



Consumer Advisory Committee

Wednesday, June 26, 2024



Opening Remarks

Alejandro Roark

Chief

Consumer & Governmental Affairs Bureau Federal Communications Commission



Guest Speaker 1

Greg BohlChief Data Officer Transaction Network Services



Al in Telcom

Greg Bohl Chief Data Officer TNS Communications



Al Primer

Artificial Intelligence is simply defined as the capability of a machine to imitate intelligent human behavior.

Three stages of Al

Narrow Intelligence – Has a narrow range of capabilities – This is Al today

General Intelligence – Matches human intelligence

Super Intelligence – Exceeds human intelligence

4 types of Al

Reactive Machines – Responds to stimulus - Aircraft autopilot, or Automated factory

Limited Memory - makes informed decisions based on input – Self driving car

Theory of Mind – Emotional intelligence

Self-Aware – Obtains consciousness

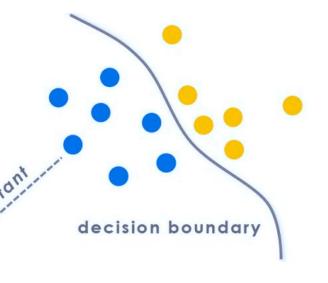
Al Primer

Machine Learning is an enabler of Artificial Intelligence using data and algorithms.

2 Main types of Algorithms

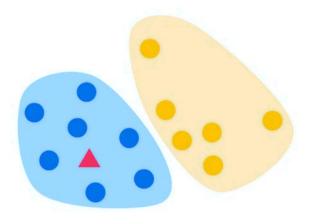
Discriminative

Discriminative models which are also called a conditional models and is what we use to detect spam and fraud.



Generative

Generative models creates things.
Technically they understand how the data is embedded into what they are about, such as language in an LLM. The downside, or risk is that they struggle with handling outliers.



Al Primer

Machine Learning is an enabler of Artificial Intelligence using data and algorithms.

3 Main types of training:

1

Supervised training data is labeled

2

Unsupervised

training data is unlabeled or raw data

3

Reinforcement

reward training, positive or negative, penalty or reward, repeated thousands to billions of times.

Solutions

In Signal verses Call Activation

In Signal applications

 Products and applications which intercept a call and identify the telephone number as potential spam, scam, or fraud to the recipient of the call.

Call activation Applications

 Over the top, Downloadable app, etc. Products which analyze the telephone number as potential spam, scam, or fraud to the recipient once the call reaches its intended recipient. This group also includes applications which "listen in" on the call.

Today's Approaches in Spam and Fraud

Current market suppliers are using Discriminative AI to prevent spam and fraud

- Approaches include Decision Tree, Clustering, Neural Networks
- Algorithms are trained using proprietary data sets with some common elements
- Directory listings and calling volume are used to determine good practices
- Feedback from subscribers typically collected to identify spam/fraud
- Honeypots are used to evaluate performance of spam detectors

High volume low latency are key considerations

- Fraud and scam detection is to be made pre-connect
- Handling traffic from large networks requires low latency

Adaptive learning approaches capture new fraud trends

 Frequent updates to fraud detection methods are needed as spam campaigns are always evolving

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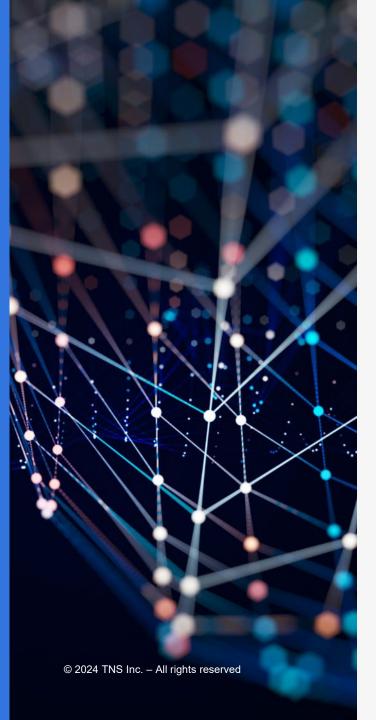
What Is a Deep Fake?

Deep fake images, video and voice can be created using inexpensive or free commercially available tools.

- A deep fake image or video is when someone's face or body has been digitally altered so they appear to be someone else, typically to spread misinformation
- A deep fake voice is a synthetically generated voice to replicate someone's voice, including their volume, pace, tone, pitch and enunciation

"As technology advances, it will become increasingly difficult to identify manipulated media."

