



A N E T C A L L

Realtime PTT Communication Platform

Mission-Critical Communication for the Enterprise

Self-Hosted Multi-Terminal Per-Seat License

Enterprise Comms Faces Three Challenges

01

Dispatch isn't real-time

Toggling phone, IM and SMS kills response time. Key contacts get lost in noisy group chats. There is no "press-to-talk" instant channel when it matters most.

02

Data is not sovereign

Public-cloud comms platforms expose call content, identities and dispatch logs. Regulated industries demand data that never leaves the enterprise boundary.

03

Terminals are siloed

Phones, PCs, walkie-talkies and vehicle radios all live as islands. Multi-vendor hardware cannot be unified. Cross-terminal sync and org-level operation are missing.

The industry needs an integrated "self-hosted + realtime PTT + cross-terminal" platform.

Anetcall — Integrated Realtime PTT Platform

Clients

Android Native

iOS Native

RTOS Terminals

HarmonyOS (Dev)

Anetcall Server

Realtime Messaging

PTT Dispatch

Org Management

Recording & Audit

Self-Hosted

Customer DC

Private Cloud

Edge Nodes

Hybrid

Sub-100 ms Realtime PTT



Hold to Talk

Press to speak, release to stop

Half-Duplex Floor Arbitration

The server arbitrates the speaking floor; one speaker, many listeners; configurable max burst.

Emergency Priority & Preemption

Emergency roles can preempt normal traffic; emergency events broadcast platform-wide.

Late Entry

Members joining mid-burst immediately hear the active speaker — no missed orders.

Server-Routed Audio

All audio routed via the server, enabling recording, audit, and dispatcher replay.

Text & Voice Messages, Synced in Realtime



Realtime Text

Millisecond delivery; emoji, quoted replies.



Voice Messages

Hold to record; durable file storage; multi-terminal playback and resume.



Multi-Terminal Sync

Persist-then-fan-out; reconnect catches up missed events.



Recall & Edit

Manual and timeout auto-recall; server holds the canonical state.



Typing Status

Configurable visibility; synchronized across devices.



Scheduled Reminders

Server-side scheduler; survives service restarts.

Built for Organized Operation

1

Organization Units

By department, project, or geography

2

Talkgroups

direct / group / allcall modes

3

Member Roles

Member · Supervisor · Dispatcher · Emergency

4

Admin Console

Dedicated admin web for unified dispatch

Admin-Driven Unified Operation

- Admin-created accounts; public self-registration disabled
- Talkgroups scoped to org units; clear permission boundaries
- Dispatchers can force-listen, force-release, broadcast emergencies
- All operations logged and auditable
- Multi-org / multi-tenant ready

End-to-End Security & Compliance



Admin-Created Accounts

Public self-registration is disabled; account lifecycle is admin-controlled.



Device-Scoped Sessions

Sessions bound to devices; token auth; one model across all channels.



Full Interface Validation

Identity, authorization, payload, state, size and media format — every external interface is validated.



Recording & Audit

Optional server-side PTT recording; exportable operation logs for compliance.



End-to-End Encryption

All channels TLS-encrypted; short-lived credentials; minimal exposure.



Minimal Attack Surface

Internal services stay private; only the reverse-proxy edge is publicly reachable.

One Platform · Multiple Native Terminals



Android Native

Kotlin · Foreground Service

Native PTT control plane, hardware key mapping, battery policy, background talk-keeping.

Live



RTOS Terminal

Industrial Appliance

Hardware PTT, accessory awareness, offline reconnect, deterministic provisioning.

Live



iOS Native

Swift

Reuses Apple's system-level PTT framework with native background wake.

In Dev



HarmonyOS Native

ArkTS · Native

Built natively for the HarmonyOS app stack with native PTT lifecycle.

