ABot AI:

Intelligent Root-Cause Analysis & Efficient Operations

Introduction

Troubleshooting modern 5G networks is no longer a linear process. Multi-vendor deployments, cloud-native architectures, and distributed systems generate massive volumes of PCAPs, logs, KPIs, alarms, and traces across domains.

ABot AI is an AI-powered operational intelligence platform designed to simplify reactive troubleshooting and root cause diagnostics. It combines telecom domain expertise, 3GPP knowledge, protocol intelligence, and an agentic AI framework to convert raw network artefacts into actionable insights

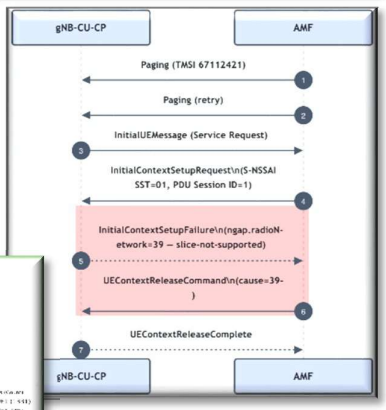
By correlating data across UE, RAN, Core, Transport, and Infrastructure layers, ABot AI enables engineers and AI agents to rapidly identify root causes, reduce investigation time, and handle operational complexity at scale.

What ABot-AI Can Do

Cross Layer Data Ingestion

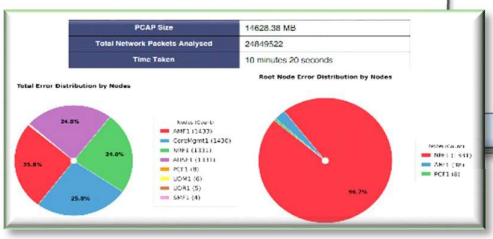
Analyse PCAPs, logs, alarms, KPIs, traces, and topology data across multi-vendor environments. Build a unified view of network behaviour across layers.

Protocol Aware Session Reconstruction



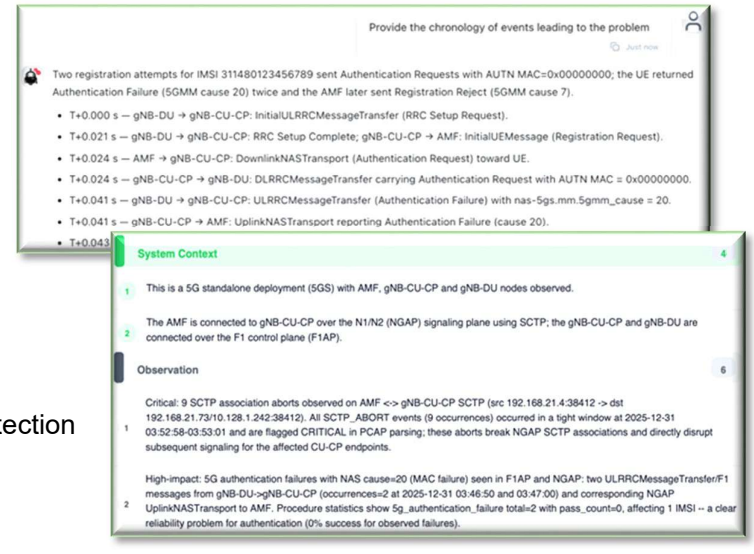
Reconstruct signalling flows across RRC, NAS, NGAP, GTP, SBI and more to identify failures at the session level.

Agentic Root Cause Analysis



AI agents autonomously investigate incidents across RAN, Core, Transport, and Infrastructure, correlating evidence to identify root causes.

Built-In Telecom Intelligence



Leverage 3GPP procedures, vendor mappings, and domain knowledge to interpret complex behaviours without manual decoding.

Conversational Operations Interface

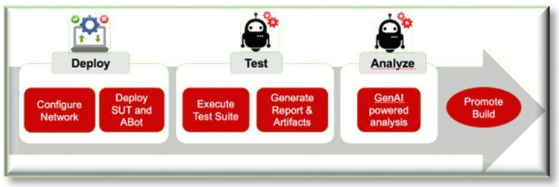
Ask questions in natural language and receive contextual summaries, RCA, and remediation guidance.

Accelerated Reactive Troubleshooting

Automate post-incident analysis and anomaly detection to drastically reduce investigation time.

Operational Workflow Integration

Seamlessly integrate with CI/CD pipelines, OSS/BSS, monitoring tools, MCP servers, and automation workflows.



ABot AI Solves 5G Testing & Operations Pain Points

Challenge	ABot AI Capability	Outcome
Massive, fragmented network data	Cross-layer correlation	Faster issue isolation
Multi-vendor complexity	Vendor-aware decoding + 3GPP knowledge DB	Consistent troubleshooting
Siloed analysis across domains	Agentic RCA	End-to-end visibility
Manual log analysis	Automated correlation & summarisation	Reduced expert dependency
Hidden signalling failures	Session reconstruction	Higher defect detection accuracy
Slow debugging cycles	Conversational diagnostics	Faster validation
Lack of deterministic RCA	Multi-agent investigation	Evidence-backed insights

How ABot AI Differs from Standard LLM based RCA

Unlike generic LLM-based troubleshooting tools that rely primarily on text interpretation, ABot-AI is purpose-built for telecom operations. It combines 3GPP domain intelligence, protocol-aware analysis, multi-vendor correlation, and agentic investigation workflows to analyse real network artefacts such as PCAPs, logs, traces, and KPIs. The result is evidence-backed root-cause analysis that is explainable, telecom-aware, and operationally relevant.

Value Proposition

ABot AI transforms 5G Testing and Operations:

- 60% faster certification cycles through automated analysis
- 95% reduced MTTR with evidence-backed RCA
- Improved interoperability across vendors
- 80% lower operational costs through automation
- Higher network reliability through deep correlation

Turn every network incident into operational intelligence. Discover how ABot AI can accelerate root cause analysis, simplify multi-vendor troubleshooting, and transform 5G operations.

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