

Caller Identity Verification: STIR/SHAKEN as a Model for Protecting the Network, Consumers and Businesses

Chris Drake

CTO

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keeping the world connected

we imagine a world without boundaries, where the ability to access and exchange information is

simple,
seamless
and secure.



trusted communications leader

our cloud-based Software as a Service (SaaS) solutions span network and operations management, numbering, trusted communications and fraud prevention.

2B

connections daily

enabling the simple, seamless and secure interconnection of networks, devices, and applications for more than 2B people every day.

5K+

global customer base

including wireline, wireless and VoIP service providers, cable companies, regulators and enterprises



industry programs



Registered Caller

- short code
- registry™

STI Governance Authority



industry forum leadership

active participants in more than ~50 industry working groups, committees and initiatives.

active participation in telecoms industry



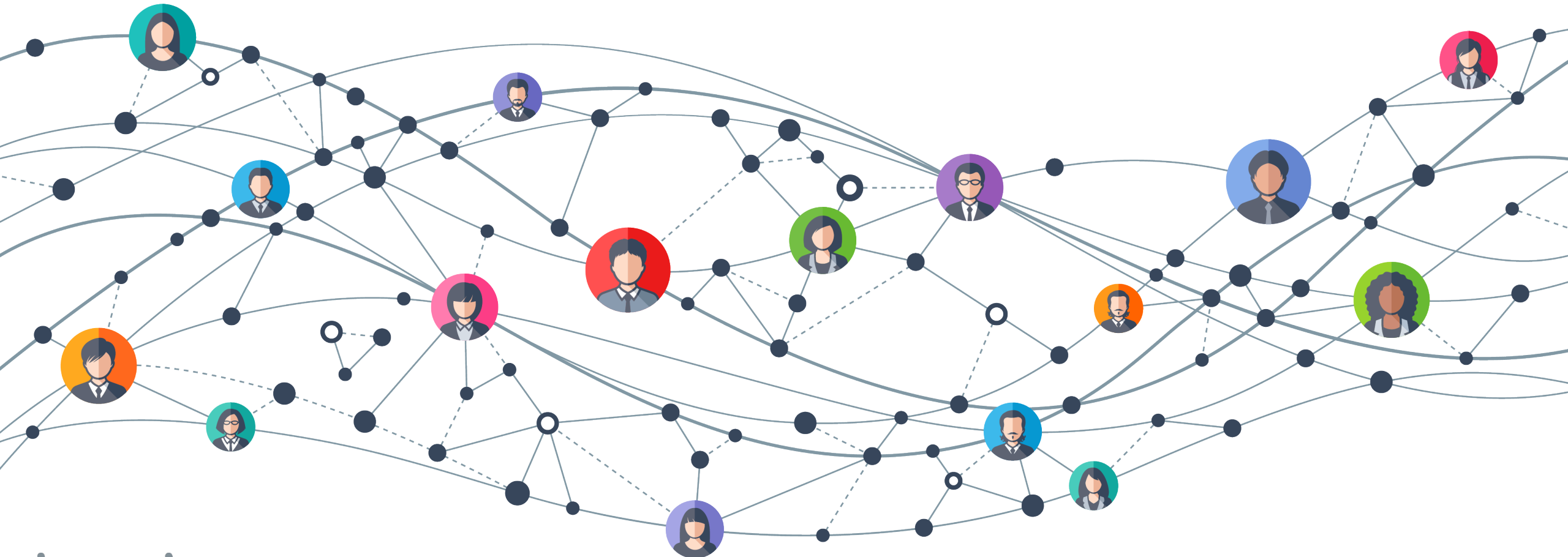
keeping the world connected and protected



