

A Proposed Focus on Stopping Scams

Mark Collier – SecureLogix

A background image for the first section showing a person's face in profile, wearing a headset, with a blurred computer screen in the background.

Call Security + Call Authentication + Call Branding

Authenticated branding to restore trust.

Security for robocalls & malicious calls.

ANI authentication and spoofing detection.

(*) Audio analysis and focus on scam detection

A background image for the second section showing a woman with blonde hair wearing a headset and smiling, with a blurred office background.

Industry Leading Expertise

Professional services team has 20+ years of experience securing billions of calls.

A background image for the third section showing the dome of the U.S. Capitol building under a blue sky with some clouds.

Partnerships, Research & Innovation

Strategic relationship with Verizon, AT&T, and T-Mobile. PhD-led R&D work with U.S. DHS and DoW.

We Need to Work Together to Address Scams



Telecom

Social media

Financial Institutions

Government

Telecom – Implement required solutions, authentication, and scam detection

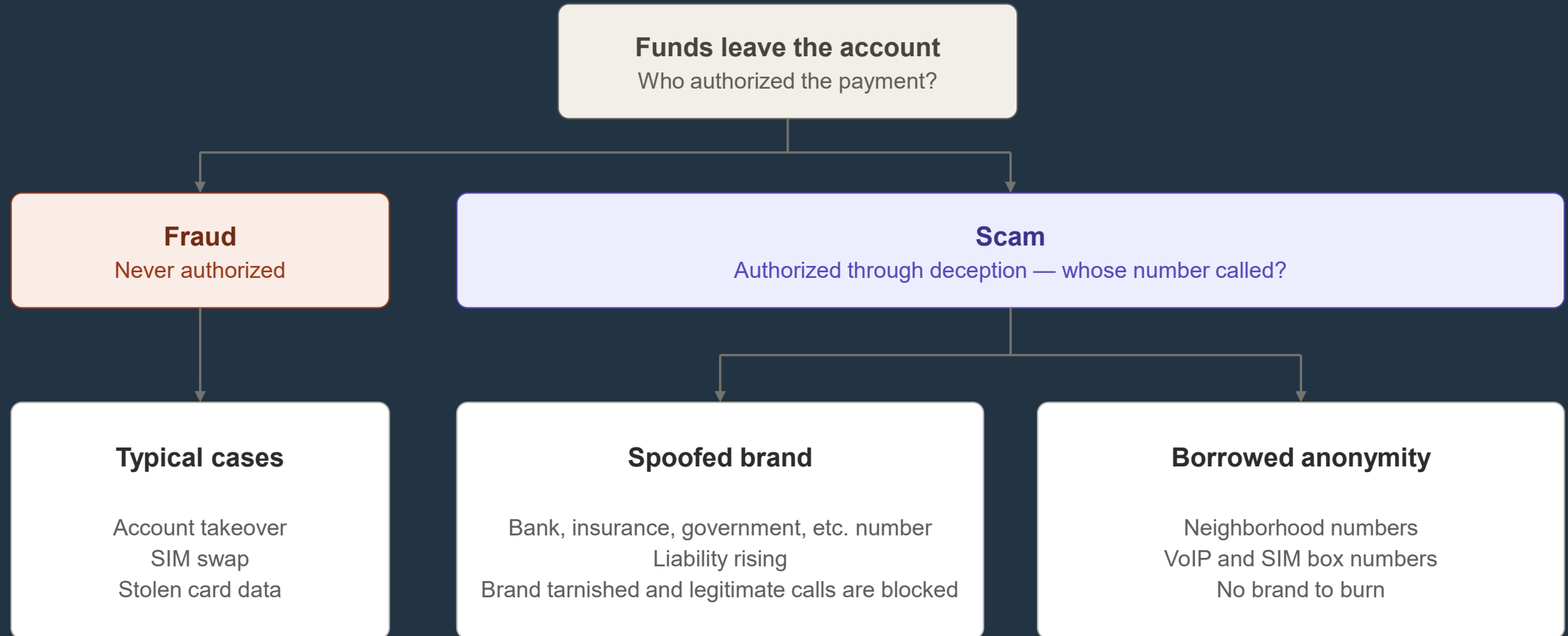
Social media – Scam detection within proprietary platforms

Financial institutions – Implement available solutions and respond to suspected scams