Department of Homeland Security Report

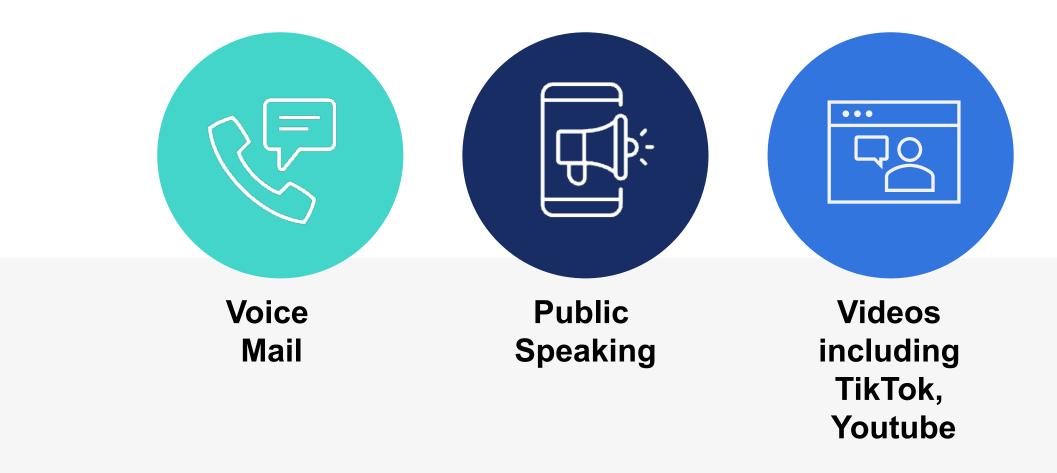


How Are Bad Actors Using AI?

Bad actors leverage generative tools due to the cost and easy access. So, what are they doing exactly?

- Broad Reach—using deep fakes to replicate politicians, celebrities and other public figures
- Narrow Focus—creating a single opportunity using human engineering
 - Commonly uses fear
 - Victims might not have the means to pursue attackers legally
 - Law enforcement has limited bandwidth.

How are bad actors collecting data?



This raw data then gets applied to human engineering



Will video-calling clones be next?

"Delphi, touted as the world's first digital cloning platform, uses data from podcasts, videos, PDFs and other content to develop a clone that can mimic the user's thoughts and speech—and it can take as little as one hour."

NY Post, April 2024

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Applying Current Regulations © 2024 TNS Inc. - All rights reserved

To wrap up, Some thoughts on future regulations



To wrap up,
Some thoughts
on future
regulations



Gen into the detail of Al



What performs harm verses what is beneficial

Thank You

Greg Bohl – <u>gbohl@tnsi.com</u> <u>solutions@tnsi.com</u>

tnsi.com







Consumer Advisory Committee

Questions & Answers



Guest Speaker 2

Raul Rojo

Attorney Advisor

Telecommunications Consumers Division

Enforcement Bureau

Federal Communications Commission

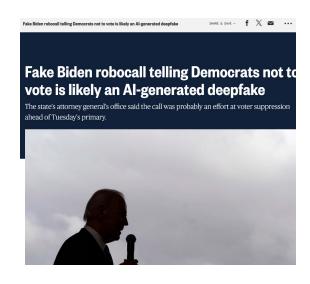
New Hampshire
Al Robocall
Enforcement



Breaking News January 21, 2024









This coming Tuesday is the New Hampshire Presidential Preference Primary We know the value of voting Democratic when our votes count. It's important that you save your vote for the November election Your vote makes a difference in November, not this Tuesday. . .

Investigation

YouMail

Industry Traceback Group

New Hampshire Attorney General's Office

Anti-Robocall Multistate Litigation Task Force

Department of Justice

Tracing the spoofed calls

Lingo Telecom

Life Corporation

Steve Kramer

Steve Kramer

Self described:

- Political Consultant
- Worked in politics since the age of six
- CEO of Get Out The Vote ("GOTV")
- Political robocall veteran



