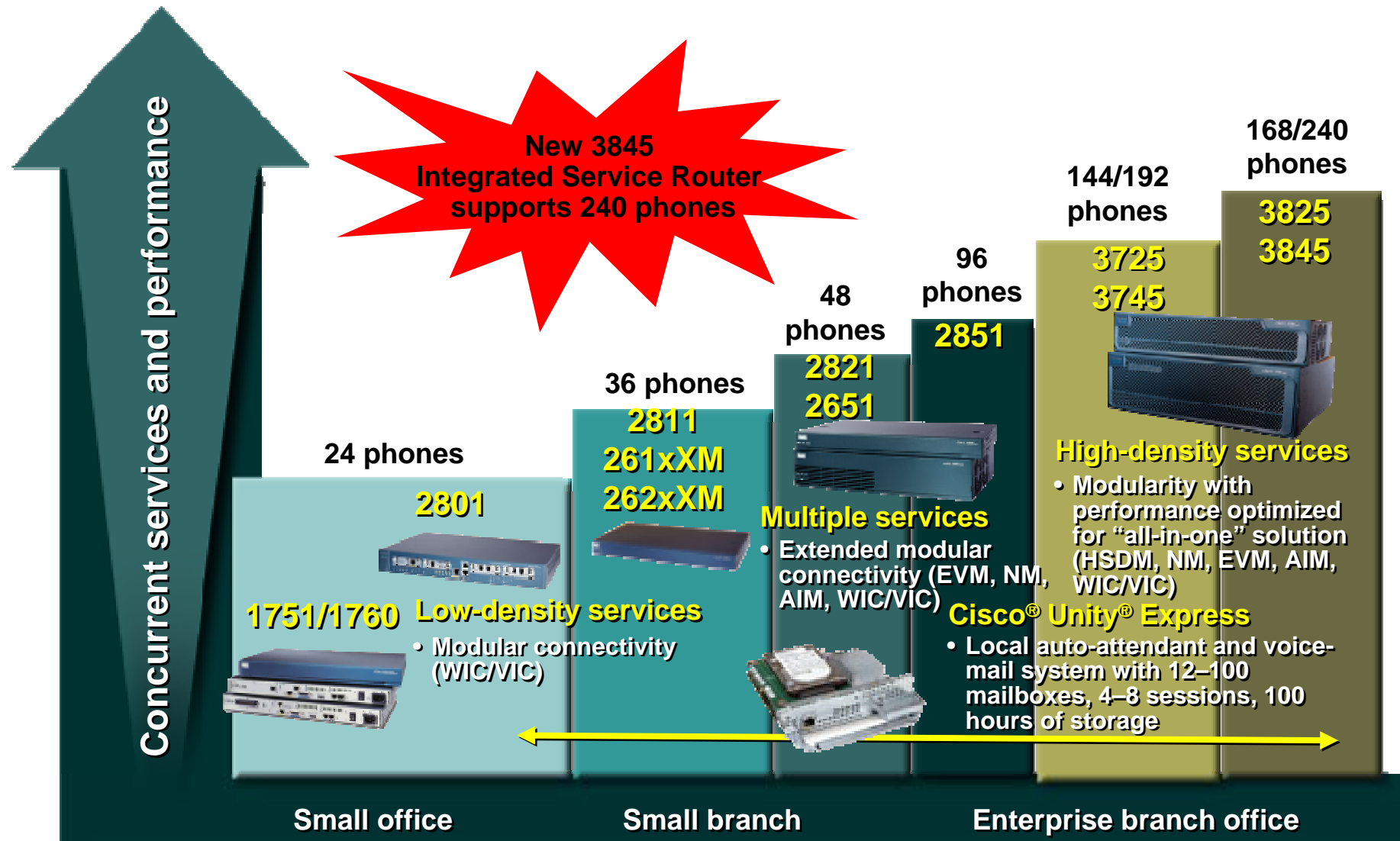
Cisco CallManager Express v3.3 (키폰대체)

