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VisualEther

Wireshark PCAP analysis for humans and AI

VisualEther turns Wireshark packet captures into readable sequence diagrams, then lets Claude Code explain, in plain English, why a network session failed.

Category	PCAP analysis for humans *and* AI · protocol analyzer · developer tools
Vendor	EventHelix.com, Inc.
Availability	Available now · Launch July 14, 2026 · Windows, macOS (Apple Silicon), Linux
Requires	Wireshark's `tshark` (4.6+ recommended)
Website	eventhelix.com/visualether

WHAT IT IS

A tool that converts Wireshark packet captures (PCAP/PCAPNG) into clear, frame-accurate sequence diagrams — and, for AI-driven analysis, extracts only the messages and fields that matter so an AI coding agent reads kilobytes of structured data instead of megabytes of raw packets. Built for 5G developers, network engineers, and test teams.

THE WORKFLOW: SEE · TRIAGE · DIAGNOSE · AUTOMATE

- **See** — a sequence diagram turns thousands of packets across layers into one readable picture.
- **Triage** — the Session Navigator groups every session by outcome (pass, fail, late, timeout, incomplete), so broken flows surface first.
- **Diagnose** — point Claude Code at a capture; it runs an author → debug → verify loop and cites frame numbers as evidence.
- **Automate** — scaffold a project once, commit it with your tests, and drive nightly CI, landing each batch in a Capture Atlas with machine-readable NDJSON output.

KEY FACTS

- **82+ built-in protocol templates** — 5G NR, 5G core, LTE, IMS/VoLTE, SIP/RTP, BGP, OSPF, DNS, HTTP/2, HTTP/3, TLS, Kerberos, Diameter, GTP, Modbus, DNP3, EtherNet/IP.
- **Built on tshark** — anything Wireshark can dissect, VisualEther can diagram.
- **Built-in MCP server** (Professional/Server) drives Claude Code; works with any MCP client (Cursor, Windsurf, VS Code, Codex CLI, Gemini CLI, Zed), with Claude Code the tested-and-supported client.
- **Native install everywhere** — winget, Homebrew, apt/dnf.
- **CI-ready** — NDJSON + Markdown + HTML output, glob-pattern batch runs, cross-file session continuity.

ONE DOWNLOAD, THREE EDITIONS

Edition	What you get
Community	Free, no license. PDF sequence diagrams from any capture.
Professional	One engineer. AI analysis via Claude Code, browser session triage, unlimited pages. 45-day trial unlocks the full paid set.
Server	Three developer seats + one shared CI / VM / server host.

PROOF IN THE WILD — VERBATIM CASE STUDIES

Each is a real user ↔ Claude session, tied to a linked PCAP:

- **Encrypted 5G user plane** — decrypts the PDCP user plane (NEA2) to a SIP REGISTER and reconstructs the uplink scheduling loop from PUSCH occupancy alone.
- **VoLTE vs. PSTN gateway** — separates native VoLTE from PSTN-gateway calls that look identical on the wire.
- **Mixed CI triage** — ranks per-protocol failures across an HTTP/TLS/DNS/DHCP/SSH capture.
- **Windows AD Kerberos** — flags 12 RC4-HMAC tickets exposed to Kerberoasting.

BOILERPLATE

EventHelix.com, Inc. builds tools and tutorials for protocol engineers, telecom architects, and systems developers — sequence diagrams, call flows, and deep technical explainers across 5G, LTE, IMS, and networking. Its products include VisualEther and EventStudio.

MEDIA CONTACT

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