

SIPconnect 1.1 – Proposal for “SIPconnect-IT” Event

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Proposal

- ❖ SIP Forum launches SIPconnect-IT event series
 - CableLabs offering to host first event in Louisville, CO
 - Planning Workshop in Winter 2011/2012, Testing event in early-mid 2012
- ❖ First of series of SIPconnect 1.1 events
 - Subsequent events at University of New Hampshire IOL
- ❖ Focus on SIPconnect 1.1 Technical Recommendation

Benefits to Industry

- ❖ Demonstrate that SIPconnect 1.1 is implementable
- ❖ Accelerate vendor and service provider interoperability
- ❖ Important first step towards establishment of an updated compliance program
- ❖ Valuable PR for SIP Forum and participants

CableLabs Can Provide

- ❖ Facilities, testing infrastructure, lab resources
- ❖ SIPconnect 1.1 Open Source PBX (Asterisk)
- ❖ Event Management
- ❖ SIPconnect 1.1 expertise
- ❖ Test Plans and Tools

SIP Forum Contributions

- ❖ Broad vendor support and industry commitment
 - Equipment (PBXs, Gateways, testing infrastructure)
 - Test Tools
- ❖ SIP testing expertise and process
 - “SIPit”
 - University of New Hampshire Labs
- ❖ Testing Equipment and Infrastructure
- ❖ PR
- ❖ Funding as necessary
- ❖ Results Summary

Participant Contributions

- ❖ Products based on SIPconnect 1.1
- ❖ Test Plans, Test tools
- ❖ Equipment
- ❖ Input back to SIPconnect 1.1 Technical Working Group

Next Steps

- ❖ Full Membership Feedback and Approval
- ❖ Commitment of key SIPconnect supporting companies
 - Service Provider
 - Equipment Manufacturers
 - Labs (UNH)
- ❖ Establish Committee to Plan and Scope
 - Logistics
 - Technical Scope
 - Schedule
 - Budget/Funding
- ❖ Announce to Membership

CableLabs Infrastructure: Functional Areas of the Lab

- ❖ Perform certification evaluation
- ❖ Evaluate and test products, services
- ❖ Host interoperability events
- ❖ Provide development facilities



CableLabs Laboratory Capabilities

- Laboratory Infrastructure
 - 14,000 sq. foot laboratory facility
 - 183 test benches, 175 racks of equipment
- 10+ Years of Certification
 - 1300+ Devices certified across two-dozen product lines
- Capacity to host 20+ testing and interoperability events per year