Government – FCC requirements, scam compound takedowns, cyber, fund recovery



Information Sharing – Scam Reports, Raw Data, various types of events

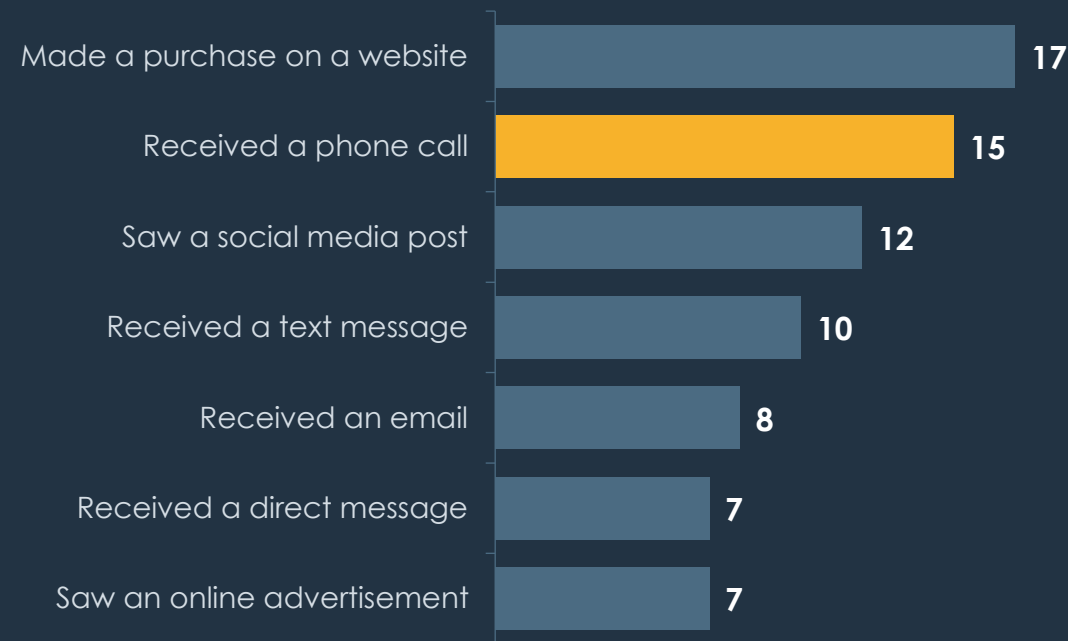


Many Scams Start and Stay With Voice

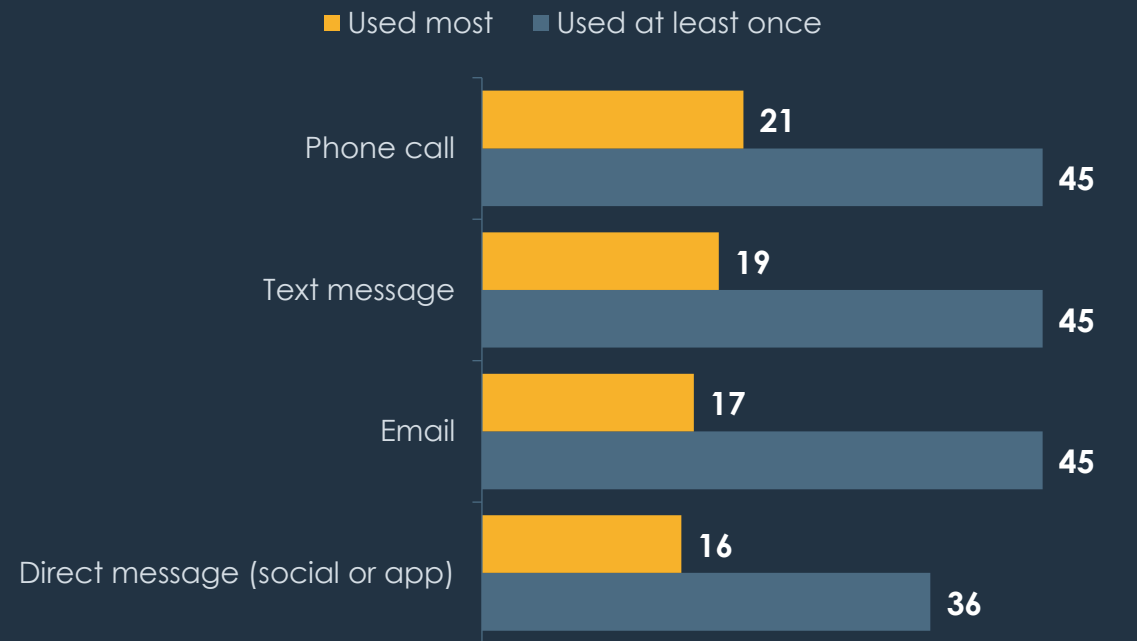


Of every channel a scammer controls, voice opens the most scams — and stays the most-used channel throughout

