

ASSERTION[®]
a voice security company

Secure Voice

A Voice Communication Layer Security Solution

Protecting Global Enterprise from Scam, Robocalls ,
Toll Fraud and Cyber Attacks through AI based Call &
Registration screening in real-time.



November 2025

OpenAI's Sam Altman warns of AI voice fraud crisis

July 22, 2025



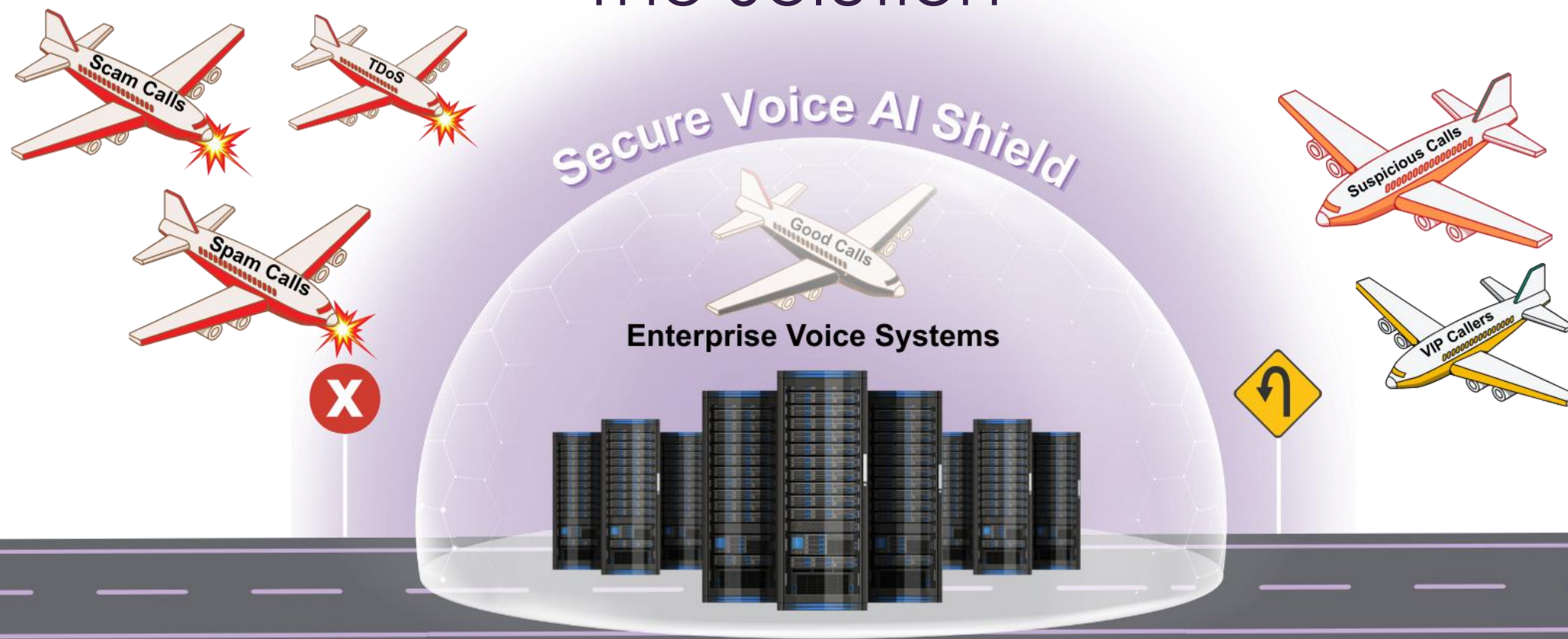
OpenAI CEO Sam Altman warned the financial industry of a “significant impending fraud crisis” because of the ability of artificial intelligence tools to impersonate a person's voice to bypass security checks and move money. In a meeting with Federal Reserve, July 22, 2025

https://www.wfmz.com/business/openais-sam-altman-warns-of-ai-voice-fraud-crisis-in-banking/article_e802a003-dca4-5e06-bbff-90efbc169cb6.html

Attacks are real and so are attackers



The Solution



Screen all incoming & outgoing calls



Detect anomalies and custom parameters with AI



Block bad calls. **Tag & redirect** VIP or suspicious calls to trained agents

How Assertion Secure Voice is Better Than Competition?

