5G Standalone Assurance Solution

Enabling rapid 5G roll-out and assuring efficient, reliable and high-performance 5G Standalone networks

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5G Standalone Assurance Solution –
The pre-integrated assurance solution for CSPs deploying 5G standalone

MYCOM OSI's 5G Standalone Assurance Solution gives CSPs the competitive edge in 5G deployment by reducing the cost, time-to-market and operational complexity while protecting existing revenue streams. Delivered on-demand from the cloud, pre-integrated with most 5G network deployments and bundled with targeted 5G outcome-based use cases, the 5G Standalone Assurance Solution eliminates months of deployment time and cost and is proven today at some of the world's largest, most complex Tier-1 CSP 5G networks.

The drivers for 5G Standalone Assurance are based on CSPs' needs to:

- Accelerate 5G Standalone rollout
- Respond to enterprise demands on performance and reliability of service
- Reduce the impact of rapid 5G subscriber acquisition on core and transport network configurations
- Automate advanced connectivity service
- Orchestrate and manage performance with a single cross-domain platform
- Return on 5G investments and monetization

Benefits

Reduces deployment effort with a ready-to-use 5G solution
Bundles the most advanced performance management capability into a ready-to-use pre-integrated solution

Reduces deployment time with a unique SaaS approach
Powered by the multi-award-winning SaaS, the solution can be activated in under an hour

Improves performance with greater scalability
Leveraging the footprint of the public cloud, the solution automatically scales, for high availability/performance even in extreme conditions

Allows usage flexibility and business agility
Based on a shared cloud platform, the solution can be extended to a full Assurance Cloud™ deployment as 5G services evolve

Reduces TCO without compromise on quality
Designed specifically for 5G network deployments while keeping costs down by avoiding complex customization
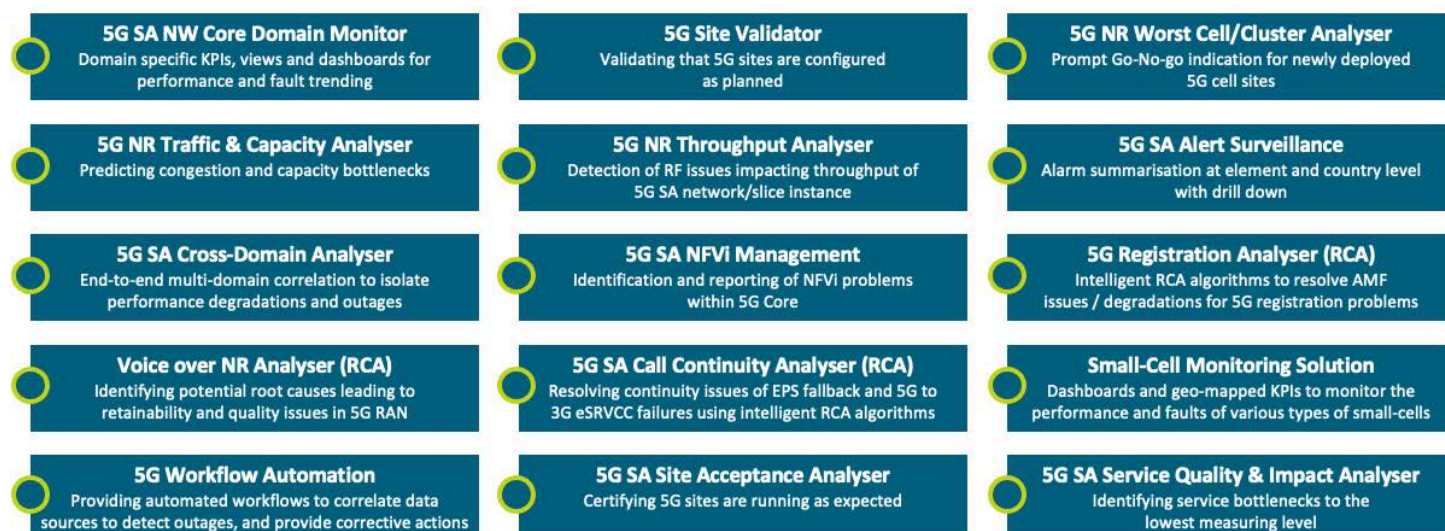
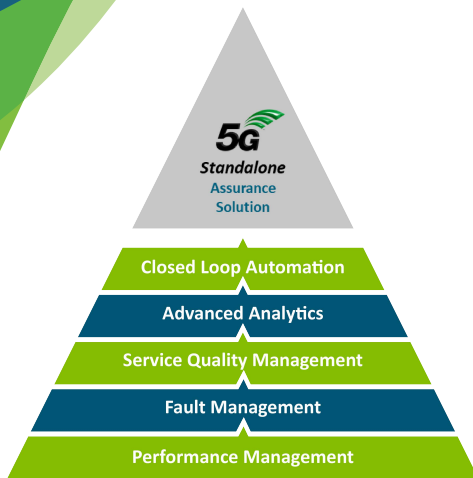## Multi-vendor End-to-End Assurance with AI-led Automation

