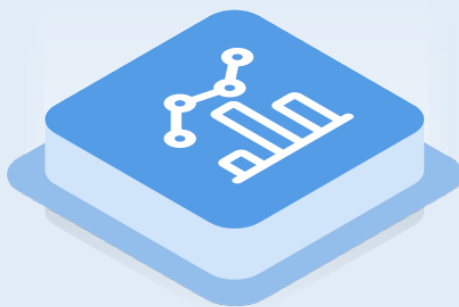




TUPL NOC AUTOMATION

Towards zero-touch automation
in your network operations



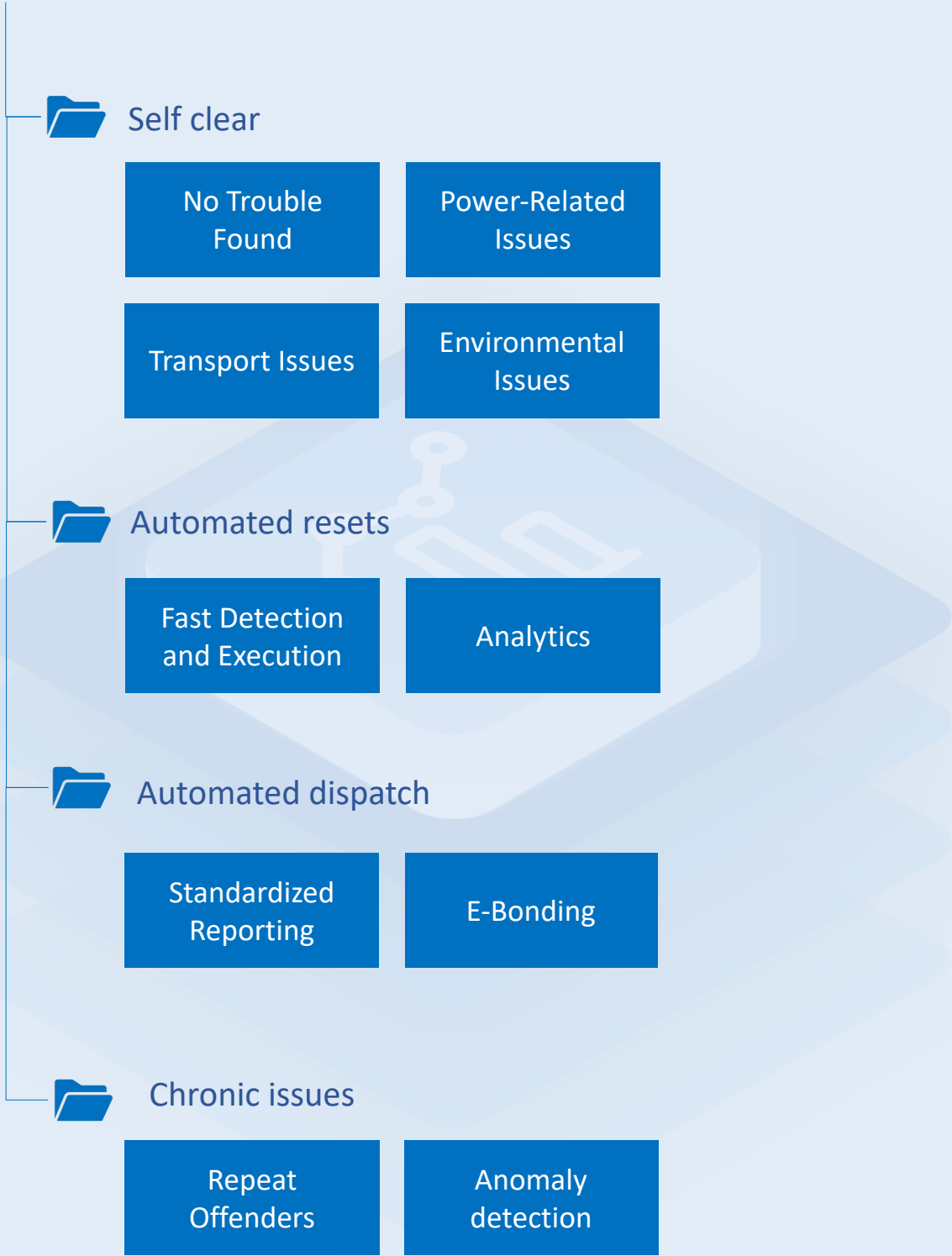
AI - Automated Network Operations Center

MTBF go up, but still equipment can fail unexpectedly. With ever growing network complexity and customer demand for uninterrupted services, it is challenging to meet expectations unless you do things differently.

Significant manual repetitive work still happens to tackle critical alarms.

Tupl NOC Automation resolves this dilemma with the help of AI. After integrating relevant data sources, Tupl ML toolkit enables the extraction of existing root causing information, performs commonly identified automated actions and creates trouble tickets with detailed analytics.

Use Cases



Before Tupl

1

Engineers receive
100's - 1000's of
critical alarms/day



2

Experts determine
rootcauses, decide on
corrective actions 24/7

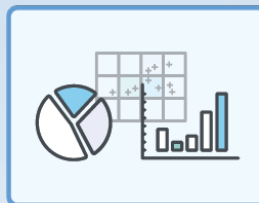


Key benefits

- Extracts best practices and turns them into digital knowledge.
- Consistently analyzes more data than humanly possible for the most accurate decisions.
- Executes agreed actions automatically and creates work orders with deep analytics. Powerful, analytical tools: multi-dimensional radar, top offenders, trends, geographical correlation map
- Reduces Tier-1 work to absolute minimum.
- Improves Tier-2 and Tier-3 performance and efficiency.

1

Tupl SW automatically
correlates all data &
identifies critical issues



2

NOC experts maintain ML
models to minimize
manual troubleshooting



After Tupl



TUPL NOA

Keeping network running at optimum performance levels for end customers, leveraging TupIOS AI Engine.

Key features

- Tupl's ML Toolkit is based on open-source Big Data and Machine Learning libraries. It provides the capability to train and run multiple-stage root cause analysis, action recommendation models, and selected automated actions.
- Multiple data source integration: multiple data sources can be easily correlated and processed for complex problems through TupIOS data and cloud architecture, ensuring the most accurate decisions and prioritization.
- Action Engine: certain action categories (such as equipment restarts) can be automated to achieve maximum efficiencies and recovery speeds.
- Trouble ticketing automation module: Reduces errors, missing data and inconsistencies in work orders to field engineers.

Business impact

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

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

Up to 100% time savings in Tier-1 operations, and estimated 50% efficiency gains in Tier-2 and Tier-3.

Discover unseen issues and patterns with unsupervised learning.

Faster field actions thanks to more systematic processes and quick time to resolutions.

