

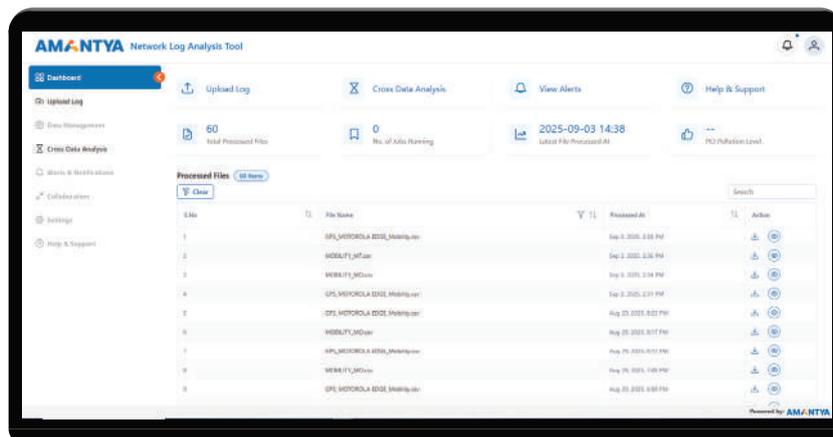
AI-Powered Log Analyzer

AI-powered log analysis and fault prediction for modern telecom systems

Why Amantya's AI-Powered Log Analyzer?

Modern telecom networks generate billions of logs across RF, RAN, Core and WiFi domains. Manual parsing is slow, error-prone, and reactive—causing higher OPEX, SLA breaches, and degraded customer experience.

Amantya's **AI-Powered Log Analyzer** transforms raw log chaos into explainable, actionable intelligence in seconds. With built-in explainability, cross-domain correlation, and predictive insights, it empowers operators to detect, understand, and prevent failures—delivering resilient, future-ready networks.



Product Differentiators

AI-Powered Event Understanding
Transforms raw, vendor-specific logs into human-readable, structured insights.

Continuous Learning with Feedback
Improves accuracy over time with human-in-the-loop labeling and adaptive clustering.

Cross-Log Correlation & Automated Verdicts
Aligns multi-domain logs on a common timeline, applies anomaly detection, and delivers automated verdicts with management-friendly reporting.

Business Value

50–70% Faster Fault Resolution

AI-driven anomaly detection slashes MTTR by surfacing issues instantly.

20–40% Lower OPEX

Automates repetitive log analysis, reducing dependency on NOC/RF teams and consultants.

Proactive Failure Prevention

Predicts and prevents call drops, handover failures, and congestion.

Superior QoE & Retention

Improved throughput, reduced latency, and minimized dropped calls.

Cross-Domain Intelligence

Correlates anomalies across RF, RAN, and Core, eliminating siloed analysis.

Future-Ready Scalability

Designed for 5G, WiFi, O-RAN, and NTN, capable of handling billions of logs.

** based on standard release cycles*

Key User Segments



Network Operators

Faster Fault Detection, SLA assurance, and reduced outages.



Device & Chipset Vendors

Rapid regression testing with AI-driven insights.



Network OEMs

AI-enhanced validation across RAN/Core/RF domains.



Enterprises & Government

Robust, resilient private/public networks.

Feature Set and Benefits

| Category | Features | Benefits |
|--|---|--|
| Multi-Source Log Ingestion | Supports raw logs from devices, drive tests, RAN, Core, IMS, and IT systems | One platform for all log types |
| Automated Event Extraction | Extract Protocol and system events using various techniques | Converts noise into structured, meaningful chunks |
| AI-Powered Summarization | Uses LLMs to generate human-readable event summaries and structured JSON | Removes complexity of vendor-specific log formats |
| Event Similarity & Clustering | Generates embeddings and clusters recurring event types across runs | Auto-recognizes known events and reduces duplication |
| Human-in-the-Loop Labeling | Users label events once as Critical, Failure, Warning, or Ignore | Future runs are auto-labeled, saving manual effort |

| Category | Features | Benefits |
|---|---|--|
| Cross-Layer Correlation | Aligns logs from system, radio, kernel, RAN, Core on a common timeline | Builds cause-effect chains for root-cause analysis |
| Verdict Engine | Compares observed events against test metadata (expected events, timing) | Produces automated PASS / FAIL / WARN verdicts |
| Anomaly & Regression Detection | Flags rare events, missing sequences, or performance regressions | Detects issues not covered by predefined rules |
| KPI & Metrics Extraction | Derives test KPIs like boot time, attach success rate, call setup delay, throughput | Provides performance insights alongside errors |
| Reporting & Dashboarding | Interactive dashboards, PDF/Excel exports, trend views, and per-run summaries | Clear visibility for engineers and managers |
| Ecosystem Integration | APIs and connectors for CI/CD pipelines, Jira/Bugzilla, Test Management Systems | Embeds seamlessly into automation workflows |

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