Some Companies Whose Products are CableLabs Certified

Panasonic


ARRIS

D-Link®

tollgrade

SMC
Networks


MOTOROLA




CISCO

ubee™ 

Pace

ERICSSON 
TAKING YOU FORWARD

**INNO
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SAMSUNG

NETGEAR®
Everybody's connecting.®

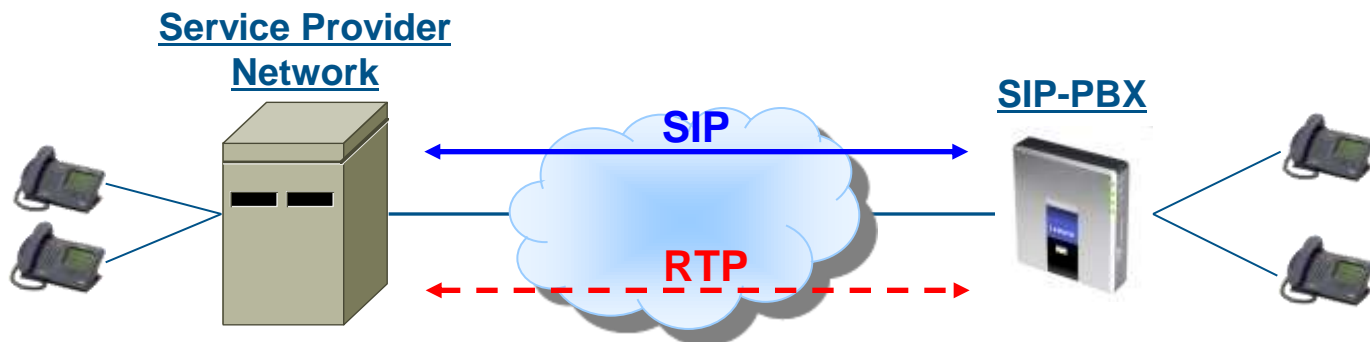
Typical CableLabs Interop Event



SIPconnect 1.1 Test Plan

❖ Test Plan verifies call features described in SIPconnect 1.1

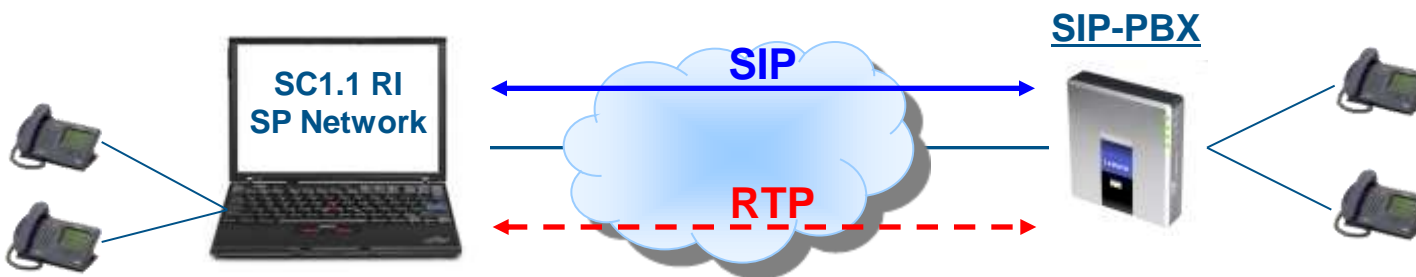
- Tester manually executes tests on platform shown below
- Test failures would highlight interworking issues between PBX and SP network
- Tester reviews Wireshark traces for compliance with SIPconnect 1.1



SIPconnect 1.1 Reference Implementation

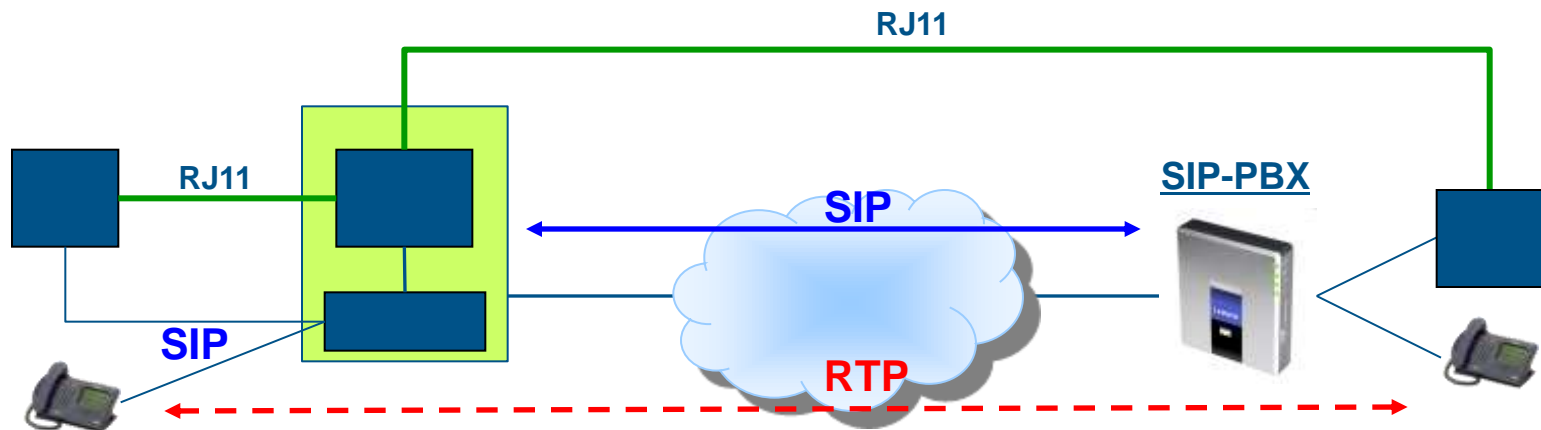
❖ RI provides SC1.1-compliant SIP-PBX and SP network

- Can be used in conjunction with SIPconnect 1.1 Test Plan to verify SIP-PBX or SP network compliance with SIPconnect 1.1
- Tester manually executes tests on platform shown below
- Test failures highlight SIP-PBX non-compliance issues with SIPconnect 1.1



PCSim² SIP Test Platform

- ❖ PCSim² is a programmable SIP test platform
 - Can emulate any SIP interface using XML scripting language
 - Can drive two analog line ports via Voice-Tronics card
 - CableLabs is developed scripts to automatically validate SIP-PBX compliance with SIPconnect 1.1



SIPconnect 1.1 Test Coverage

- SIPconnect1 .1 Test Plan, RI, and PCSim2 scripts validate the following SIPconnect1.1 functionality

❖ Call Processing

- Basic DID/DOD call
- Caller-ID delivery
- Privacy
- Early-media
- Call Forwarding
- Call Hold/Transfer

❖ Miscellaneous

- SIP Digest Authentication
- "GIN" Registration (RFC6140)