SIP FORUM

SIP Forum 2016 Annual General Meeting

Richard Shockey, Chairman and AGM Chair
Marc Robins, President and Managing Director
Fiscal 2016

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2016 Annual General Meeting Agenda

- ❖ Official business
  - ➢ Meeting operation setup
  - ➢ Financial review
  - ➢ Voting
  - ➢ Confirmation of Meeting Minutes
- ❖ Adjourn Formal Portion of Meeting
- ❖ Unofficial business
  - ➢ Review of 2016 Activities
  - ➢ A look forward for 2017
- ❖ The Board did not receive any reports of other issues to discuss from any Member

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Meeting Setup and Housekeeping

- ❖ Election of Meeting Chair
- ❖ Call Meeting to Order
- ❖ Minutes Taker: Marc Robins
- ❖ Minutes Checkers: Chris Wendt and Mary Barnes
- ❖ Proper notification of AGM
  - ➢ At least four weeks before AGM (02 November, 2016)
  - ➢ Official Notice made 01 November, 2016 to all Full Member representatives – Move for approval
- ❖ 2016fy Financial Review

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Financial discussion: 7/2015- 6/2016

SIP Forum Consolidated Financial Results

	06/30/16	06/30/15
Profit / loss		
Operating income	$ 287,582	$ 290,497
Operating expenses	$ (318,771)	$ (346,063)
Operating profit/(loss)	$ (31,189)	$ (55,566)
Interest income	$ -	$ -
Net profit/(loss)	$ (31,189)	$ (55,566)

	06/30/16	06/30/15
Balance Sheet		
Assets	$ 300,392	$ 328,992
Liabilities	$ 211,860	$ 209,270
Members equity	$ 88,532	$ 119,722
Total Liab & Mem Eq	$ 300,392	$ 328,992
Cash	$ 222,076	$ 275,241

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2016 AGM Voting and Election Agenda

- ❖ Establishing and Approval of the Voting List

- ❖ Voting Preliminaries

- ❖ List of Candidates for Open Director Seats

- ❖ Review of Voting Issues

- ❖ Running of Election

- ❖ Vote Results

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Establishing and Approval of the Voting List

* Bandwidth.com
* Bell Canada
* Cisco Systems
* Comcast
* Cox Communications

* Deutsche Telekom
* Edgewater Networks
* Ericsson
* Huawei
* Oracle

* Sonus Networks
* Sorenson Communications
* Time Warner Cable
* Unify
* UNH-IOL

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Voting Preliminaries

❖ Current active (i.e., paid-up) Full Member count: 15

❖ Bylaws Quorum Requirement:
  ➢ 8 for normal business (>50%)
  ➢ 10 to change bylaws (>75%) -- which has **NOT** been proposed)

❖ 9 Proxies are in hand at beginning of the meeting
  ➢ # Full Members present on WebEx and voting?
  ➢ 9 >8; quorum is declared.

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Director Candidates - 7 for 7 Open Seats

- ❖ Victor Pascual Avila – Oracle
- ❖ Mary Barnes – MLB@Realtime Communications
    - ❖ Current board member standing for re-election
- ❖ Martin Dolly – AT&T
- ❖ Andrew Hutton – Unify
    - ❖ Current board member standing for re-election
- ❖ Robert Kinder – Cox Communications
    - ❖ Current board member standing for re-election
- ❖ Gonzalo Salgueiro – Cisco Systems
    - ❖ Current board member standing for re-election
- ❖ Chris Wendt – Comcast
    - ❖ Current board member standing for re-election

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2016 AGM Voting Issues

❖ **Issue 1: Voting For New Directors**

➢ Maximum of 11 Directors in total, and 4 total Participant Member Directors (not affiliated with a Full Member company) allowed on board per current bylaws.

➢ Since the seats occupied by three participant members (Mary Barnes, Alan Johnston and John Barnhill) are up for election, and the seats held by Richard Shockey and Gary Richenaker are non-participant board member seats, up to two Participant (Individual) Members can be elected in this election.

❖ **Issue 2: Discharge of Director Liability**

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Running of Election, Tabulation of Votes

- ❖ Final Request for Ballots to be Cast
- ❖ Official Voting Deadline Reached
- ❖ Motion to Dispense with the Electronic Calculation of Votes as specified in SIP Forum Bylaws as the election is uncontested (i.e., 7 candidates for 7 available/open seats; and all candidates have received votes)
- ❖ Perform Manual Count of Voting Issue #2

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Time to Run the Election!

❖ Meeting will now pause briefly while the votes for Issue #2 are counted and verified.

