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President & Chief Executive Officer **Susan M. Miller** ATIS March 13, 2014

Via Email

Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, S.W. Washington, D.C. 20554

Re: Ex Parte, GN Docket No. 13-5, WC Docket No. 12-353

Dear Ms. Dortch:

On March 11, 2014, representatives from the Alliance for Telecommunications Industry Solutions (ATIS) and the SIP Forum met with Priscilla Argeris, Legal Advisor to Commissioner Jessica Rosenworcel.

The purpose of the meeting was to discuss the joint ATIS-SIP Forum work to develop a detailed specification related to IP network-to-network interconnection (NNI). The written presentation discussed during the meeting is attached hereto.

In attendance at this meeting were: Susan Miller, ATIS President and CEO; Richard Shockey, Chairman of the Board of Directors of the SIP Forum; Andrew White, ATIS Vice President of Technology and Standards; and Thomas Goode, ATIS General Counsel.

A copy of this letter is being submitted on the record in the above-referenced dockets. If there are any questions, please contact the undersigned.

Sincerely,

Thomas Goode

ATIS General Counsel

cc: Priscilla Argeris, Legal Advisor to Commissioner Rosenworcel



Enabling the All-IP Transition

March 11, 2014

The IP-NNI Initiative

In December 2013, the Alliance for Telecommunications Industry Solutions (ATIS) and the SIP Forum launched a joint task force to develop detailed specification of IP-NNI (Network-to-Network Interface) for all North American Service Providers.

- ATIS is a global standards development organization that develops technical and operations standards for information, entertainment, and communications technologies.
- ATIS' Packet Technology and Systems Committee (PTSC) develops standards and technical reports related to services, architectures, and signaling, including IP Interconnection.
- The SIP Forum advances the adoption of products and services based on the Session Initiation Protocol (SIP), and maintains and serves a global community of commercial SIP-based service and technology providers.





It started with one service.

Standard User Interface

. Common Platform

=

Global Communications





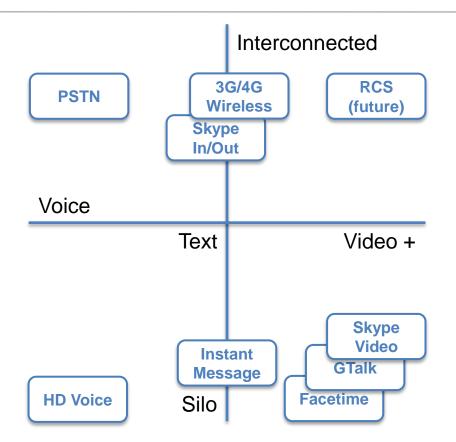


- Uniform addressing plan
- Single, automated user interface
- Attach anywhere, call anybody
- On demand, scalable





Then it got more complicated.



- Available services have evolved from the PSTN.
 - Text, Video, and Multimedia
 - Available in Silos
- Interoperable services are limited to voice and text.
- Technologies such as Rich Communications Services (RCS) promise interoperable evolution.
- Work is required to gain consensus on implementation.
 - Web
 - Wireline
 - Wireless

Business agreement is required on interconnection and interoperability.





ATIS Program for Transition to All-IP

Executive Leadership and Engagement

- ATIS Board of Directors
- Technology and Operations Council

Architecture and Services

- Wireless, Fixed, and Cable Architecture and Interconnection
- Emergency Services including Multimedia and SMS
- Lawful Intercept
- · Communications APIs

Information Infrastructure

- Telephone Numbering Evolution
- SMS/800 Number Administration and Evolution
- Inter-provider Ordering and Billing
- Inventory Management

Operational Excellence

- · Next Generation Interconnection and Interoperability
- Network Reliability in conjunction with FCC Network Outage Reporting System
- Synchronization





SIP Forum Program

Task Force

ATIS/SIP Forum IP-NNI Joint Task Force (100+ current participants)

Task Groups

- Fax-over-IP [FoIP] Task Group
- SIPconnect Task Group
- SIPconnect Interoperability Certification [SC-IT] Task Group
- SIP Over IPv6 [IPv6] Task Group
- User Agent Configuration [UA-Config] Task Group
- Video Relay Services [VRS] Task Group (created specifically at the request of the FCC CTO)
- WebRTC Task Group

Events

- SIPit, SIPconnect-IT and RTCWeb-it Interop Testing Events
- SIPNOC "SIP Network Operator's Conference"





IP-NNI Initiative

- Through this initiative, ATIS and the SIP Forum will jointly develop a detailed specification that promotes communications interoperability and addresses key industry challenges.
 - Accelerate standards-based IP interconnection.
 - IP interconnection is slowed by unique bilateral agreements that lack the efficiencies gained by industry standardization.
 - Address differences in how SIP works "on the wire" that have been exposed by deployment experience.
 - Every instance of IP interconnection is a one-off, requiring a detailed engineering analysis and often involving "protocol normalization" between service providers.
 - Agree to methodology to translate E.164 numbers for SIP routing data.