How the scam first started



Channels used across the whole scam



This is where we can help – Catch them on voice

We Are Doing a Lot of Good Work – But Zero in on Scams



FCC rulemaking

STIR/SHAKEN baseline

Mandatory since 2021. Large carriers past 95% — yet only ~45% of traffic arrives fully signed.

All-IP transition

Any TDM leg strips the PASSporT. FCC 25-25 would end the non-IP exemption; two years to comply.

Know Your Customer

April 2026 FNPRM. Collect, verify, retain, re-verify — with per-call penalties.

Know Your Upstream Provider

May 2026 FNPRM. Codifies A/B/C criteria and closes signing loopholes.

Standards and identity

Authenticated Branded Calling

Out-of-band authenticated branding and spoofing protection

Branded Calling ID

CTIA ecosystem layering Rich Call Data on SHAKEN. T-Mobile and Verizon are in.

Rich Call Data

Oct 2025 FNPRM: verified identity required wherever an A-attestation is displayed.

Traceback

USTelecom ITG, FCC-registered. Cooperation compulsory; 1,800+ providers.

Network practice

Analytics and labeling

Reputation scoring drives block and label decisions — and degrades on unsigned traffic.

Service provider controls

DNO lists, gateway filtering, RMD removals. Enforcement has moved upstream.

Enterprise spoofing protection

Defending the brand's own numbers. Sits outside every framework above.

The remaining gap

All of it authenticates the number. None of it tells the victim who is calling.

Focus in on unauthenticated calls

KYC AND VETTING

Every originator vetted before it can sign.



AUTHENTICATION

Every call signed.
All-IP matters — but OOB works today.



BRANDING

Name, logo, reason.
BCID rides on the signature.

What authentication unlocks

TRUSTED DISPLAY

A logo means something only on a signed call.

SEPARATION

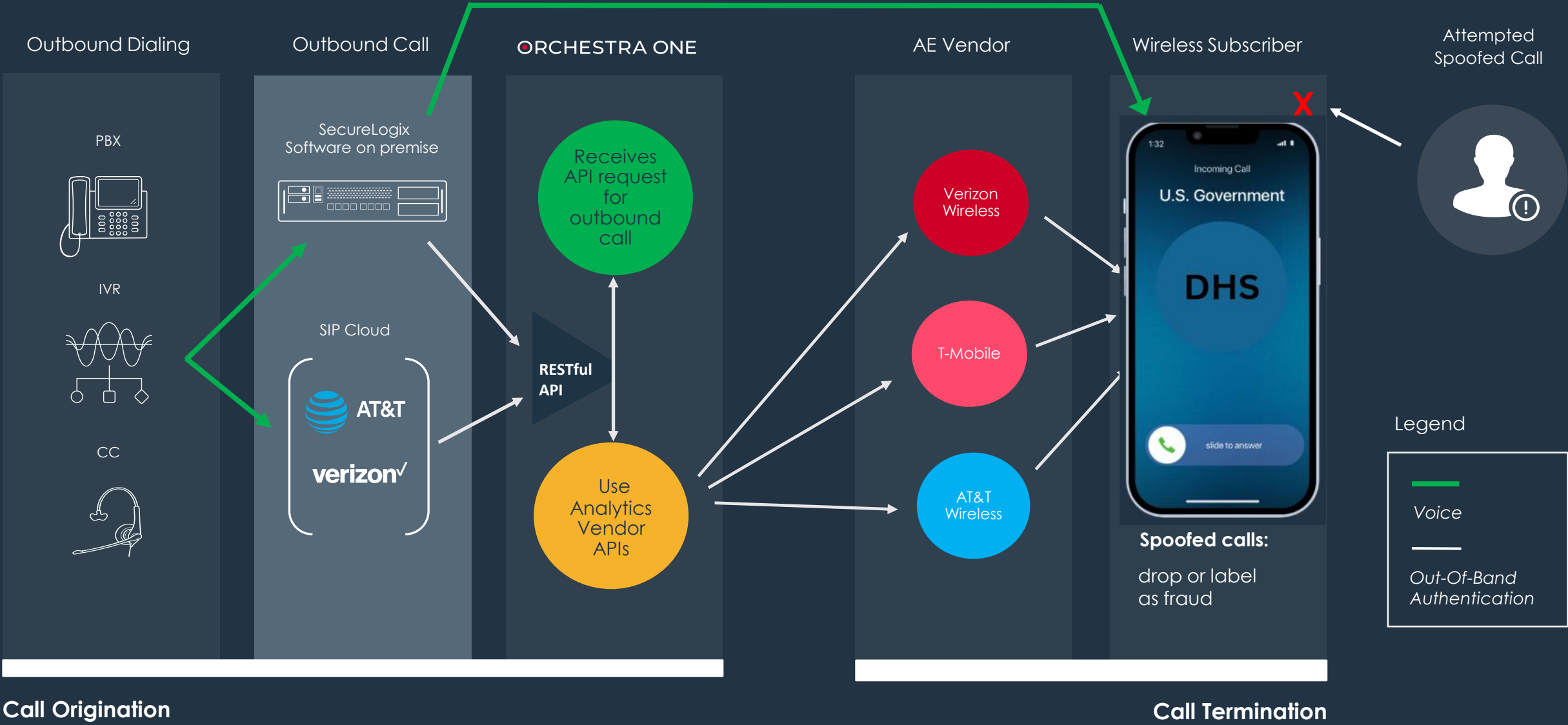
Known-good calls set aside.
Suspect traffic surfaces faster.