Simple, Affordable All-In-One Communications

- Cost effective, converged data and voice solution inside Cisco Integrated Services Routers
- Key system/small PBX features PLUS innovative convergence applications for up to 240 users
- Unmatched investment protection for future growth
- New features:
 - Embedded Meet Me conferencing for 20-96 users
 - Enhanced call routing and queuing
 - Increased security

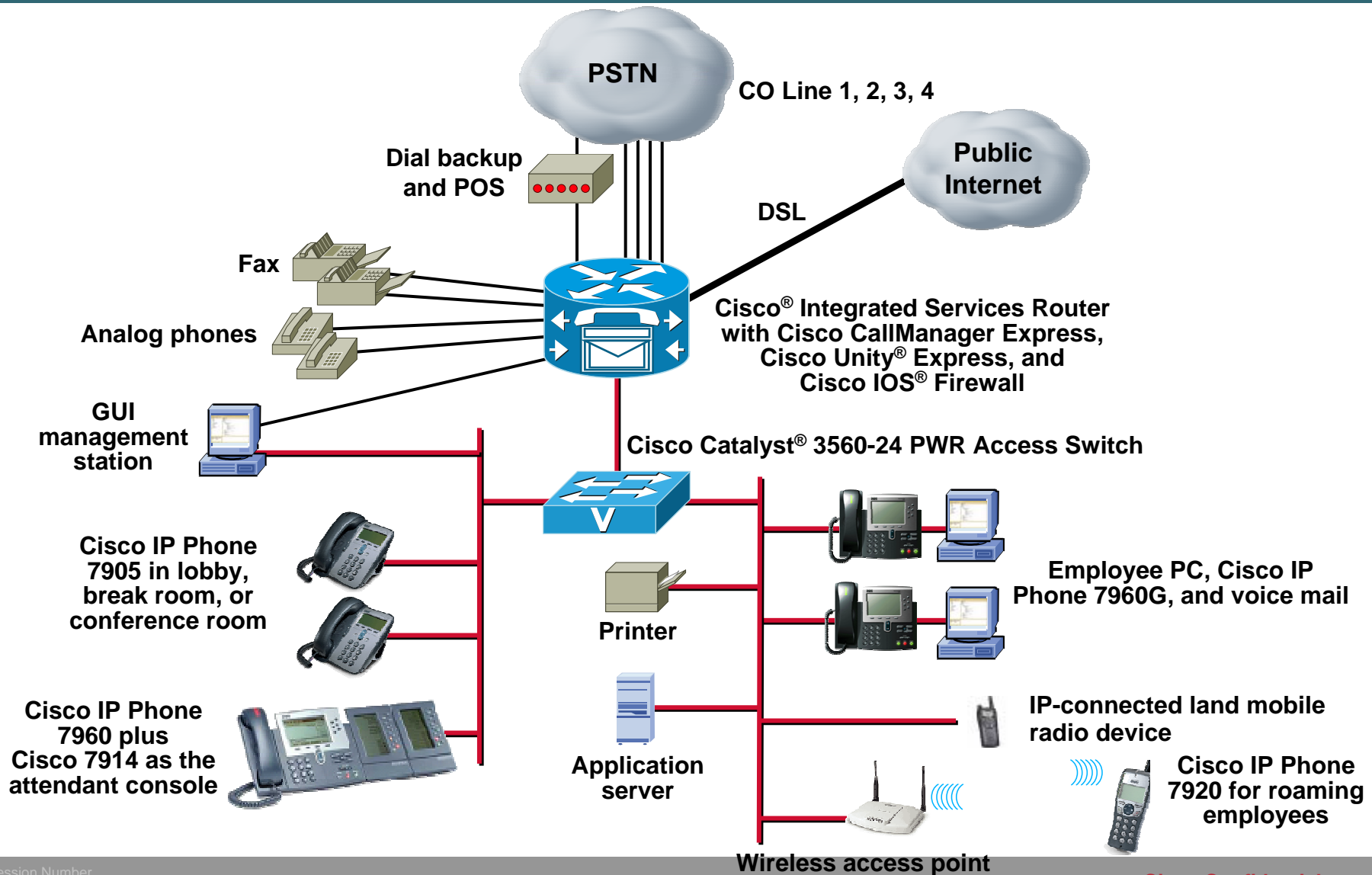


Cisco CallManager Express 을 지원하는 Router 및 지원 전화수



Cisco Call Manager Express로 구성 한경우

- All in one 솔루션



Cisco IP Phone 종류



Cisco IP Phones 7941G and 7961G

Affordable, Feature Rich Business IP Phones for Small to Medium-Sized Offices and Enterprise Branches