IP-NNI Initiative

- The initiative will allow the industry to continue to support key principles:
 - Universal connectivity to next generation broadband networks and services;
 - The protection of consumers, including safeguards against fraudulent, deceptive and unfair business practices;
 - Uninterrupted, seamless access to public safety, national security, emergency preparedness/response services;
 - Continued network reliability and robustness; and
 - The facilitation of competition and innovation.







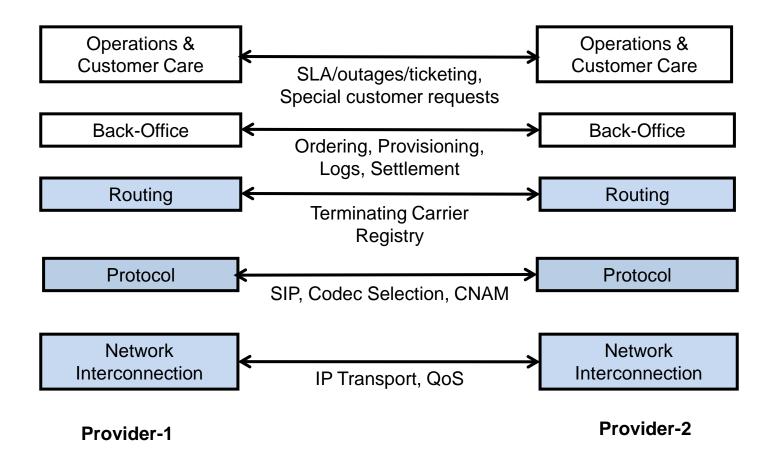
Leaders, Membership and Process

- The initiative is co-lead by:
 - Martin Dolly, AT&T
 - Chris Wendt, Comcast
 - John Barnhill, GENBAND
- The initiative is open to members of ATIS and the SIP Forum.
- There is broad industry participation from wireline providers (LECs, cable and broadband), wireless providers, and vendors.
- Work is being completed through face-to-face and virtual meetings with decisions being made via consensus.





What is Network Interconnection?



The ATIS and SIP Forum collaboration focuses on SIP protocol interoperability.





Scope: Protocol

- Define reference architecture with functional entities necessary for IP-based interconnection.
- Provide exact specification for all protocols at the NNI:
 - SIP options that MUST be supported;
 - SIP options that SHOULD be supported;
 - Limit protocol options where necessary for interoperability; and
 - Provide additional detail to resolve ambiguity.
- Specify methods for negotiating protocols, protocol extensions, and exchanging capability information between carriers.
 - Specify consensus methods of formulating SIP protocol messages where multiple options exist in standards.
- Specify the exact presentations of Fully Qualified Domain Names in "From:", "To:" and "PAI" fields.





Scope: Routing

- Define the architecture for a shared "Thin" Registry(s) of NNI interconnection data.
 - Determine if/how Infrastructure ENUM is used.
- Specify a mechanism for using the shared registry(s) to identify the terminating carrier of record.
- For IP-originated calls, specify the preferred header for Calling Name (CNAM) data, and specify how that data is presented to the terminating proxy (i.e., format, syntax and processing of such data).
 - The expectation is that the signaling of CNAM would not survive interworking to SS7.





Proposed Milestones

Dec 2013: Kick-Off Meeting.

March 2014: Goals and Requirements for NNI

Architecture.

June 2014: Initial Readout on Progress on Routing

Framework and IP Interconnect Protocol.

Feb 2015: Network-to-Network Interface Profile.





Conclusion

- The complex transition to the All-IP Network needs to accelerate.
- Many standards exist, but companies must agree on an interoperable implementation.
- Through this initiative, ATIS and the SIP Forum are developing detailed specifications that define the protocol implementation.
- ATIS and SIP Forum look forward to working with the Commission to facilitate the transition to an All-IP Network.





Questions

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For more information about ATIS, please visit: www.atis.org.
For more information about SIP Forum, please visit: http://www.sipforum.org.







Supplementary Material

SIP Forum Background

- Founded in 2000
- 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 (>15K)

SIPFORUM Full Member Companies

(as of 1-23-2014)





















































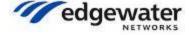














SIP Forum Academic/Institutional Members

Columbia University:





Fraunhofer

Institute for Open Communication Systems















ATIS' INDUSTRY MEMBERSHIP

































































































