

InterteX SIP Trunking Workshop for Service Providers February 1, 2011

The Ingate SIP Trunking and Unified Communications Summit

Welcome



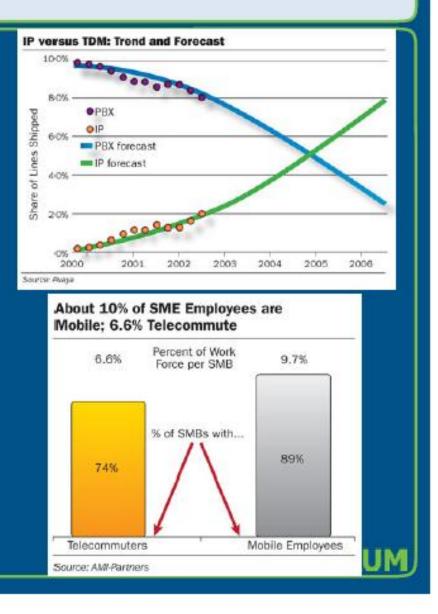
Why are we Here?

- Education
- Knowledge
- Sharing
- Solutions
- Networking

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.



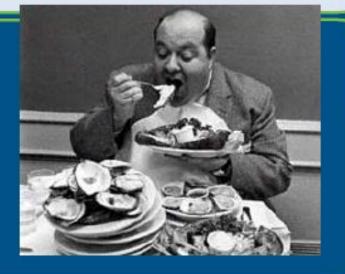
SIP connect

Economic Reality of Telecom

- Fixed Rate services are dominating telecommunications.
 - Triple Play from Cable Operators –
- 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

SIP connect

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

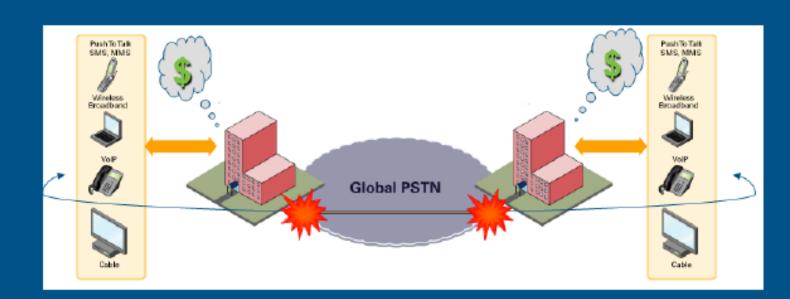
Second : Replace the TIE Lines

- 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.





Cost Savings and New Features for Business Customers

- Eliminates TDM gateways and increases efficiency of local access facilities
- Provides DID capabilities w/o requiring the recurring expense of analog lines or expensive digital circuits
- Improves voice quality by removing gateway latency and includes the attentive management of QoS, echo cancellation as well as fax and modem support
- Creates the right foundation for personalized applications and rich media services between customers and service providers as well as between customers and other IP-connected PBXs



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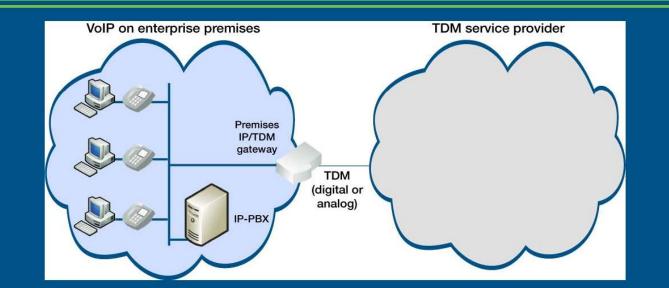
- Problem: IP-PBXs have successfully cut costs and delivered new features to customers, BUT...TDM Routing of VoIP Traffic is a Limited Approach to Achieving Next Generation Telephony
- Opportunity: Preserving and Extending Next-Generation IP Communications Capabilities Beyond the Enterprise
- Solution: Direct IP Peering, or Creating a Seamless, End-to-End Connection between SIPenabled IP-PBXs and SIP-enabled VoIP Service Provider Networks