- New higher resolution display (320x240 vs. 145x100)
- Display will benefit XML app developers
- Display supports double-byte characters/Unicode (fully w/SD-GA release)
- Lighted line keys
- IEEE standard 802.3af inline power, and will support Cisco legacy power



Cisco IP Phone 7985G (Video Phone)

Personal Desktop Video Phone for Rich, High-Touch Communications

- Integrated voice, video, web and data communications
- 8.4" Color LCD—executive friendly form-factor
- Speaker-phone with a head-phone jack and a handset
- Two-port Ethernet switch with IEEE PoE
- All the audio features and functionality of a full featured Cisco IP phone
- **H.264 video**



Cisco VT Advantage

- 기존 Cisco IP Phone을 이용한 저가의 솔루션

- **Cost effective video to every desktop**
 - Phone registers as a video capable phone
 - Cisco IP Phones 7940G, 7941G, 7960G, 7961G, 7970G and 7971G-GE supported
- **High-quality video for effective non-verbal communication**
- **Managed by one converged network**
 - Easy-to-use phone features added to video calls
 - Transfer, Hold/Retrieve, Call Forward, Ad-hoc Conferencing, Mute
 - Calls can be made to H.323 or SCCP video/audio terminals (single dial-plan)
 - Automatic codec, format, and bit rate negotiation

Video Telephony is Now Just a Phone Call



Initiate Voice/Video Call from an IP phone

- Audio on the Phone
- Video on the PC (Cisco VT Camera included)

Cisco IP Communicator (Softphone)

Gives your PC the functionality of an IP phone

Access your phone extension and services outside the office (on/off campus)



- **Easy to use**

- Feature parity with Cisco's advanced IP phones
- Multiple lines, barge, extension mobility
- IP Phone services support (XML)
- Audio Tuning Wizard for setting audio levels properly

- **Easy to manage**

- Unified administration with Cisco IP phones
- Scaling 1 to 1 with IP phones (unlike TAPI-based)
- Automatic software updates

- **Easy to deploy**

- Manage user configurations
- Auto-detection of Cisco VPN client

- **Premium voice quality**

- Advanced jitter buffer and packet loss concealment algorithms
- Audio "Tuning Wizard" for setting levels
- Echo suppression and noise cancellation

Cisco VG224 Voice Gateway

- 기존의 analog phone용



- **Cisco® IOS®-based high-density analog gateway for Cisco IP communication networks**

Sits behind SRST/CME router in a regional or campus or headquarters location

Analog FXS connectivity with:

