



**Welcome to the
Inaugural SIP Network
Operators Conference!**

SIP Forum Overview and Review of Technical Activities

Richard Shockey
SIP Forum Chairman of the Board
and Chair Technical Working Group

Marc Robins
SIP Forum President and Managing Director

SIP Forum Background

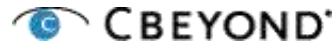
- ❖ Founded in 2000 in Sweden
- ❖ Non-Profit IP Communications Industry Association
- ❖ Membership ranks include:
 - Corporate “Full Members” that pay annual dues and support the work of the Forum
 - Academic Institutions and Research Orgs
 - Individual “Participant” Members (@10,000)

SIP Forum Board of Directors

- ❖ Richard Shockey, Chairman of the Board
- ❖ Mary Barnes, Polycom
- ❖ Dr. Eric Burger, Chairman Emeritus
- ❖ Chris Gatch, Cbeyond
- ❖ Steve Johnson, Ingate Systems
- ❖ Dr. Alan Johnston, Avaya
- ❖ Hadriel Kaplan, Acme Packet
- ❖ Marc Robins, Managing Director
- ❖ Glenn Russell, CableLabs

SIPFORUM Full Member Companies

(as of 4-25-2011)



SIP Forum Academic/Institutional Members

Columbia University:



The Fu Foundation
School of Engineering & Applied Science



Fraunhofer
Institute for Open
Communication Systems



TEXAS A&M
UNIVERSITY



University of Glamorgan

because great minds don't think alike



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Current Focus

- ❖ We won. POTS is toast.
- ❖ Now it all has to work!
“Interoperability” -- among end-point devices, enterprise IP-PBXs, and SIP-enabled Service Provider Networks – for all types of applications and services.

Current SIP Forum Activities

- ❖ Advances product/service interoperability
 - SIPit interoperability test events
 - Defines and create compliance tests
- ❖ Addresses key issues thorough Technical Working Groups modeled after IETF procedures
- ❖ Develops industry-wide technical recommendations and best-practice implementation guides (i.e., SIPconnect)

Current SIP Forum Activities, con't

- ❖ Creates educational content
 - White papers, Informational RFCs and other documentation
- ❖ Builds awareness about SIP and IP Communications Technology
 - Educational seminars and other events
 - Articles and other editorial in industry trade magazines and journals
- ❖ Maintains growing community of IP Communications industry professionals

- ❖ Week-long engineering test events
 - Held twice a year
 - Moves around the globe
- ❖ Averages around 100 implementations
 - 60 to 90 companies
 - 16 to 20 countries
- ❖ Issues are corrected in real-time
 - Allows immediate retesting
- ❖ Very high-yield testing
 - Participants claim 4 to 6 months of results from the week at SIPit compared to what they would achieve testing separately

Goal: Find and Fix What Doesn't Work

❖ The Standards Improve

- If two teams have to argue about the specification, the specification needs to be corrected
- Testing identifies errors and omissions in the Standards
- Reports from the SIPit allow the IETF to remain focused on real industry needs

Past Events

SIPit 1 (April 1999) - SIPit 28 (April 2011)

Prior Hosts



The SIPNOC Way

- ❖ Content Rules, Not Titles (or Bios)
- ❖ No Media Policy
- ❖ Technical talk, not marketing speak
- ❖ The Community drives the conversation
- ❖ Shared pain – shared solutions
- ❖ Effective collaboration grows the entire industry

The SIPNOC 2011 Community

- ❖ A1 Telekom Austria
- ❖ Acme Packet
- ❖ ADP
- ❖ Airespring
- ❖ Ankom Technologies
- ❖ AT&T Labs
- ❖ AT&T Services
- ❖ Audiocodes
- ❖ Avaya
- ❖ babyTEL
- ❖ Bandwidth.com
- ❖ Bell Canada
- ❖ Bright House Networks
- ❖ Broadsoft
- ❖ CableLabs
- ❖ Cablevision
- ❖ Cbeyond
- ❖ Cincinnati Bell
- ❖ Cisco Systems
- ❖ Comcast
- ❖ Commetrex
- ❖ Cox Communications
- ❖ Dialogic
- ❖ ECG
- ❖ Empirix
- ❖ Ericsson
- ❖ EXFO
- ❖ Faxcore
- ❖ GENBAND
- ❖ Global Crossing
- ❖ Grandstream Networks
- ❖ iBasis
- ❖ Icewarp
- ❖ IIT
- ❖ InComm
- ❖ Ingate Systems
- ❖ Intelliverse
- ❖ Intertex
- ❖ IPTEGO
- ❖ MITRE
- ❖ NET
- ❖ NGN Data Services
- ❖ NTELOS
- ❖ NTT
- ❖ OpenText
- ❖ Orange France Telecom
- ❖ PCCW Global
- ❖ Phonebooth.com

