SIP · SIPREC · HEP · 100% SELF-HOSTED

VoxyWatch

SIP observability built for telecom teams.

Detect anomalies per trunk, understand SIP issues, and accelerate incident analysis — with AI applied to telecommunications, on your own server.

Sales presentation · 2026 · voxywatch.com

THE PROBLEM

Your customer detects the failure before your NOC does

The customer calls first

A trunk silently degrades ASR from 90% to 70%. Global thresholds never see it. The ticket comes from the customer, not from monitoring.

Hours per incident

Wireshark, grep on the SBC, manual captures and correlation by hand. Every incident burns hours of a senior engineer's time.

Escalating to the vendor

Without your own evidence, diagnosis ends in a ticket with the SBC vendor: days of waiting and zero control.

Zero inter-carrier visibility

Which carrier is degrading? Which destination is failing? Without per-trunk and per-country attribution, it's all opinion, not evidence.

THE SOLUTION

From a SIP packet to the action your NOC needs to take

VoxyWatch captures, attributes, learns and explains — all in one self-hosted binary that installs in 60 seconds.

CAPTURE

Native HEP from your SBC — no TAPs, no SPAN, no touching the network.

→

ATTRIBUTE

Every call mapped to its carrier (IP/CIDR) and destination country (E.164, 197 codes).

→

LEARN

Per-trunk auto-baselines: each trunk learns its own normal (mean ± σ per hour).

→

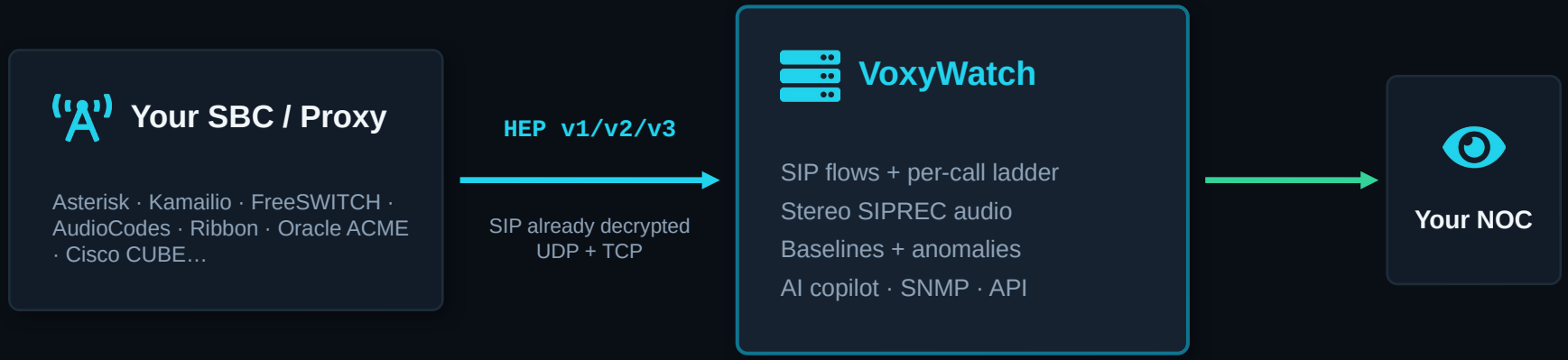
EXPLAIN

AI copilot: probable cause + NOC action. Assists, never executes.

The result: your NOC knows which trunk, what cause, and what to do — before the customer calls.

HOW IT WORKS

HEP-native architecture: no TAPs, no SPAN, no risk



No extra hardware

The SBC sends the signaling it already has, decrypted, via HEP. You never touch the media plane.

Source can't speak HEP?

voxywatch-probe (Go + libpcap, amd64/arm64) or a HEPlify sidecar solves it.

Works with 15+ SBCs

Any HEPv3 sender works instantly; the wiki has the exact guide per model.

CAPABILITIES

Everything your NOC needs, in a single platform

Universal multi-source capture

HEP v1/v2/v3 (UDP/TCP) from every major SBC + our own probe for the rest.