SPOOFING PROTECTION

Enterprise numbers defended in real time.

Naked Branding Is a Big Issue

Authentication Enables Active Spoofing Protection



Spoofing Protection Use Case



78.5M+

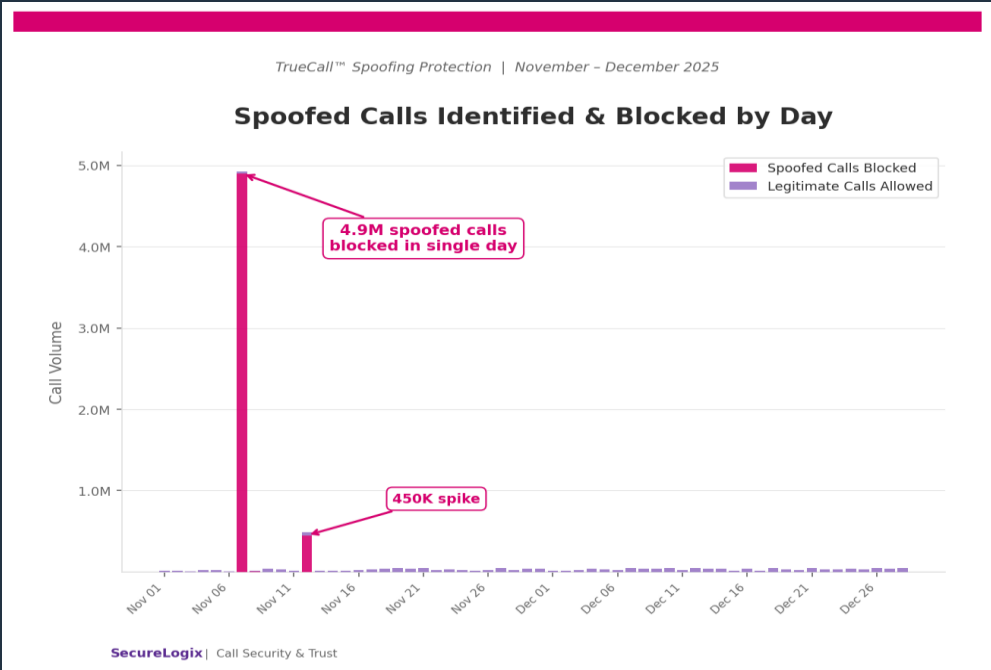
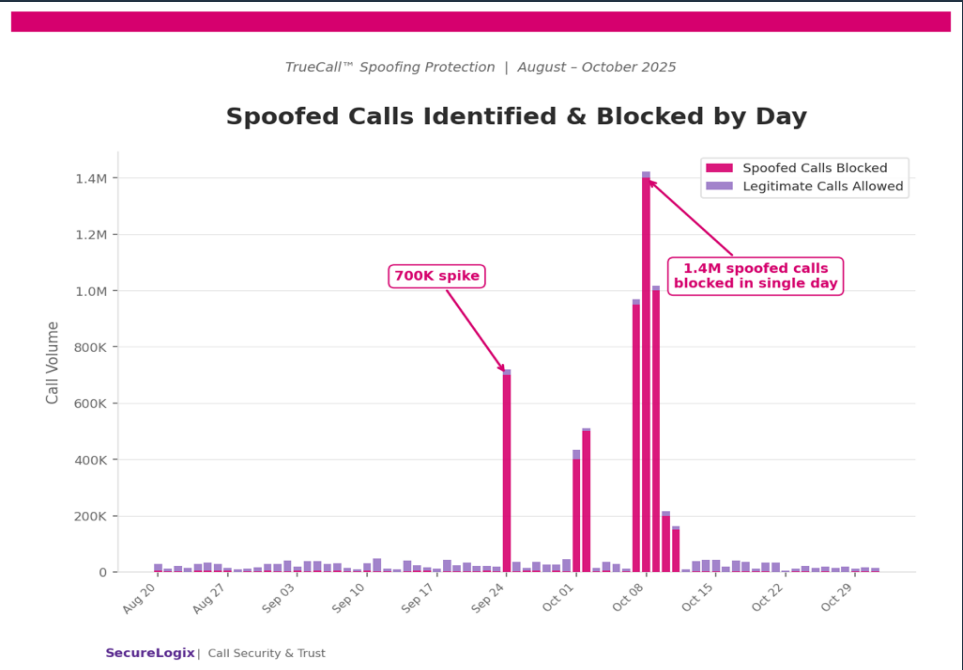
Legitimate Calls
Authenticated