AI Enabled Call Screening

- Use 12 different AI algorithms to screen and block or tag robocalls, scam and other voice threats.
- Self-learning AI models minimize error rate over time.

Voice CAPTCHA

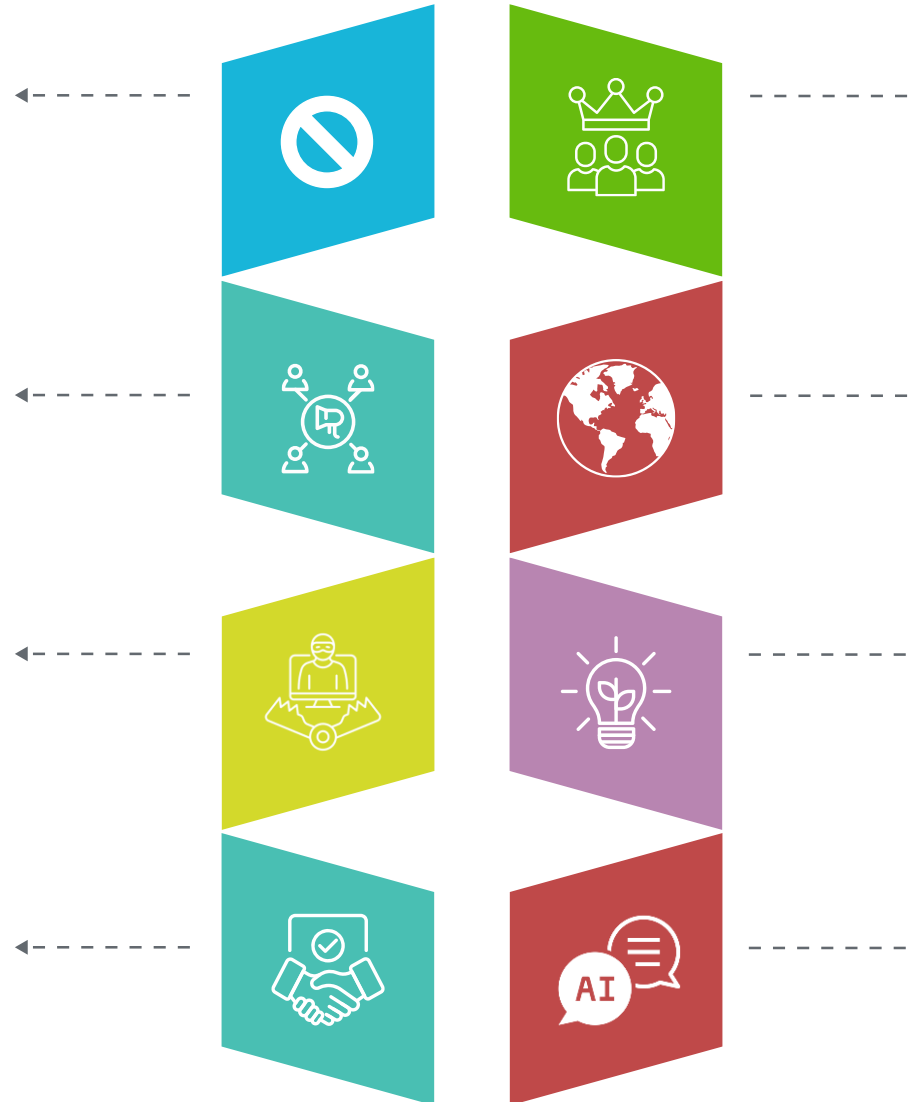
- Second level filter to screen suspicious or first-seen callers.
- Uses dynamic CAPTCHA patterns to ensure maximum efficiency.

Remote Worker SBC Security

- Automatically detect & block attacks on the remote worker SBCs.
- Prevents disruption, overload, and data leakage.

Compliance Enforcement

- Enforce Block list, OFAC, & Geo-fencing rules on inbound and outbound calls.
- Adhere to local and global rules to avoid costly regulatory penalties.



