IBM System i™

# Common Session Luxembourg
# 15 february 2007

3COM

Co presentation IBM and 3Com

***i want easier collaboration.***
***i want control.***
***i want an i.***

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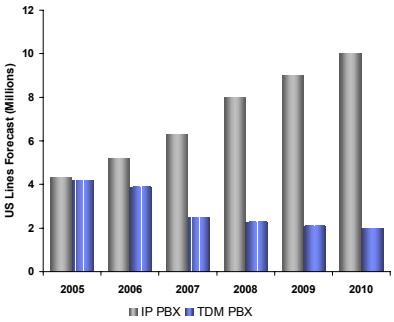
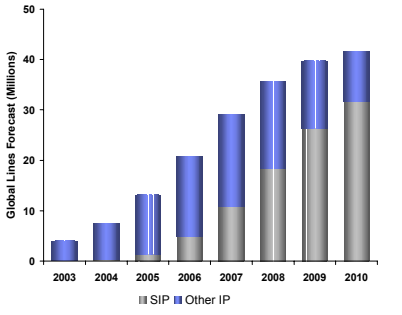
## Transition to IP Telephony is well underway

IP Telephony outsells Traditional PBX systems today




Source: Business Communications Review Magazine Jan 1, 2006

While the market transitions to open standards




Source: Canalys forecasts, Converged Telephony Analysis, Aug 2005





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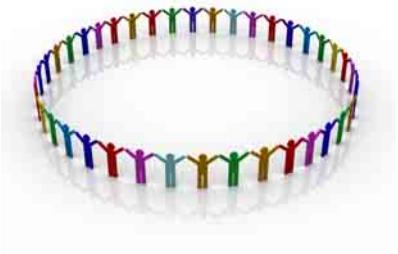
## Why IP Telephony ?

- It is based on the **end-to-end** principle
- IP services are performed at **the edge** (Smart devices)
- Network is unaware of the number of applications, this makes it **scalable**
- The need for **cost** effective growth
- Lower the operational expenditure by **converging** the data and voice networks into one single network (cost reduction)

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## Why on System i ?

- **Scalability**
  - Resource Allocation (LPAR)
  - Capacity on Demand (n-ways)
- **Integration**
  - Platform Integration (i5/OS, Aix, Linux, Windows)
  - Telephony / Application Integration (SIP protocol – VLan)
- **System Management**
  - HA ( function included in package)
  - Simplified Backup ( Virtualization)
- **Simplicity**
  - no Server Farm

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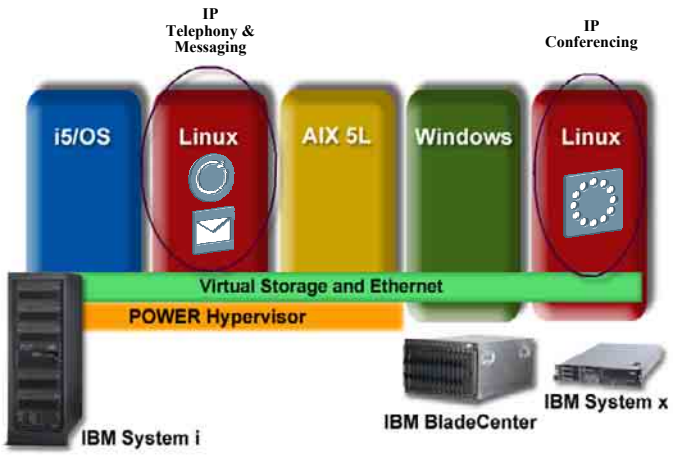
## Where does IP Telephony run on System i?

- System i & i5/OS virtual by design
- Extends horizontally to other environments
- IP Telephony resides in own hardened Red Hat Linux Kernel
- Multiple Guest partitions for separate IP Telephony functions





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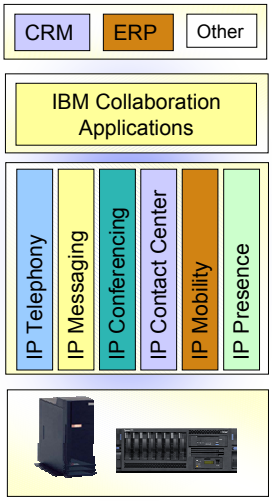
## Reliability is the Single Most Critical Aspect

- **3Com SIP-Based Telephony & Application Modules on single platform with**
  - IBM Collaboration Applications
  - IBM Software Partner (ISV) Solutions
- **Telephony on IBM System i**
  - Single, Secure, Reliable Platform for IP Telephony & other Business Applications
  - Reduces Total Cost of Ownership
  - Enhances Business Process Integration & Application Integration
  - Provides Operational Efficiency & Productivity
  - Strengthens Customer Interaction





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## 3Com Team

- **David Upsher** (Sales UK and Benelux)
- **Mike Valiant** (Voice & Convergence Solutions Marketing)
- **Nicola Gabbriellini** (Voice Solution Architect - EMEA Sales )

- **Benelux Team**
- Rob Rentenaar
- Dik Van Oeveren


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## 5. How Do I Get Started?