SCCP/H.323/MGCP to Cisco CallManager

SCCP/H.323 to CallManager Express or SRST

SIP to CUPS

Analog phones, fax/modem, IVR interconnection deployments

- **Hardware**

24 FXS voice ports (RJ-21 telco connector)

1RU 19-inch wall and rack mountable

2 10/100 BaseT Ethernet ports

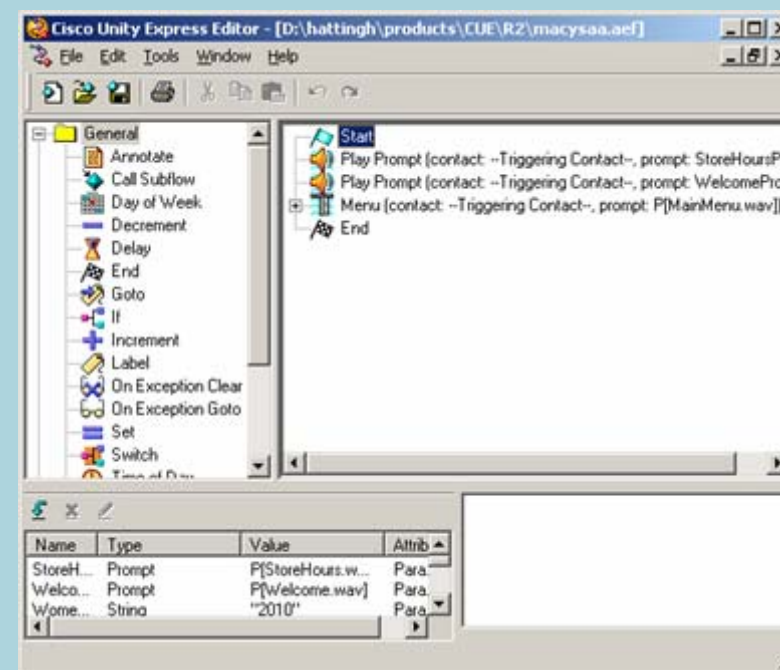
AC or 12V DC (battery) power input

Cisco Unity Express v2.2

- 지사 음성 메일 서버

Easy, Affordable Voice Mail And Automated Attendant

- **Integrated option inside Cisco Integrated Services Routers or Multiservice Access Routers**
- **Rich features and functionality:**
 - Distribution lists, broadcast messages, business hours, holiday schedules, emergencies
- **Flexibility and investment protection**
 - Cisco CallManager Express and CallManager
 - Cisco SRST for voicemail survivability
 - Cisco Unity and Unity Express internetworking
- **New features:**
 - New Auto Attendant integration with Basic ACD
 - 5 new languages
 - Remote monitoring and management with SNMP



Cisco Unity Express Modules

Fully self-contained, onboard memory, processing, and storage supported on the Cisco® 2800 and 3800 Integrated Services routers, plus 2691, 2600XM, and 3700 series access routers



NM-CUE or NM-CUE-EC

- Voice message storage: 100 hours
- Session/port capacity: 8 or 16
- Up to 120 mailboxes supported
- Hard drive: 20 GB, 500 MHz processor, 256 MB/512 MB DRAM



AIM-CUE

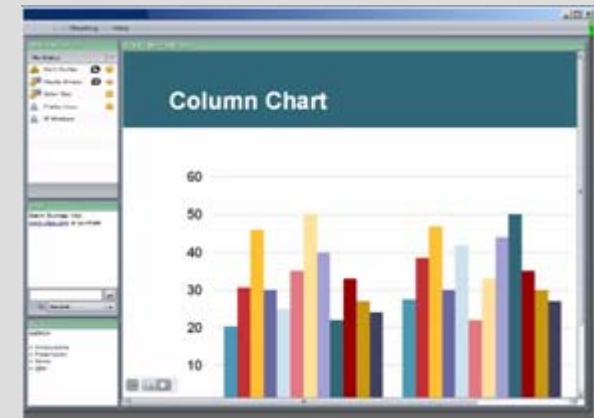
- Voice message storage: Up to 14 hours beginning with release 2.0
- Session/port capacity: 4 or 6, depending on router
- Up to 65 mailboxes supported
- Industrial-grade compact Flash: 1 GB beginning release 2.0, 300 MHz processor, 256 MB DRAM