Healthcare Proven

- Stop Robo & predatory calls to patient rooms
- Call to report spam for improved UX from patient room & nursing station.
- Detect & prioritize call from CMS auditors to help improve CMS STAR rating.

Take custom action using Agentic AI

- Use AI agents to respond to threats when certain criteria is met.
- Model business rules into workflows within minutes!

Honey Pot*

- Traps attackers to learn from them, constantly improving the AI algorithms.
- Human review of these recordings to fine tune the call screening AI.

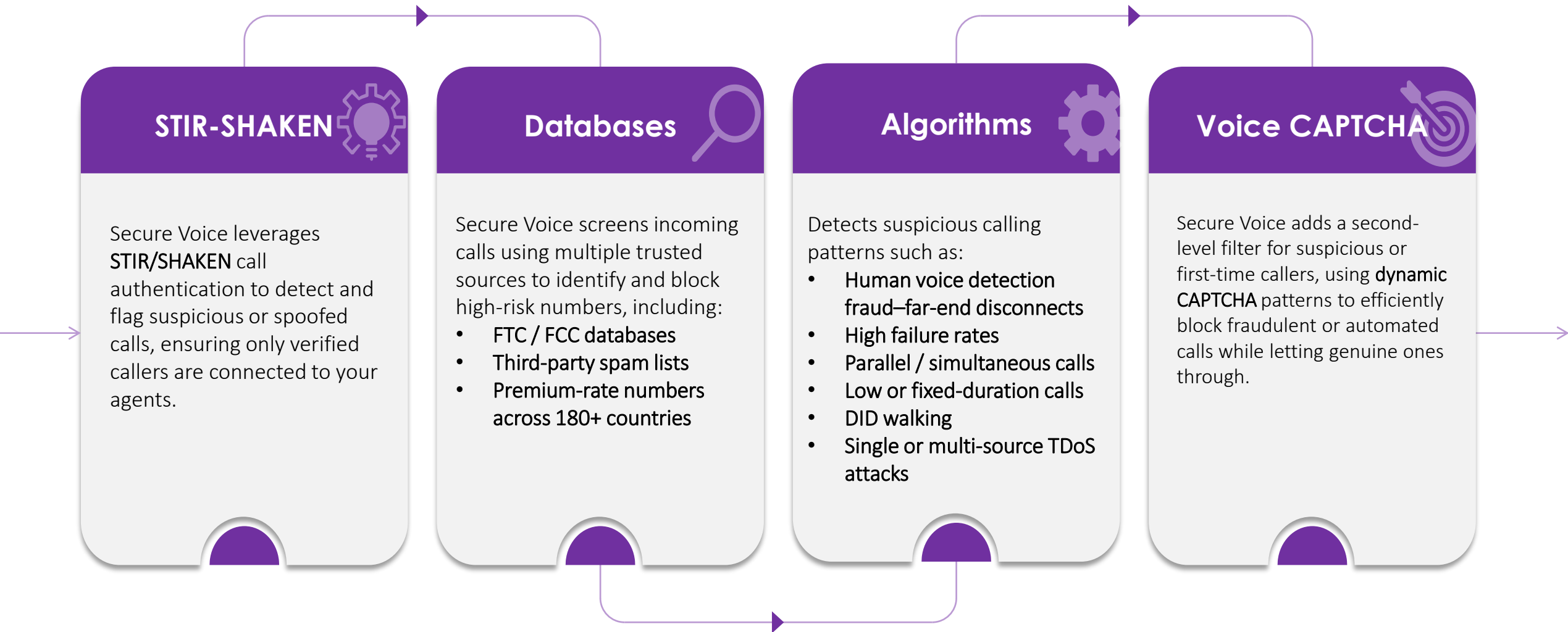
Traffic Visibility with AI Chat*

- Complete traffic visibility with threshold-based alerting at individual trunk level.
- Chat with the system to get insights on traffic, incidents and more.

*Upcoming

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AI Enabled Call Screening + Voice CAPTCHA



Remote Worker SBC Security

Every minute we allow the attacker to spend inside our network, the higher the risk of them committing financial fraud or data theft.

