

Call Guardian Authentication Hub

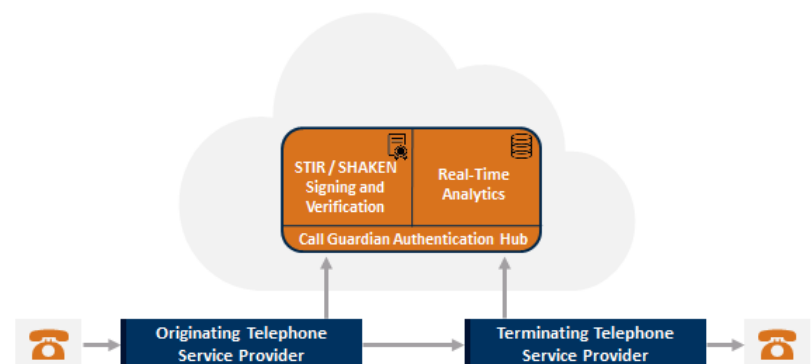
Restore Trust to Voice Calling and Eliminate Robocalls

- » Fully managed hosted solution
- » Deployed in 4 of the top 6 US wireless carriers
- » Real-time reputation scoring of over 1.2 billion telephone numbers
- » Analysis of over 1 billion call events daily across more than 500 operators
- » Satisfies regulatory requirements, including standards compliant STIR / SHAKEN and Universal Call Blocking
- » Full-featured portal providing window into real-time network activity

Robocalling Epidemic

Fighting the robocalling epidemic requires robust call authentication (STIR /SHAKEN) combined with high quality data analytics to sort the good calls from the bad. Only then can we regain trust in the telephone call by putting accurate information into the hands of subscribers to make an informed decision whether to answer the call. Metaswitch and TNS deliver the most accurate and reliable robocall prevention solution, so your subscribers will pick up the phone again.

With billions of unwanted robocalls made every month and hundreds of thousands of complaints to regulators, the robocall problem has seemingly spiraled out of control. The fix is not easy, and tremendous efforts have been made across the industry to design a comprehensive solution that will solve the problem once and for all.



STIR / SHAKEN is the first key element of this solution. The ability to spoof Caller ID is one of the critical enablers of the rise of illegal robocalls. STIR / SHAKEN provides the framework to trust Caller ID again by using secure digital signatures to sign the telephone call.

STIR / SHAKEN tells us whether we can trust where the call comes from, but it does not tell us whether a call is good or bad. For that, **Real-Time Analytics** based upon high volumes of daily network events are required. Analytics use the latest

AI technology to crunch these events through data engines and generate highly accurate and up-to-date reputation scores for individual calls. Reputation scores are applied to each individual call to provide the best experience for your subscriber – whether by blocking, sending to voicemail or warning the subscriber of a potential nuisance call.

Call Guardian Authentication Hub combines Metaswitch's best-of-breed QCall for STIR / SHAKEN and TNS's Call Guardian Real-time Analytics to deliver the most accurate and reliable robocall prevention solution. The Hub is a fully managed hosted solution, so you can deploy it in a matter of days without installing new equipment or software in your network.

Features

- Real-time robocall detection: Detect problems as they occur
- Layered approach: Support for DNO (Do Not Originate), invalid, unallocated, unassigned numbers, STIR / SHAKEN and big data analytics using machine learning
- Reputation profiles: Caller reputation on over 1 billion telephone numbers
- Compliance: Full compliance with standards in ATIS test bed
 - STIR: RFC 8224, RFC 8225, RFC 8226
 - SHAKEN: ATIS 1000074, ATIS 1000080, ATIS 1000082
- Fully managed hosted service: Management of private keys and signing for authentication
- Insight: Analysis of over 1 billion call events daily across more than 500 operators
- Portal: Full-featured portal providing window into real-time network activity

Benefits

- Meet regulatory requirements: Call authentication framework complies with FCC and CRTC requirements
- Low startup cost: Cloud-based managed solution means you can get up and running in days without any new in-network equipment
- Reduce network costs: Blocking calls in the network allowed by the FCC and CRTC provides savings on network resources and CNAM lookups
- SIP and TDM: Provides customer benefits for both SIP-based and TDM-based network traffic
- Flexible architecture: Supports multiple network protocols (SIP, HTTP) and integrates with all major network elements, including Metaswitch CFS and MGC and Perimeta SBC
- Customer engagement platform: Network level solution that can be leveraged for branded calling and enhanced caller ID