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2016 AGM Vote Results

- ❖ 1. Board Seats
  - ➢ Victor Pascual Avila
  - ➢ Mary Barnes
  - ➢ Martin Dolly
  - ➢ Andrew Hutton
  - ➢ Robert Kinder
  - ➢ Gonzalo Salgueiro
  - ➢ Chris Wendt

- ❖ 2. Discharge of Director Liability
  - ➢ 9 Yea, 0 Nay; 0 Abstention; Motion Approved.

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Other Business of the SIP Forum AGM

- ❖ Next SIP Forum Chairman of the Board Election Committee deferred to next Board Meeting

- ❖ Ratify Official SIP Forum 2016 AGM Minutes

- ❖ Move to adjourn formal portion of the Annual General Meeting

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SIP Forum: The Year in Review

Marc Robins

SIP Forum President and Managing Director

Richard Shockey

SIP Forum Chairman and AGM Chair

SIP Forum 2016 AGM

SIP FORUM Full Member Companies

(as of 11-30-2016)

SIP Forum Academic/Institutional Members

Columbia University:

SIP Forum Board of Directors

- ❖ Richard Shockey, Shockey Consulting and SIP Forum Chairman of the Board
- ❖ Victor Pascual Avila -- Oracle
- ❖ Mary Barnes, MLB@Realtime Communications
- ❖ Martin Dolly, AT&T
- ❖ Andrew Hutton, Unify
- ❖ Robert Kinder, Cox Communications
- ❖ Marc Robins, SIP Forum President and Managing Director
- ❖ Gary Richenaker, iconectiv
- ❖ Greg Rogers, Bandwidth.com
- ❖ Gonzalo Salgueiro, Cisco Systems
- ❖ Gernot Scheichl, Edgewater Networks
- ❖ Chris Wendt, Comcast

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Membership Review

❖ Participant (Individual Membership) growing steadily, now over 17K

❖ LinkedIn SIP Forum Group now @4.5K and growing

❖ Full membership still challenging due to industry consolidation/attrition and industry trends

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SIP Forum Current Active Task Groups and Initiatives

- ❖ SIPconnect Task Group
- ❖ SIPconnect Certification Testing [SC-IT] Task Group
- ❖ SIPconnect Certification Testing Program
- ❖ SIP Forum/ATIS NNI Task Force
- ❖ IPv6 Task Group
- ❖ SIPNOC "SIP Network Operator's Conference"
- ❖ SIPit Interop Testing Event

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2016 SIP Forum Milestones

❖ Launched SIPconnect Certification Testing Program, hosted by UNH-IOL

  ➢ http://www.sipforum.org/content/view/435/171/

❖ SIP Forum BoD Just Ratified SIPconnect 2.0 Specification

❖ SIP over IPv6 Task Group Publishes "Interoperability Impacts of IPv6 Interworking with Existing IPv4 SIP Implementations" and the publication of RFC 7984 in the IETF

  ➢ http://www.sipforum.org/content/view/438/171/

❖ SIP Forum/ATIS NNI Task Force Phase 2 work proceeding as scheduled; SHAKEN document near completion

  ➢ http://www.sipforum.org/content/view/439/312/

❖ Held Successful SIPit 32 at UNH-IOL

❖ Held Successful SIPNOC 2016

  ➢ http://www.sipnoc.org

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SIPconnect Task Group

SIPconnect 2.0

Task Group Chair: Spencer Dawkins

Chief Document Editors: **Andrew Hutton, Unify and Gonzalo Salgueiro, Cisco Systems**

- ❖ SIPconnect 2.0 Task Group has published a SIP Forum SIPconnect 2.0 Technical Recommendation that defines a common set of implementation rules for implementers who desire to interface an IP PBX with a SIP-enabled service provider. The recommendation(s) will specify which standards must be supported, provide precise guidance in the areas where the standards leave multiple options, supplement functionality gaps in existing protocols, and identify a baseline set of features that should be common to an IP PBX to service provider interface.

- ❖ International effort included participation from BITKOM and NICC (thanks to Andrew Hutton who is serving as the official SIP Forum representative) and EU-based service providers and equipment vendors.