Before Assertion Secure Voice

Inability to detect an attack, let alone block the attacker. These attacks usually happen during lean hours when attackers get a lot of time to poke around and cause damage.



After Assertion Secure Voice

In near real-time of detecting the attack, Assertion automatically blocks the attacker's IP on the SBC's firewall. This reduces risk of damage.



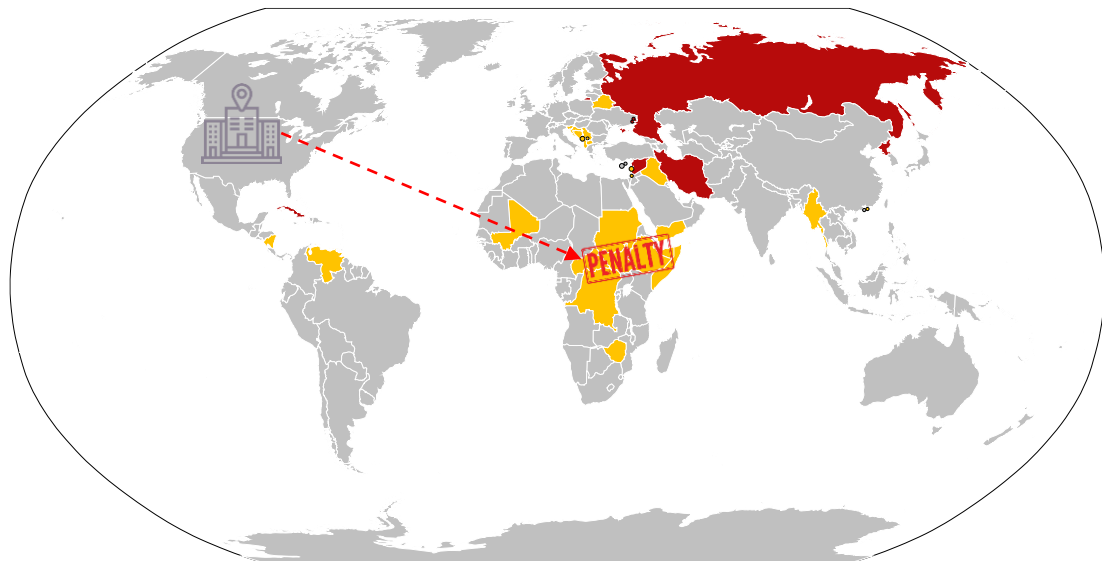
Compliance Enforcement

In this current geo-political world, Governments can order communications to be blocked to certain countries.

Sanctions violations could start from \$90,000 per incident and DNC violation costs \$50,000 per incident.