Carrier & country intelligence

Automatic attribution by IP/CIDR and destination country (E.164 engine, 197 codes). ONNET flagged separately.

Per-trunk auto-baselines

Each trunk learns its own normal. Catches the silent drifts global thresholds miss.

NOC AI copilot (BYOK)

Probable cause + suggested action with your own API key (OpenAI, Anthropic, Gemini, OpenRouter).

Embedded SNMP + REST API

v2c/v3 agent, 30+ OIDs, traps, downloadable MIB. Plugs into PRTG, Zabbix, Nagios. Read-only /v1 API.

SIPREC audio + SIP ladder

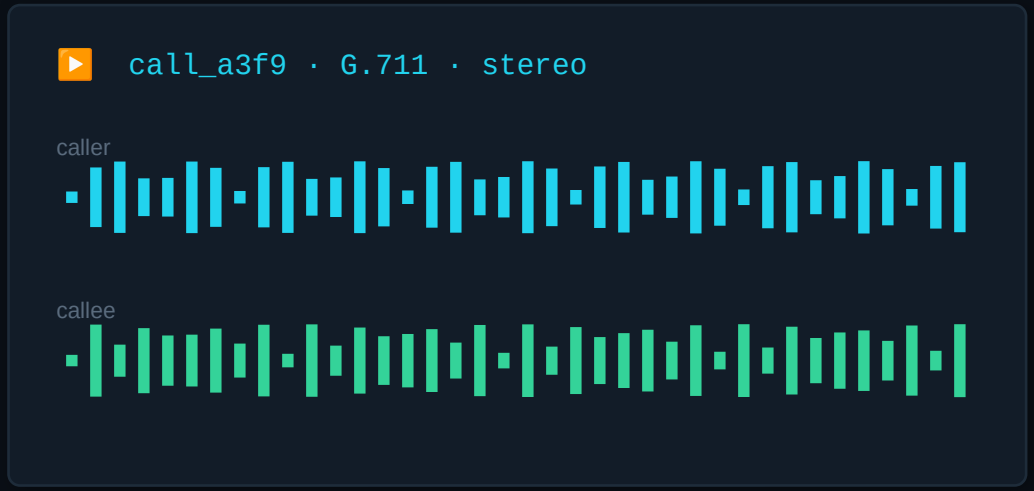
Stereo reconstruction playable in the browser, ladder diagram and per-call PCAP.

Live metrics: ASR · NER · ACD · MOS (E-model) · PDD · jitter · packet loss — per trunk and destination, in real time.

DIFFERENTIATOR

Hear the evidence: reconstructed SIPREC audio

When the customer says “I couldn't hear anything”, your NOC plays back the call — caller and callee on separate channels, right in the browser.



Stereo, per channel

Isolate exactly where the callee's audio dropped, cross-checking jitter and RTCP.

G.711 / G.722 codecs

Reconstruction from RTP/SIPREC without touching the SBC or the media plane.

PCAP + WAV + CSV + JSON

Export complete per-call evidence for audits or carrier disputes.

HOMER OSS doesn't reconstruct audio. VoxyWatch does — that's the difference between guessing and proving.

COMPLIANCE

Built for PCI-DSS environments

When your customers dictate card numbers by phone, sensitive RTP is dropped at the source: payment audio never travels the network and never reaches VoxyWatch.

Strictest scope reduction

The Probe drops the RTP of the payment window at the source — the smallest possible PCI scope for your deployment.

Hot-reload via JSON

Add or remove SSRCs in pci_suppress.json — applied within seconds, no restart, no service window.

Defense in depth

Portal-side suppression too: a misconfigured Probe entry is caught server-side before storage.

CRM-friendly

Your contact-center system writes the SSRC entry when the agent triggers pause; resume removes it. No new infrastructure.

WHO IT'S FOR

Designed for the teams that run real voice networks

Carriers

The NOC view across every interconnect: ASR/NER per route, anomaly detection per trunk, 5xx surges flagged as they happen.

ITSPs

Per-customer visibility, per-destination quality, carrier attribution by E.164 — and audio when you need to prove what was on the line.

