

# Oracle Communications Consulting STIR/SHAKEN Solution



## Highlights of OCC STIR/SHAKEN Solution

- Compliant with most widely used standards, such as:
  - ATIS 1000074
  - ATIS 1000080, ATIS 1000082
  - IETF RFC 8224, 8225, 8226
- Easy integration to Oracle and 3<sup>rd</sup> party SBC.
- High availability and redundancy models
- Real time and Carrier-grade performance
- Flexible & customizable
- Administration, configuration, monitoring, troubleshooting and analytics through OCC-SOP
- Turn-key Solution
- End-to-end delivery model: from inception to go-live

Caller Identity theft and spoofing have been exacerbated in recent years by an onslaught of robocaller systems which leverage SIP-based telecommunications networks to engage in nefarious activities beyond the noble pursuits of connecting people. Both Service Providers and Enterprises fall victim to these fraudsters and their tactics, resulting in lost revenues numbering in the millions. This problem is not isolated to telecom interconnect networks. Enterprises are also victims with automated fraudulent caller applications monopolizing time in their IVRs and with Call Center attendants. Mitigating the threats associated with malicious robocall systems and telecom identity theft is mainstream; technologies like STIR/SHAKEN have become increasingly prevalent in network architecture discussions at Telecommunications Service Providers (SPs) and Enterprises.

## Oracle Communications Consulting STIR/SHAKEN solution

STIR/SHAKEN is a technology defined by the Alliance for Telecommunications Industry Solutions (ATIS). The framework provides a mechanism for one Service Provider to attest to the veracity of a calling line identity originating from its network and a complimentary mechanism for a peer service provider to verify that same calling line identity.

OCC STIR/SHAKEN Solution can generate the key to connect to your trusted Certificate Authority and digitally sign the calls and create identity header (Originating Network) using OCC STI-AS application and also verify the signature with OCC STI-VS (Terminating network). Based on the validation, status is conveyed to the SIP network function to take action and identify the caller as either good or bad.

Leveraging carrier-grade Oracle technology platforms, the OCC STIR/SHAKEN solution provides Service Providers and Enterprises with the following features:

- Solution compliant with most widely used ATIS and IETF standards, such as ATIS1000074, ATIS1000080, ATIS 1000082, RFC 8224, RFC 8225, and RFC 8226
- Easy integration to both Oracle Communications Session Border Controller (OC-SBC) and 3<sup>rd</sup> Party SBCs.
- Flexible and scalable to adapt to your traffic requirements.
- High availability and redundancy model to prevent service disruptions.
- Real time and High performance platform.
- Fully customizable to embrace Service Provider specific requirements.

- Fully integrated to the OCC Service Operations Portal providing administration and configuration, monitoring, troubleshooting and analytics.

The OCC STIR/SHAKEN solution features the Oracle Communications Converged Application Server (OCCAS) middleware platform and Application delivery model. Service Providers and Enterprises can deploy standards-compliant functionalities from day one as modular applications and alter them on demand to accommodate broadly appealing enhancements as quickly as one-off feature requests.

## Service Details

OCC has the in-depth expertise and experience to deliver this important protection to our Service Provider and Enterprise customers. This turn-key solution will include end-to-end service from planning and delivery to post-cutover administration, delivered by working cooperatively with the customer's technical team throughout the entire process.

OCC STIR/SHAKEN Development, and Implementation services rely on proven methods and processes, allowing customers to achieve desired outcomes while avoiding problems and unforeseen complications. Customers can rely on repeatable policies and procedures based on worldwide Oracle Communications products and solutions deployments.

## Improve your Network Performance with OCC STIR/SHAKEN Experts!

Created by a highly skilled team of OCC experts, the STIR/SHAKEN solution enables Telecom Service Providers and Enterprises to protect their customers from fraudulent calls with exceptional customer success. With hundreds of service providers and thousands of enterprises trusting OCC applications to secure their voice networks, OCC has the experience to help telecom organizations ensure that when it comes to customer satisfaction, your network integrity remains uncompromised.

### Key Benefits

- Mature, field-tested, Carrier-Grade platform
- Field Proven platform software at a massive deployment scale
- Seamlessly scalable
- Open architecture extensibility, & integration with 3<sup>rd</sup>-party components and internal business systems
- On-demand development model ensuring close collaboration during lab, pre-production, and post-production conversations
- STIR/SHAKEN Applications are extensible modules
- A modular architecture model enables efficient deployment, unprecedented flexibility, scale, and ease of evolution

### Related Products

- Oracle Communications Converged Application Server (OCCAS)
- Oracle Communications Session Border Controller (OCSBC)

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