ATIS Sync Committee

Lee Cosart, Microsemi Corp.
ATIS SYNC Chair

WSTS 2017

The Alliance for Telecommunication Industry Solutions

- ATIS is accredited by the American National Standards Institute (ANSI). The organization is the North American Organizational Partner for the 3rd Generation Partnership Project (3GPP), a founding Partner of the oneM2M global initiative, a member of and major U.S. contributor to the International Telecommunication Union (ITU), as well as a member of the Inter-American Telecommunication Commission (CITEL).

- ATIS SYNC develops and recommends standards and solutions related to telecommunications network technology pertaining to network synchronization. SYNC focuses on those functions and characteristics necessary to define and establish synchronization between networks and also on areas concerned with network phase/time characteristics that require theoretical, analytical and empirical investigations to ensure that standards and reports meet the highest norms of technical integrity and completeness. SYNC also prepares recommendations on related subject matter under consideration in various North American and international standards organizations.

ATIS Structure

ATIS Board Strategic Initiatives

- ▼ Innovation Agenda
  - ▶ 5G
  - ▶ Connected Car – Cybersecurity
  - ▶ Cybersecurity
  - ▶ Evolution to Content Optimized Networks
  - ▶ Smart Cities
  - ▶ Unmanned Aerial Vehicles

TOPS Council

- ▶ Calling Party Anti-Spoofing
- ▶ Open Source IoT*
- ▶ NFV Characterization and Capacity Planning
- ▶ Number Assignment / Distributed Registry*
- ▶ Reference Functional Model
- ▶ Reliability Implications of Emerging Technologies
- ▶ Testbeds

* Open Source

Technical and Operations Committees

- ▶ Automatic Identification & Data Capture Committee
- ▶ Emergency Services Interconnection Forum
- ▶ Industry Numbering Committee
- ▶ International Mobile Subscriber Identity (IMSI) Oversight Council
- ▶ Network Reliability Steering Committee
- ▶ Next Generation Interconnection Interoperability Forum
- ▶ Ordering and Billing Forum
- ▶ Packet Technologies and Systems Committee
- ▶ SMS/800 Number Administration Committee
- ▶ Sustainability In Telecom: Energy and Protection Committee
- ▶ Synchronization Committee
- ▶ Telecom Management and Operations Committee
- ▶ Wireless Technologies and Systems Committee

Special Initiatives

- ▶ ATIS/SIP Forum IP-NNI Joint Task Force
- ▶ Location Accuracy Testbeds and Database

International Partnerships

- ▶ 3GPP
- ▼ oneM2M
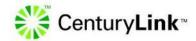 - ▶ ATIS Application-ID Registry

ATIS Service Provider Members

ATIS Synchronization Committee

- ATIS SYNC was elevated to become a full ATIS committee January 2017

- Prior to that SYNC was an ATIS subcommittee

- SYNC history:
    - T1X1.3   1984-2004
    - OPTXS-SYNC   2005-2010
    - COAST-SYNC   2010-2016
    - SYNC   2017-

ATIS SYNC

Technical Reports:

Synchronization of Packet Networks (2007)

Metrics Characterizing Packet-Based Network Synchronization (2010)

Intra-office Synchronization Architecture (2013)

Upcoming 2017: GPS Vulnerability Technical Report

Synchronization Standards:

Physical Interconnection for Intra-Office Ethernet-based Timing Distribution (2009)

Synchronization Interface Standard (2013)

Ongoing activity:

Time profile discussions coordination US/ITU

GPS vulnerability (SYNC Issue 12)

Synchronization for migration from TDM/SONET to all-IP networks (SYNC Issue 13)

Thank you

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ATIS SYNC Chair

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