

SIP Trunking Workshop

SIPconnect - Lessons Learned Marc Robins President and Managing Director, SIP Forum

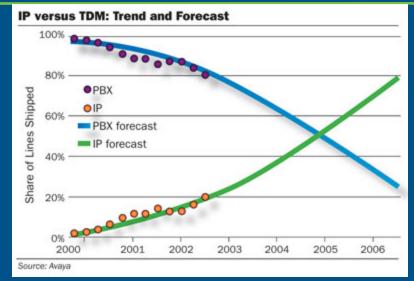


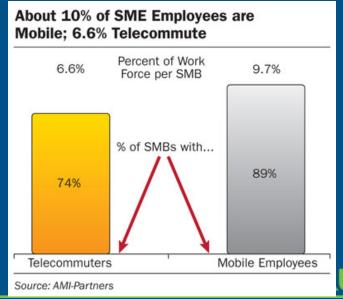


Economic Reality – an all IP world

- Over 70% of all PBX's sold are now IP enabled, typically SIP based.
- By 2010 50% of the installed base of Enterprise PBX systems will be VoIP.

Telecommuters use VoIP to connect with the office.



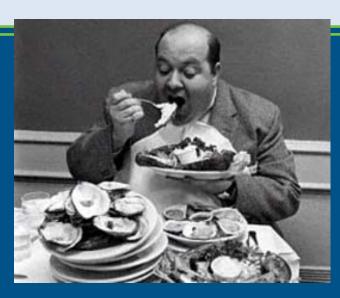


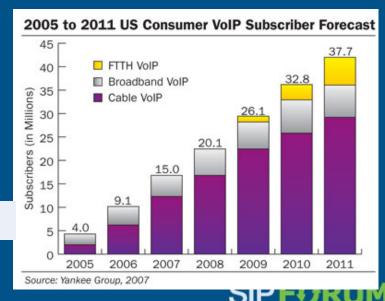


Economic Reality of Telecom

- Fixed Rate services are dominating telecommunications.
 - Triple Play from CableOperators –
- All you can eat Fixed rate mobility services
 - Buckets of Mobile Minutes
 - > \$99.00 voice text web
- Variable Costs for Operators have become unacceptable.
 - > SS7 dips, for instance

Sell your used Class 5 Switch on EBAY !!!







The Evolution of Enterprise VoIP

First: Replace the RJ-11

- Immediate gains in CAPEX as single wiring harness simplifies campus management.
- Greenfield ROI NO Brainer
- Second : Replace the TIE Lines
 - Integrate Enterprise wide Dial Plan Management into single IP Network. Immediate OPEX gains.
- Third: Replace the PRI (Today) SIPconnect
 - > All IP E2E
- Fourth: Peer with Business Partners
 - The 40-40-20 rule
- Fifth: Seamless Campus/Mobility Integration
 - Its not fixed Mobile Convergence its Substitution





The PSTN PRI's are the Bottle Neck to new Enterprise Communications services



- The PSTN is used as the inter-VOIP "default" network
 - Service is degraded as it must transverse multiple networks
- Every VOIP network is an Island (apologies to John Donne!)
- PSTN Primary Rate Interfaces are the last bottleneck.



The Lessons Learned

- Where did this information come from?
 - Informal survey of SIPconnect service providers and vendors
- Is this the end?
 - > No.
 - SIPconnect 1.1 further refines best practices
- "A rising tide lifts all ships"



SIPconnect in an Interoperability Program

- The Goal: Make SIP Trunk testing and deployment <u>easier</u> than a PRI
 - Significant reduction time to market
 - Concept branding
- N Paired Service Provider and Vendor interoperability testing inefficient
 - In-house Requires personnel timeline management
 - Equipment/Software vendor Dependent on multiple vendor timetables, and less control
 - > 3rd party test houses Dollar resources





General Guidelines from Service Providers

- Document the installation process
 - Incorporate guides from your vendors and partners
 - Develop own documentation
 - Simple site surveys
- Promote a common standard
 SIPconnect



- Push vendor partners to become SIPconnect compliant
 - Reduced configuration permutations saves "months" of test time





From the IP PBX Vendors

- SIPconnect compliant
 - SIPconnect becomes a "brand"
 - Branding promotes consumer confidence
- Promote the program with service providers
 - Faster interop testing saves resources aka (money) for both parties
- Implement the DIGEST authentication method
 - > TLS is required by SIPconnect
 - Watch for updates from SIPconnect 1.1





Fax and Modem Deployments

- Fax and Modem traffic is not going away
 - > Fax is actually going up.
- SP's need to explicitly test fax and modem deployments
- Consider deploying a separate DS0 interface
- SIP Forum has formed task groups to address issues



NAT & Firewall Issues for the Service Provider

- Document what you support (again...)
- Training
 - Customer facing organizations need to know what to expect
 - > Train your channels
 - Proper configurations and deployment
 - > Troubleshooting tips and best practices
- Potential issues in the deployment
 - Deploy a SIP-aware firewall
 - Provide configuration guidelines if the end user already has a firewall – One click configuration options.





Now to the Economics

- Cost Savings are real :
 - Network gateway costs reduced/eliminated
 - > "Reduced reliance on premises gateways can save 40-60%"
 - > Be sure you can support the services
 - > Internal Enterprise or Carrier support costs will kill margins
- Additional Revenue Opportunities
 - Provide DN/DID services to smaller companies
 - > Centralized management
 - > Deliver services to individual end users
- Reduce Churn with services that complement the PBX
 - Provide Stickiness
 - Integrate voice as an application, among others



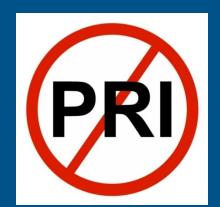


Conclusions

- * It works ...
- It delivers the ROI it promises
- SIPconnect 1.1 in progress
 - http://www.sipforum.org/sipconnect



- Still "Voice Centric"
- > Strengthen MUST vs SHOULD implement
- Call Transfer expansion.
- Implicit vs Explicit Register issues
- > UM issues for 2.0





Join the SIP Forum! -- Get Involved!

- Visit the SIP Forum Website: www.sipforum.org
 - Register for participant membership it's FREE!
 - > Join the discussion list
 - Learn about SIP Forum events and initiatives
- Attend a SIPit interoperability event: www.sipit.net
- Get Serious -- Participate in a Forum Task Group!
- Join the IP Communications Industry Thought Leadership!