Cisco MeetingPlace Express

- 음성 및 데이터 협업 솔루션

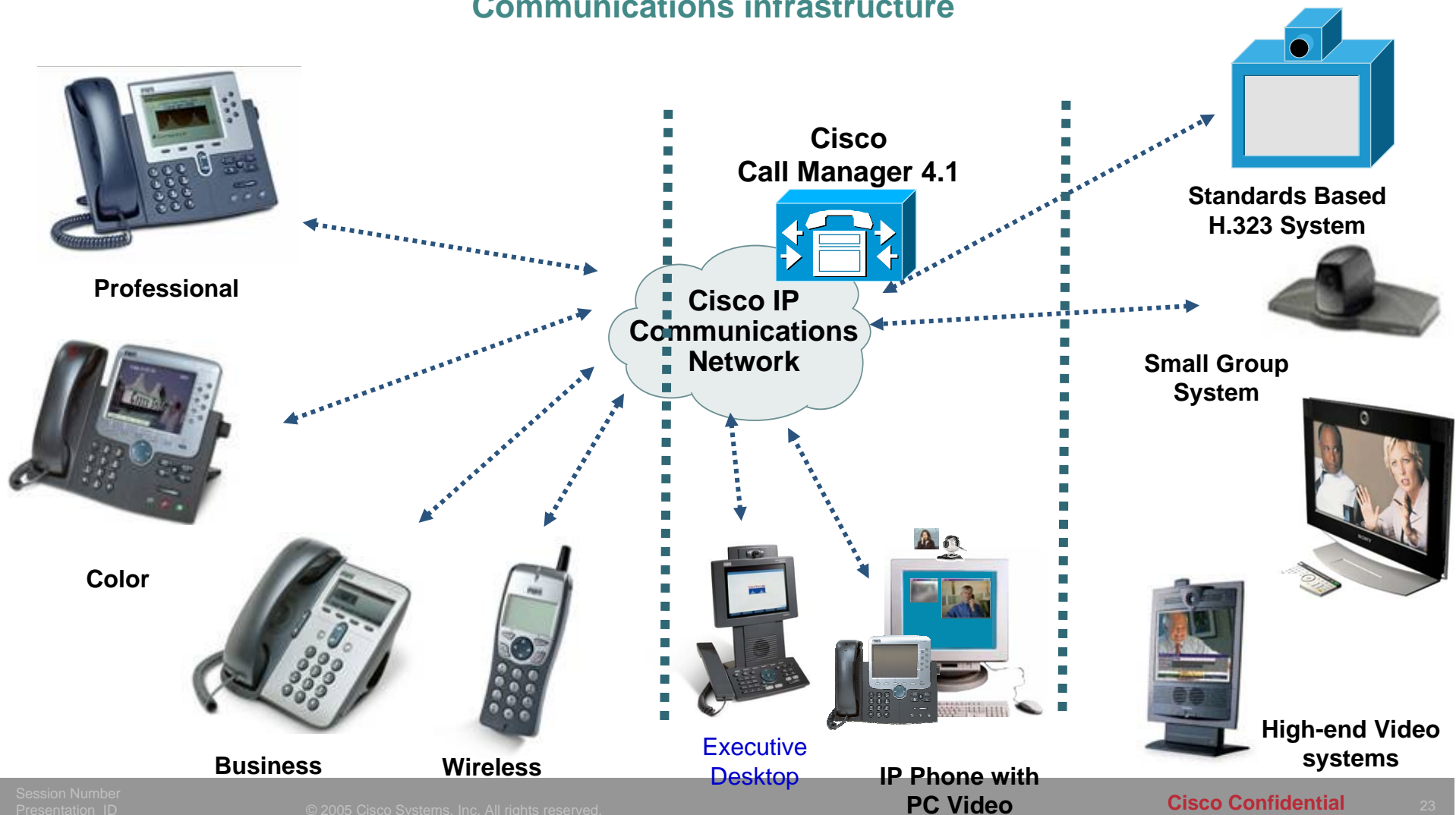
Voice and Web Conferencing Solution

- Deploy conferencing with CallManager for cost savings and productivity
- Simple, powerful functionality
 - Extensive voice conferencing capabilities
 - Control meetings and share content from web
 - Simple setup and attend from web and phone
- Simple to deploy and manage
 - Software solution on single MCS server
- IP voice—H.323 and SIP
 - 120 concurrent users