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The Old Way



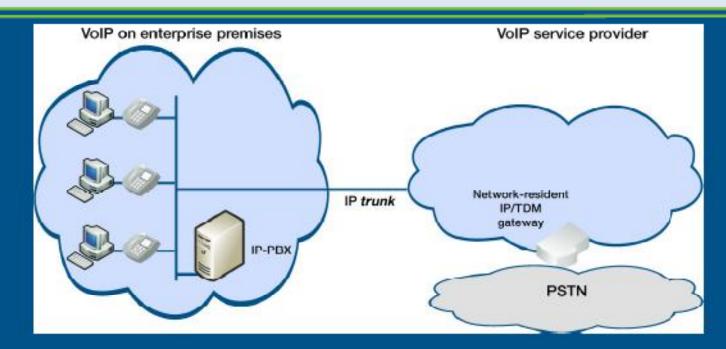
- Enterprises must use a gateway to connect IP PBXs to PSTN
 - > Increases investment required to move to VoIP, reduces ROI
- Limits ability to leverage VoIP's advantages
 - > Adapting to the PSTN means least common denominator functionality
 - > Enterprises cannot fully leverage low-cost VoIP termination providers



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The New Way



 Connecting IP PBXs directly to VoIP service providers provides significant advantages

More features, less cost

But, how to do it?

SIP^connect

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SIPFORUM



SIPFORUM SIPNOC – SIP Network Operators Conference

2011

New two-day educational conference for service providers, organized by the SIP Forum, to focus on "making SIP work in the network" and address the key operational issues facing the deployment of SIP in today's wireline and wireless networks



SIPNOC Topics

- Application development
- Testing
- SIP Trunking
- FoIP
- User-Agent Configuration
- Emergency Services
- Policy Servers
- Security
- Operational Issues
- Call Routing and Peering
- Troubleshooting and Monitoring
- SIP Interconnection (SIP-to-SS7 signaling gateways)
- HD-Voice/Video Deployment Challenges



The SIP Network Operators Conference Herndon, Virginia | April 25-27, 2011 | LEARN MORE Presented by SIPFORUM

- April 25-27, 2011 at Hyatt Dulles Hotel, Herndon, VA
- Developed for the technical and operational staff of service providers, including engineers.
- Features special keynote from Dr. Douglas Sicker, Chief Technologist, FCC
- Dr. Eric Burger serving as Program Chair
- Early-Bird Discount and Special 50% Discount for SIP Forum Full Members (min 2 registrants from Full Member company)





- Event Website:
 http://www.sin
- http://www.sipnoc.org
 Register at:
 http://www.rogonline.com/sinno

http://www.regonline.com/sipnoc_2011

• Hotel Reservations:

https://resweb.passkey.com/go/SIPNOC 2011



Benefits of SIP Trunking

- Monthly cost savings
- Single network for all communications
- Lower cost of Moves, Adds and Changes
- Disaster Recovery / Business Continuity
- User provisioning



But Let's consider this as well:

- Steps of going beyond POTS replacement

 Unified Communication
 - Mobility Remote workers
 - Multimedia Video, better Voice, IM,

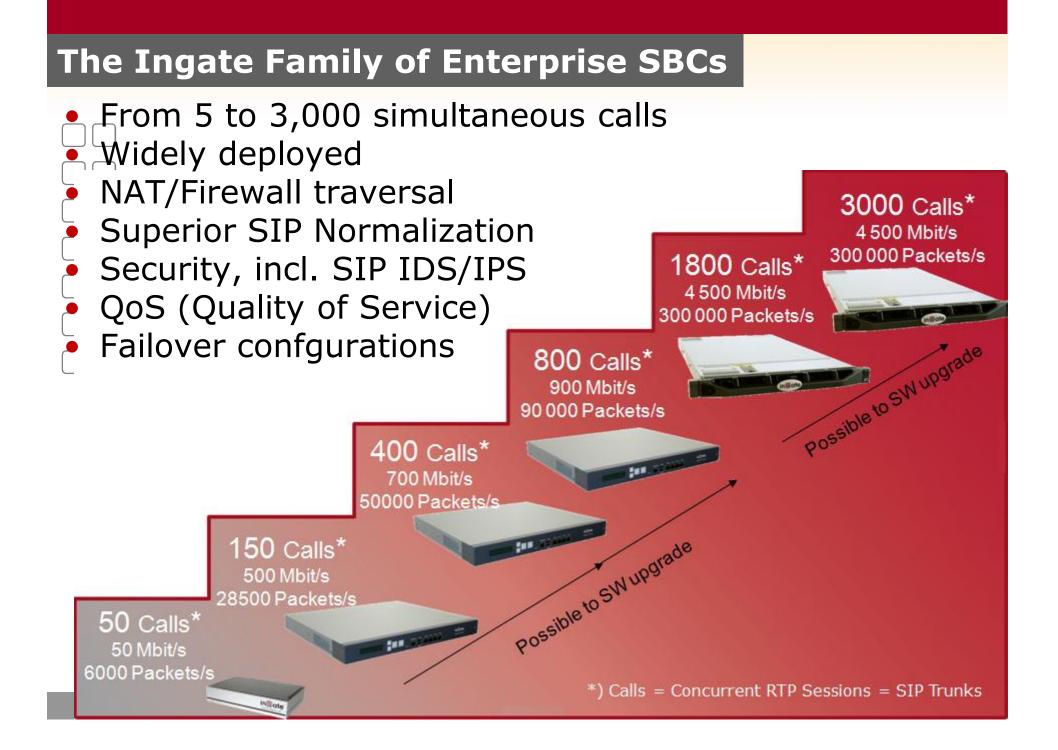
Presence, Real Time Text RFC 4103, etc.

