

Fieldlight – Progress Since Last Note (Delta Sheet)

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Summary:

Since my July note, Fieldlight has moved from a working local mesh into an always-on Light Agent substrate that sits under every tool, keeps the circuit alive across devices, and owns the ledger. Peers now plug into it as adapters — they no longer hold authority.

Key Additions & Progress:

- Phase 2 mesh transport complete — local libp2p daemon, TCP + GPG-encrypted messaging, trace-logged peer handshakes.
- Trust & routing rules live — message logging, route schemas, trust flags, and fallback logic.
- Fieldlight Relay build initiated — Light Agent's capture/memory/orchestration core now in development, with: Vault-first bus and single append-only log across `/03_trace_systems`, `/04_infrastructure`, `/07_incoming`; Relay streaming chat, GPS, and sensor pings into YAML without UI pauses; Adapter layer for sources like OpenAI chat, SMS, car CAN, and drone telemetry; Policy gate for per-source allow/deny and redaction before any egress; Keepalive loop to maintain the phone ↔ car ↔ laptop circuit and buffer/replay on drop.
- Documented reproducibility — step-by-step build guides so others can replicate the environment.

Why It Matters:

This shifts Fieldlight from multiple peers doing their own capture to a single substrate agent that guarantees authorship integrity and orchestration, with all tools and models as replaceable plugins. It's an active, consent-aware collaboration environment, tested in motion and ready to extend into safety, alignment, or enterprise workflows.