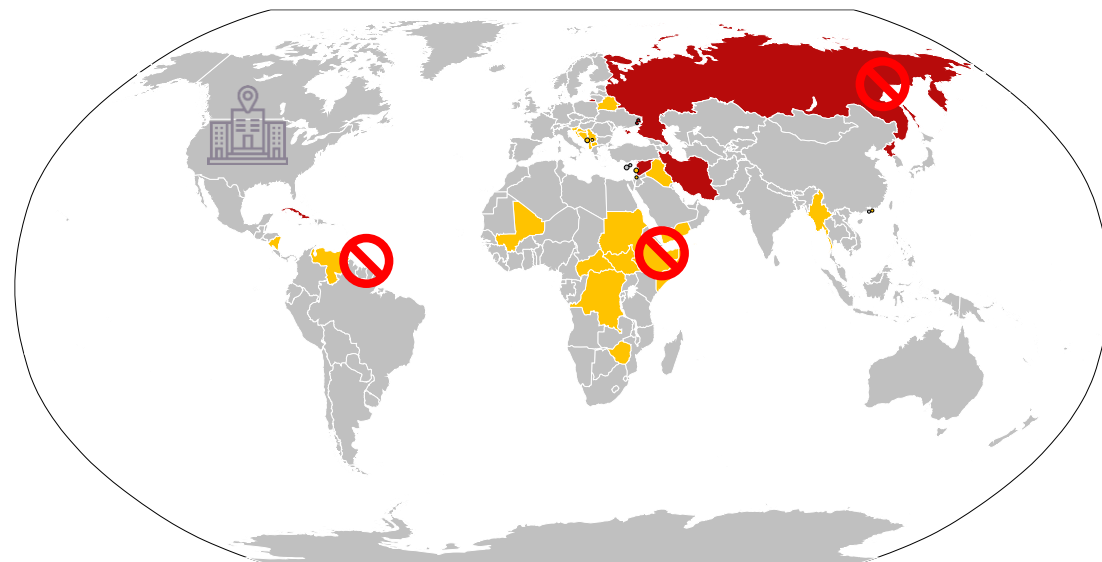
Before Assertion Secure Voice

No central place to enforce OFAC, Geo-fencing and DNC rules across complex setup. No alerts on call attempts.



After Assertion Secure Voice

Strict enforcement of call blocking rules eliminates risk of non-compliance by up to 99%. Single point of enforcement and reporting.



Healthcare Specific Features

Ensure a CMS 5-star Rating

CMS auditors' mystery shop to rate customer experience, a 1 in 3 weightage determining the rating.



Assertion AI detects the auditor's call and notifies the agent via IM. So that agent provides great customer service, earning kudos from the mystery shopper.

Detect & Report Patient Room Spam with Ease

Spam and robocalls target hospital switchboards and patient rooms with fraudulent pitches or alerts.



Assertion detects spam & let's hospital choose to block, redirect or flag these calls. Calls can be reported by dialing a predestined number over an IVR to help nurses focus on their jobs

Block Calls from Familiar or Spoofed Numbers

Customers & Staff usually mistake calls that look familiar to the business they deal with and give out sensitive info

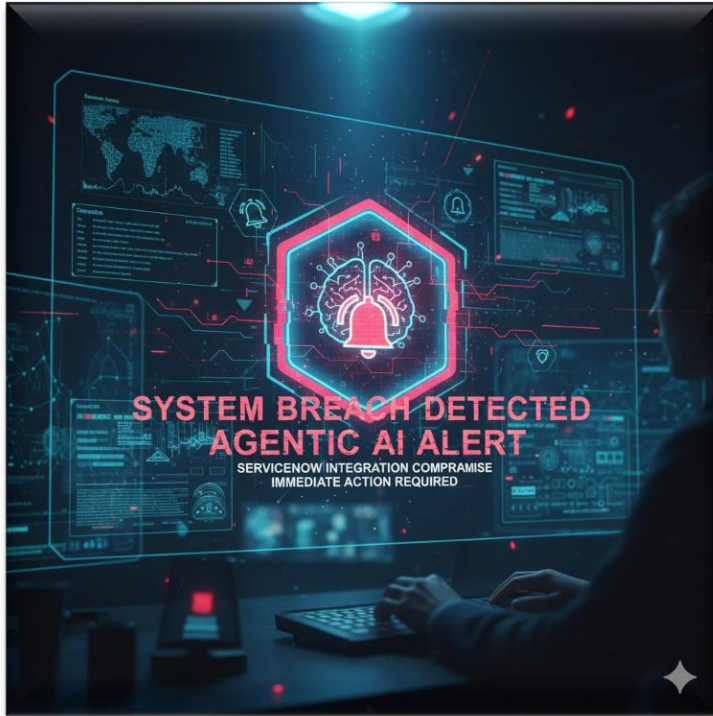


Assertion screens calls in real-time, analyzing calling patterns to detect abnormal activity, and flag or block suspicious calls and identifies calls from numbers that resemble the internal range