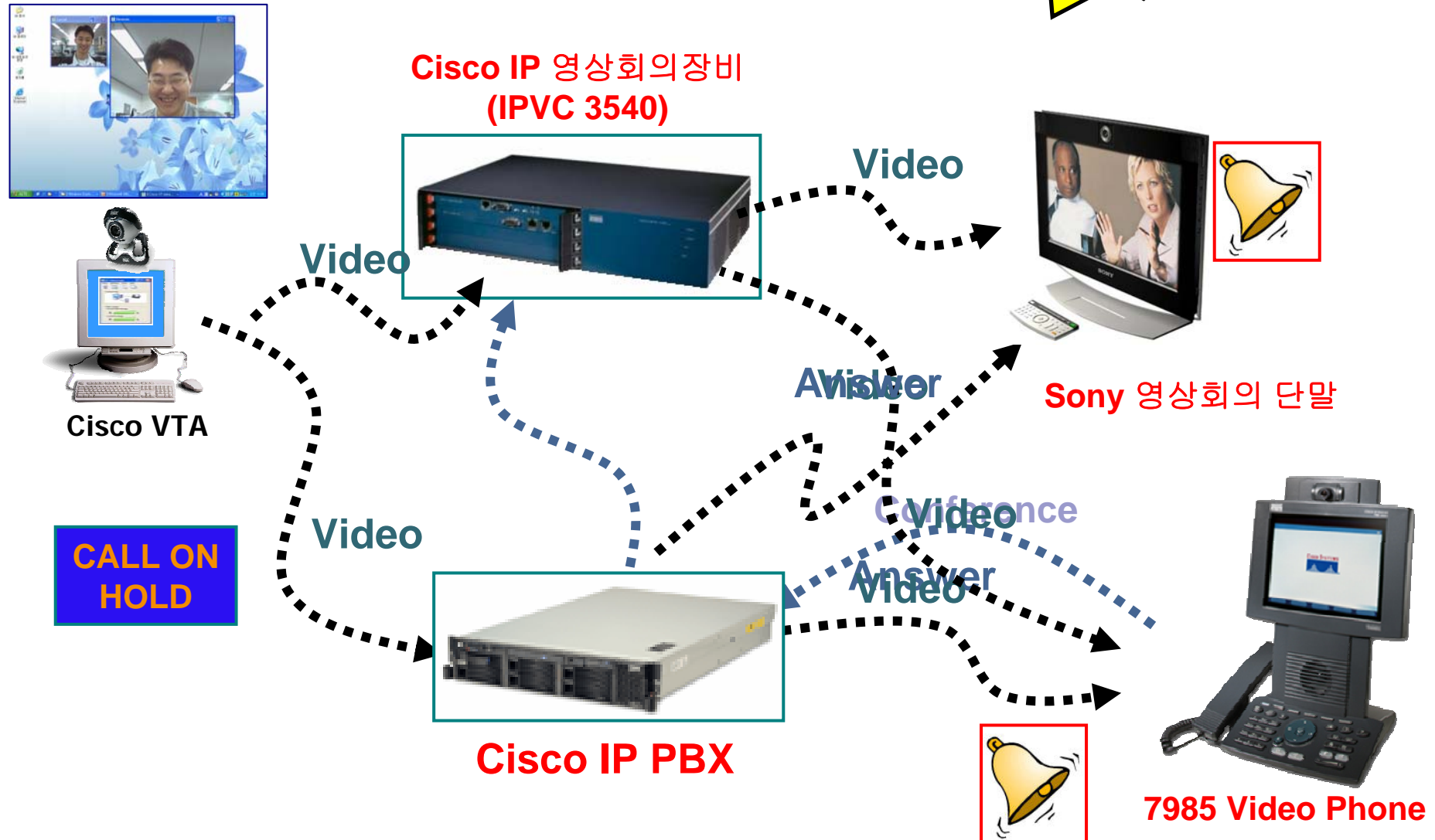


영상 회의 및 전화 교환기

