

Title: Robocall Mitigation Program Utilizing STIR/SHAKEN Framework

Program Overview:

This document outlines the Robocall Mitigation Program designed to leverage the STIR/SHAKEN framework. This program aims to significantly reduce the incidence of illegal robocalls by ensuring robust call authentication and providing consumers with tools to report and block suspected robocalls. The program will partner with a telecom company that has already implemented the STIR/SHAKEN protocol.

1. Partner Company:

has been chosen as the partner company for this program due to its established implementation of the STIR/SHAKEN protocol. Their infrastructure and expertise will provide a solid foundation for the proposed robocall mitigation efforts.

2. STIR/SHAKEN Framework:

STIR (Secure Telephone Identity Revisited): A set of technical standards to verify the identity of phone calls.

SHAKEN (Signature-based Handling of Asserted Information Using toKENs): A framework for implementing STIR in IP-based service provider networks.

The STIR/SHAKEN framework will be used to authenticate outbound calls and verify the authenticity of incoming calls, helping to flag potential robocalls.

3. Program Components:

Call Authentication

- Outbound calls authenticated using STIR/SHAKEN.
- Verification of incoming calls to flag potential robocalls.

Real-time Monitoring

- Implement real-time call analytics to detect unusual calling patterns indicative of robocalls.

Reporting and Feedback

- User-friendly system for consumers to report suspected robocalls.
- Use consumer feedback to refine call-blocking algorithms.

4. Implementation Steps:

Integration with Telecom Provider (

- Partner with _____ to use their STIR/SHAKEN infrastructure.

Develop a Robocall Detection Algorithm:

- Utilize machine learning to analyze call patterns and identify potential robocalls by using Skytel's system.
- Train the _____ algorithm with data from known robocalls and legitimate calls.

User Interface and Reporting System:

- Utilize _____ portal to:
 - View call history with STIR/SHAKEN verification status.
 - Report suspected robocalls.
- Provide real-time feedback about the status of reported numbers.

Real-time Call Monitoring:

- Utilize _____ systems to monitor call traffic in real-time.
- Utilize _____ to flag and block calls exhibiting robocall characteristics.

Continuous Improvement:

- Regularly update data given to Skytel to help in the detection algorithm based on new data and user reports.
- Collaborate with _____ to improve STIR/SHAKEN implementation and counter new robocall tactics.

5. Compliance and Legal Considerations:

The program will ensure full compliance with FCC regulations and other relevant laws. Transparency will be maintained regarding data usage and privacy policies to protect consumer information.

Sample Workflow:

Outbound Call Authentication

1. A call is made from a user.
2. The call is authenticated using STIR/SHAKEN before being connected.
3. The recipient's phone displays the verification status.

Inbound Call Verification

1. An incoming call is received.
2. The call's verification status is checked using STIR/SHAKEN.
3. If the call fails verification or exhibits suspicious patterns, it is flagged as potential spam.

User Reporting and Feedback Loop:

1. We report a suspected robocall via the portal.
2. The report is analyzed and, if confirmed, added to the detection algorithm.
3. Future calls from the same number are blocked or flagged based on the updated data.

Conclusion:

By leveraging the existing STIR/SHAKEN infrastructure of this Robocall Mitigation Program aims to provide a secure and reliable calling experience. The program's comprehensive approach, including real-time monitoring, user feedback, and continuous improvement, ensures that it will effectively reduce the number of illegal robocalls.

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President

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This document provides a detailed description of the proposed Robocall Mitigation Program for consideration by the FCC.