

STI

Governance
Authority



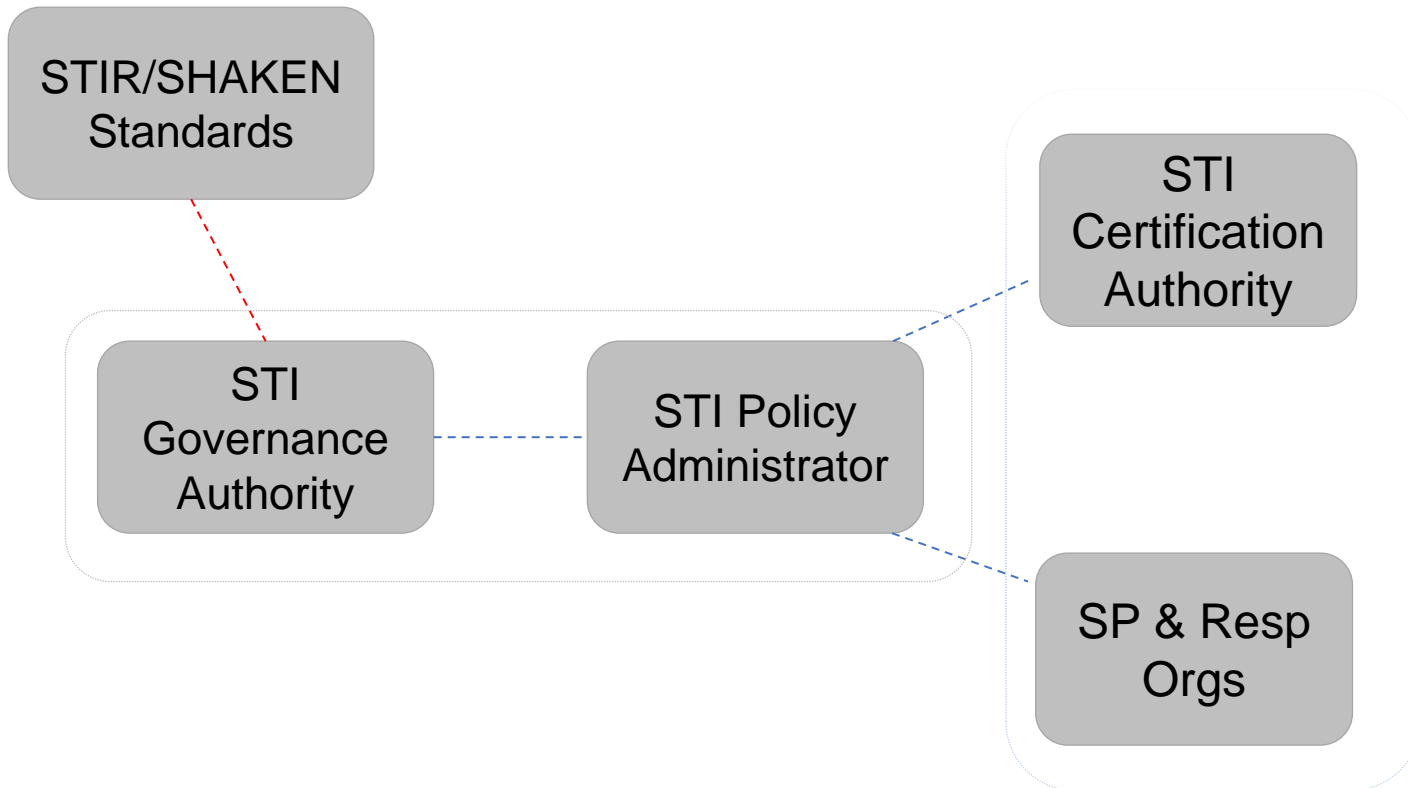
STIR/SHAKEN Enterprise Summit 2022

Linda Vandeloop
Chair, STI-GA Board

Brent Struthers
Director, ATIS/STI-GA

October 20, 2022

SHAKEN Governance Model



STI Governance Authority (STI-GA)