Take Custom Action Using Agentic AI

Raise Event on ServiceNow / Pager Duty

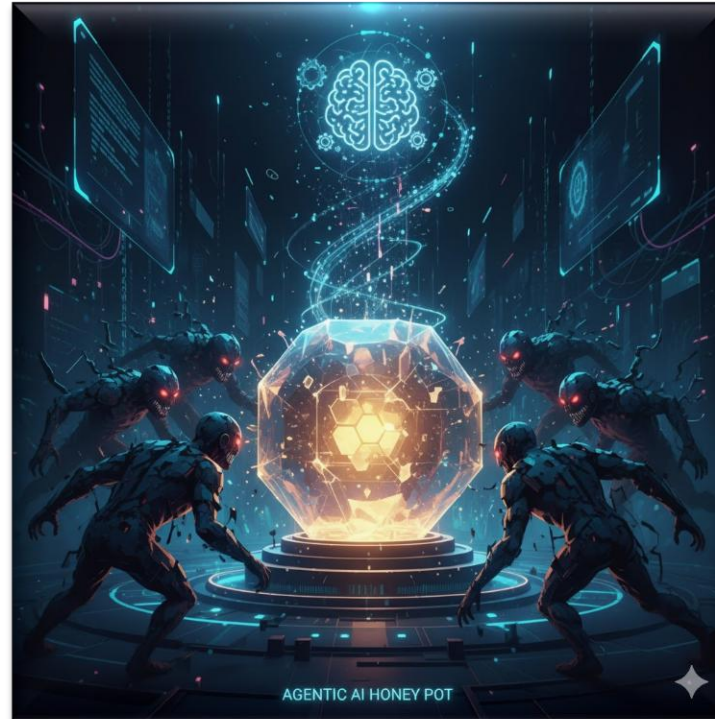
Need to identify a real attack and act on it fast



Assertion AI detects that the SBC is under attack and immediately opens a ticket in your ticketing system with the collected evidence triggering the escalation.

Private Honey Pot to Trap and Learn About Attackers

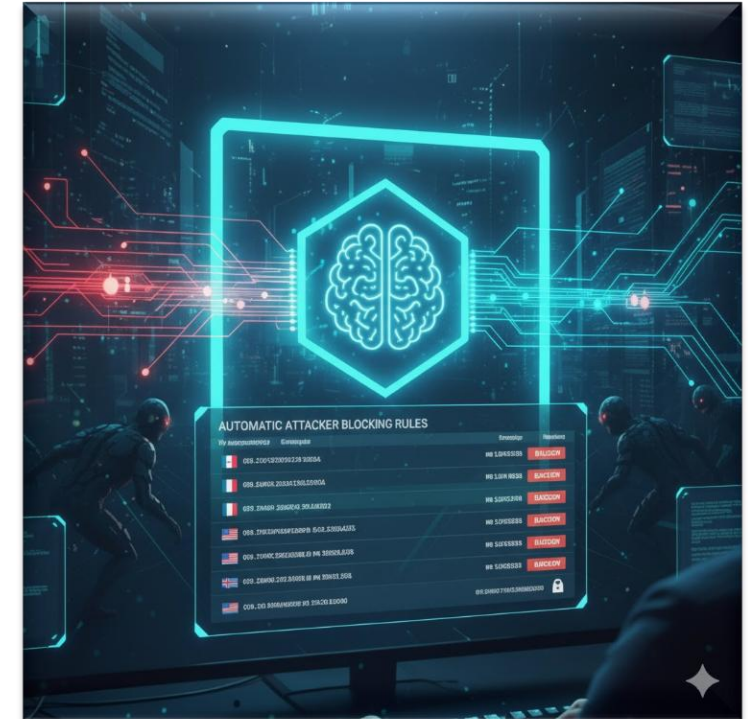
Growing spam and scam threats using AI-based voice



Set the Honey trap behind unused numbers to lure scammers and robo callers in. Understand the calling pattern and improve spam detection based on the learnings.

Automatic Firewall Rule to Block Attacker

Every second counts when you are being attacked



Assertion AI attempts to mitigate the attack by automatically blocking the IP of the attacker in the firewall (ahead of the SBC) in near real-time. It updates the ticket with the action taken.

Traffic Visibility with AI Chat

Call Traffic (last 24 hours)



Secure Voice AI Bot

You
How many inbound and outbound calls were made in the last month?

Secure Voice AI Bot

- Total calls: 3,853,890
- Inbound calls: 3,163,402
- Outbound calls: 690,488

Secure Voice AI Bot

You
Can you group calls by call duration?