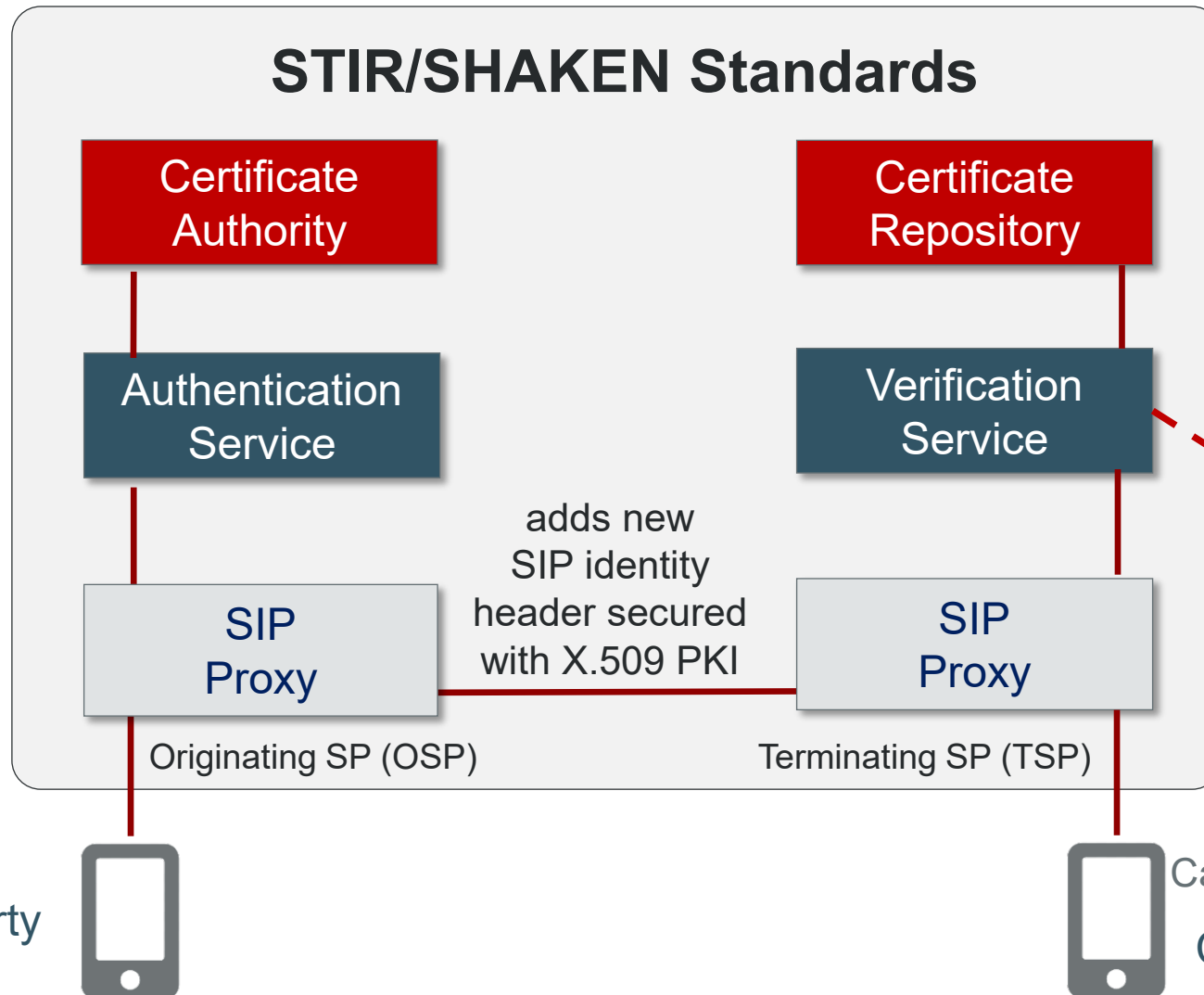
Networks

Consumers

Businesses



STIR/SHAKEN highlights



CallerID Attestations

- Ⓐ fully authenticated
- Ⓑ partially authenticated
- Ⓒ gateway (i.e., unknown)

Origination ID (OrigID)

For rapid traceback

Call Validation Treatment (CVT)

Call blocking & display analytics



protection starts with knowing the caller

caller identity

right to use number

call branding

call reason



The Originating Service Provider **knows their customer better than anyone else.**

STIR/SHAKEN lets them **send this caller information** to other networks in a tamper-proof manner and at global scale



robocalling and STIR/SHAKEN in the U.S

31% fraud originates from phone calls (robotexts scams rising fast)