- Defines the rules governing SHAKEN ecosystem
- Manages the STI Policy Administrator (STI-PA)
- Ensures security and integrity of STIR/SHAKEN ecosystem



STI-GA Role

- The STI-GA ensures the integrity of the issuance, management, security and use of STI Certificates issued in compliance with the SHAKEN specifications.
- The STI-GA establishes and governs the policies and the security around issuance and use of STI Certificates by SHAKEN participants in the U.S. Policies include:
 - SPC token Access Policy
 - STI Participant Revocation & Reinstatement Policy
 - Certificate Policy
 - STI-CA Revocation policy
 - SHAKEN Framework Funding Policy

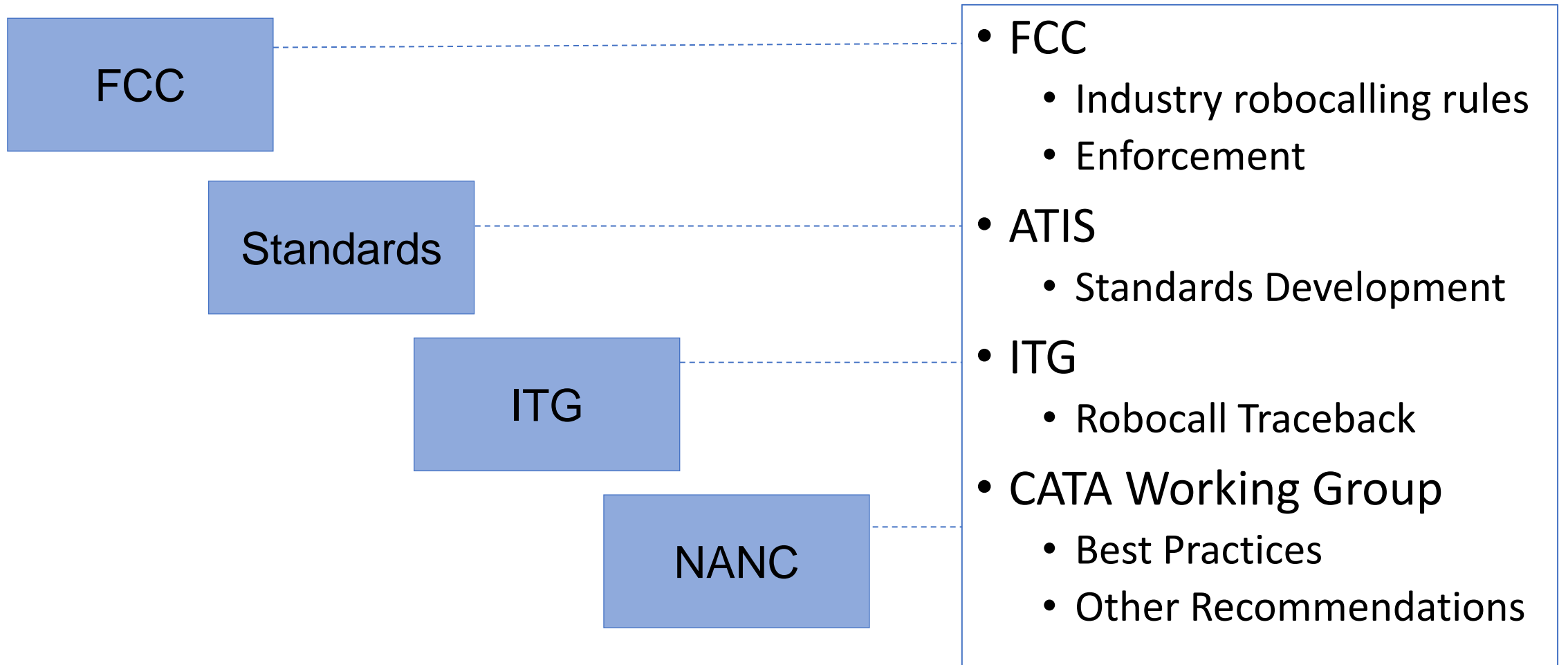


STI-GA Board

- **Board composition (and nominating organization):**