*i want easier collaboration.*
*i want control.*
*i want an i.*

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## Three customer scenarios for IP Telephony

- **Preloaded Telephony Editions**
  - **Pre-sized and competitively priced for IP Telephony**
  - 100, 250, 500, 1000 Handsets
- **Upgrade of Standard and Enterprise Editions**
  - IP Telephony could justify that long-overdue upgrade
  - Multi-workload system for IP Telephony, Collaboration, and Business Apps
- **Installed Standard and Enterprise Editions with existing capacity**
  - Activate those extra processors to run IP Telephony application
  - Multi-workload system with available capacity for IP Telephony Applications


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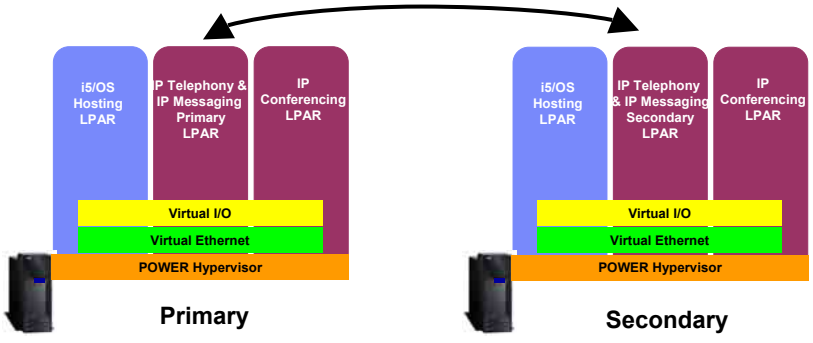
## HA two system IP Telephony Virtual I/O

(Use in 80% of Configurations )




•The IP Telephony servers have built-in support for replication between the Active and Standby server

•Either server may be set to Active to allow maintenance on the other server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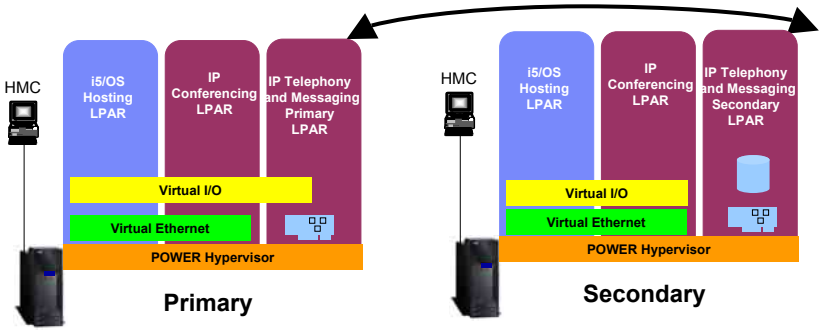
## HA two system IP Telephony hybrid




- IP Telephony servers can take advantage of virtual and direct I/O resources at the same time, these are configuration are hybrid.
- One IP Telephony partition could take advantage of virtual I/O resources while having a dedicated Ethernet.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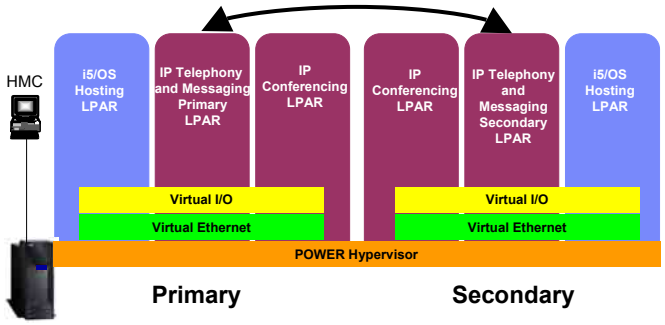
## HA Telephony using a Single System with two sets of LPAR




- The IP Telephony servers have built-in support for replication between the Active and Standby server
- Roles may be swapped to allow maintenance on either hosting LPAR or Telephony LPAR
- An HMC is required to build the 2 i5/OS LPARS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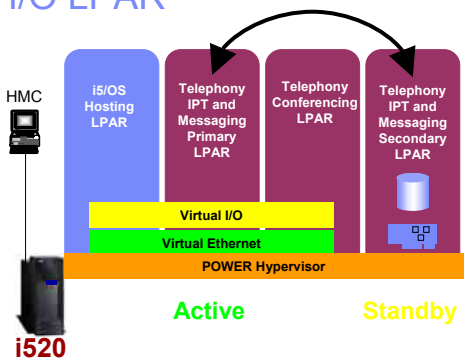
# IP Telephony using a direct I/O LPAR