UCaaS providers

Auditable voice quality per tenant: MOS, jitter, loss, PDD. Spot degradations before customers escalate.

Integrators & MSPs

Diagnose calls without escalating to the SBC vendor. Cross-platform, evidence-based incident analysis.

WHERE IT FITS

VoxyWatch vs. the alternatives

Built for 24/7 NOC observability. It complements — not replaces — packet tools like Wireshark.

	VoxyWatch	HOMER OSS	SBC dashboards	Wireshark
Self-hosted	✓	✓	—	✓
HEP v1 / v2 / v3	✓	✓	~	~
E-model MOS	✓	✓	~	—
SIPREC audio reconstruction	✓	—	~	—
Built-in AI copilot	✓	—	—	—
Per-trunk baselines & anomalies	✓	—	~	—
Single-binary install (60 s)	✓	—	—	✓
Forensic packet inspection	~	~	—	✓

Yes, Wireshark wins at deep forensics — and that's fine: VoxyWatch exports the per-call PCAP so you can open it right there.

USE CASES

From theory to diagnosis in minutes

01

Debug a carrier interconnect

Filter by status = failed, open any call, and the SIP diagram shows INVITE → 100 → 486. Root cause confirmed in under 5 minutes.

02

Audit SIPREC recordings

Reconstruct the audio, listen per channel and cross-check jitter with RTCP to pinpoint exactly where the callee audio dropped.

03

Validate a new SBC

Make test calls and confirm they appear with correct numbers, high MOS and clean diagrams — before going live.

Mean time per incident: **from hours with Wireshark + grep, to minutes with cited evidence.**

PRIVACY & DEPLOYMENT

100% self-hosted. Installed in 60 seconds.

Your data never leaves

No cloud, no telemetry, no call-home. The only optional egress is the AI copilot — with YOUR API key, to YOUR provider.

Offline licensing

RSA-signed keys bound to your hardware. Validates without Internet. No dependency on our servers, ever.

Signed, verified packages

.deb/.rpm releases signed with GPG + SHA-256. JWT, RBAC, SSO via OIDC (Google, Microsoft, Okta, Keycloak, Auth0).

Genuinely lightweight

Runs comfortably on a modest server. Lifetime free tier: 50 concurrent calls, every feature, no card.

```
curl -fsSL https://raw.githubusercontent.com/VoxyWatch/publish/main/install.sh | sudo bash
```

PRICING

Simple pricing, per server

🔒 **Launch pricing: subscribe today and keep this rate for as long as your subscription stays active.**

Free

$0

forever

- ✓ 50 concurrent calls
- ✓ 1,000 CDRs
- ✓ All features
- ✓ Community support

1 month

~~$399~~ **$199**

≈ $199/mo

- ✓ 5,000 concurrent calls
- ✓ Unlimited CDRs
- ✓ All features
- ✓ Ticket support

MOST POPULAR

1 year

~~$3,990~~ **$1,990**

≈ $166/mo · 2 months free

- ✓ 5,000 concurrent calls
- ✓ Unlimited CDRs
- ✓ All features
- ✓ Ticket support

2 years

~~$7,160~~ **$3,580**

≈ $149/mo · 6 months free

- ✓ 5,000 concurrent calls
- ✓ Unlimited CDRs
- ✓ All features
- ✓ Ticket support

6 months: ~~$2,199~~ **$1,099** · Telco / Enterprise (>5,000 lines): quoted, invoice/PO billing and SLA → contact@voxywatch.com

All features in every plan · Per-server license (hardware-bound) · Secure payment via Paddle

START TODAY — FREE, NO CARD

Start seeing your calls today.

No cloud. No SaaS. No card. Deploy VoxyWatch on your own server and get carrier-grade SIP visibility in 60 seconds.

1 Install the free tier

One command line. 60 seconds. Every feature included.

2 Point your SBC

Send your SBC's HEP to VoxyWatch — per-model guide in the wiki.

3 See your voice network

Trunks, baselines, anomalies and audio — from the first minute.

```
curl -fsSL https://raw.githubusercontent.com/VoxyWatch/publish/main/install.sh | sudo bash
```

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