IBM System i™

# i = UC<sup>2</sup> System i for Unified Communications & Collaboration



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i want easier collaboration. i want control. i want an <mark>i</mark>.



## Enriched Communications through Application Integration and Multimedia

- 1.IP Changes Communications
- 2. Open Standards Route to Multimedia: SIP
- 3.IP Communications Applications
- 4.IP Communications benefits



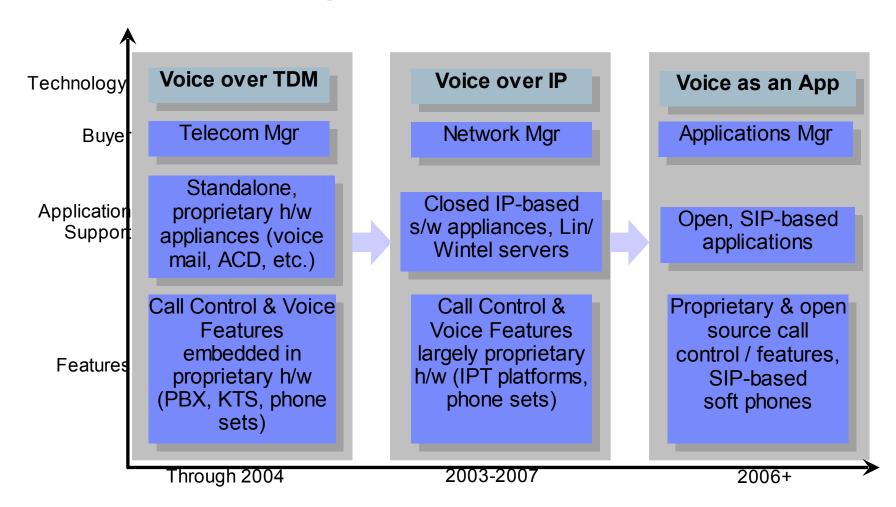
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## Market Shift Has Begun - Voice As An Application



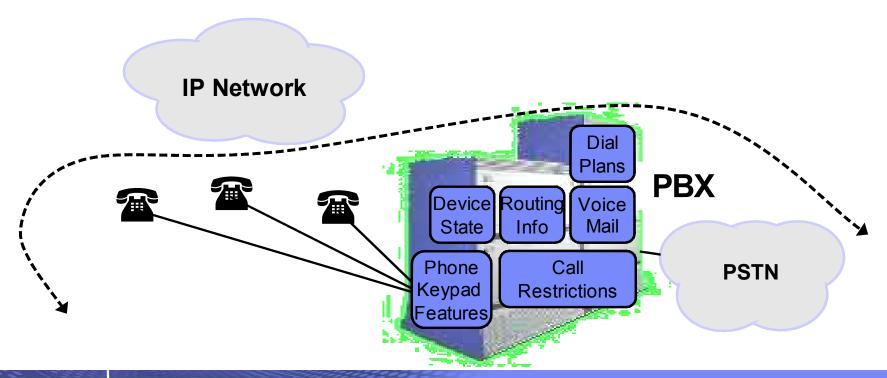
Sources: Yankee Group, IntelliCom Analytics