 - Chair: Linda Vandeloop, AT&T
 - Vice Chair: Glenn Clepper, Charter Communications (NCTA)
 - Clint Lee, Jackson Energy Authority (ACA)
 - Nathan Sutter, Nex-Tech Wireless (CCA)
 - Beth O'Donnell, Comcast
 - Indra Chalk, T-Mobile (CTIA)
 - Darah Franklin, Google
 - Greg Rogers, Bandwidth (INCOMPAS)
 - Dave Frigen, Wabash Communications (NTCA)
 - Philip Linse, Lumen (US Telecom)
 - Gunnar Halley, Microsoft (VON)
 - Michael Starkey, QSI Consulting, Inc. (Western States CLEC Coalition)

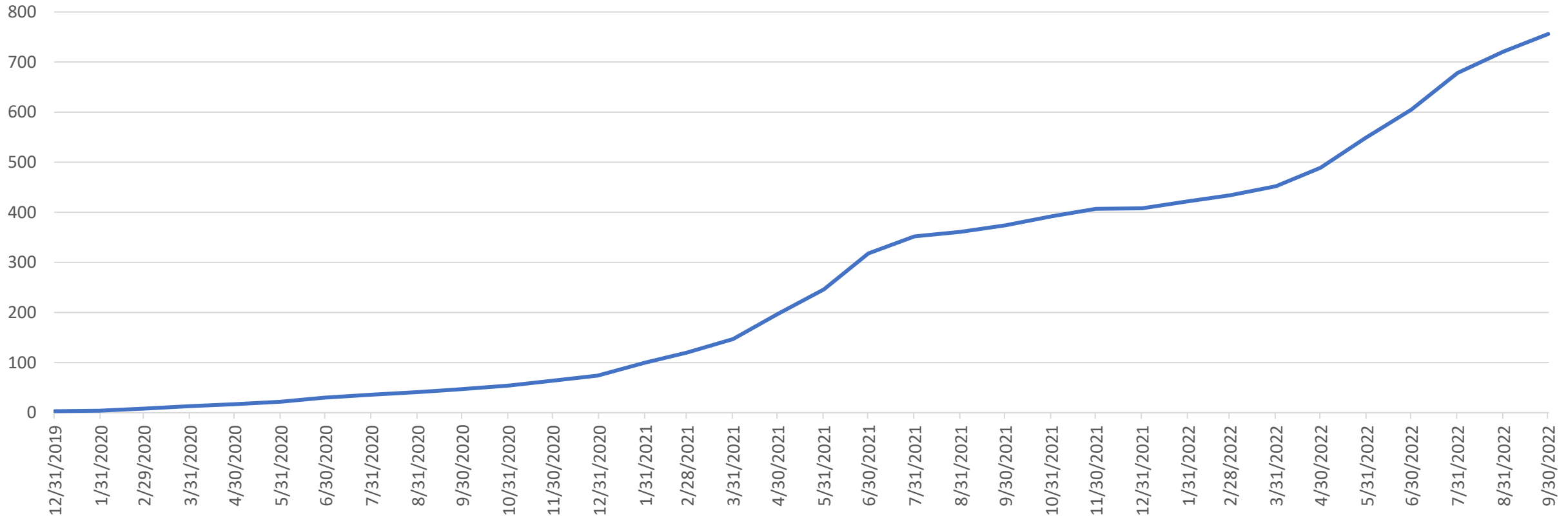


Partners in Robocall Mitigation



Service Provider Participation

- 756 authorized STI Participants as of 09/30/2022
- Mix of Large, medium and small SPs, urban and rural, wireline, wireless and interconnected VoIP, and Resp Orgs





