

# Modern Al-Powered Telco Service Assurance Solution

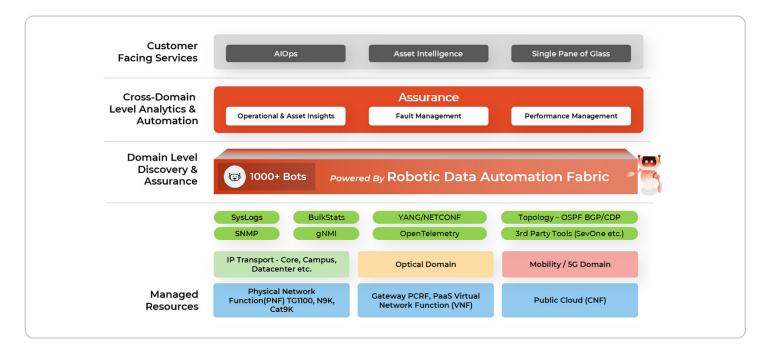
Digital-First Telcos are striving for service assurance, which has become the lifeblood for their business processes. But they are increasingly getting complex across legacy and cloud-native applications, multi-cloud distributed services, with the rise of edge and when leveraged with Kubernetes and microservices architectures. Service assurance needs full-stack observability; however, customers need an approach to tame the data deluge while enabling actionable insights. Full stack Observability is paramount to contextualize, automation, scale and nstantly remediate the root cause while delivering business outcomes.

## **Challenges**

Modern Telco deployments are complex and need the service assurance solution to support many new requirements

- Support for multiple domains e.g. DC/Campus/ Cloud, Mobility, Optical, 5G, IP Transport, etc.
- Siloed tools, future-proofing, and support for new data types
- Support for build & run use cases transformation & operations (FM, PM, etc.)
- Persona-based Single Pane of Glass across Domains
- Intelligent Analytics & Automated close loop automation for operational efficiencies
- Deployment flexibility On-premises, Hybrid, or Cloud Native
- Multi-Vendor and Multi-cloud support

#### Solution - Telco Service Assurance Reference Architecture

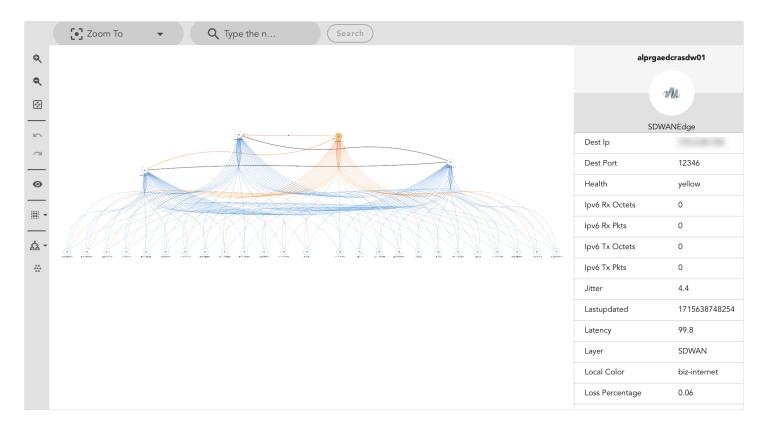


#### Solution

#### Visibility **Insights Actions** Enrichment Discovery Remediation • Event/Alarm Enrichment - Full Stack Asset Discovery – 5G, Service Management Topology, NLP Edge, O-RAN ChatOps · Log Enrichment - CVE, GeoIP, Application Dependency and Anomaly Notifications TIP, MITTRE Impact Service Map Auto Remediation • Topology Visualization Correlation -AI/ML **NLP Analysis** Event Correlation Compliance • Recommendation Engine · Log Correlation, Replay • Compliance Management CMDB update • Change Management Predictive Analytics - AI,ML Vulnerability Exposure Composable Analytics · Event, Log, Metrics Anomaly Lifecycle Analytics Composable Services, detection Pipelines, Bots • Fault Synthesizer Visualization Observability pipelines • Composable Dashboards Composable Search • Observability Data Lake Root Cause Analysis • Virtual War Room - RCA

#### **Use Cases**

- Single pane of operations across domains
- ▶ Network Assurance and AlOps
- ▶ Performance Management Otel, API, SNMP, Bulkstats, gNMI/gRPC
- ▶ Fault Management Syslogs, SNMP traps
- ▶ Managed Network Services Visibility & Lifecycle Insights



## **Value Proposition**

#### Fault Management

- Multi-layer visibility and monitoring
- ▶ Closed-loop automation, Root Cause Analysis
- Prioritized service impact. Supress extraneous alarms

#### Performance Management

- ▶ Real-time performance metrics and machine-learning baselining
- Anomaly and performance degradation detection
- ▶ Optimize resources and workloads

#### **Automated Root-cause & Service Impact**

- Correlate services impact and isolate the underlying infrastructure problem
- Automatically suppress extraneous alarms

#### **Composable Analytics**

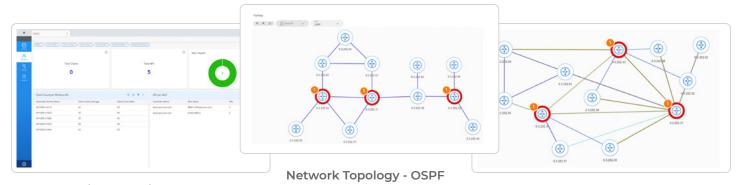
- Abilit to ingest disparate data sources like SNMP traps, Syslog, GnMI, Bulkstats
- Automatically determine baselines and detect anomalies. ML-based analytics for deep actionable insights

# Single Pane of Glass, Composable Dashboards

 Rapid development of dashoards and reports to visaulize data collected from all required sources (e.g. devices and controllers

#### Reliability, Availability and Scalability

- ▶ Active-active solution
- ▶ Ability to ingest millions of metrics
- Multi-tenant, microservices based architecture for on-premises, hybrid and cloud deployments



Wireless Insights -Multiple DNAC Controllers Topology Aware Network Events Correlation CDP, OSPF, BGP

For more information visit:

www.fabrix.ai

To Request a demo or further queries: fabrix.ai/request-demo