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



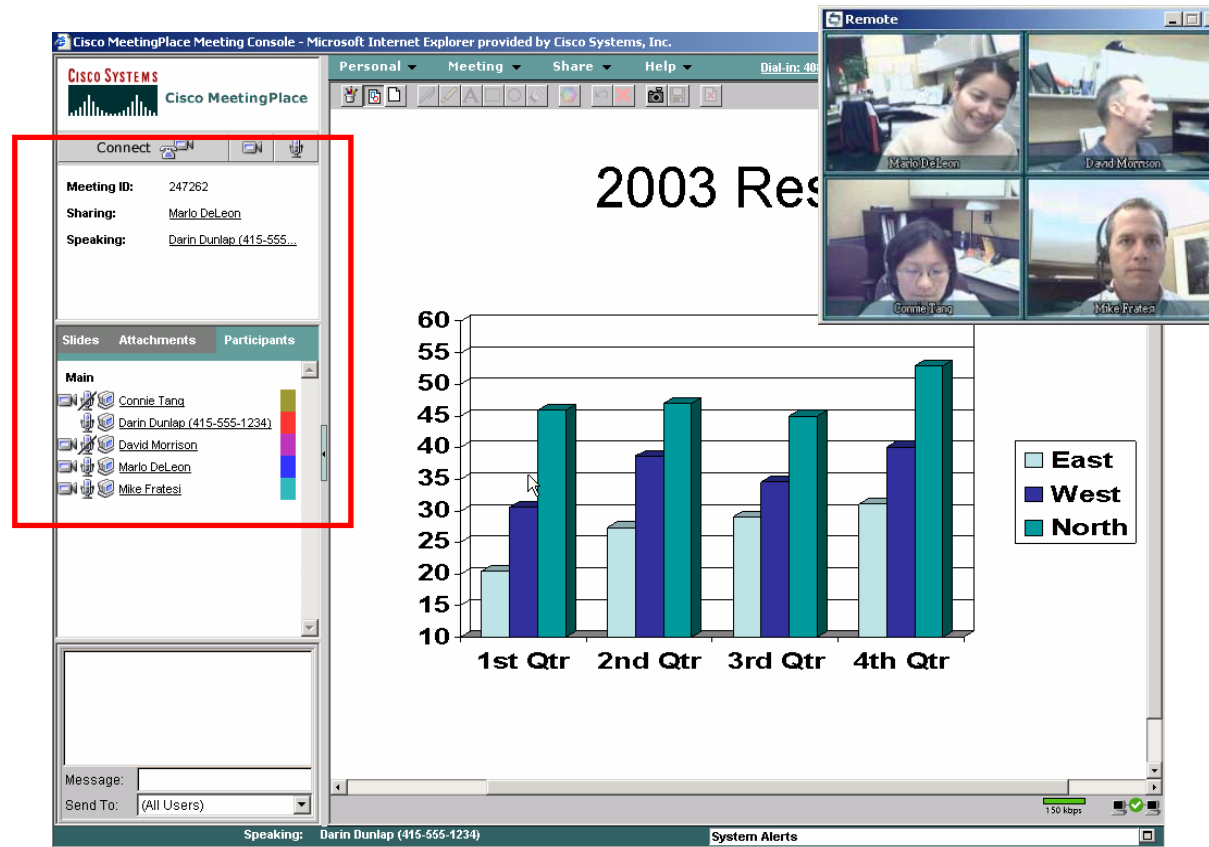
사용편리성!!