- Real SIP address like email address
- WiFi mobile phone communication



Intertex & Ingate

- Same parent company
- Intertex for service provider volume deployments
 - Session Border Controllers for SMB and home offices
- Ingate for enterprise and project installations
 - The Ingate Firewall and SIParator® product lines
- Cooperation in management and development
- Co-developed SIP code
- Ingate represents Intertex in the US





The Intertex IX78 E-SBC

- ADSL2+ modem with Annex A/B/M (24 Mbps DS, 3 Mbps US), or
- Ethernet WAN (VLAN capable)
- Triple play and various routing configuration possibilities
- Router with any port, any service capability and 4-5 port Ethernet Swi
- Wireless 802.11b/g as Access Point (3 SSID for separate WLANs)
-) Business Firewall
- Advanced QoS for voice, IP-TV etc.
- VPN (IPsec with certificate handling)
- TR-069 and proprietary flexible provision system

and in addition to VoIP things like

- > 2 FXS ports for analog telephones and FAX with T.38 support
- FXO port: Real SIP/PSTN gateway + Fallback on WAN loss

there are outstanding features enabling new applications and services

- Unique support for standard SIP phones and soft clients on the LAN and WLAN
- SIP Trunking of PBXs unequalled interoperability list
- SIP Proxy, Registrar and PBX-like functionality
 - and more...

Now it is about SIP Trunking Services from a Service Provider perspective



	_		MODERATOR	ORGANIZATION	SPEAKER
	<u>1:00pm</u>	The Case for SIP Trunking	STEVEN JOHNSON	Ingate	STEVEN JOHNSON
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\square	<u>1:30pm</u>	Delivering SIP to the Enterprise	JOEL MALOFF		
\bigcup				Broadvox	CHAD KRANTZ
\square				Intertex	KARL STAHL
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		The Value of a Service Provider Demarcation			
	<u>2:30pm</u>	<u>Point</u>	JOEL MALOFF		
				EarthLink Business	SCOTT YELTON
				Intertex	KARL STAHL
	<u>3:30pm</u>	Ensuring Interoperability The Key to			
		Service Revenue Growth	JOEL MALOFF		
				Bandwidth	
				.com	SEAN RIVERS
				Intertex	KARL STAHL
	<u>3:50pm</u>	BREAK			
	<u> </u>				
	4:30pm	Addressing Security Issues	JOEL MALOFF		
				Ingate	SCOTT BEER
				Intertex	KARL STAHL
		Generating Revenue from HD Video			
	<u>5:30pm</u>	Cenerating Revenue from the video	JOEL MALOFF		
	<u>- 100pm</u>			UCIF	STEFAN KARAPETKOV
				Intertex	KARL STAHL
	<u>6:30pm</u>	Wine Reception			
	<u>0.30pm</u>	whie Reception			



Who is here?

Audience – Show of Hands 😊

- Service Provider or Operator?
 - ITSP?
 - Telco (having their own delivery network)?
- VAR or Retailer?
- User?
- How many are familiar with SIP?
- How many of you are familiar with our products?
 - Ingate?
 - Intertex?

PLEASE FEEL FREE TO ASK QUESTIONS!