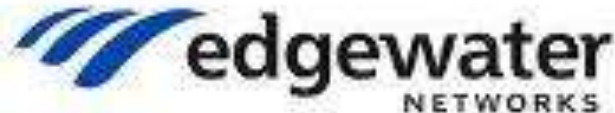**SIP FORUM**

SC-IT Task Group

- ❖ **Chair**: Robert Kinder, Cox Communications
- ❖ **Chief Document Editor**: James Swan, UNH-IOL
- ❖ Focuses on SIPconnect interoperability and certification testing
- ❖ TG Mission includes:
  - ➢ Demonstrate that SIPconnect is implementable
  - ➢ Accelerate vendor and service provider interoperability
  - ➢ Define what it means to be SIPconnect compliant
  - ➢ Help promote the benefit of SIPconnect in the marketplace
- ❖ SC-IT Mailing List:
  - ➢ http://sipforum.org/mailman/listinfo/sipconnectit

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SC-IT Task Group Milestones

❖ Together with UNH-IOL:

  ➢ Developed a SIPconnect 1.1 Certification Test Plan

  ➢ Competed a SIPconnect Certification Test Platform

  ➢ Developed SIPconnect Certification Test Program

  ➢ Officially Launched Program February, 2016

  ➢ BroadSoft and Unify first to certify products; 6 more in the test queue

  ➢ Current Founding Sponsors include:

edgewater NETWORKS   **HUAWEI**

UNIFY

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SIPconnect 1.1 Certification Testing Program Details

- ❖ SIP Trunk Service Provider remote lab testing over the Internet.
- ❖ IP-PBX remote lab testing over the Internet.
  - ✓ Optionally may install equipment at UNH-IOL for on-site testing, too.
- ❖ SBCs can tested as part of a total solution (in association with IP-PBX and/or service provider offering)
- ❖ Founding Sponsor Program: Paid sponsorship to help fund the development and ongoing operation of the Program.
- ❖ Benefits include:
  - ✓ Exclusive $5,000 price for testing with 3-year term including continuous recognition of support.
    - ❖ Standard rate is $7,500 for SIP Forum Full Members for 2-year term.
    - ❖ Non-full member rate is $10,000 for 2-year term.
  - ✓ Priority Scheduling of Tests
  - ✓ Exclusive Promotional Activities
  - ✓ Can be renewed.
  - ➢ Contact Marc Robins at marc.robins@sipforum.org for more information.

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SIP Forum/ATIS NNI Task Force

Co-Chairs: Martin Dolly (AT&T), Chris Wendt (Comcast)

ATIS and the SIP Forum formed the Joint Task Force to fully specify an IP communications network-to-network interface (NNI) between North American service providers. The Joint Task Force will help enable the goal, identified in the United States National Broadband Plan, of ensuring all service interconnection between providers occur at the Internet Protocol (IP) level.

Objectives:

-Identify a baseline set of features that should be common to all IP-NNI implementations for voice service.

-Identify gaps or ambiguities in existing standards and request that those gaps be addressed by the responsible Standards Development Organization [SDO].

For more info: http://www.sipforum.org/content/view/439/312/
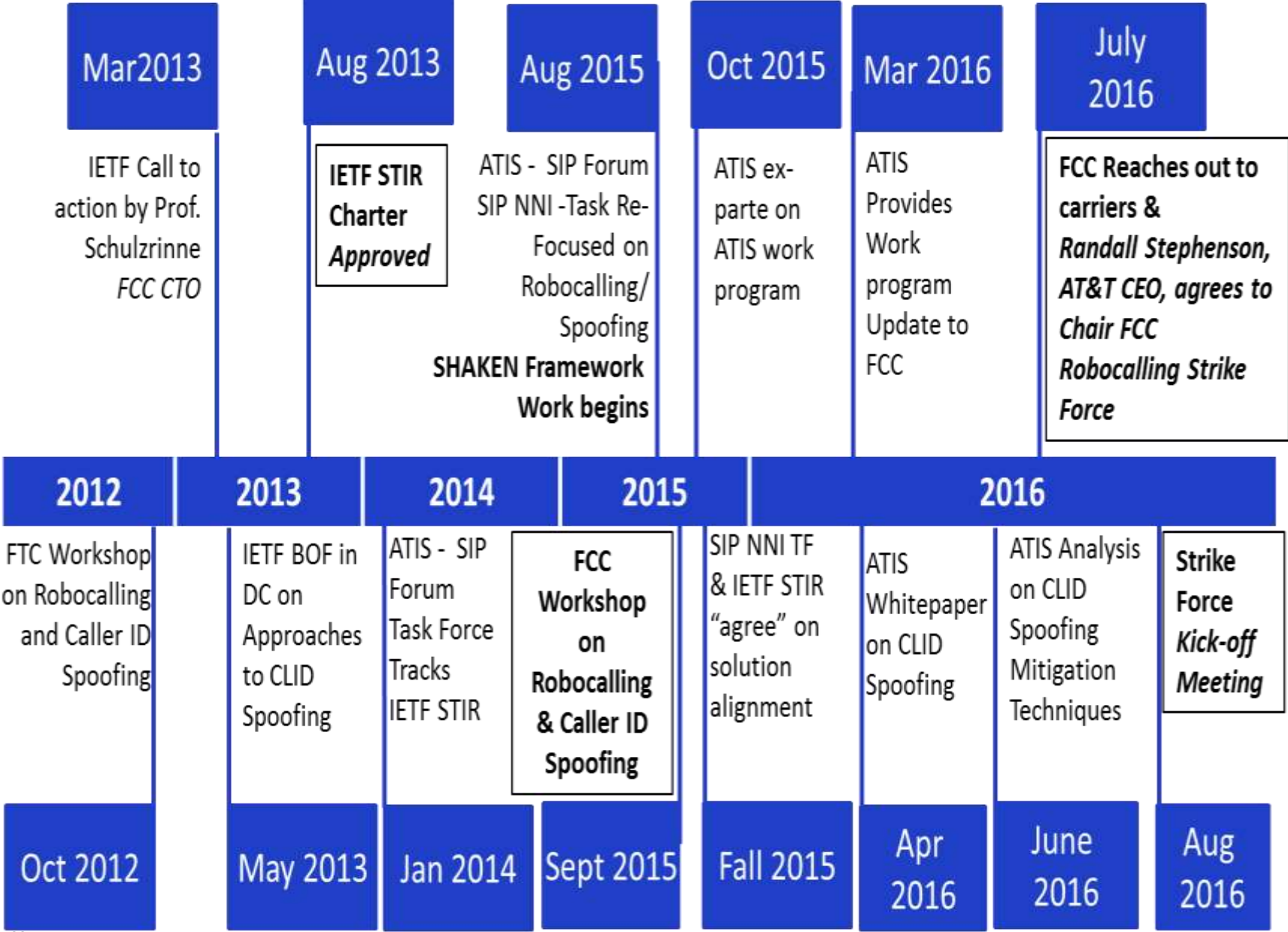
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NNI Task Force Milestones