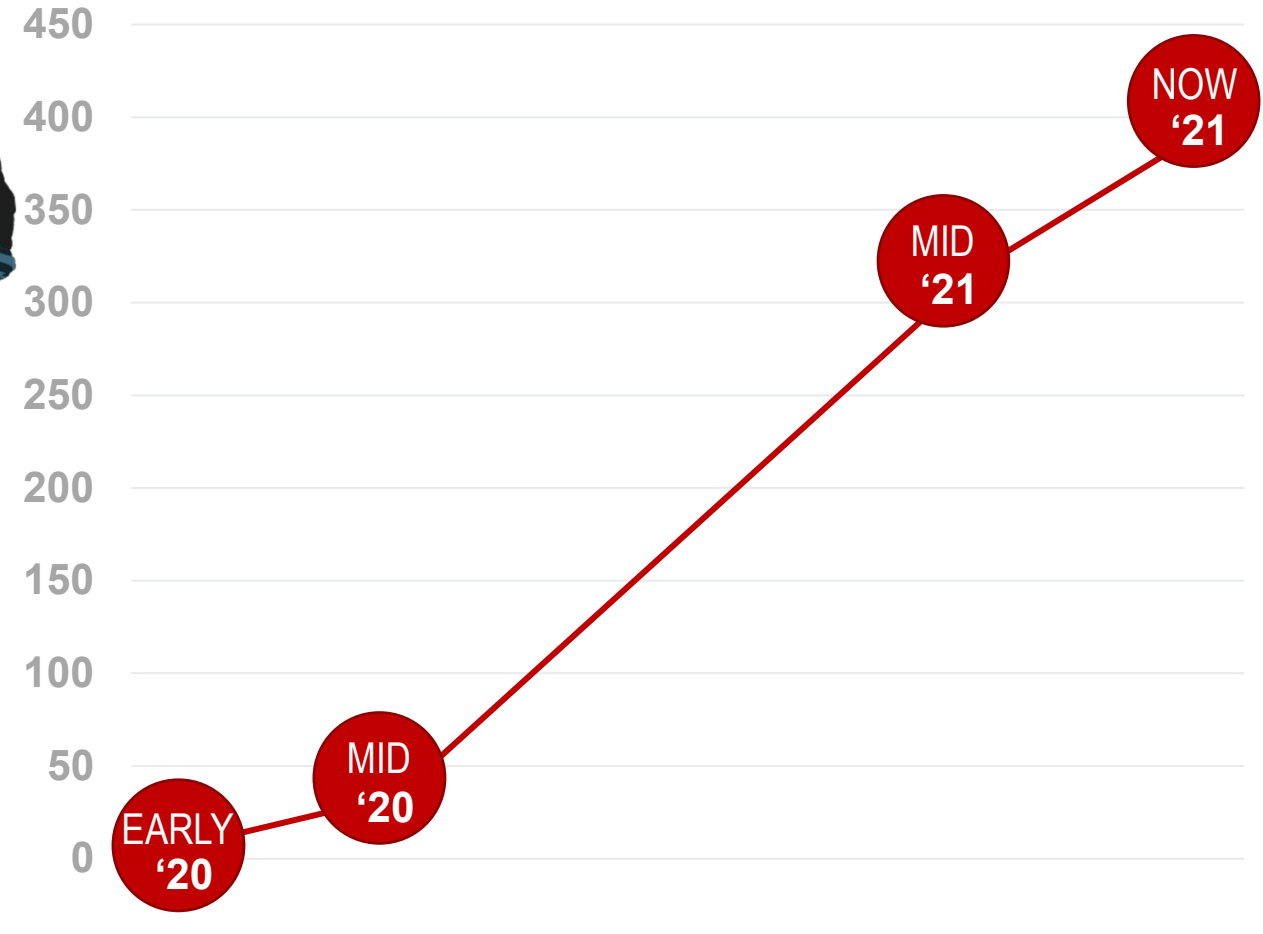
80% of consumers do not answer calls from unknown numbers

48^B robocalls Americans received

13.5^B what robocall losses cost consumers



Service Provider Participation



what is next for STIR/SHAKEN



30%

Decline in robocalls within the first 90 days of deployment

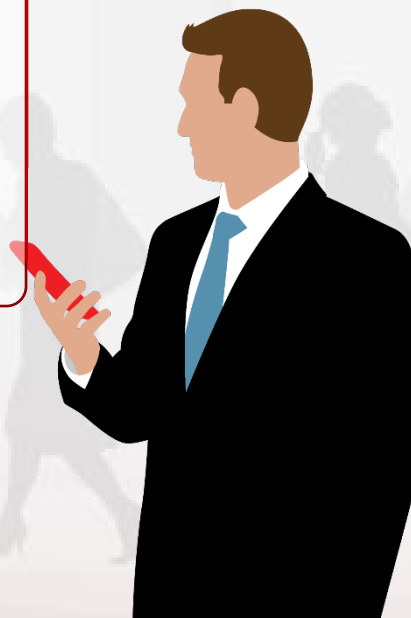
Support from businesses and very high interest in branded calling



United States



Nov. 30, 2021
STIR/SHAKEN
in Canada
Regulator and service provider interest globally
Adaptations are under discussion



Globally

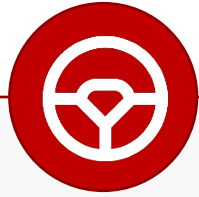


Robotexting and SMS spam/scam
All network signalling needs to be secure



Future

3 key factors for secure, tamper-proof signalling



control

Can you control who you let into the ecosystem?

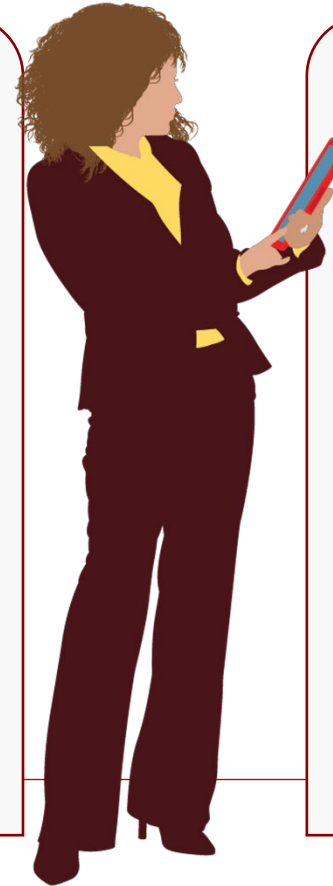
And can you advise legitimate participants how to recognize each other?



certificates

Can you enforce who gives out the certificates that allow participation in the ecosystem?

So impersonators cannot bypass eligibility controls



oversight

Is there ongoing monitoring and a process to revoke certificates in the case of misuse?



let's connect

Chris Drake

cdrake@iconectiv.com

www.iconectiv.com

[@iconectiv](https://twitter.com/iconectiv) 

[iconectiv](https://www.linkedin.com/company/iconectiv) 