



# Ribbon STIR/SHAKEN as a Service for Rural and Independent Service Providers

As a rural and independent service provider, Ribbon values our longstanding relationship with you. As a long-term strategic partner, Ribbon has always been innovative when looking for solutions that are tailored to your unique requirements. This innovation continues when it comes to providing STIR/SHAKEN to combat illegal robocalling.

Telecom service providers are searching for a cost-effective way to restore trust in the legitimacy of phone calls their customers receive every day. Implementing the FCC-mandated STIR/SHAKEN makes it possible to significantly reduce the negative affect that spoofed calls have on your customers. For many rural and independent service providers, the best option to implement STIR/SHAKEN will be to subscribe to a managed service which will dramatically minimize or eliminate their up-front investment and implementation expense.

As part of its Ribbon Call Trust® portfolio, Ribbon offers a complete STIR/SHAKEN solution as a managed service. This service runs on Ribbon's cloud-native Identity Hub platform designed for security, data privacy, reliability, and scalability.

## STIR/SHAKEN as a Service (S/SaaS)

Ribbon's STIR/SHAKEN solution has already been deployed in multiple Tier 1 and Tier 2 service provider networks. Now we are making this solution available as a Ribbon managed service. This new service requires little to no capital expenditure on the part of the rural and independent service provider. Instead, you can treat the solution as an operational expense. Figure 1 below shows how simple this implementation would be in your network. The only requirement is a session border controller (SBC) to interwork with Ribbon's STIR/SHAKEN as a Service.

Ribbon's STIR/SHAKEN as a Service includes the following:

- Secure Telephone Identity - Authentication Service (STI-AS) and the associated functions of Service Provider Key Management Service (SP-KMS) and Secure Key Store (SKS) to process originating network requests for signed assertion of a caller's identity.
- Secure Telephone Identity - Verification Service (STI-VS) and the associated function of Secure Telephone Identity Certificate Repository (STI-CR) to process terminating network requests for certificate verification of a caller's identity.
- Secure Telephone Identity – Certificate Authority (STI-CA) providing the following capabilities:
  - Accept SHAKEN Certificate Signing Requests (CSRs) for new certificates
  - Automatically validate Service Provider Code (SPC) Tokens and issue standards-compliant SHAKEN signing certificates that include the required Telephone Number Authorization List extension.
  - Revoke certificates if needed and notify the Secure Telephone Identity – Policy Administrator (STI-PA).
- Access to the Identity Hub Services Dashboard to view and report on STIR/SHAKEN service statistics.

Ribbon provides complete management and monitoring of the service from the Ribbon Managed Network Operations Center (MNOC) to ensure service reliability and availability.

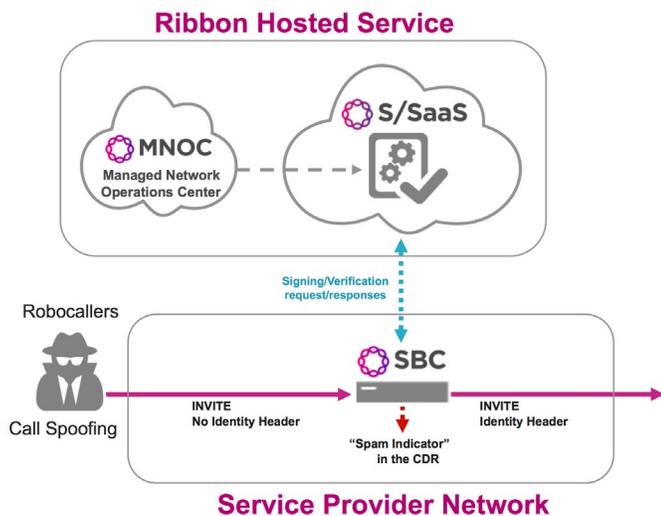


Figure 1. Ribbon STIR/SHAKEN as a Service

Rural and independent service providers with C15 call session controller(s) can leverage a C15 feature for additional benefits from STIR/SHAKEN as a Service. Figure 2 below shows that for any originating endpoint, where the terminating endpoint is associated with an outbound SIP trunk, the C15 can provide the highest level of attestation adding credibility to the legitimacy of the originating endpoint.

When a call terminates on the C15, it will process the verification status indicator in the SIP identity header and show the verification status to the endpoint.

## Rural and Independent Service Providers – we have your back!

Our team has worked hard to ensure Ribbon's STIR/SHAKEN as a Service makes sense for you! Here are the basic setup and recurring costs:

- One-time service set up fee
- Cost-effective monthly fees based on call traffic volume
- Twelve month term with auto-renewal

For those customers who require an SBC and have available CapEx budget, Ribbon does have the ability to bundle an SBC with this service. Please contact your Ribbon account manager to learn more about this option.

And when you are ready to implement additional identity assurance services, Ribbon will be there as well. Ribbon offers a Reputation Scoring as a managed service for both originating and terminating robocall and fraud mitigation. Like STIR/SHAKEN as a Service, Reputation Scoring is hosted on Ribbon Identity Hub, so you will have access to the same services dashboard for all hosted services.

Please contact your Ribbon account manager to learn more about this service and future Identity Hub managed services.

## About Ribbon

Ribbon Communications (Nasdaq: RBBN) delivers communications software, IP and optical networking solutions to service providers, enterprises and critical infrastructure sectors globally. We engage deeply with our customers, helping them modernize their networks for improved competitive positioning and business outcomes in today's smart, always-on and data-hungry world. Our innovative, end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, including core to edge software-centric solutions, cloud-native offers, leading-edge security and analytics tools, along with IP and optical networking solutions for 5G. To learn more about Ribbon visit [rbbn.com](http://rbbn.com).

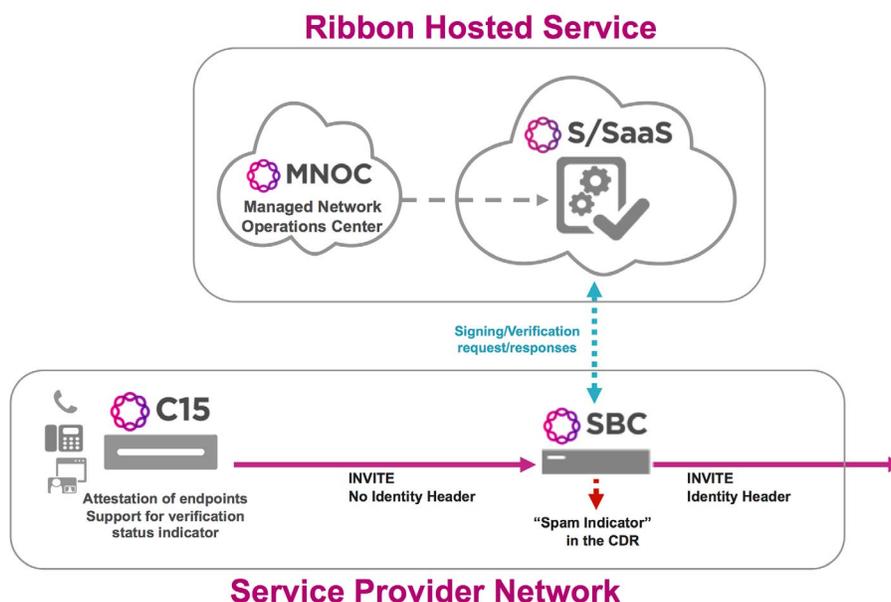


Figure 2. Ribbon STIR/SHAKEN as a Service with C15

Contact Us

Contact us to learn more about Ribbon solutions.