AInsights

Predicting the performance of telco networks with a focus on 5G enterprise services.

MYCOM OSI's AInsights enables CSPs to rapidly move from reactive to predictive assurance and operations of their networks and services, and the Data Fabric capability delivers the high-quality data that is critical to the success of such AI initiatives.

Predicting the performance of telco networks with afocus on 5G enterprise services

As Communications Service Providers (CSPs) embark on rolling out the latest 5G/enterprise services, MYCOM OSI's AInsights application offering is an essential capability for CSPs to deliver services with AI-based insights for high performance. It operates at two levels: 1) feeding normalized network and service data for CSP Data Lakes and 2) feeding AI-based predictive insights for the OSS ecosystem applications.

Offered on-demand from the cloud, pre-integrated with most network deployments and based on pre-packaged AI pipelines, the AInsights application eliminates months of data mining effort intelligently. AInsights is built on the award winning EAA platform, proven at some of the world's largest, most complex Tier-1 CSP networks.

The drivers for AInsights are based on the CSPs' needs to:

- Respond to 5G/enterprise demands on performance and reliability of service
- Combine predictive AI-based insights with assurance leading to automation
- Prevent risks from network unavailability and QoS degradations
- Reduce problem investigation times, and customer tickets
- Feed ready-to-consume network and service data for Big Data Lakes
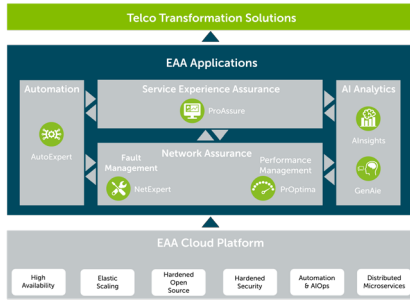
Part of MYCOM OSI's EAA Service Assurance portfolio

The AInsights application, operated on Amazon Web Services (AWS), private cloud or on-prem, enables CSPs to benefit from the data processing capabilities of the EAA Cloud Platform, which is the engine for MYCOM OSI's Service Assurance applications. Based on a microservices based cloud architecture, with inbuilt automation and analytics, the EAA AInsights application enables CSPs to continuously predict the performance of their networks and services, and to proactively identify and resolve problems before they impact their customers. This is specifically essential for the delivery and the assurance of high reliability and low latency 5G enterprise services.

Normalized network and service data from Data Fabric layer

The Data Fabric layer facilitates seamless movement of normalized network and service data into CSP Data Lakes, where it can be stored, processed, and analyzed by external applications. By leveraging the Data Fabric layer, the CSP's data and analytics programs can avoid the need for endless data engineering cycles, resulting in accelerated time to value. This, in turn, reduces costs and enhances the chances of success for analytics projects. Leveraging TMF-based normalization, data can be consumed seamlessly by any component of the CSP ecosystem, eliminating the need for repetitive data integration processes.

Intelligent data from Insights Factory layer

The Insights Factory empowers CSPs to effortlessly integrate pre-packaged AI pipelines to perform the most relevant AI-driven use cases, such as anomaly detection, KPI Forecasting, alarm pattern discovery, and root cause demarcation for their OSS ecosystem. It simplifies the traditional AI process by automating each step in the pipeline and delivering results in a matter of days versus months. Insights Factory benefits the optimization, planning, operations, and NOC/SOC teams of the CSPs by enabling relevant use cases. Insights Factory trains, deploys, and maintains new AI models without human intervention, performs scheduled and on-demand inferring, detecting concept and data drifts. It makes the Insights (enabling customer use cases) available via an API or a dedicated User Interface.

The customer use cases that are enabled by the Insights Factory include:

- Performance Management (PM) forecasting and anomaly detection
- Fault Management (FM) Alarm pattern discovery
- Root Cause Analysis (RCA) for incidents and ticketing
- Forecasting, pattern discovery, and anomaly detection for international roaming services

Insights for EAA applications

These are predefined insights modelled for resolving specific network and service problems used by EAA Network Assurance applications (PM and FM) and Service Experience Assurance application (SQM) and Outcome-based Solutions.

PMU (Predictive Maintenance Unit) is a hierarchical, modular and tailored maintenance system for a specific network segment defined by the user. Anomaly scores are calculated at PMU, Cell and KPI levels.

PMU combines PM and FM data and performs predictive modelling, pattern discovery and anomaly detection. It offers the flexibility to aggregate and disaggregate forecasting and anomaly detection at different network and geographical levels.

