

Description of the SHAKEN/STIR Program

SHAKEN/STIR is an industry framework mandated by the Federal Communications Commission (FCC) to reduce fraudulent calls and robocalls over IP networks. Implemented on June 30, 2021, it requires service providers to authenticate and verify caller identities using digital certificates. This framework is crucial for ensuring the legitimacy of calls and curbing the robocall trend.

Key Components:

- **STIR:** Secure Telephony Identity Revisited
- **SHAKEN:** Secure Handling of Asserted information using toKENs

How It Works:

1. **Attestation Levels:** Calls are assigned an attestation level (A, B, or C) by the originating service provider, indicating the level of trust in the caller's identity.
 - **Full Attestation (A):** The provider knows the customer and the number.
 - **Partial Attestation (B):** The provider knows the customer but not the number.
 - **Gateway Attestation (C):** The provider cannot verify the customer or number.
2. **Token Assignment:** A token is assigned to calls, included in the SIP INVITE header, and passed to the terminating provider for validation.
3. **Validation:** The terminating provider validates the token's signature to connect the call or take further action, such as blocking.

Compliance:

- As of June 30, 2022, small service providers must sign their outbound calls with SHAKEN tokens.
- Telnix signs calls received unsigned but is not responsible for compliance with FCC regulations.