## IP Telephony – moving to an application model

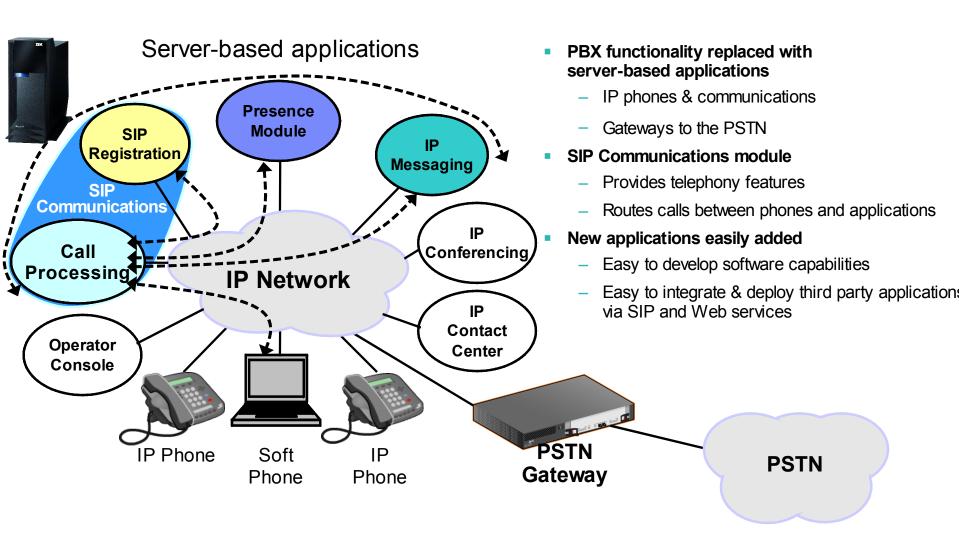
#### **Traditional telephony**

Often totally independent from the IP network





## IP Telephony – moving to an application model

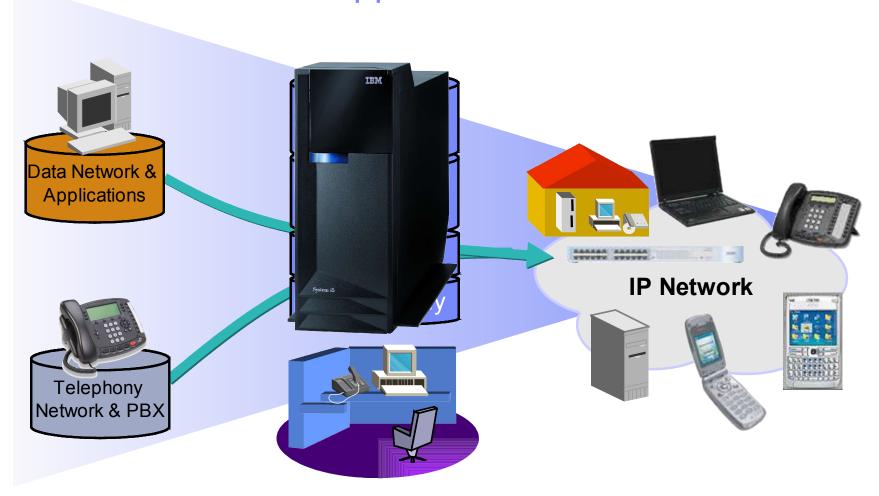


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## Telephony:

Just Another Application on the IP Network

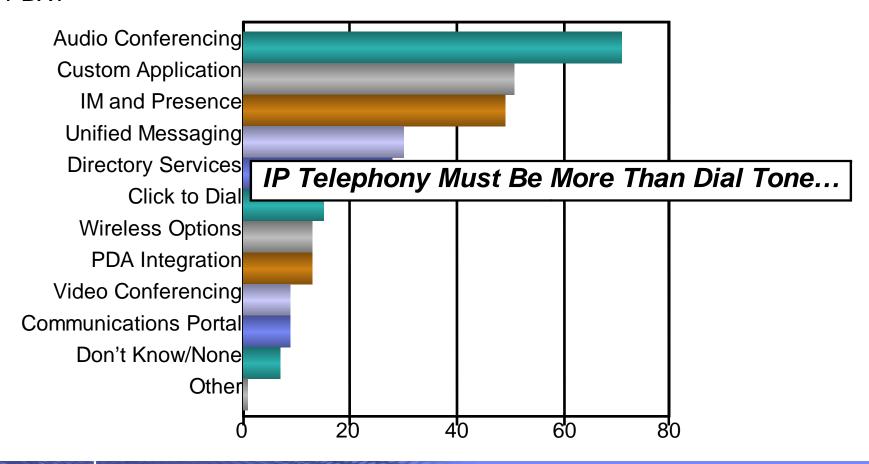


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## What Convergence Applications Are Driving IP Telephony Adoption?

