

IoT Assurance

Zero-Touch automation agent



Predictive maintenance of IoT networks

Tupl's IoT Assurance solution is a zero-touch automation agent that increases efficiency through automation to handle customer failures. It provides a full and fast automated analysis and auto-response for closed-loop notifications, including impact. It also applies anomaly detection and RCA (root cause analysis) to different IoT devices to open tickets proactively even before the customer notices.

Tupl's IoT Assurance solution works by analyzing the network flow and detecting any potential issues that may arise.

The solution classifies potential issues by analyzing communication protocols, payload usage, and device configurations. It employs machine learning for auto-detection of anomalies, grouping them into incident tickets and master tickets for efficient issue resolution.

Key features

- **Data Integration:** It integrates diverse data sources, including "Radius CDRs", "Diameter CDRs," mobile broadband, AI interface data, and SMS CDRs, providing a comprehensive overview of IoT device interactions.
- **Granular Analysis:** It analyzes IoT devices' interactions classifying potential issues based on communication mechanisms, payload usage, and various configurations, ensuring granular insights into network behavior.
- **Auto-Detection of Anomalies:** It employs machine learning for real-time auto-detection of anomalies, categorizing them into incident tickets and master tickets, streamlining the identification and resolution of network issues.
- **Root Cause Analysis:** Utilizing machine learning, the solution offers insights into incidents allowing the auto-closing of resolved issues and collaboration between operations teams and customers for further investigation.
- **Visualizations and KPI Analysis:** It provides visualizations, including real-time anomaly graphs and customizable views for analyzing KPIs, enhancing the understanding of network performance and potential issues.