❖ **1**. **IP NNI Profile,** describes a reference architecture and specifications for both the protocol and media as it appears "on-the-wire" at interconnect points: http://www.sipforum.org/component/option,com_docman/task,doc_download/gid,772/Itemid,261/

❖ **2. IP Interconnection Routing Report,** documents mechanisms for identifying the preferred IP interconnection point for a given phone number. http://www.sipforum.org/component/option,com_docman/task,doc_download/gid,771/emid,261/

❖ **3**. **Signature-based Handling of Asserted information using toKENs (SHAKEN)** is an industry framework for managing the deployment of Secure Telephone Identity (STI) technologies with the purpose of providing end-to-end cryptographic authentication and verification of the telephone identity and other information in an IP-based service provider voice network.

http://www.sipforum.org/component/option,com_docman/task,doc_download/gid,833/Itemid,261/

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NNI TF Phase 2 Work in Progress: STIR & SHAKEN

The IETF STIR (Secure Telephone Identity Revisited) Working Group is developing a mechanism to allow phone numbers to be "signed" at the origin, and "verified" at the termination. ATIS and the SIP Forum have proposed enhancements to make this mechanism practical in the near-term by allowing service providers to perform the "validation" and "verification" on the user's behalf. Approval at the IETF is expected this year, and will set the stage for the following additional steps:

- **SHAKEN**: A United States service provider profile for STIR will provide implementation guidelines and specify options within the protocol to ensure interoperability between all service providers. The ATIS/SIP Forum IP-NNI Task Force will complete this profile framework (SHAKEN). Additional enhancements to the profile will be developed in 2017.

- **Display Framework**: A framework is required to allow for the display of validated Caller ID information to end users in a consistent and secure format. The ATIS/SIP Forum IP-NNI Task Force is developing this framework, with the initial deliverable expected by early 2017.

- **Root Certificate Authority**: the signing and verification of calling party information is based on certificates issued by a recognized certificate authority. ATIS is working with the IP-NNI task force to specify the technical requirements and operational procedures for the SHAKEN Root CA.

- **Testbed**: ATIS is facilitating a testbed activity where they have developed a detailed test plan to validate the SHAKEN framework. This will verify the protocol and ensure interoperability between service providers. The STIR/SHAKEN Testbed is targeted to begin 4Q2016 and continue into 2017 and beyond.