Budget and Funding

SHAKEN Framework Budget

- STI-GA, STI-PA, and Contingency Fund for other costs, such as Change Orders

2022 SP Payments

- Minimum - \$825
- Maximum – \$143,925
- Contribution Factor: .000053
- All the above 2022 costs apply through 12/31/2022

2023 Budget in line with prior years

- Costs not increasing as number of participating SPs rises
- 2023 STI-PA fees will be announced soon



STI-CA Growth

- 12 authorized STI-CAs
 - 10 are public, 2 private
 - All but one STI-CA now approved for the assignment of intermediate certificates
 - Issuance of delegate certificates
- STI-CA authorization is a detailed process
 - Prospective CAs must submit:
 - Certification Practice Statement (CPS) conforming with the SHAKEN specifications and in compliance with STI-GA Certificate Policy
 - PKI expert involved with all CPS reviews



Data Breach

- Summary

- On February 3rd, an authorized STI-CA gained unauthorized access to data held by the STI-PA.
 - The STI-CA was required to submit to a number of reinstatement conditions including:
 - Monthly reporting, internal training and third-party security audit
 - All conditions have been successfully met and the STI-CA has been fully reinstated

- Policy Updates

- Board created STI-CA Revocation Policy to protect against an such future issues with the STI-CAs



Certificate Policy Revisions

- Policy Management Authority has worked through the backlog of CPS revisions from 2021 CP changes
 - All but one STI-CA has had a revised CPS approved
 - Approved for the issuance of intermediate certificates that will be the parents to delegate certificates
- Technical Committee is working on next CP revision (version 1.4)
 - CP Revisions due to:
 - Industry security practices advancements
 - Support of new services
 - General clean-up due to young and growing PKI ecosystem
 - Timing by end of 2022



Cross-Border SHAKEN

- MoU with Canada
 - STI-GA & CST-GA agreed on an MoU to further cross-border collaboration on call signing
 - MoU outlines areas of cooperation
 - Development of educational materials for other countries on cross-border collaboration;
 - Discussion of cross-border traffic and specific SHAKEN framework interconnection issues
 - A combined list of trusted Certification Authorities and sharing of Certificate Revocation Lists
 - Sharing of information related to enforcement, such as the revocation of SPC tokens
 - Common technical issues relevant to the implementation of STIR/SHAKEN
 - Discussion of and possible coordination on GA policies and procedures
 - Not all policies will be the same
 - Coming update to the public list of STI-CAs and CRL
 - Mid-November launch of lists in an automated format



International SHAKEN

- STI-GA Board considering international SHAKEN:
 - 1) Criteria for the STI-GA to evaluate any SHAKEN Governance Authority, either jurisdictional or non-jurisdictional
 - 2) Process for applying the criteria in the evaluation of international SHAKEN Governance Authorities
- Objective is to develop a process that allows for cooperation with other call authentication models while not compromising the security and integrity of the U.S. SHAKEN ecosystem



STI-GA Enforcement

- Delinquent Payers
 - First SPC token revocation
 - Due to non-payment
 - STI Participant agreement allows for revocation in the event of non-payment
 - Each SP more than 180 days delinquent
 - In process for revocation by October 21, 2022
- Other STI-GA Enforcement Consideration
 - FCC Action against SPs
 - If FCC removes SP from the Robocall Mitigation Database, the SP no longer qualifies for SPC token access
 - No SP removed from the database has been an authorized SP to date
 - STI-GA Discussing Improper Attestation
 - Definition of improper attestation
 - Identifying sources for information on SPs improperly attesting to calls
 - Potential coordination with Industry Traceback Group



Resource Links

- STI-GA
 - STI-GA Policy: <https://sti-ga.atis.org/resources/>
 - All STI-GA Advisories & Press: <https://sti-ga.atis.org/news/>
- STI-PA
 - Service Provider & Resp Org Registration:
 - <https://authenticate.iconectiv.com/service-provider-authenticate>
 - Authorized STI-CAs:
 - <https://authenticate.iconectiv.com/approved-certification-authorities>

Questions?