15.1M+

Spoofed Calls
Blocked

~5M

Blocked in Single
Attack Event



Spoofing Protection Can Be Implemented Now

Three Needed Improvements

Ranked by how buildable they are here. Detail follows.

1 A central authority

ELSEWHERE

UK Online Crime Centre, April 2026 — £31M of a £250M programme. Police, GCHQ and NCSC alongside banks and carriers, able to block calls and freeze accounts. Twelve countries run fusion hubs.

IN THE US

Split across the FCC, FTC, IC3, CFPB and fifty AGs. None owns the problem. Consolidation takes Congress.

Unlikely. Build assuming it never arrives.

2 Central scam reporting

ELSEWHERE

One front door for victims, one feed for industry, paired with takedown. Australia removed 19,400+ scams in FY26, up 182%.

IN THE US

Twenty-plus intake points, no shared schema. Carriers see the call; banks see the loss.

Achievable without new law.

3 Blocking spoofed inbound calls

ELSEWHERE

Nineteen countries block inbound international calls bearing a domestic number; 46 CEPT administrations recommended it in 2023. Australia did the same for SMS in July 2026.

IN THE US

Gateways have authenticated since 2023, and the FCC already asks about marking foreign calls. The mechanism exists.

Closest to actionable. Start here.

Many Separate Places To Report Scams

Twenty places to report a scam. None of them talk to each other.

Federal

FTC Consumer Sentinel 2.6M fraud reports in 2024; ~\$16B in 2025 losses.

FBI IC3 1M complaints, \$20.9B in 2025.

FCC Complaint Center Unwanted call and text complaints, open data.

CFPB The payment-side aftermath.

SSA OIG, IRS, USPIS, SEC Sorted by agency impersonated.

Consumer and nonprofit

BBB Scam Tracker Crowdsourced, searchable by number.

AARP Fraud Watch Staffed helpline, thousands of calls a month.

IdentityTheft.gov FTC identity-theft intake.

State attorneys general About half feed Sentinel.

Local law enforcement Where victims report first, and where it stops.

Telecom

USTelecom ITG Traceback; 1,800+ providers; runs the DNO registry.

Robocall Mitigation Database Self-certified plans, 9,000+ filers.

Carrier abuse desks Everyone collects. Nobody pools.

Analytics vendors TNS, Hiya, First Orion — proprietary.

YouMail 3.9B robocalls in Aug 2026; ~2B scam or telemarketing.

Financial and global

Bank and card fraud teams Richest loss data, least shared.

FinCEN SARs Closed to carriers.

Nacha, Early Warning ACH and P2P, bank-side only.

Global Anti-Scam Alliance Cross-border reporting.