SIPNOC 2011 Community, con't

- ❖ Polycom
- ❖ Progressive Insurance
- ❖ RecordMyCalls
- ❖ Rogers Business Solutions
- ❖ Sagemcom Canada
- ❖ Sipera
- ❖ Snom
- ❖ Sonus Networks
- ❖ Sorenson Communications
- ❖ Sprint
- ❖ Swisscom
- ❖ Tata Communications
- ❖ TDS Telecom
- ❖ Tekelec
- ❖ Tekronix Communications
- ❖ Telefonica
- ❖ Telmex USA
- ❖ Telovations
- ❖ TELUS Communications
- ❖ Teraquant
- ❖ Time Warner Cable
- ❖ Uni-Tel
- ❖ Verizon Labs
- ❖ Verizon Technology
- ❖ Vocalocity
- ❖ Vodafone
- ❖ Voxbone
- ❖ Voxeo
- ❖ Wave Broadband
- ❖ WCS
- ❖ XO Communications

SIPNOC Program Committee

- ❖ Eric Burger, Program Chair
- ❖ Hadriel Kaplan
- ❖ Jiri Kuthan
- ❖ Marc Robins
- ❖ Richard Shockey

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SIP Forum Technical Task Groups

- ❖ SIPconnect
- ❖ Fax over IP
 - Partnership with i3 Forum
 - Ongoing testing and reporting
- ❖ Client User Interface
 - RFC 6011
 - Ongoing Next Steps: Define Configuration Profile (XML data file)

SIPconnect

- ❖ The **SIPconnect Technical Recommendation** is a consensus-driven, vendor and service provider agnostic, standards-based “Best-Practices” specification that provides detailed rules and guidelines for achieving direct IP peering and interoperability (SIP Trunking) between IP PBXs and VoIP service provider networks.

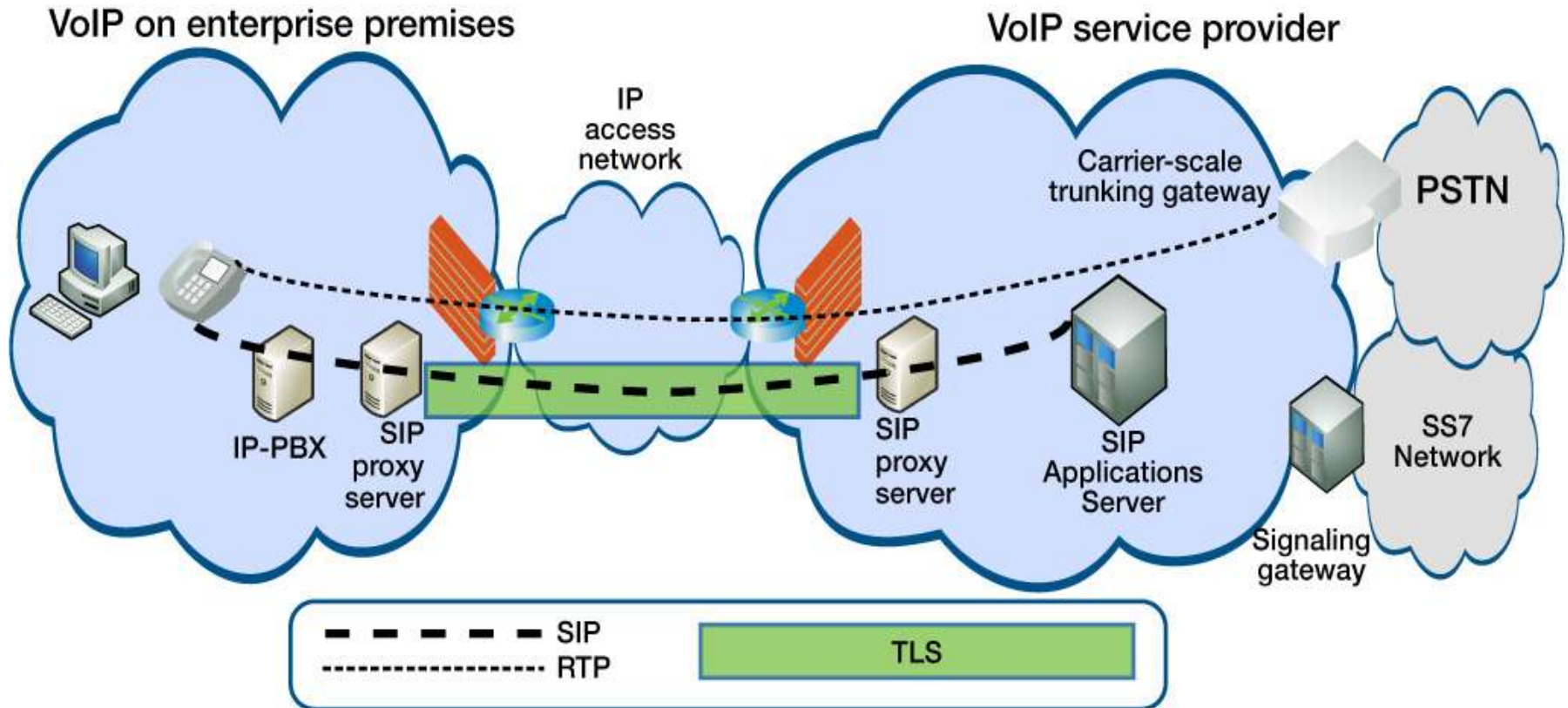
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SIPconnect Reference Architecture



