**ATIS/SIP Forum IP-NNI Task Force**

**Philadelphia, PA**

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**Contribution**

**TITLE: Contribution on Display of Verified Caller ID in CNAM field**

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**Abstract**

This contribution provides text on the pros and cons of signaling special indicators in the CNAM Display.

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**NOTICE**

This contribution has been prepared to assist the ATIS PTSC. This document is offered to the Committee as a basis for discussion and is not a binding agreement on Ericsson or any other company. The requirements are subject to change in form and numerical value after more study. Ericsson specifically reserves the right to add to, or withdraw, the statements contained

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# Scope, Purpose, & Application

## Scope

This technical report provides a framework for signaling verified Caller ID information from the network to a User Equipment (UE), and displaying the information on the UE in a uniform manner, independent of technology.

## Purpose

## Application

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# Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

# Definitions, Acronyms, & Abbreviations

For a list of common communications terms and definitions, please visit the *ATIS Telecom Glossary*, which is located at < <http://www.atis.org/glossary> >.

## Definitions

**Caller identity:** The originating phone number included in call signalling used to identify the caller for call screening purposes.In some cases this may be the Calling Line Identification or Public User Identity. For the purposes of this study, the caller identity may be set to an identity other than the caller’s Calling Line Identification or Public User Identity.

## Acronyms & Abbreviations

|  |  |
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| ATIS | Alliance for Telecommunications Industry Solutions |

# Architecture

Editor’s note: add figure illustrating various access technologies and a variety of device types (UEs).

# Signaling of Verified Caller ID

## Signaling of Verified Caller ID using Conventional Caller Name (CNAM)

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## Pros and Cons of Signaling Special Indicators in Conventional Caller Name (CNAM) Display

While the intent of the proposal in 5.1 is to expedite the availability of a TN verification indicator reusing the existing infrastructure – a pro – the claimed benefits may produce some risks.

The proposal in 5.1 calls for the modification of the display-name portion, by appending or prepending the name with a special character. The drawbacks include the following:

* Extensive consumer education will be necessary for this idea to be of value to the consumer
* Despite the desire to expedite the availability of the verification information, this special character cannot be used until the STIR/SHAKEN methodology is implemented in the network. Therefore, the question is: what will this indicator expedite?
* The use of a visible character to convey a security status is not a good practice because it could be easily imitated by scammers.
* If consumers are taught to trust the ‘\*’ and an unverified number is received with a tampered name-display containing “\*NAME”, the contradictory information will only confuse the customer and lead to more service complaints to the carrier.
* If the proposal is intended for the short term, what is the expected time frame and would the short term value justify the extensive consumer education and the logic changes afterwards (when it is no longer needed)?

Having gone through a multi-year effort of creating a trust framework (SHAKEN) to essentially correct what was overlooked with regards to caller ID when SIP was created, it would not be prudent to suggest a solution that is likely to introduce similar vulnerabilities. .

# Display Requirements

# Related SDOs and Fora

## 3GPP

## GSMA

## Cable Labs

## Consumer Electronics

# Conclusions