실제 영상전화와 데이터 협의 모습

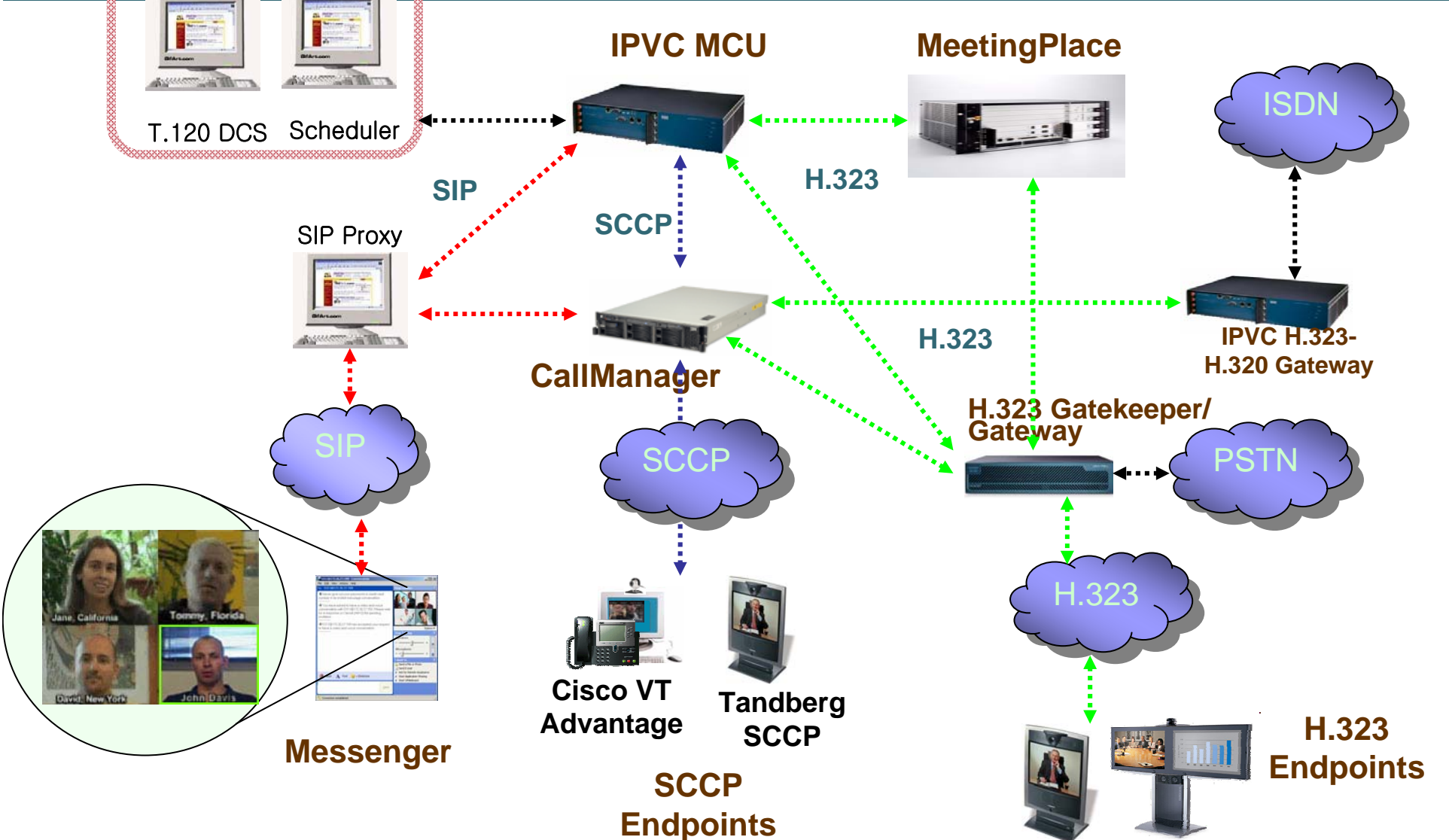
As natural and effective as face-to-face meetings

**Who's Sharing
Who's Talking
Who's Attending**



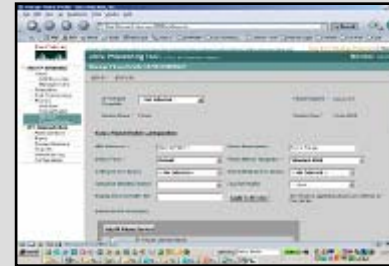
Complete voice, web and video capabilities and control

완전 통합된 Cisco의 영상 솔루션



Simple Tools to Manage, Monitor, Report

- **Cisco Voice Provisioning Tool**
Provides Common System Administration Interface: Many Daily Provisioning Activities Now 1 Min or Less Compared to 4 Minutes!
- **CiscoWorks IP Communications Operations Manager 1.0**: Service Level Monitoring And Diagnostics Across Entire Business Communications Solution
- **CiscoWorks IP Communications Service Monitor 1.0**: SLA Information About Actual User Quality Of Voice Experiences
- **Cisco Network Assistant 3.0**: Intuitive Network Wide Configuration of Switches, Security and PoE Ports



Cisco Voice Provisioning Tool

CiscoWorks IP Communications Operations Manager 1.0



CiscoWorks IP Communications Service Monitor 1.0

Cisco Network Assistant 3.0



Q and A



감사합니다.

CISCO SYSTEMS