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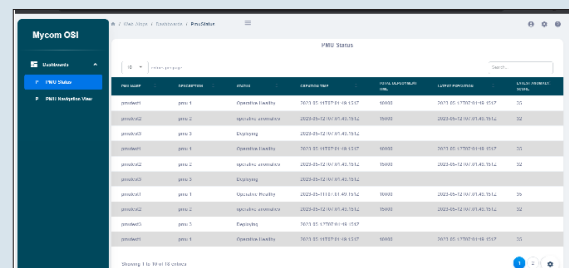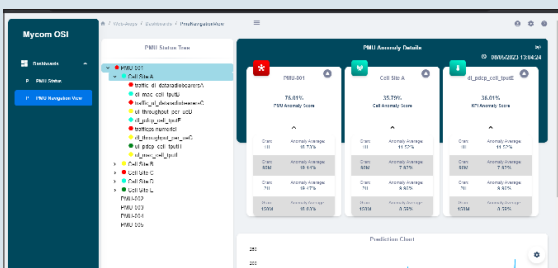
Extends the benefits of EAA to CSPs through enhanced open, flexible and AI-driven insights to support their growth plans.

An essential capability to drive reduced time-to-value through orchestrated microservices based architecture for agility.

Offers a building block of data-driven decision-making to drive multiple telco and enterprise use cases.

Key Features

Open to OSS ecosystem and data lakes
High Integration flexibility with Industry Standard Interfaces (TMF), backed by Open standards.

AI based insights for critical telco use cases
AI-insights are provided for PM forecasting and anomaly detection, Fault related frequent sequence discovery, auto-discovery correlation, Root Cause Analysis and automatic remediation.

High Scalability
Collects, stores, analyses, correlates, recognizes and predicts the behavior of thousands of network entities and applications simultaneously in near real-time.

Deeper visibility
Simultaneous multi-lens anomaly detection across different applications, ports, IP devices, VLANs etc. (For example, 1000s of anomaly detection models can be simultaneously deployed).

Suppression of non-actionable alerts
Frequent pattern matching for higher accuracy/reduction. Discovery of complex data correlations for higher suppression rates (99%+).

Replicable data models
Enables replication of data models for different network functions (RAN/IP/PM/FM etc.) for a 360- degree / deeper network view. This includes automating model training.

Predictive Maintenance Unit (PMU)
PMU, the core component of AInsights, allows dynamic, need-based activation, creation and tear-down, which increases the efficiency and accuracy of network maintenance.

Benefits

High scalability and low-error
Predictive performance of thousands of network entities and applications simultaneously in near real-time.

Drives reduced time-to-value approach
Orchestrated microservices with predefined use cases for a wider ecosystem.

Supports CSPs' rapid revenue stream expansion
Leveraging into building analytics and intelligent services.

Reduces MTTx and NOC/SOC manpower costs
Calculable hours and costs for each network type.

Zero Time to Value
Orchestrated microservices with predefined use cases reduce the time to value; Cloud-native and cloud-agnostic.

Usage-based Pricing Model
Simpler pricing models for reduced TCO.

AInsights – Powered by the Assurance Cloud™

AInsights enables CSPs to alleviate operational effort and drastically reduce the problem detection times by providing relevant AI-generated network insights, thus paving the way for network automation.

MYCOM OSI's AInsights application is powered by the Assurance Cloud™. Proven to reduce TCO, accelerate TTM and support increased automation at the world's largest, most complex networks, the Assurance Cloud™ is the world's first fully cloud-native network and service assurance software-as-a-service (SaaS) offering. MYCOM OSI's AInsights cloud-based application is an essential capability for CSPs to enrich their Data Lakes and OSS ecosystem applications resulting in accelerated time to value.
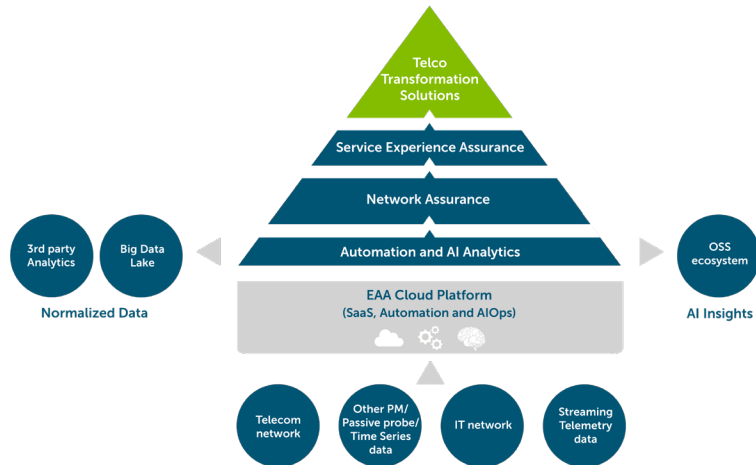
Connect with us

For a personal demo and discussion about how AInsights can benefit your business.

Contact us   **Follow us**

About MYCOM OSI

MYCOM OSI is a leader in Network Assurance and Service Experience Assurance solutions powered by predictive and generative AI-based Analytics and Automation capabilities enabling Communications Service Providers (CSPs), Managed Service Providers (MSPs) and enterprises to launch and manage mobile and enterprise services with high performance, at scale. Its telco transformation solutions are based on 25+ years of experience and expertise gained at the world's largest, most diverse and most complex networks.

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A multi-award-winning Assurance vendor

With over 25 years experience, MYCOM OSI is recognised as the leading service assurance provider.