The 5G Standalone Assurance Solution enables CSPs to maintain high performance of the 5G core, RAN, backhaul and network slices, covering the entire network with a single solution. In addition, it offers rapid onboarding for multi-vendors and drives operational automation using AI/ML.

Assuring the virtualized 5G Core	Assuring the 5G New Radio	Assuring Network Slices	AI/ML driven automation at the core	Certifying and assuring new vendors
Monitor the performance of different virtualized components in real-time	Assure, automate and configure based on 5G New Radio (NR) data	Proven ability to enable assurance-driven closed loop automation that optimizes business SLAs	Adopt AI/ML for changing traffic profiles to manage risk, with a stepwise, expert-led approach	Rapidly onboard and assure new vendor equipment especially Open RAN

15 Solutions for 5G Standalone Assurance

MYCOM OSI developed the streamlined, purpose-built 5G Standalone Assurance Solution keeping the complexities of 5G network and service assurance in mind, while ensuring that 5G services are differentiated for the customer, simple to assure for the operator, and resource-efficient for the network.

5G SA NW Core Domain Monitor
Domain specific KPIs, views and dashboards for performance and fault trending

5G Site Validator
Validating that 5G sites are configured as planned

5G NR Worst Cell/Cluster Analyser
Prompt Go-No-go indication for newly deployed 5G cell sites

5G NR Traffic & Capacity Analyser
Predicting congestion and capacity bottlenecks

5G NR Throughput Analyser
Detection of RF issues impacting throughput of 5G SA network/slice instance

5G SA Alert Surveillance
Alarm summarisation at element and country level with drill down

5G SA Cross-Domain Analyser
End-to-end multi-domain correlation to isolate performance degradations and outages

5G SA NFVi Management
Identification and reporting of NFVi problems within 5G Core

5G Registration Analyser (RCA)
Intelligent RCA algorithms to resolve AMF issues / degradations for 5G registration problems

Voice over NR Analyser (RCA)
Identifying potential root causes leading to retainability and quality issues in 5G RAN

5G SA Call Continuity Analyser (RCA)
Resolving continuity issues of EPS fallback and 5G to 3G eSRVCC failures using intelligent RCA algorithms

Small-Cell Monitoring Solution
Dashboards and geo-mapped KPIs to monitor the performance and faults of various types of small-cells

5G Workflow Automation
Providing automated workflows to correlate data sources to detect outages, and provide corrective actions

5G SA Site Acceptance Analyser
Certifying 5G sites are running as expected

5G SA Service Quality & Impact Analyser
Identifying service bottlenecks to the lowest measuring level

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5G Standalone Assurance Solution

Closed Loop Automation
Advanced Analytics
Service Quality Management
Fault Management
Performance Management

The competitive edge for 5G market share

MYCOM OSI's 5G Standalone Assurance Solution eliminates the bottlenecks of 5G service assurance deployment and integration, enabling faster deployment and simplified network operations, and offering a competitive edge towards greater market share.

Advancing 5G service assurance to autonomic assurance

Designed to address specific service assurance challenges in 5G deployments from day 1, the solution can also be extended into advanced, AI/ML-driven closed-loop automation scenarios alongside evolving business requirements.

Proven at the world's pioneering Tier 1 5G networks

Several Tier 1 operators already benefit from the Solution to visualize and manage their 5G networks.

Evolving service assurance into the public cloud

Partnership with Amazon Web Services and its own powerful cloud products, the Solution provides a proven on-ramp into the public cloud.