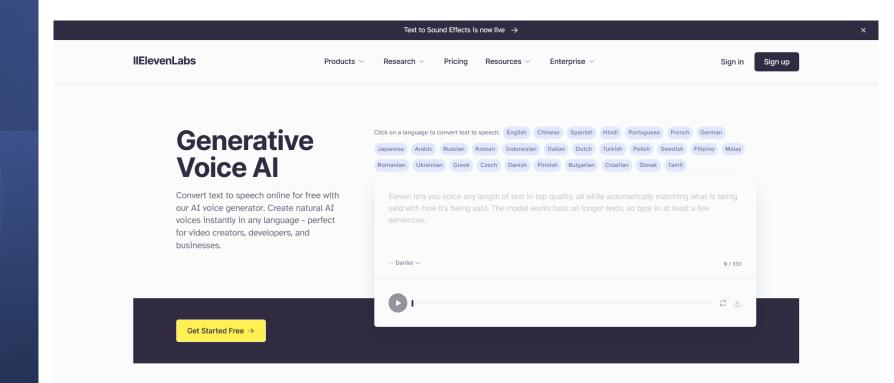
Paul Carpenter

Self described:

- Magician and Hypnotist
- Can escape a straitjacket in less than 11 seconds
- World record holder for spoon bending
- Expert on all things AI



ElevenLabs



Two-Step Enforcement to Protect Consumers

Step 1: Disrupt Calls

- Issue CDL warning service provider
- Issue Public Notice to warn industry about potential bad actor
- Highlight the dangers to the public

Step 2: Hold Responsible Party Accountable

- Issue citations
- Notice of Apparent Liability
- Consent Decree
- Forfeiture Order

FCC Notifies All U.S.-Based Voice Service Providers of Rules Permitting them to Block Lingo Telecom

(k)(4) Public Notice



Federal Communications Commission 45 L Street NE Washington, DC 20554

News Media Information 202-418-0500 Internet: www.fcc.gov TTY: 888-835-5322

DA 24-102

Released: February 6, 2024

ROBOCALL ENFORCEMENT NOTICE TO ALL U.S.-BASED VOICE SERVICE PROVIDERS

FCC Enforcement Bureau Notifies All U.S.-Based Providers of Rules Permitting Them to Block Robocalls Transmitting from Lingo Telecom, LLC

File No. EB-TCD-00036094

By the Chief, Enforcement Bureau:

The Enforcement Bureau (Bureau) of the Federal Communications Commission (FCC or Commission) issues this Public Notice to notify all U.S.-based voice service providers about significant apparently unlawful robocalls originating from or transmitted by Lingo Telecom, LLC (Company or Lingo). Pursuant to section 64.1200(k)(4) of the Commission's rules, we hereby notify all U.S.-based voice service providers that if Lingo fails to effectively mitigate illegal traffic, including the identified traffic described in the cease-and-desist letter listed below and substantially similar traffic, within 48 hours of the date of this Public Notice, U.S.-based voice service providers may block voice calls or cease to accept traffic from Lingo, without liability under the Communications Act of 1934, as amended, or the Commission's rules.²

47 CFR§ 64.1200(k)(4)

Permits downstream providers to block calls from a notified provider that fails to either;

- (a) effectively mitigate the identified traffic within 48 hours or
- (b) implement effective measures to prevent new and renewing customers from using its network to originate illegal calls).

FCC Issues Robocall Cease-and-Desist Letter to Lingo Telecom



FEDERAL COMMUNICATIONS COMMISSION

Enforcement Bureau
Telecommunications Consumers Division
45 L Street, NE
Washington, DC 20554

February 6, 2024

VIA ELECTRONIC DELIVERY AND CERTIFIED MAIL - RETURN RECEIPT REQUESTED

To: Lingo Telecom, LLC
Alex Valencia
Chief Compliance Officer
9330 LBJ Freeway
Suite 944
Dallas, TX 75243
alex.valencia@lingo.com

Re: Notice of Suspected Illegal Traffic

Dear Mr. Valencia.

Lingo Telecom, LLC (Lingo or Company)¹ is apparently originating illegal robocall traffic. The Enforcement Bureau (Bureau) of the Federal Communications Commission (FCC or Commission) provides this letter as notice of important legal obligations and steps Lingo must take to address this apparently illegal traffic. Failure to comply with the steps outlined in this letter may result in downstream providers permanently blocking all of Lingo's traffic.

I. Background

On Sunday, January 21, 2024—two days before the New Hampshire Presidential Primary Election—individuals began receiving calls that played an apparently deepfake² prerecorded message from a voice that was artificially created to sound like U.S. President Joseph R. Biden, Jr.³ According to

Lays out specific steps provider MUST take to avoid further enforcement action.

- A) Provider must Investigate the identified robocalls within 48-hours.
- Block the robocalls <u>and</u> any substantially similar robocalls within 14 days.
- C) Report back certifying that it is blocking the traffic and a description of its plan to identify and block similar traffic.

