Network Advisor

Prevent issues from escalating

TUPL | Operations made simple with AI

NETWORK ADVISOR

Trustworthy and actionable AI for Telecom Networks

The solution

Automated Network Issues Root Cause Analysis.

Decades of technology investments by Telecom Operators to address ever increasing traffic demand and customer expectations have led to a complex context with multiple technologies, where data needs to be gathered and correlated from multiple sources.

Award-winning Tupl Network Advisor helps network engineers unlock the power of AI to automate processes and digitalize cumulated engineering knowledge for scaling, speed, and consistency. A powerful AI system that adapts to your own environment and processes.

Key benefits

- Digitalizes your expert knowledge.
- No coding required.
- AI automates Root Cause Analysis and action recommendations through simple User Interface (UI) screens.
- Can integrate with other workflows or tools such as NOC, field services or even SON.
- Maximum accuracy, consistency and speed for optimum level network performance.
- Scales and enhances engineering knowledge through AI as operations grow.

Use case examples

Congestion

Network overload root cause analysis.

Mobility

Handover-related problems impacting service continuity.

RTWP

Root cause analysis including external interference and faulty equipment identification.

Transport network issues

Troubleshooting backhaul related issues.

Sleeping cells

Detection of hidden faults in active cells impacting service availability.

Access Failure and Drop Call rates

Root cause analysis of issues behind access failures and drops.

Traffic and throughput

Root cause analysis on unexpected traffic loss and and sub-optimum end user throughput.

Key Features

Network Advisor provides intelligent process automation for telecom engineering processes, leveraging TuplOS AI Engine.

AI Engine: based on open-source Big Data and machine Learning libraries, Tupl's ML Toolkit is at the core of Network Advisor. It provides the ability to train and run multiple-stage root cause analysis and action recommendations in a live network.

Multiple data source integration: correlate and process multiple data sources for complex problems through TuplOS data and cloud architecture.

Machine Learning UI: simplified Machine Learning model creation, training, and evaluation through a simple UI which experts can use without prior coding knowledge.

Multi-model, multi-user management: easy solution integration across large and heterogeneous organizations with diversity of operational responsibilities.

Feature Engineering Editor: create the most suitable features as inputs for maximum ML model performance.

Business impact

90% classification accuracy, powered by both supervised and unsupervised learning.

100% consistency -Operators can draw network-level conclusions with confidence.

Up to 90%-time savings –
by dramatically reducing the time span from investigation to action.

Discover unseen issues with unsupervised learning.