Secure Voice AI Bot

- 0-1 min: 258,584 calls (6.7%)
- 1-2 min: 2,081,655 calls (54.0%)
- 2-3 min: 635,829 calls (16.5%)
- 3-5 min: 461,230 calls (12.0%)
- 5+ min: 416,592 calls (10.8%)

Secure Voice AI Bot

You
What was the total duration in minutes and the average per call?

Secure Voice AI Bot

- Total duration (min): 10,139,061
- Average call duration (s): 169.20

Assertion Secure Voice - Customer Success Stories

Major Hospital Network



Helped eliminate spam and predatory calls to over 6000 patient rooms in the 25+ hospital network. Improved reputation, patient experience and nurse productivity.

Healthcare



Helped eliminate the risk of toll fraud, spam and TDoS. With calls coming in from emergency rooms, the system uses an extensive allow/deny list and AI based filters to be accurate and fast.

Outsourcers



Helped with AI enabled call detection of “mystery” CMS auditors which alerts agents & supervisors in real-time on MS Teams & strobe light. This helps them provide excellent service to the auditors and improve the CMS star rating for their clients.

Telecom Service Provider



Monitors, detects and blocks all attacks on their external facing SBCs in near real-time, ensuring a safer environment for their 300+ hosted UCaaS enterprise customers.