APWG Phishing intelligence.

No shared schema

A Common Data Model — Not a Central Database

US scam losses ran ~\$68B in 2025 — four times what FTC data captures. No source sees it all.

SOURCES

Scam reports FTC, FCC, FBI

Threat intel SSA, Operation Shamrock, CFCA

Carrier call data Verizon, AT&T, T-Mobile

Analytics engines TransUnion, TNS, Hiya, First Orion

Number validity iConnectiv, Somos, NetNumber

Honeypots YouMail, Voice Alerts, BeeSafe AI

THE MODEL

Raw data never pools. Holders keep custody.

Privacy-compatible signals only. No content, no subscriber identifiers.

The campaign is the unit. Not isolated reports.

The repository enables. The question is whether fusion beats any single source.

WHO USES IT

Detection cross-source features, labelled truth

Carriers and AE vendors earlier signal than one vantage point

Law enforcement patterns across jurisdictions

Consumers one place to report and check

ACCESSIBLE TODAY

Federal and public scam-report data. Define the schema against real records.

NEEDS AGREEMENTS

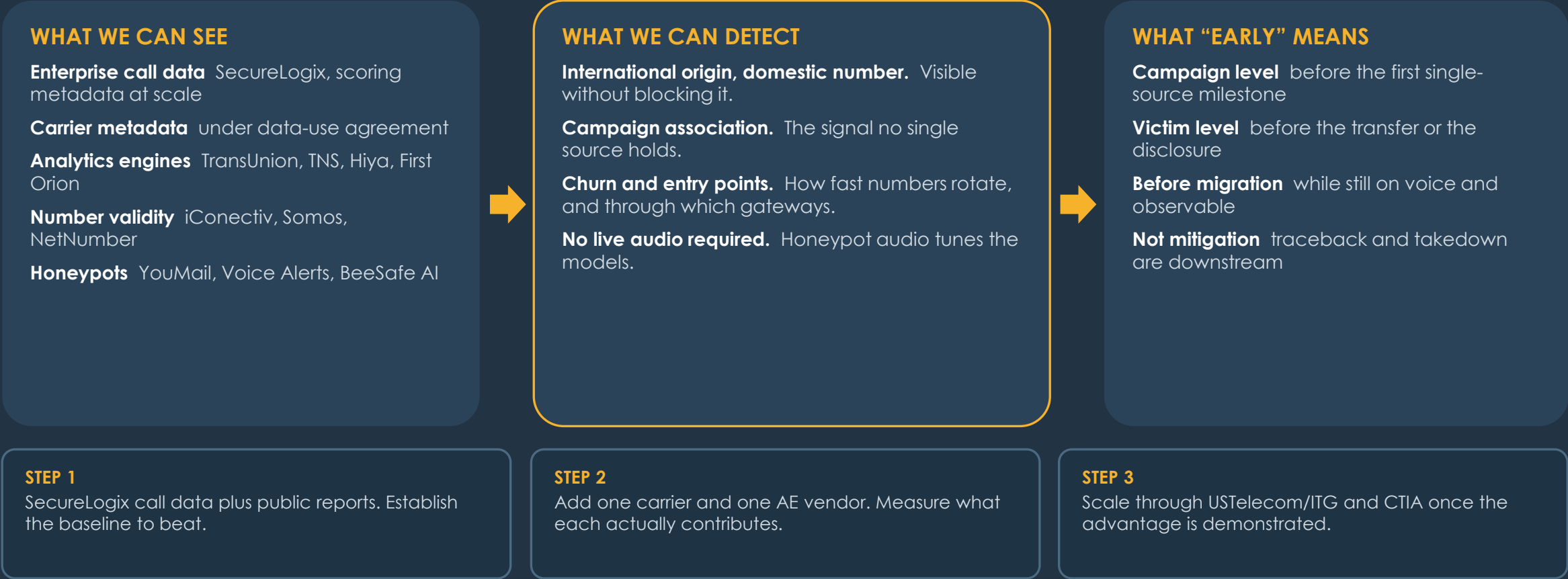
Carrier, AE-vendor, number-validity, honeypot and threat-intel feeds.

DEFERRED

User-shared conversation APIs specified now, collection later.

The hard part is the data model, not the database.

Detection and possibly blocking



Detection feeds the model. The model sharpens detection.

Other Than Those In the Room, Some of the Good Guys



None of this is theoretical. These people already started.