KEY FEATURES

Data Center and Telco Cloud Assurance
- Supports virtualization of network components across core, IT, transport and RAN domains

Open RAN Assurance
- Supports the automated on-boarding and activation of assurance for components compliant with open interfaces within the Radio Access Network (RAN) domain

Voice over NR (VoNR) Assurance
- Identifies key potential root causes leading to retainability and quality issues in 5G RAN

Root Cause Analysis for Call Continuity
- Maintains overall AMF performance through deep dive analysis of the root cause of the issue / degradation

Management of NFVi for 5GSA
- Identifies and reports NFVi problems within the 5G Core and 5G RAN

Multi-Slice Automation
- Interfaces with different orchestration engines to optimize the performance of individual and groups of network slices, across diverse network and business KPIs and SLAs

AI/ML Augmentation
- Pre-emptively orchestrates the network to prevent issues before they occur

Speed and Agility
- Provides faster 5G TTM by removing complex OSS barriers and leveraging the public cloud
- CSPs can activate or de-activate the fully self-contained Solution in any region on-demand, with no dependencies

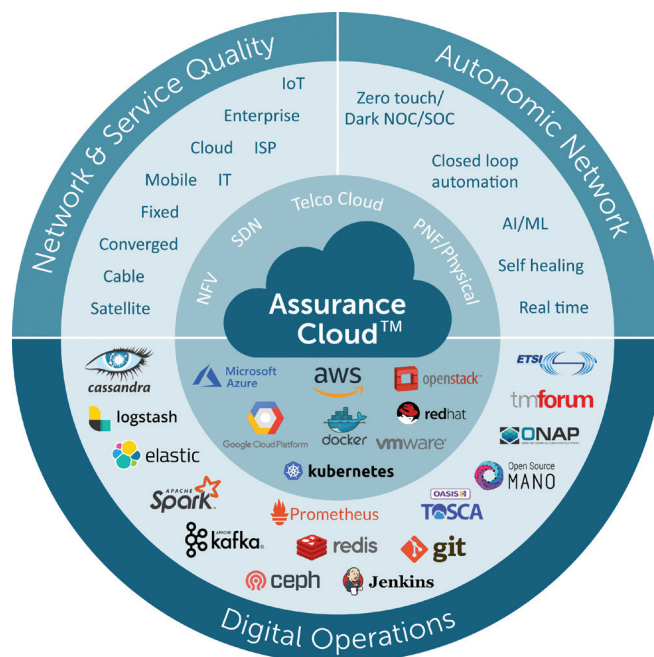**Risk and Complexity Management of 5G Roll-outs**
- Provides the real-time network visibility to ensure quality of experience without impacting existing customers
- Pre-integrated with most 5G RAN equipment, supports pre-configured reports, dashboards, and KPI

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5G Standalone Assurance Solution – Powered by the Assurance Cloud™

MYCOM OSI's 5G Standalone Assurance Solution 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. The 5G Standalone Assurance Solution enables CSPs to launch and assure differentiated 5G networks and services, with lower TCO and in a fraction of the time compared to traditional service assurance solutions.

A multi-award-winning Assurance vendor

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

Get started today with a personal demo and discussion about how the 5G Standalone Assurance Solution can benefit your business.

About MYCOM OSI

MYCOM OSI is a leader in Assurance, Automation & Analytics solutions that enable CSPs, Managed Service Providers (MSPs) and Enterprises to manage digital experiences and hybrid networks, launch digital, IoT and 5G services and deliver agility, scale and efficiency with automated digital operations. With over 25 years of proven capabilities and network management services to 8 out of the top 10 global CSPs, MYCOM OSI has designed the world's first Service Assurance Cloud, cutting across domains and catalyzing CSPs on the road to transformation to DSPs.

Regional Offices

Europe
4th Floor, The Urban Building
3-9 Albert Street
Slough SL1 2BE
United Kingdom
t : +44 1753 213740

Middle East & Africa
9th Floor, Aurora Tower
Dubai Internet City
P.O. Box 502 533
Dubai
UAE
t : +971 4 434 1553

Asia Pacific
30 Cecil Street
#19-08 Prudential Tower
Singapore 049712

Americas
2365 Iron Point Road
Suite 170
Folsom
CA 95630
United States
t : +1 916 467 1500

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