**ATIS PTSC**

**February 21, 2017**

**Austin, TX**

**Contribution**

**TITLE: Propose Issue for ATIS Standard on Signature-based Handling of SIP RPH Assertion using Tokens**

**SOURCE\*: Applied Communication Sciences, OEC**

**ISSUE NUMBER:**

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**Abstract**

This contribution proposes a work item to develop an ATIS standard on Signature-based Handling of SIP RPH Assertion using Tokens.

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| **Issue Title:** | **ATIS Standard on Signature-based Handling of SIP RPH Assertion using Tokens** |

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| **Forum/Committee:** | **PTSC** | **Issue Number:** |  |
| **Committee/Subcommittee Assigned:** |  | **Issue Status:** |  |
| **Submission Date:** | **February 21, 2017** | **Initial Closure/Initial Pending Date:** |  |
| **Acceptance Date:** | **February 21, 2017** | **Target Date for Moving Issue to Final From Initial Closure or Initial Pending**: |  |
| **Targeted Resolution Date:** | **4Q17** | **Final Closure Date:** |  |

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| **Issue Statement/Business Need:** |
| [IETF RFC 4412] specifies the namespace parameters for resource-priority in the Session Initiation Protocol “Resource-Priority” Header (SIP RPH) field. The “ETS” and “WPS” namespace parameters are used to support National Security / Emergency Preparedness Next Generation Priority Services (NS/EP NGN-PS) in IP-based networks. However, the “ETS” and “WPS” namespace parameters could be spoofed or inserted by unauthorized entities impacting NS/EP NGN-PS communications in a multiple service provider IP-based network environment. |
| **Suggested Solution:** |
| Develop an ATIS standard defining a mechanism for providing end-to-end cryptographic authentication and verification of the “ETS” and “WPS” namespace parameters in the SIP RPH field. Specify a standard for telephone service providers to create signatures asserting the “ETS” and “WPS” namespace parameters in the SIP RPH field and validate initiators of the signatures by leveraging the Signature-based Handling of Asserted information using toKENs (SHAKEN) framework specified in [ATIS-1000074] and the associated Secure Telephone Identity (STI) protocols specified by the IETF in [draft-ietf-stir-rfc4474bis] and [draft-ietf-stir-passport]. |
| **Resolution Statement:** *To be provided at the publication of the deliverable or Initial/Final Closure of the Issue (e.g., the publication of ATIS-1000025 provides the Resolution to this Issue).* |
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| **Associated Committees/Issues:** *Identify other impacted or relevant groups and/or Issues that may have an interest in or are related to this topic, including groups with whom correspondence should be sent to communicate this Issue.* |
| **ATIS/SIP Forum Task Force on IPNNI and NGIIF** |
| **Related areas of consideration for the solution to be complete and implementable by the industry:** *Consider functional platform; interoperability; performance, reliability, and security; OAM&P; ordering and billing; user interface work and environmental sustainability.* |
| IETF STIR |

**Issue Champion(s):**

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**Activity Log:** The meeting date and document number of the relevant meeting record(s).

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| **Date** | **Meeting Record (Document Number)** |
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