

Alianza complies fully with all of these requirements.

Specifically, Alianza authenticates 100% of all outbound calls made from its platform with an attestation level that indicates whether the caller is allowed to use the caller ID, following the attestation level guidelines defined by ATIS-1000088. From an inbound perspective (calls received from outside of its network), Alianza receives the header and the attestation level, which is then processed through Alianza's verification service to confirm that the carrier's digital certificate is valid. Once confirmed, call processing continues.

Does STIR/SHAKEN Block Robocalls?

The FCC has taken steps to enable service providers to protect consumers, and although STIR/SHAKEN *reduces* the number of fraud and robocalls by deterring malicious behavior, there is a misconception that it will prevent robocalls and spoofing by not allowing the call to be terminated. Unfortunately, that is not the case.

As allowed by the FCC, Alianza's carrier partners enable block calls from phone numbers on a Do-Not-Originate (DNO) basis. To further prevent unwanted calls, Alianza facilitates call blocking for service providers that partner with [Nomorobo](#), which is a free service that prevents >95% of unwanted calls.

Robocall Mitigation Database

As part of STIR/SHAKEN implementation, Alianza has filed a certification on the FCC's [Robocall Mitigation Database \(RMD\)](#), which means our services are compliant. **As a voice service provider, you also need to file an RMD form.** See [Robocall Mitigation Database](#) for details.

Identity Header

A SIP identity header to the SIP INVITE, for all outbound calls originating from registered devices, contains a cryptographically signed attestation of the validity of the caller ID. This attestation can be verified by other VoIP systems and, most notably, the final PSTN network that receives the call and routes it to its destination end point ([Bandwidth](#) & [TransNexus](#) provide excellent explanations of the concept and the INVITE level attestation details). This is the "STIR" part of STIR/SHAKEN.

Here's an example SIP Identity header snip that will be added to the SIP INVITE message during call setup. The specific encoded header and payload details will vary on a call by call basis, but the overall packet size will not.

```
Identity:
eyJhbGciOiJIJFZlIiwiaXN5cCI6InBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9hcGkuZDIuYWxpY
W56YS5jb20vdjIvc3Rpci1zaGFrZW4vY2VydHMvYzNlNTEyNWUyYTI2NC00NTk4LWl3NTItY2YzMW
IzYjZlY2g3L2tleS5jcnQiLCJwchQiOiJzaGFrZW4ifQ.eyJhdHRlc3QiOiJBIiwizGVzdCI6eyJ0
biI6WwYxODAxMzYxMTA3MiJdfSwiaWF0IjoxNjU0MTE0MzE1LCJvcmlnIjp7InRuIjoimTM4NTIzN
zAwNTYifSwib3JpZ2lkIjoimNmQwMjFkODUtZTMxYy0zMWY1LWE3ZGI0NWM2MWJjOWUwNjBkIn0.Ni
```

ZY1m_NDaDXwiIYHeMJcvuI7gpuVtn4ht6BLZ0sIAdXhu2G3heZsPDk-
L1xGSDi5RutOGWVmaaYSjHrww26hQ;info=<https://api.alianza.com/v2/stir-
shaken/certs/c3e5125e-a264-4598-b352-
cf31b3b6aa87/key.crt>;alg=ES256;ppt=shake

Call History and Call Detail Records

To record this data, four new fields are being added to the Technical Details section of the [Call History](#) records in the Admin Portal:

- **identityAttestLevel:** A = fully attested or trusted source, B = partially attested, or C = not attested (potential spam).
- **identityOriginationId:** A unique identifier used to identify the source of the call.
- **identitySignOrganization:** The code for the carrier that performed the signing.
- **identitySignSPCode:** The code assigned to the service provider that signed the call.
- **Verstat:** Identifies if the validation passed, failed, or was not performed.
- **VerstatReason:** Identifies why the verification failed.

These fields may not be present on all Call History records, since not all inbound calls are signed by the originating carrier.

The Canadian Radio-television and Telecommunications Commission (CRTC) requires that service providers be able to report monthly percentages that identify the number of calls verified and the attestation level in relation to the total number of voice calls handled.