FCC Proposes a \$6M
Fine against Steve
Kramer for Generative
Al Robocalls that
Imitated President
Biden

Federal Communications Commission

FCC 24-59

Before the Federal Communications Commission Washington, D.C. 20554

In the Matter of)	
)	File No.: EB-TCD-24-00036094
Steve Kramer)	NAL/Acct. No.: 202432170005
	j	FRN: 0035440791
	j	

NOTICE OF APPARENT LIABILITY FOR FORFEITURE

Adopted: May 23, 2024 Released: May 24, 2024

By the Commission: Chairwoman Rosenworcel and Commissioners Starks and Gomez issuing separate statements.

I. INTRODUCTION

- 1. We propose a penalty of \$6,000,000 against Steve Kramer (Kramer) for perpetrating an illegal robocall campaign targeting potential New Hampshire voters two days before the state's 2024 Democratic Presidential Primary Election (Primary Election) in apparent violation of the Truth in Caller ID Act of 2009, which is codified at section 227(e) of the Communications Act of 1934, as amended (Communications Act), and section 64.1604 of our rules. Kramer's illegal robocalls carried a deepfake generative artificial intelligence (AI) voice message that imitated U.S. President Joseph R. Biden, Jr.'s voice and encouraged potential voters not to vote in the upcoming Primary Election (Deepfake Message). The caller identification (caller ID) information was inaccurate and misleading as the calls transmitted the telephone number associated with a prominent New Hampshire political operative (NHPO); in reality, Kramer—without the knowledge or consent of the individual identified in the caller ID—was responsible for the spoofed robocalls.
 - 2. Following an extensive investigation by the Federal Communications Commission's

Federal Communications Commission

FCC 24-60

Before the Federal Communications Commission Washington, D.C. 20554

In the Matter of)	
)	File No.: EB-TCD-24-00036425
Lingo Telecom, LLC)	NAL/Acct. No.: 202432170004
)	FRN: 0035440734
)	

NOTICE OF APPARENT LIABILITY FOR FORFEITURE

Adopted: May 23, 2024 Released: May 28, 2024

By the Commission: Chairwoman Rosenworcel and Commissioners Starks and Gomez issuing separate statements; Commissioners Carr and Simington concurring and issuing separate statements.

. INTRODUCTION

- 1. Following an investigation by the Federal Communications Commission's (Commission or FCC) Enforcement Bureau (Bureau), we propose a penalty of \$2,000,000 against Lingo Telecom, LLC (Lingo or Company) for applying incorrect Secure Telephone Identity Revisited and Signature-based Handling of Asserted information using toKENs (STIR/SHAKEN) attestations in apparent violation of section 64.6301(a) of the Commission's rules.¹ Specifically, Lingo, in a failure to utilize reasonable "Know Your Customer" (KYC) protocols, applied incorrect STIR/SHAKEN attestations to spoofed robocalls carrying a deepfake² generative artificial intelligence (AI) voice message purporting to be from the president of the United States (Deepfake Message) that targeted New Hampshire primary election voters two days before the state's 2024 Democratic Presidential Primary Election (Primary Election). The Deepfake Message told primary election voters not to vote in the upcoming Primary Election.
- 2. The STIR/SHAKEN framework allows for the authentication and verification of caller identification (ID) information and is a vital tool designed to give consumers more confidence that caller ID information is accurate. The last two decades have seen a proliferation in the misuse of spoofing technology by malicious actors as a means of evading liability for illegal robocalls and other abusive communications. Accordingly, restoring the reliability of caller ID information is a top consumer protection priority for the Federal Communications Commission (Commission or FCC). In recent years, the Commission has undertaken multiple proceedings to ensure rapid adoption of the technology required to bring STIR/SHAKEN to telecommunications networks across the country.³ The framework uses three





Consumer Advisory Committee

Questions & Answers





Consumer Advisory Committee

Lunch Break

Please rejoin the live broadcast at 1:15 PM EDT



Working Group 1: Technical Updates

John Breyault Vice President, Public Policy, Telecommunications and Fraud National Consumers League





Consumer Advisory Committee

Questions & Answers



Working Group 2: Outreach Updates

Claudia Ruiz Civil Rights Analyst UnidosUS





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Public Comment

Please submit your comments to LiveQuestions@fcc.gov



THANK YOU

Consumer Advisory Committee