



Time to Shake it Up

What Your Need to Know about SHAKEN/STIR Now

**Presented by Matt LaHood of CLA (CliftonLarsenAllen LLP)
and Rick Knight and Jim Brewer of Peerless Network**

**April 6, 2021
2 pm EDT**

Time to Shake it Up: Our Objectives

Today, we'll cover:

- The Who's
- The What's
- The Why's

of SHAKEN/STIR and how it impacts your business.





DID Ownership

FCC 2016 ORDER OPENED OWNERSHIP TO
NON FACILITIES-BASED CARRIERS

Order Authorizes



- Interconnected VoIP Providers (IVPs) and Commercial Mobile Radio Service (CMRS) providers now have the right to apply for approval and receive authorization to register with the Local Number Routing databases as a terminating carrier.
- Registration is administered by iconectiv.
- Registration of authorized carriers is accomplished through the **Business Integrated Rating/Routing Database System (BIRRDS)**.

CLA's Full-Service Consulting and AOCN



CLA provides experienced full engagement management for the regulatory and ongoing administration for all requirements under the AOCN from application to ongoing compliance to the FCC.

- CLA will fulfill all applications and notifications to the federal and state authorities.
- CLA will manage engagement with all required partners and support vendors to complete the requirements of a Local Number Resource.
- CLA will administer all requirements of the administrators of the Public Services Telecommunications Network (Tandem agreements, routing databases, FCC, and State Compliance, Consumer metadata service providers).

Peerless Network: Overview

An Industry Disruptor and an Aggressive Innovator

Proven Provider & Financially Stable

- Over 9 Billion minutes of traffic ride our network each month and we serve 97% of the U.S. Established in 2008, Peerless is fully funded and EBITDA positive.

Network Resiliency

- The Peerless Network architecture was built to deliver unmatched reliability to our customers.

White Glove Customer Approach

- Fully redundant 24x7x365 NOCs in Chicago and Denver
- Project managers assigned to oversee all aspects of the installation
- Account managers serve as a single point of contact for our customers

Industry Leader in Innovation

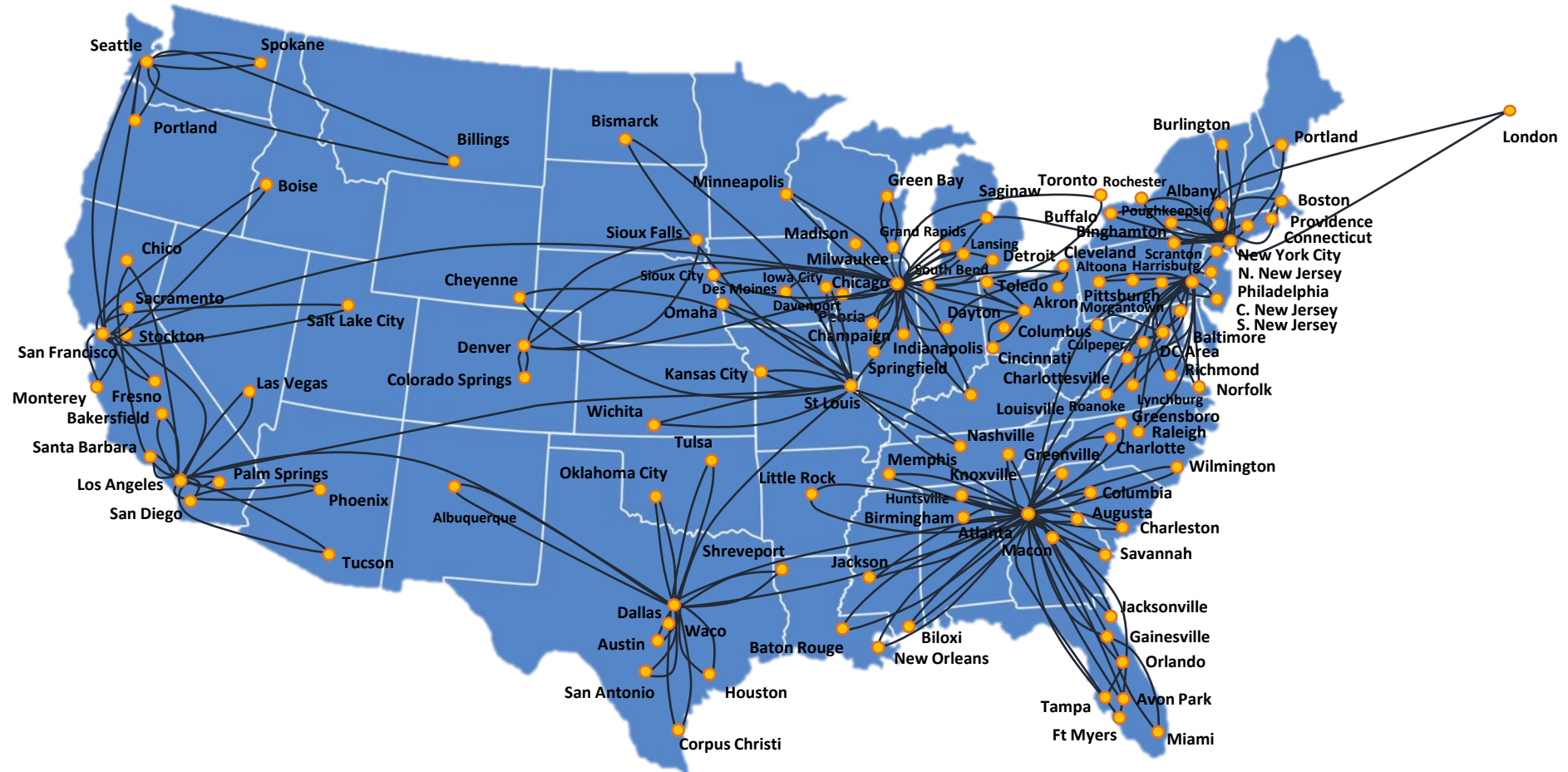
- Peerless Portal provides you and your customers with more control
- Peerless development team continues to innovate and offer cutting-edge technologies to our customers