In Dev

Shared control plane · unified media plane · flexible per-terminal licensing

Compatible With Mainstream Field Terminals



Anetcall A7

Touchscreen field terminal
Hardware PTT / SOS keys
LED & audio indicators
Background talk-keeping



Anetcall H58

Classic radio form factor
IP-rated ruggedization
Long battery life
Hardware PTT button



iPhone / iPad

Industrial handheld
High-output speaker
Dust & water rated
Command-dispatch use



Standard Android

Pixel / Huawei / Xiaomi
Consumer phones & tablets
Accessory PTT support
Generic fallback profile

One mainline codebase · configurable device profiles · OTA channels per vendor/model · **new devices onboard without forks**

Modern, Container-Native Stack

Clients	Android Kotlin Native	iOS Native	RTOS Industrial	HarmonyOS In Dev
Application	Realtime Msg High-throughput push	PTT Dispatch Floor & broadcast	Org Mgmt Groups / roles / audit	Admin API Dispatch & ops
Audio Media	Opus Codec Voice-optimized	Low-Latency Server-routed	Recording Optional side-path	Late Entry Seamless join
Storage / Infra	PostgreSQL Authoritative	Redis State coord	Local Media No S3 needed	Reverse Proxy Public edge

All components containerized · one-command deployment · 100% open-source stack

CORE DIFFERENTIATOR

Self-Hosted

100% Data Sovereignty

100%

Self-Sovereign Data

Communication Data Stays With You



Data Never Leaves Your Premises

Users, messages, calls and recordings live in customer DC or private cloud.



Zero Third-Party Dependency

No SaaS comms platform, no object storage dependency; offline or intranet deployable.



Compliance-Friendly

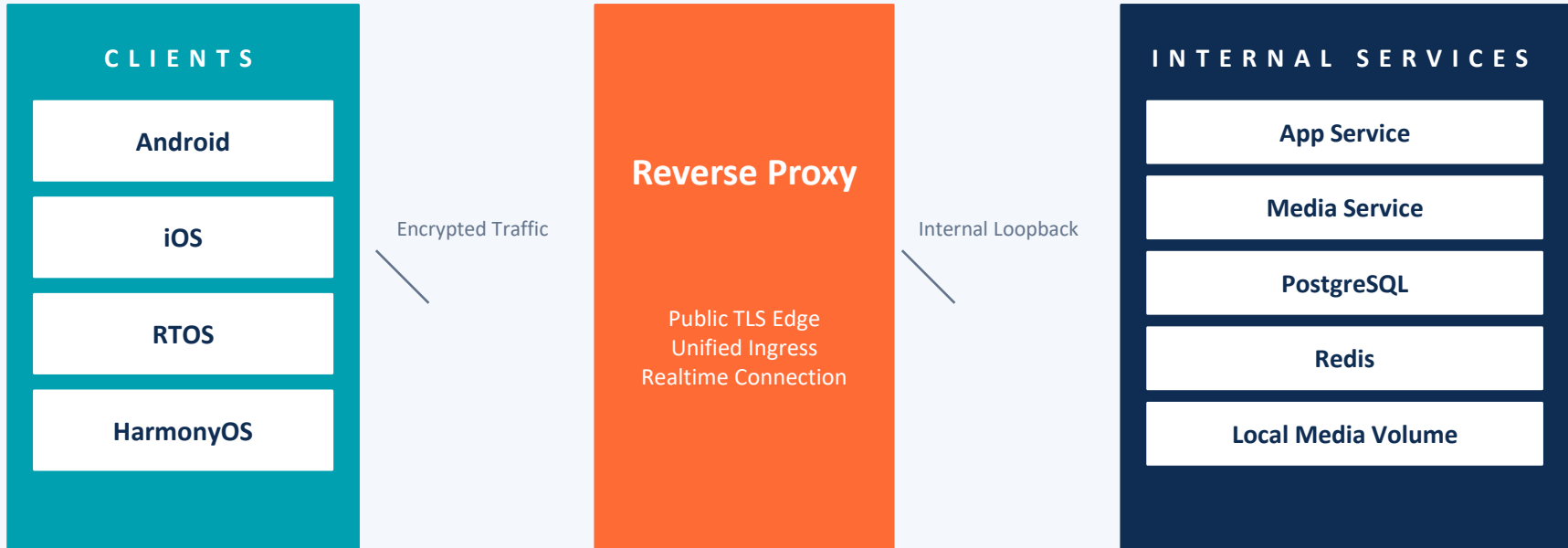
Meets data sovereignty and audit requirements for finance, government, healthcare and energy.