- The 3COM Telephony servers have built-in support for replication between the Active and Standby server
- Roles may be swapped to allow maintenance on either the hosting LPAR or the Telephony LPAR
- The secondary server is running in a Direct I/O LPAR. Either in the same system or an existing system in the account
- An HMC is required to build the LPARS
- The direct I/O LPAR can remain active when the hosting LPAR is down for a full system backup or maintenance
- An outage may still occur for firmware maintenance is required (generally once per year)




Typical Hardware Additions needed to a Telephony Express Edition or Existing Customer system. A card and disk enclosure may be needed for existing systems.

| | | |
|---|---|---|
| •6594 4-disk slot Exp Cage | | $ 250 |
| •1894 73 GB Disk Unit AIX/Linux Ptns. Only (10K rpm) | | $ 599 |
| •0647 AIX/Linux PCI-X Disk/Tape Controller (IOPless) | | $ 587 |
| •5706 PCI-X 1 Gbps Ethernet - TX IOA (twisted pair) Dual Port | | $ 999 |
| • | **Total** | **$ 2435** |
| •7310-C05 HMC Desktop Hardw.Mgmt.Console | | $1830 |
| •Plus Monitor /Keyboard/Mouse | | |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# System i IP Telephony Express Packages

**Eight new 520 Telephony Express packages**
**Planned* October 24 Announce, GA November 3**

| **Telephony Express HA*nnn*** | **Telephony Express *nnn*** |
|---|---|
| **Pair of systems (primary & secondary)** | **Single primary system (assumes an existing machine for secondary)** |
| **4 packages for 9406-520:**<br>***100*** users 1-way primary & 1-way secondary<br>***250*** users 1-way primary & 1-way secondary<br>***500*** users 1-way primary & 1-way secondary<br>***1000*** users 1/2-way primary & 1/2-way secondary | **4 packages for 9406-520:**<br>***100*** users 1-way primary<br>***250*** users 1-way primary<br>***500*** users 1-way primary<br>***1000*** users 1/2-way primary |
| **Includes base (no-charge) hardware & software (for each machine)**<br>– 1-2 GB memory<br>– 1-2 70GB disk drive<br>– 1 DVD-ROM drive<br>– IBM software as in Standard Edition<br>– Specified 3COM IP Telephony software | **Includes base (no-charge) hardware & software**<br>– 1-2 GB memory<br>– 1-2 70GB disk drive<br>– 1 DVD-ROM drive<br>– IBM software as in Standard Edition<br>– Specified 3COM IP Telephony software (subset) |

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## System i IP Telephony Express HA offering

**System i IP Telephony is comprised of:**

- System i primary server
- System i back-up server
- 3Com IP Telephony software and licenses
- 3Com IP Telephony handsets (phones) and gateway(s)
- Services
  - Network Assesment
  - Voice Readiness Assesment
  - Implementation Services
- 3Com Software Maintenance
- 3Com Hardware maintenance

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## CTP : Cost, Time, Productivity benefits

### *Common Network*
- Reduced Infrastructure, Admin, Maintenance, Management, Upgrades
- Reduction in Voice Trunks
- Reduced Cabling
- Increased Network Resilience
- Near-Zero-Cost Moves/Adds/Changes
- IP-Phone can behave as PC substitute

### *Reduced Communication Costs*
- Reduced PSTN costs via IP Toll Bypass
- Reduced PSTN costs for Home/Remote Workers
- Reduced PSTN costs via Web-Based Audio/Video Conferencing
- Reduced voice mail access costs via Unified Messaging
- Reduced PSTN costs via Personal Assistant
- Reduced Mobile Roaming Costs via Extension Portability and Softphone

### *Improved Employee Productivity*
- End-Users via Converged Applications:
  - IP Contact Centre
  - Voice Recording
  - Unified Messaging
  - Personal Assistant
  - Micro-Web-Brower of IP Phone
  - CTI Apps: Screen Dial, Screen Pop, etc.
  - Web-Based Audio/Video Conferencing
- IT Operations Staff/Network Management
- Facilities Management Staff

### *Non-Quantifiable Benefits*
- Increased Customer Satisfaction
- Increased Employee Retention
- Increased Mobility (Extension Portability)
- Increased Mobility (Wireless Extensions)
- Increased Geographic Flexibility
- Improved Competitive Positioning
- Faster Application Deployment
- Increased Resilience


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Thank you


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