Proprietary and Confidential



Peerless Network Reach

200+ LATAs, 4,500+ Interconnections and Coverage to over 97% of US



99.999% Network Availability • 9+ Billion Minutes in Use Each Month

Proprietary and Confidential

Peerless Network Enterprise Products & Services

A Full Product Suite of Innovative and Industry-Leading Solutions



UCaaS

Cloud PBX, CPE store



Enterprise SIP Trunks

Registered and Static



Inbound & Outbound Calling

Local, Domestic & International Long Distance



Toll-Free

Termination, Origination



Platform Services

Peerless Portal
Animate Number Management



Telephone Numbers

Local Number Porting,
ANImate



Messaging

SMS and MMS P2P
Messaging



E911, CNAM TN Attributes



CDR's

Call Retail Records



Directory Listings

White Page Listings

What does SHAKEN/STIR mean?



STIR/SHAKEN stands for Secure Telephone Identity Revisited (STIR) and Signature-based Handling of Asserted Information Using toKENS (SHAKEN). These are industry standards for authenticating phone calls by using digital certificates with cryptography techniques to mitigate unwanted robocalls by reducing the impact of caller ID spoofing. The concept allows calls traveling through interconnected phone networks to have their caller ID “signed” as legitimate by originating carriers and validated by other carriers before reaching consumers. Each telephone service provider receives their own digital certificate from a trusted certificate authority to verify that the call is accurate and not spoofed.

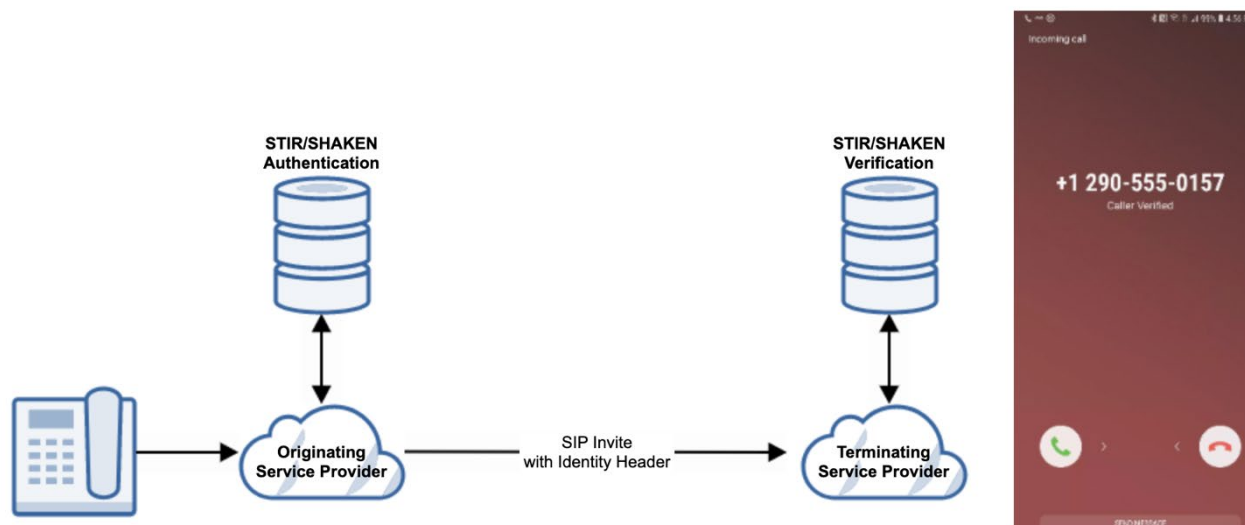
The TRACED act mandates that service providers implement SHAKEN/STIR by June 30, 2021.

How Does SHAKEN/STIR work?



The STIR (Secure Telephone Identity Revisited) and SHAKEN (Signature-based Handling of Asserted information using toKENs) standards create the framework to ensure every SIP-signaled call has a certificate and authenticity attached to it. The SIP headers capture information via the attestation field to authenticate the caller's identity.

- **A:** Full Attestation – The service provider has authenticated their customer originating the call and they are authorized to use the calling number.
- **B:** Partial Attestation – The service provider has authenticated their customer originating the call but cannot verify they are authorized to use the calling number.
- **C:** Gateway Attestation – The service provider has authenticated from where it received the call, but cannot authenticate the call source.



Why is A-level Attestation Important?



Enterprises want the all important “Caller Verified” to display for calls they originate.

Challenge

Some service providers can only provide A-level attestation on calls originating from their own phone numbers.

I’m an enterprise, how can Peerless help?

Peerless can vet an enterprise’s phone numbers and provide A-level attestation on calls from any of the enterprise’s numbers.

I’m an Interconnected VoIP Provider (IVP), how can Peerless help?

Peerless has hosted solutions allowing an IVP to authenticate calls using their own SHAKEN/STIR certificate.



Q&A

We're here to help!

Matt LaHood, Managing Principal, Telecommunications –
CLA (CliftonLarsenAllen LLP)
matt.lahood@claconnect.com
404-220-9764

Rick Knight, EVP Sales & Marketing – Peerless Network
rknight@peerlessnetwork.com
312-506-0925

Jim Brewer, SVP of Emerging Business – Peerless Network
jim.brewer@peerlessnetwork.com
312-506-0921