"Which of the following enhanced services or features are being used with the IP PBX?"





### What users are looking for from Unified Communications....

### Integration of communications control across devices

#### **Common Contact Lists**

 Easy to maintain contacts across multiple devices

#### Media choice

- Simple to respond to communications with alternate media
  - E.g. Click-to-call to respond to email



#### **Presence**

Is someone available now?

#### **Multimedia**

- Communicate using multiple media
  - Voice
  - Video
  - IM
  - Desktop share

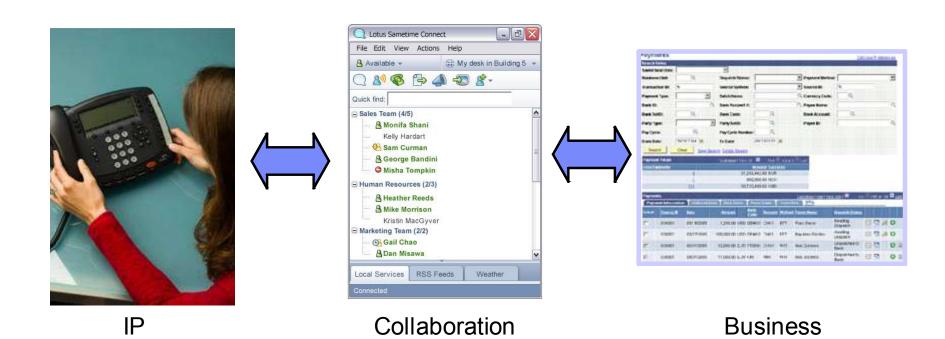
#### **Unified inbox**

- All messages in on place
  - Email
  - Voicemail
  - Fax



## **Beyond Unified Communications**

 Integration of telephony, collaboration tools and business applications to drive revenue, improve business processes and increase customer satisfaction



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Telephony

**Applications** 



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## Open Standards Route to Multimedia: SIP

## A standard for initiating interactive sessions:

### Session Initiation Protocol

- Enables multi-vendor deployment of IP Telephony
- Supports communications using multiple media such as video and instant messaging – not just voice
- Can be easily integrated with Web technologies
- Calling based on email-like addressing
- Extremely flexible



### **Enriched Communications**

#### **Multimedia SIP Clients**

- Support multimodal sessions
  - Instant Messaging
  - Audio
  - Video
  - Desktop sharing
- Enables workers to communicate more effectively
  - Media appropriate to communication
  - Increases contact and understanding







# A single SIP infrastructure can support many different services!









**SIP Paging** 



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## Lotus Integration Functions in IBM/3Com Suite 7.2.5