Robocalling/ Spoofing Timeline in the United States

Mar 2013
IETF Call to action by Prof. Schulzrinne *FCC CTO*

Aug 2013
IETF STIR Charter *Approved*

Aug 2015
ATIS - SIP Forum SIP NNI -Task Re-Focused on Robocalling/ Spoofing **SHAKEN Framework Work begins**

Oct 2015
ATIS ex-parte on ATIS work program

Mar 2016
ATIS Provides Work program Update to FCC

July 2016
FCC Reaches out to carriers & *Randall Stephenson, AT&T CEO, agrees to Chair FCC Robocalling Strike Force*

2012	2013	2014	2015	2016

FTC Workshop on Robocalling and Caller ID Spoofing

IETF BOF in DC on Approaches to CLID Spoofing

ATIS - SIP Forum Task Force Tracks IETF STIR

FCC Workshop on Robocalling & Caller ID Spoofing

SIP NNI TF & IETF STIR "agree" on solution alignment

ATIS Whitepaper on CLID Spoofing

ATIS Analysis on CLID Spoofing Mitigation Techniques

Strike Force *Kick-off Meeting*

Oct 2012   **May 2013**   **Jan 2014**   **Sept 2015**   **Fall 2015**   **Apr 2016**   **June 2016**   **Aug 2016**

IPv6 Task Group

❖ **Task Group Co-Chairs:** Gonzalo Salgueiro (Cisco Systems) and Olle Johansson (Edvina)

❖ **Task Group Chief Document Editor:** Carl Klatsky (Comcast)

The SIP Forum's SIP over IPv6 Task Group (IPv6) was formed to address key deployment and interoperability issues in the telecommunications industry's migration to SIP over IPv6. The task group, which includes key stakeholders from the service provider, application developer and equipment communities, has developed and ratified a charter with the mandate to identify issues with SIP over IPv6 and assess the impact of transition technologies and dual stack devices on existing SIP networks.

Link to TG Charter: http://www.sipforum.org/content/view/398/286/

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SIPNOC 2016 – "The SIP Network Operators Conference"

Three-day, technically-focused educational conference for service providers and network operators on how to "Make SIP Work Better in the Network"

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SIPNOC 2016 Details

- ❖ 6th Annual SIPNOC event held June 21-23, 2016 at Hilton Dulles Hotel, Herndon, VA

- ❖ Developed specifically for the technical and operational staff of service providers, including network architects and engineers

- ❖ Educational content focused on addressing key deployment and operational issues involving SIP–based technology and services

- ❖ Included expanded training, including SIP Training Day and WebRTC and IMS Workshops

- ❖ Conference presentations vetted by expert Program Committee to ensure the highest-quality, technically-oriented agenda

- ❖ For more information: **http://www.sipnoc.org**

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SIPNOC 2016 Topics

- ❖ Application Development Recommendations
- ❖ Network and Applications Testing Considerations and Tools
- ❖ SIP Trunking Interoperability Best Practices
- ❖ SIPconnect 2.0 Requirements
- ❖ FoIP/T.38 Interoperability
- ❖ WebRTC Sessions and Demos
- ❖ SIP Network Operations Center (NOC) Best Practices
- ❖ SIP Carrier-to-Carrier Interconnection
- ❖ QoS Maintenance
- ❖ IPv6 Deployment Challenges and Recommendations
- ❖ User-Agent Configuration Standardization Efforts
- ❖ Emergency Services Deployment
- ❖ Standardization Initiatives and the Evolution of SIP
- ❖ Policy Server Considerations
- ❖ Security Deployment Considerations and Best Practices
- ❖ Anatomy of a T-DOS Attack
- ❖ Operational Issues and Solutions
- ❖ SIP-Based Video Relay Service Interoperability
- ❖ Measurement, Monitoring and Troubleshooting
- ❖ HD-Voice and Video Deployment Challenges

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SIP it

❖ **Week-long engineering test events**
  - ➢ Once a year
  - ➢ Rotates around the globe

❖ **Averages around 100 implementations**
  - ➢ 60 to 90 companies
  - ➢ 16 to 20 countries

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Interested in Joining the Groups?

1. Join the SIP Forum as a Participant Member at http://www.sipforum.org/component/option,com_advanced_registration/task,register/

2. Subscribe to the Task Group Mailing Lists to learn about scheduled meetings and get involved in the work and discussions:

Visit the SIP Forum Mailing Group Webpage at:

http://www.sipforum.org/content/view/41/165/

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Plans for 2017

❖ SIPNOC 2017

❖ Proposed Robocall Summit

❖ Complete NNI TF Phase 2 Work:

  ➢ STIR/SHAKEN Framework

  ➢ Call Validation Display

  ➢ Certificate Management (ACME)

❖ Promote SIPconnect 2.0 Specification and SIPconnect Certification Testing Program

❖ SIPit 33 in Q3/Q4

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Thank You for Your Continued Support!

Richard Shockey, richard@shockey.com

Marc Robins, marc.robins@sipforum.org

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Final Adjournment