



# Existing Robocalling and Spoofing Mitigation Techniques



## **ANONYMOUS CALL REJECTION**

**Benefit:** Blocks any call not providing Caller ID information

**Limitation:** May block legitimate calls lacking Caller ID information

**Dependent on:** User initiated network service

**Currently available:** Yes

## **DENY LISTING (SERVICE PROVIDER SPECIFIC)**

**Benefit:** Blocks calls from unwanted numbers

**Limitation:** Spoofers can circumvent deny listing by using alternate numbers

**Dependent on:** Network supported application

**Currently available:** Yes

## **DO NOT ORIGINATE**

**Benefit:** Can make a significant initial impact when implemented in a limited number of large gateways

**Limitation:** Provides no protection against international VoIP originated calls

**Dependent on:** Network supported application

**Currently available:** No

## **FILING LEGAL COMPLAINTS**

**Benefit:** Consumers are legally entitled to Federal Trade Commission (FTC) protection

**Limitation:** Filing an FTC complaint is only an option after robocalling/spoofing has already negatively affected a consumer

**Dependent on:** User initiated non-network service

**Currently available:** Yes

## **HONEYPOTS**

**Benefit:** A proactive approach for luring and identifying spoofers

**Limitation:** Requires substantial resources for development, maintenance and ongoing data monitoring

**Dependent on:** Network supported application

**Currently available:** Yes

## **MALICIOUS CALL TRACING**

**Benefit:** Uses a star code (\*) to record call details including source, date and time

**Limitation:** Collected data cannot be utilized until a later time

**Dependent on:** User initiated network service

**Currently available:** Yes

## **NATIONAL DO-NOT CALL REGISTRY**

**Benefit:** Reduces the instances of unwanted telemarketing calls

**Limitation:** Provides no protection against international VoIP originated calls or deliberate fraudsters

**Dependent on:** User initiated network service

**Currently available:** Yes

## **SELECTIVE DISTINCTIVE RINGING**

**Benefit:** Allows consumers to assign a specific ringtone to user selected numbers

**Limitation:** Numbers must be pre-selected from a contact list in order to provide notification of incoming calls

**Dependent on:** User initiated network service

**Currently available:** Yes

# Combatting Robocalling and Spoofing

## What can be done? Authentication and verification breakthrough

In the United States, the Federal Communications Commission (FCC) and the telecommunications industry have taken decisive action to protect consumers by halting illegal robocalls and Caller ID spoofing.

Academic researchers and leading telecom associations, industry members and standards organizations such as the Internet Engineering Task Force (IETF) and the Alliance for Telecommunications Industry Solutions (ATIS) who is working jointly with the SIP Forum, are developing solutions to help the industry mitigate illegal robocalling and spoofing.

Together industry leaders such as iconectiv®, ATIS and the SIP Forum developed SHAKEN (Signature-based Handling of Asserted information using toKENs), a set of specifications that provides a framework for service providers to implement new certificate-based anti-robocalling and spoofing measures.

SHAKEN uses encrypted digital signatures for each call that provides authentic and more complete information to the terminating service provider about the calling party. SHAKEN gives service providers the tools needed to sign and verify calling numbers as well as where the call originates. This information will be used by call blocking and analytics applications to determine what to do with the call and enables consumers to know, before answering, that the calls they receive are from legitimate parties.

## Legislative and regulatory initiatives

The FCC has released rules as well as additional Notices of Proposed Rulemaking and Congress has introduced several pieces of Legislation to combat illegal robocalling and spoofing.

In September 2018, the STI-Governance Authority (STI-GA), an industry group that was created to support the timely deployment of SHAKEN. Since SHAKEN relies on digital certificates to ensure that the CallerID is cryptographically authenticated, a Secure Telephone Identity Policy Administrator (STI-PA) was required. In May 2019, the STI-GA

selected iconectiv as the STI-PA to ensure that the certification authorities implement appropriate certificate management practices and that only authorized service providers are issued certificates for signing calls.

## Ready for implementation

iconectiv will work with service providers and the certificate authorities to deploy this solution, which is the foundation for securely enhancing the information provided to call blocking and analytics apps and ensuring that consumers can trust what they see and thus make informed decisions when answering a call. Uniquely positioned to lead in the mitigation of illegal spoofing and robocalling, iconectiv's core competencies include highly scalable software as a service (SaaS) based information management providing authoritative numbering services, trusted communications and fraud prevention for the telecommunications industry.

Part of the iconectiv Trusted Communications portfolio, this anti-spoofing solution allows caller ID information to be authenticated and the origin of the call captured and securely conveyed between service provider networks. Together, these will make a significant difference in reducing illegal robocalls and ensuring that consumers have the information they need to make an informed decision as to whether or not to answer a call.

### To find out more

If you are a service provider, enterprise or partner who wishes to establish a trusted environment for subscribers to communicate with commercial entities, contact us to learn more.

### make the connection

For more information about iconectiv, contact your local account executive, or you can reach us at: +1 732.699.6800  
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### about iconectiv

Your business and your customers need to confidently access and exchange information simply, seamlessly and securely. iconectiv's extensive experience in information services, digital identity and numbering intelligence helps you do just that. In fact, more than 5K customers rely on our data exchange platforms each day to keep their networks, devices and applications connected and 2B consumers and businesses protected. Our cloud-based information as a service network and operations management and numbering solutions span trusted communications, digital identity management and fraud prevention. For more information, visit [www.iconectiv.com](http://www.iconectiv.com). Follow us on X and LinkedIn.