#### Domino Integration

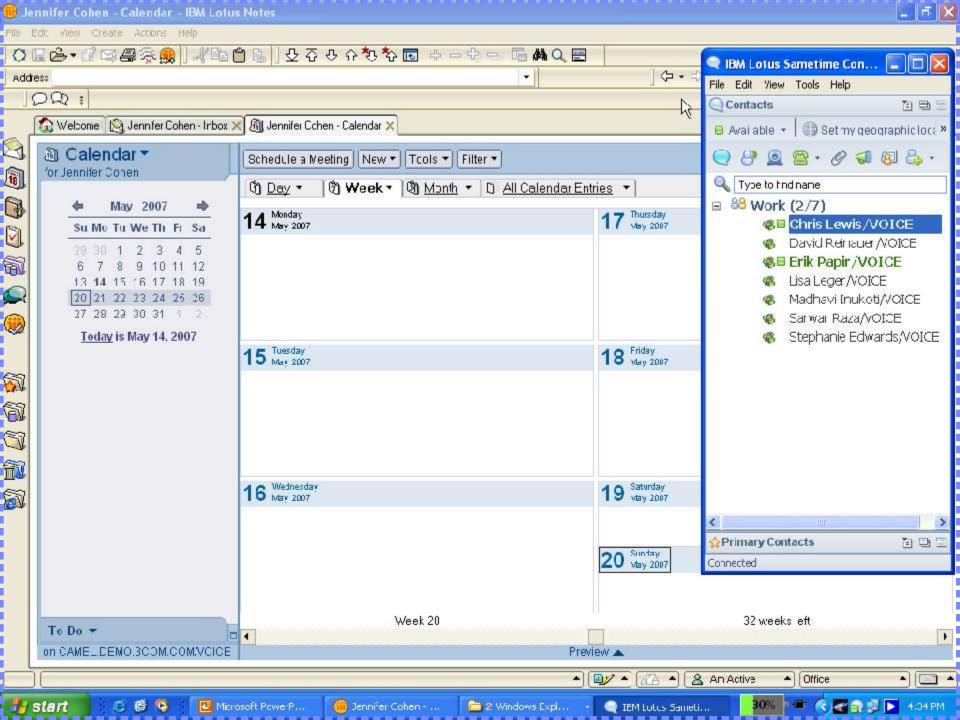
- LDAP for Telephone Directory
- Voicemail in Email
- Fax in Email

#### Notes Integration

Click to Dial

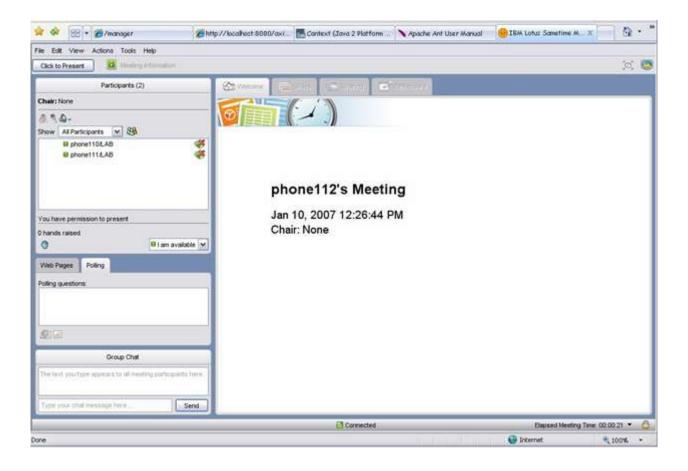
#### Sametime Integration

- Telephony Presence
- Click to Dial
- Click to Conference



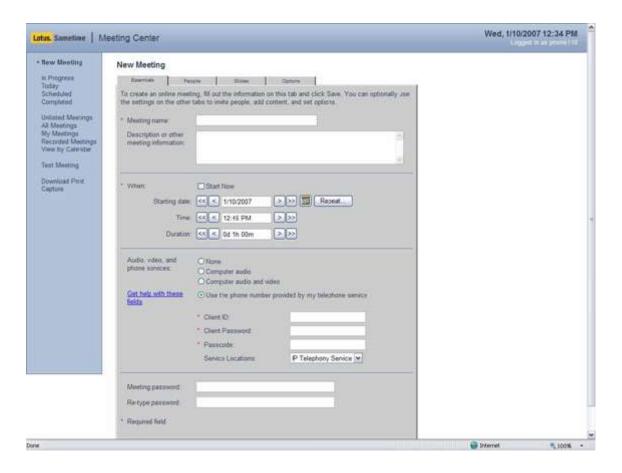


Instant Web conference – with telephone integration and moderator controls, chat and desktop sharing capabilities.





Or schedule a web conference in advance, publishing dial in info etc. into form below – participants can just click on 'join call' to have their phones dial into published bridge.





