

OPEN · SOURCE · RADIO

Self-hosted push-to-talk for field operations.

Replaces commercial PTT (Hytera HyTalk Pro, Motorola WAVE, Zello) on rugged Hytera P50 radios. One server, your channels, your data.



Commercial PTT locks the fleet in.

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PER-RADIO LICENSING

Subscriptions priced per device, per month, in perpetuity.

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VENDOR LOCK-IN

Phones, channels, dispatch — all tied to one provider's cloud.

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OFF-PREM AUDITS

Field comms routed through third-party infrastructure you can't inspect.

WHAT IT IS

An *open-source* radio + dispatch stack you run yourself.



GPL-3.0 source

Forked from Mumla / Murmur. Read the code, change the code, ship the code. No vendor escape hatch needed.



Self-hosted

Single Docker compose: Murmur + admin + dispatch + SIP bridge + Traccar + Postgres. Runs on a small VPS.



Hytera P50 native

Hardware PTT key, channel knob, orange status, green answer, red reject — every meaningful button does the right thing.

Every key does its job.



PTT (side)

Push to transmit. Triple-tap toggles a lone-worker shift.



Channel knob (F5/F6)

Rotate to switch channels. Locked while a phone call is active.



Orange (top)

Cycle presence — Online → Busy → Offline. TTS confirms each change.



Green (front)

Answer incoming SIP call. During an active call, toggles consultation hold.



Red (front)

Decline incoming call. During an active call, hangs up.

Six things teams actually do.



Voice + channels

Low-latency Mumble PTT. Channels per team, tree-scoped.



Live GPS dispatch

Map every radio. Dispatch to nearest worker with one click.



Lone-worker shifts

Time-bound check-in shifts. Auto-pings on overdue. SOS trigger.



Presence

Online • Busy • Offline. Dispatch sees who's reachable; mute icon when device is silent.



Call groups

Multi-team isolation. Per-user channel scoping; admin escape hatch.



SIP bridge

Inbound DID lands in a Phone channel. Hold-music, transfer, hangup — all on hardware buttons.

Phone calls become channels. Channels find people.



SIP gateway

- DIDWW trunk → Asterisk → AudioSocket → Mumble channel.
- Per-call sub-channels (Phone/Call-1, Call-2, ...).
- Operators get a whisper-ding when a call rings.
- True hold: caller hears music, operator can confer in another channel.
- Hardware reject + hangup, 180 s auto-hangup safety.



Dispatch + GPS

- Live map of every radio (Traccar + OsmAnd protocol).
- Click anywhere → ranked list of nearest available workers.
- Send a dispatch → TTS whisper hits the operator's slot.
- Filter is strict: only Online + Mumble-connected count.
- Saved locations + canned messages for high-frequency dispatches.

READY TO RUN

Open the source.
Stand it up.
Talk.

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DOCKER COMPOSE UP

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VENDOR LOCK-IN

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FORKS WELCOME