

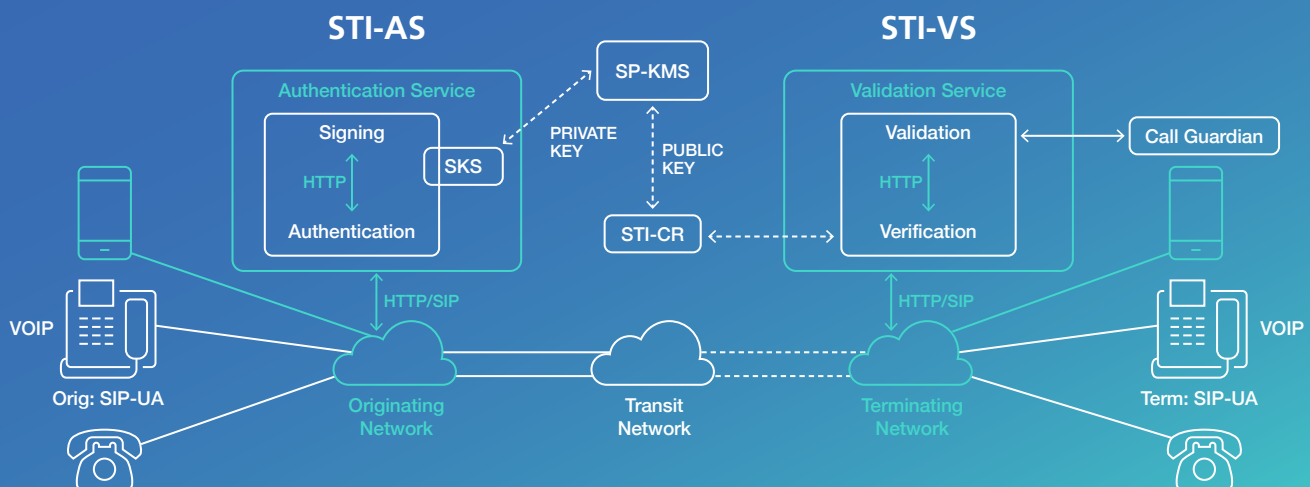
TNS Call Guardian Authentication Hub

Restore Trust to Voice Calling and Eliminate Robocalls

TNS Call Guardian Authentication Hub is a managed end-to-end call authentication solution that analyzes real-time call events combined with STIR/SHAKEN authentication and validation of caller ID that allows operators to differentiate between legitimate users of communications services versus abusive, fraudulent and unlawful users.

Robocalling Epidemic

Regulators are increasingly applying pressure to carriers to solve the robocalling problem. In the U.S., the FCC Chairman Pai sent letters to 11 voice providers asking those that had not yet established concrete plans to implement the Signature-based Handling of Asserted Information Using toKENs (SHAKEN) framework and the Secure Telephone Identity Revised (STIR) standards to implement such standards without delay. In Canada, the CRTC has mandated deployment of STIR/SHAKEN.



TNS Call Guardian Authentication Hub is an integrated solution powered by industry leading solutions from TNS and Metaswitch. It includes TNS' Call Guardian analytics and robocall detection engine and Metaswitch's MetaSphere Qcall SIP application server.

- Available as fully **managed** hosted service.
- Accurately detects robocalls and **caller ID spoofing** with industry leading call analytics and authentication technology.
- Supports **universal call blocking** of illegal robocalls as defined by U.S. and Canadian regulators.
- **Integrates STIR/SHAKEN** verstat parameters as part of call validation to influence call treatment and handset display.
- Helps subscribers avoid answering **unwanted** and illegal robocalls as well as scam calls.
- **Authenticates** the Caller ID at the origination point of the call, then **validates** Caller ID at the termination point
- Provides subscribers with a visual warning of **suspicious** callers
- Safeguards that legitimate local calls go through while **neighbor** spoofing is detected.
- Ensures subscriber information is **securely** protected.

Features

- **Real-time robocall detection** - detect problems as they occur.
- **Compliance** - full compliance with standards in ATIS test bed:
 - STIR:** RFC 8224, RFC 8225, RFC 8226
 - SHAKEN:** ATIS 1000074, ATIS 1000080, ATIS 1000082
- **Managed service** - management of private keys and signing for authentication.
- **Insight** - analysis of over 1 billion call events daily across more than 500 operators.
- **Reputation profiles** - caller reputation on over 1 billion telephone numbers.
- **Layered approach** - support for DNO, invalid, unallocated, unassigned numbers, STIR/SHAKEN and big data analytics using machine learning.

Benefits

- **Meet FCC requirements** - Call authentication framework that complies with direction of Tier 1 providers.
- **Reduce network costs** - Block calls in the network allowed by the FCC & CRTC.
- **Engagement platform** - Network level solution that can be leveraged for branded calling and enhanced caller ID.
- **OPEX-based model** - Cloud-based solution that scales up and down to any size network.
- **Attestation** - Ingests parameters from STIR/SHAKEN to provide improved call management for your subscribers.
- **Ubiquitous solution** - Supports multiple network protocols (SIP, HTTP) and integrates with all major network elements.



The Most Trusted Partner for Solutions for Telecommunication Carriers or Providers

TNS addresses the evolving needs of network operators around the globe. As the industry evolves to IoT and 5G technologies, TNS leads the development of solutions to help carriers navigate a host of infrastructure complexities and maximize their network reach through the creation of unique multi-service hub solutions.

To find out more about how TNS can help you with a wide range of telecom solutions:

solutions@tnsi.com
tnsi.com

USA	+1 703 453 8300
Europe	+44 (0)114 292 0200
Asia Pacific	+61 2 9959 0800