## **Applications: IP Call Center**

#### Inbound Call Center Application

Planned General Availability: Q2 2007

#### Typical Inbound Call Center applications

- Internal sales teams
- Help desks
- Support centers
- Customer service centers
- Telemarketing response lines
- Incident response centers
- Order entry teams
- Any requirement to route calls to a team of agents with
  - Application integration
  - Supervisor and monitoring functions





## Telephony API SDK –

## **3Com Telephony Software Development Kit**

- Allow ISVs to integrate with telephony applications
- Call control and phone configuration capabilities with service oriented web services API (HTTPS, XML, SOAP)
- Sample applications in various languages and developer documentation

#### Call Control Functions:

- Make a Call
- Put a Call on Hold
- Disconnect a Call
- Transfer a Call
- Add party to a conference call

#### Phone configuration functions:

- Set/Clear Do Not Disturb
- Set/Clear Forward to Voicemail
- Call Forward Busy/Ring No Answer/Universal
- Hunt group login/logout
- Mute phone



#### www.open.3com.com

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#### WHAT'S NEW AT 3COMION

IBM, 3Com to Deliver First Integrated, Single Platform for Converged IP Telephony, Business and Collaboration Applications

3Com/ON and 3Com Focus Program Unite Technology Providers and Resellers to offer Distinctive Solutions to the Market,

Enter our ONIAPPS Contest! Show off your application originality and win \$\$\$!

ADDITIONAL RESOURCES

3Com Products



Explore 3Com/ON

Member Levels

Program Benefits

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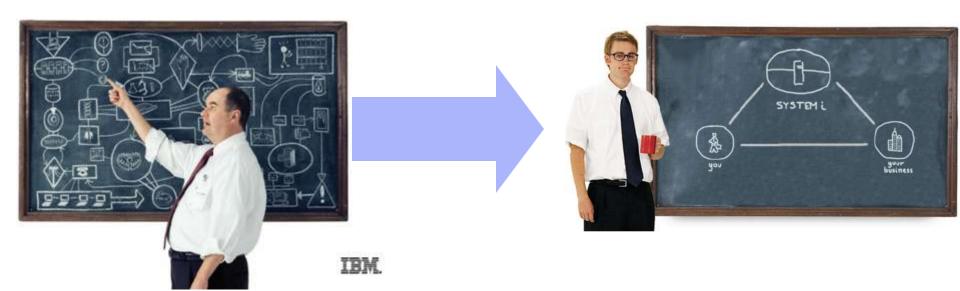


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## IP Telephony delivers on cost and productivity



#### Moving from Traditional to IP Telephony can deliver significant benefits

- Reduced costs associated with long distance, voice mail, and conferencing
- Simplified administration
- Reduced construction and maintenance
- Increased employee productivity
- Improved customer service

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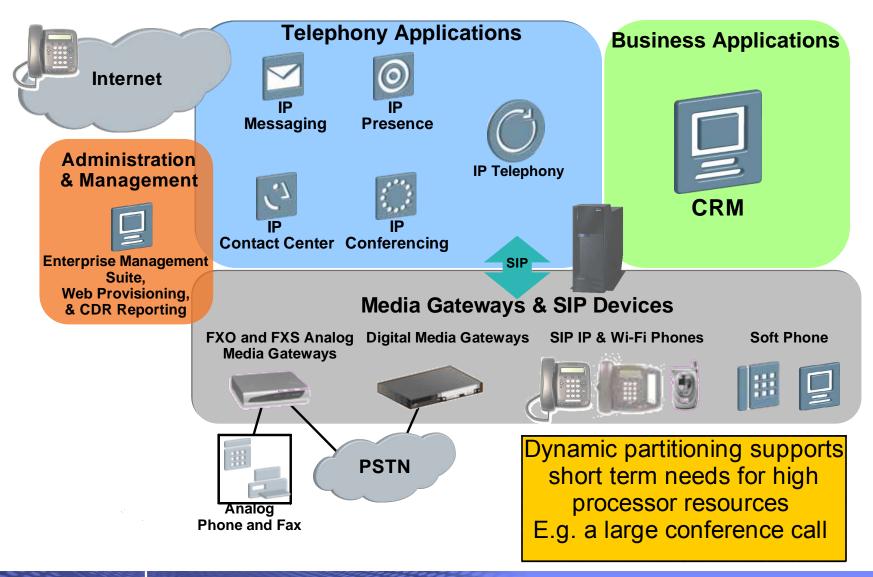
## System i IP Telephony is Powered by 3Com