The SIPconnect Compliant Program

- ❖ The **SIPconnect 1.0 Compliant Certification Program** allows eligible companies to license the use of the SIP Forum's 'SIPconnect Compliant' certification mark -- the official brand of the leading standard for SIP Trunking products and services.



Current SIPconnect Initiatives

- ❖ SIPconnect 1.1 for PBX to SSP interoperability is finished and incorporates various improvements
 - Standards-based support for both Classic and Bulk Registration REGISTER modes of operation
 - RFC 6140 --Thank you Bernard Aboba, Spencer Dawkins, Adam Roach and the entire DRINKS WG team. The DISPATCH process actually works!
- ❖ Description of SIP Endpoint functionality required for inter-working, with detailed discussion of various error conditions and appropriate responses to those errors
- ❖ Focus on E.164-based SIP AoRs - the common case for deployments

Current SIPconnect Initiatives, Con't

- ❖ Additional voice services (Call Forward, Call Transfer, etc. using SIP techniques with the widest deployment, with simplified call flows
- ❖ A detailed description of TLS usage
- ❖ A roadmap on what implementers can expect in subsequent SIP connect revisions (IPv6, Emergency Services, etc.)

Additional SIP Forum Technical Activities

- ❖ Work on Fax and SIP integration continuing with a major testing program underway in partnership with the i3forum of International Wholesale Carriers that will be incorporated into an eventual IETF Informational RFC
- ❖ The SIP Forum has offered to take over any issues related to SPEERMINT documents
- ❖ Ongoing cooperation with Unified Communications Interoperability Forum (UCIF) and International Multimedia Teleconferencing Consortium (IMTC) on issues related to Video Calling
 - Ongoing discussions on a Workshop to identify issues related to Interoperability.

Join the SIP Forum! -- Get Involved!

- ❖ Visit the SIP Forum Website: www.sipforum.org
 - Register for participant membership – it's FREE!
 - Learn about SIP Forum events and initiatives
- ❖ Attend a SIPit interoperability event: www.sipit.net
 - SIPit 29 will be hosted by ETSI in October 2011 in France
- ❖ Get Serious -- Participate in a Forum Task Group!
- ❖ Join the IP Communications Industry Thought Leadership!

SIPNOC Housekeeping Notes

- ❖ Continuous Refreshment Breaks (Just help yourself)
- ❖ BOF Meetings Update:
 - FoIP: Mike Coffee, Discussion Leader. Luray D – 3:00pm-3:45pm
 - IPv6: Dan York, Discussion Leader. Luray A-C (note room change) – 3:00pm-3:45
 - Wireshark Tips and Tricks: Dave Hiers, Discussion Leader. Luray A-C (note room change) – 5:45pm-6:30pm

SIPNOC Housekeeping Notes, con't

- ❖ More rooms available for add'l BOF meetings (see me at lunch to request room assignments)
- ❖ Some additional proposals:
 - Ashish Jain, GENBAND: Enterprise Centralized SIP Trunking
 - Mark Lindsey, ECG: Quality Calling via the Internet, and SIP Peering/Trunking Beyond the Source IP address