Auditable & Customizable

Core code can be audited; private customization available per industry.

Production-Grade Deployment



Minimal exposed ports · Database stays container-internal · Media on bind-mounted volumes

Built for Scale

100 ms

PTT floor response

Hundreds

Concurrent listeners per node

Horizontal

Multi-node coordination

Scale-Out Capabilities

- Realtime connections scale horizontally with the deployment
- Media service deploys and scales independently
- Multi-node sync of floor, emergency and presence via Redis
- Recording is a side-path; live audio is never blocked
- Prometheus-compatible metrics ready for Grafana integration
- Reconnect: clients catch up missed events from the persistent queue

Typical Industry Scenarios



Emergency Command

Disaster response, cross-department coordination, broadcast



Logistics Fleet

Driver dispatch, route updates, fleet broadcast



Campus & Construction

Trade coordination, safety alerts, inspection reports



Hotel & Property

Front-of-house, guest service, maintenance tickets



Security Patrol

Guard comms, incident reporting, night watch



Gov & Enterprise

Internal ops, multi-site coordination, compliant comms

Many more verticals possible — talk to us about your scenario.

Per-Seat Licensing · Any Terminal

Starter	Standard	RECOMMENDED Enterprise	Flagship
<p>≤ 30</p> <p>Users</p>	<p>≤ 200</p> <p>Users</p>	<p>≤ 1000</p> <p>Users</p>	<p>Unlimited</p> <p>Users</p>
<p><i>Small team / single dept</i></p>	<p><i>Mid org / single campus</i></p>	<p><i>Multi-dept / multi-site</i></p>	<p><i>Group / government</i></p>
<ul style="list-style-type: none"> ✓ Realtime messaging ✓ PTT ✓ Android / iOS / RTOS ✓ Email support 	<ul style="list-style-type: none"> ✓ All Starter features ✓ Org & talkgroup mgmt ✓ Recording & audit ✓ Business-hours support 	<ul style="list-style-type: none"> ✓ All Standard features ✓ Multi-node deployment ✓ Industry terminal support ✓ SLA & hours pack 	<ul style="list-style-type: none"> ✓ All Enterprise features ✓ Private customization ✓ Source-level support ✓ 7×24 dedicated

One account, any terminal (Android / iOS / RTOS / HarmonyOS) · Smooth tier upgrade · Subscription or perpetual licensing

From Delivery to Operations — End-to-End



Private Deployment

Environment assessment, containerized deploy, domain/cert integration, go-live support.



Training

Admin, dispatcher and end-user training kits; recorded videos and on-site delivery.



Ops Support

Remote assistance, log diagnostics, version upgrades; SLA & annual ops packages.



Custom Development

Industry terminal adaptation, third-party protocol integration, dispatch maps, custom features.

We support every step — from project evaluation through go-live and day-2 operations.

Continuous Product Evolution

Now · 2026

Core Delivered



Realtime messaging & voice
Live PTT
Android + RTOS clients
Admin console

Near-Term · 2026 H2

iOS / HarmonyOS Native



iOS native terminal
HarmonyOS native terminal
More industry hardware

Mid-Term · 2027

Calls & Dispatch



Voice / video calls
GPS & dispatch maps
More enterprise integrations

Long-Term

Interop & Global



SIP / IP-PBX interop
Multi-language UI
Globally distributed deployment

READY TO START

Experience Anetcall Today

Get a private deployment demo and seat-based quote.

realtimeptt.com

Request Demo

Try the hosted demo environment

Trial Deployment

30-day evaluation license

Get a Quote

Per-seat pricing for your terminal mix