- >Shared values make a great fit:
  - Support for Open Standards
  - Focused on the mid-market
  - Promise simplicity and integration
- >System i brings core values
  - Scalability A complete IP
     Telephony suite on a single system
  - Reliability Legendary uptime, expert support and #1 in customer satisfaction
  - Integration With collaboration and business processing apps already on your system



## System i IP Telephony Suite

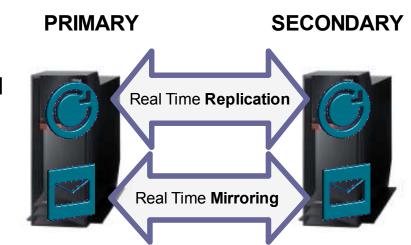




## High Availability through Application Redundancy

#### Application approach to resilience

- Database replication ensures multiple application instances remain synchronized
  - Hot standby redundant applications that can take over services instantly
  - Critical data replicated or mirrored between servers
  - Gateways provide survivable telephony to enable calling even if contact to server lost
- Application capacity scales with processing resources, memory and hard discs
  - Can grow with the business
  - No forklift upgrades or server replacement
  - Traditional PBX vendors often requires phones to be replaced for larger platforms
- You should always have dial tone....





"In testing fail-over of the VCX, we were frankly astonished that we could keep disconnecting back-up controllers, and phone service continued without skipping a beat."\*



## How Does System i IP Telephony Work?

With IP Telephony, all calls are placed directly between handsets. This fact enables some key benefits of our solution:

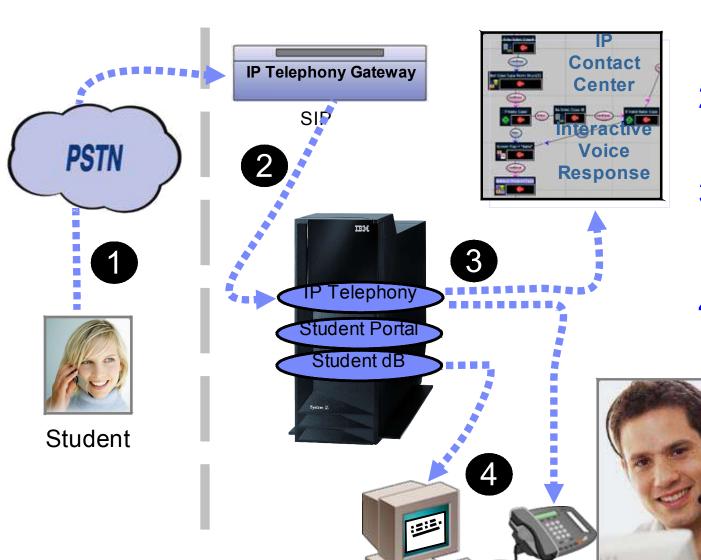
- Fantastic scalability Over 5,000 users on a 1-way 520
- •Efficient routing of IP calls to save money and reduce trafficony

Prima Phones "know" their back-up server – calls get through

Messa Servers "know" user's IP address - mobility



## Convergence Example – Student Portal



Student Calls from Public network System i routes call to operator IVR asks for 3 student info/ID Student advisor 4 answers call with student info on computer screen

Advisor can conference in other persons from computer screen if needed



## System i IP Telephony

#### Benefits of System i IP Telephony

- Consolidate Phone and Data Networks
- Make calls on low-cost data networks
- Dynamic resource allocation
- Unified Messaging and advanced features
- Support mobile and remote workers
- Integration with business applications
- Integration with collaboration applications





### Questions?

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Alan Mathew, IBM

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