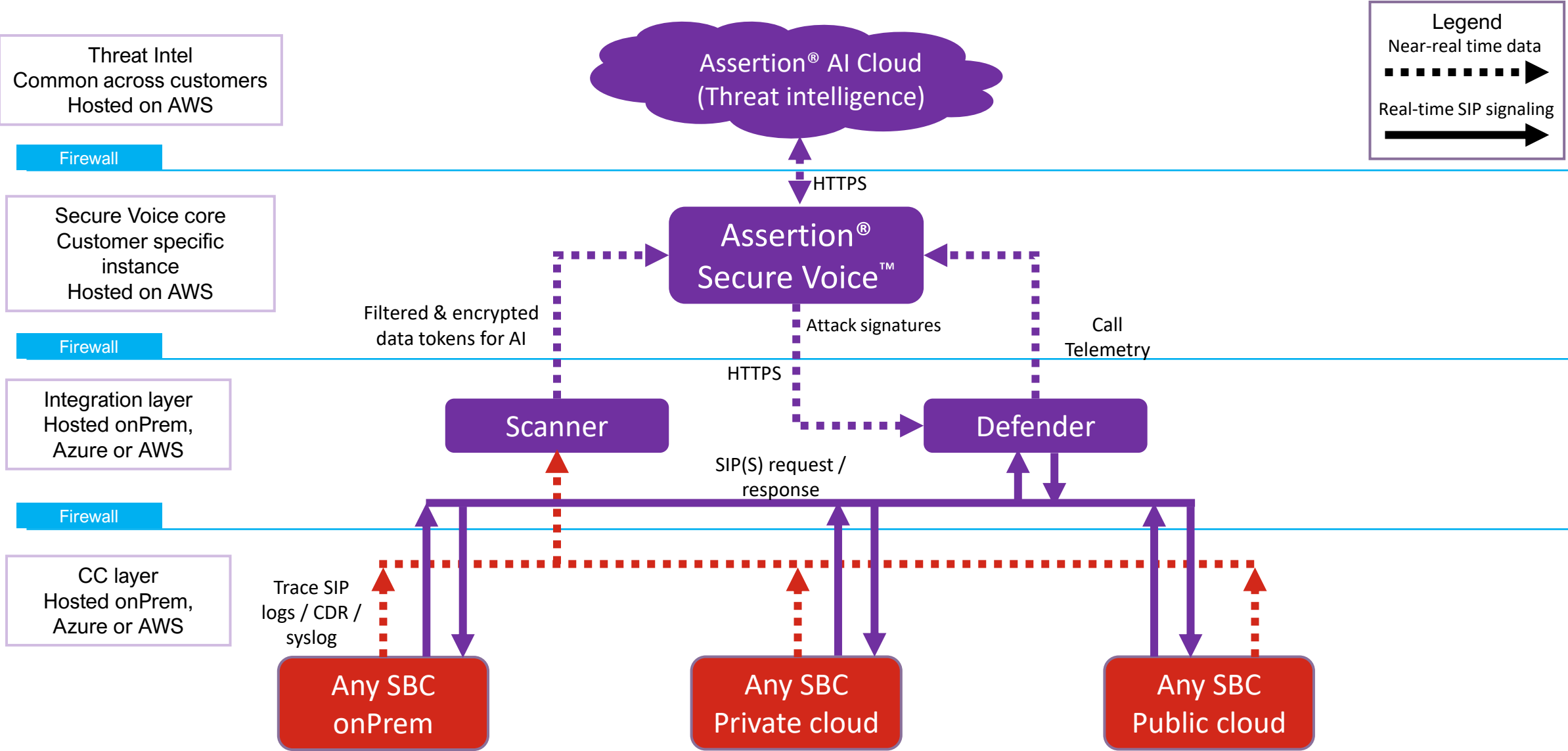
Government



Geo-fence the voice network to within the country so that external actors are blocked at the entry point itself, making the government infrastructure secure.

**Achieve Your Success
By Securing Your Voice
Communication Layer**

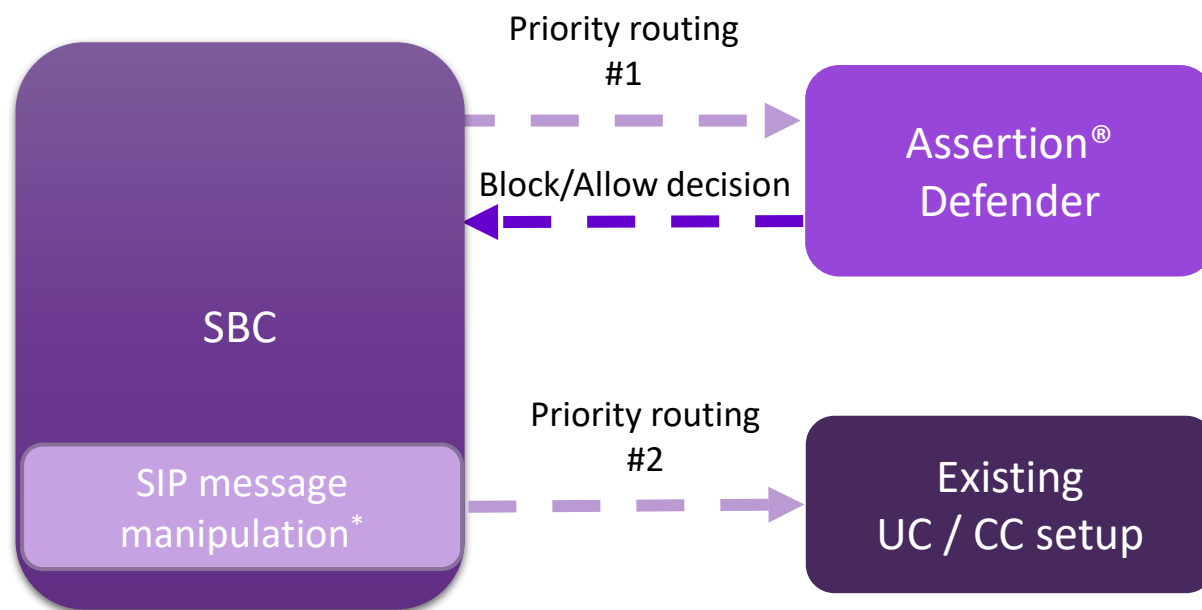
Architecture - Remote worker security & Call screening for transformation customers



Defender is consulted during call setup and allows / redirects / blocks calls. It is not on signaling path of connected calls and is never in the media path.

SIP call flow

Add Defender as the first routing point on all internal routes, pushing down the priority of existing destinations.



SIP message manipulation rule is done to update the display that is presented to the endpoint. This is done based on the call reputation.

Defender response codes:

502 For allowed calls, Defender uses the failover routing capability of the SBC to move the call to the next hop (UC / CC setup).

302 For calls that need to be flagged, Defender uses the 302 handling capability of the SBC to move the call to the next hop (UC / CC setup).

603 For calls that need to be blocked, Defender returns 603 so that SBC can reject the call.

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Thank You

