



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

BLACK LISTING (Service Provider Specific)

Benefit:	Blocks calls from unwanted numbers
Limitation:	Spoofers can circumvent black 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

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SIMULTANEOUS RING

Benefit:	Incoming calls ring an additional user-defined number simultaneously
Limitation:	Not all switching platforms are capable of providing the feature
Dependent on:	Non-network service
Currently available:	Yes

SMART PHONE APPS

Benefit:	Allow precise white lists and black lists to be compiled directly from existing call logs or contact lists
Limitation:	Spoofers can circumvent user compiled lists by using alternate numbers
Dependent on:	User initiated smart phone app
Currently available:	Yes

VERIFIED CALLER ID

Benefit:	Signs and validates the phone number of incoming calls
Limitation:	Only works for end-to-end IP sessions
Dependent on:	Network supported application
Currently available:	NO (pending STIR/SHAKEN standards)

TRACEBACK

Benefit:	Identifies calling source by tracing SS7 signaling data from the terminating service provider back to the originating service provider
Limitation:	Is a time consuming manual process
Dependent on:	Network supported application
Currently available:	Yes

VOICEMAIL SCREENING

Benefit:	Forwards incoming calls directly to a message system within the carrier network for later retrieval by the user
Limitation:	May send legitimate calls to voicemail
Dependent on:	User initiated network service
Currently available:	Yes

WHITE LISTING (Service Provider Specific)

Benefit:	Allows calls only from designated white list numbers
Limitation:	Spoofers can easily implement existing numbers from the Global White List database
Dependent on:	User initiated network service
Currently available:	Yes

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