

5G Standalone and Slicing Assurance Solutions

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

The pre-integrated assurance solutions for CSPs deploying 5G standalone with slicing

MYCOM OSI's 5G Standalone and Slicing Assurance Solutions 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 and Slicing Assurance Solution eliminates months of deployment time and cost and is proven at some of the world's largest, most complex Tier-1 CSP 5G networks.

The drivers for 5G Standalone and Slicing 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



We always want to use state-of-the-art services to provide our customers with an excellent network and service experience. MYCOM OSI's offering supports our 5G roll out, network service quality and, as part of this initiative, pursues a more data-driven approach to network investment.

Eva Ulicevic,
Director of Architecture,
Strategy and Analytics,
Telefónica Germany

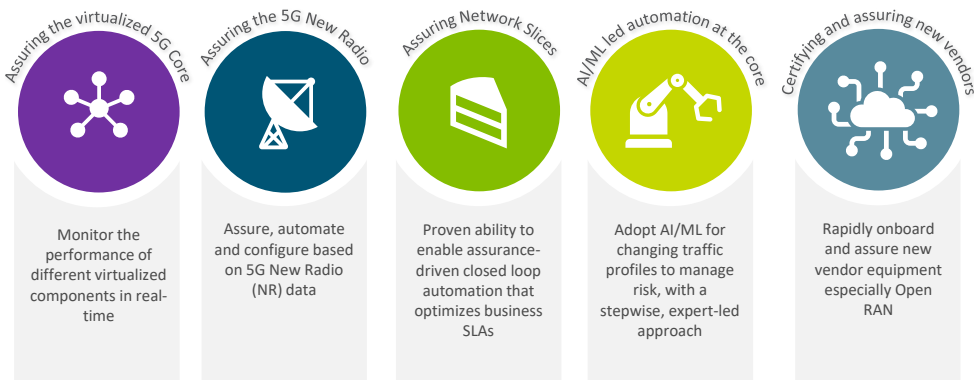
Multi-vendor End-to-End Assurance with AI-led Automation

The 5G Standalone and Slicing Assurance Solutions enable CSPs to maintain high performance of the 5G core, RAN, backhaul and network slices, covering the entire network through a single platform/solution. In addition, they offer rapid onboarding for multiple vendors and drive operational automation using AI/ML.

Solutions for 5G Standalone and Slicing Assurance

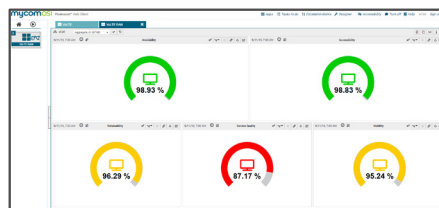
MYCOM OSI developed the streamlined, purpose-built 5G Standalone and Slicing Assurance Solutions keeping the complexities of 5G network and service assurance in mind, while ensuring that 5G services are differentiated for the customer, simple to assure for the operator, and resource-efficient for the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

- 5G SA Network 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**
Providing intelligent diagnostics to identify worst performing 5G cells/clusters
- 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**
Prompt Go-No-go indication for newly deployed 5G cell sites
- 5G SA Service Quality & Impact Analyser**
Identifying service bottlenecks to the lowest measuring level
- 5G Network Slice Assurance**
Service assurance for static and dynamic mobile network slices

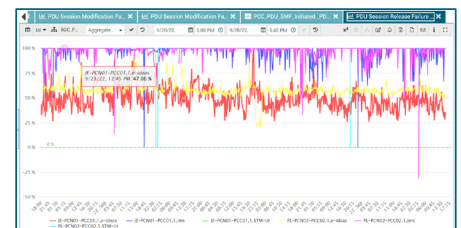


The solutions cover the following critical features required for the assurance of 5G Standalone networks:

1. Correlating different data sources intelligently, including performance, fault, configuration and other aggregated data sources
2. Supporting automated on-boarding and activation of assurance for components compliant with open interfaces within Radio Access Network (RAN)
3. Interfacing with different orchestration engines to optimize performance of individual and groups of network slices for network and business KPIs and SLAs
4. Supporting virtualization of network components across core, IT, transport and RAN domains
5. Automating cross-domain processes using advanced analytics to intelligently discover how events impact network performance




5G SA Service Quality and Impact Analyser: RAN level drill down dashboard




5G Network Slice Assurance: PDU session release failure ratio per slice



Plug-in 5G Assurance Solutions to prevent rollout delays and to enable mobile and enterprise services faster.



Inbuilt AI and Automation reduces problem resolution times by 40% and reduces TCO by 50%.



Automation of 5G slice management from automated service creation to automatic rerouting of the service due to QoS violation and predicted SLA breaches.

Key Features

Dashboarding for 5G core, RAN and Slicing Visualization

Offers 5G Standalone (Slicing) core and RAN visualizations through high-level dashboards and KPIs for consumer and corporate slice performance; enables slice allocation to maintain QoS/SLA guarantees for enterprise customers.

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. Worst cell/cluster analysis and domain monitoring solutions are supported for multi-vendor 5G Open RAN.

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 5G Standalone

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 KPIs.

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.



MYCOM OSI's SaaS offering is the perfect fit for our Performance Management Strategy, allowing us to concentrate on delivering differentiated, reliable performance as we expand 5G coverage and accelerate the release of advanced differentiated services.

Athanasios Avgeridis, Senior Vice President, Core IP networks & Operations Technology & Head of Crisis Management, Magenta Telekom, Austria

Connect with us

For a personal demo and discussion about how the 5G Standalone and Slicing Assurance Solutions can benefit your business.



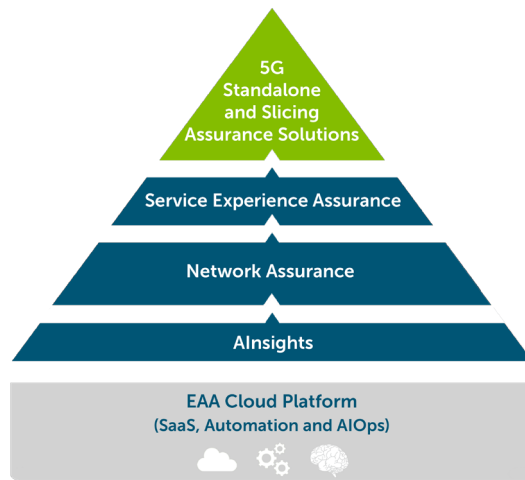
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5G Standalone and Slicing Assurance Solution – Powered by the Assurance Cloud™

MYCOM OSI's 5G Standalone and Slicing 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 and Slicing 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.



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.