National coalitions

Stop Scams Alliance

Stop scams at the source, through public-private partnership. Commissioned the Gallup study.

stopscamsalliance.org

NEFCC

Aggregates elder fraud cases into prosecutable packages. AARP, Amazon, Google, Walmart.

fightelderfraud.org

Aspen National Task Force

Building the first coordinated national strategy on fraud and scams.

fraudtaskforce.aspeninstitute.org

Global

Global Anti-Scam Alliance

Over 100 member organizations worldwide. Research, summits, shared taxonomy.

gasa.org

Global Signal Exchange

GASA, Google and the DNS Research Federation. A clearinghouse for scam signals.

globalsignalexchange.org

Operation Shamrock

2,000+ members across law enforcement, banks and tech, disrupting pig butchering.

operationshamrock.org

Telecom

USTelecom ITG

The FCC-registered traceback consortium. Runs the DNO registry.

tracebacks.org

CFCA

Carrier fraud intelligence and shared best practice across operators.

cfca.org

ATIS

The standards behind SHAKEN, out-of-band authentication and RCD.

atis.org

Consumers and victims

AARP Fraud Watch Network

Staffed helpline and victim support, at national scale.

aarp.org/fraudwatchnetwork

BBB Scam Tracker

Crowdsourced scam reporting, searchable and public.

bbb.org/scamtracker

Identity Theft Resource Center

Free remediation help for victims, long after the money is gone.

idtheftcenter.org

The work is already underway. It just isn't connected — which is the whole point.

Not exhaustive. If your organization belongs here, find me afterward.

FCC — proceedings and orders

Call authentication (STIR/SHAKEN) overview

<https://www.fcc.gov/call-authentication>

Non-IP caller ID authentication NPRM, FCC 25-25 (Apr 2025)

<https://docs.fcc.gov/public/attachments/DOC-411101A1.txt>

Call Branding FNPRM fact sheet (Oct 7, 2025)

<https://docs.fcc.gov/public/attachments/DOC-415059A1.pdf>

Call Branding FNPRM, FCC 25-76 (full text)

<https://docs.fcc.gov/public/attachments/FCC-25-76A1.pdf>

KYC FNPRM fact sheet (Apr 9, 2026)

<https://docs.fcc.gov/public/attachments/DOC-420711A1.txt>

KYUP / STIR-SHAKEN fact sheet (Apr 29, 2026)

<https://docs.fcc.gov/public/attachments/DOC-421205A1.pdf>

KYUP FNPRM, FCC 26-32 (May 20, 2026)

<https://docs.fcc.gov/public/attachments/FCC-26-32A1.pdf>

Triennial report on robocall-blocking efficacy

<https://docs.fcc.gov/public/attachments/DOC-416732A1.pdf>

All-IP transition / intercarrier compensation (Feb 2026)

<https://docs.fcc.gov/public/attachments/DOC-418791A1.pdf>

FCC consumer policy proceeding tracker

<https://www.fcc.gov/general/consumer-policy-issues>

CRS report R48941, Combating Robocalls and Robotexts

<https://www.congress.gov/crs-product/R48941>

ATIS — non-IP call authentication standards

ATIS Non-IP Call Authentication Task Force

<https://atis.org/committees-forums/ptsc/non-ip-call-authentication-task-force/>

ATIS-1000095.v002, Extending STIR/SHAKEN over TDM

https://access.atis.org/apps/group_public/download.php/67542/ATIS-1000095.v002.pdf

ATIS-1000096, Out-of-Band PASSporT Transmission

https://access.atis.org/apps/group_public/download.php/60535/ATIS-1000096.pdf

ATIS-1000105, Out-of-Band between TDM-interconnected providers

<https://access.atis.org/higherlogic/ws/public/download/79509/ATIS-1000105.pdf>

Industry ecosystem

CTIA / BCID LLC comments on the Caller Identity FNPRM

<https://www.ctia.org/positions/documents/bcid-llc-files-comments-on-caller-identity-fnprm>

Branded Calling ID explainer (TransNexus)

<https://transnexus.com/whitepapers/branded-calling-id/>

STIR/SHAKEN standards index (TransNexus)

<https://transnexus.com/shaken-info-hub/>

USTelecom Industry Traceback Group

<https://tracebacks.org/about/>

ITG Do-Not-Originate registry terms

<https://tracebacks.org/dno-terms/>