



THE NETSCOUT ADVANTAGE

- Industry-recognized RAN expertise with well-published technologists.
- High-performance, lowest-cost architecture with near real-time capabilities.
- Field-proven solution actively replacing existing vendors with a lower hardware TCO.
- Scalable, purpose-built smart RAN metadata for AI big data system consumption.
- Long-term relationships with the world's largest carriers.
- The only RAN vendor monitoring over 7 million LTE and 5G cells and serving 4,000+ unique daily users.

Omnis RAN Automated Analytics and Automated Optimization

A New Approach for Network Growth, Business Transformation, and 5G Profitability

In the race to cost-effectively deploy and manage 5G services to offer subscribers higher bandwidth applications and superior low-latency services, mobile service provider success relies heavily on the performance and interoperability of the radio access network (RAN) and technology-enabled subscriber handsets.

By design, the RAN has evolved to support next-level capacity and latency requirements.

- New and higher bandwidth frequencies translate into small cell deployments exceeding traditional LTE cells by a factor of five.
- Cloud-ready 5G architectures drive an immediate need for automation in operations and optimization functions.
- Specialized and problem-specific artificial intelligence datasets for AI/ML are needed to address both traditional and new challenges.

5G Adds Complexity for Traditional RAN Challenges

- Coverage
- RF Overshooting
- UE Capability
- Neighbor Cell Relations
- Antenna Cabling Errors

Evolving Standards Create New Challenges

- Carrier Aggregation
- Ultra Low Latency
- Distributed RAN Components

As traditional RAN Automated Optimization of capacity, interference, and coverage objectives proves increasingly cost prohibitive, mobile operators need innovative and comprehensive workflows to help them analyze information quickly and confidently take next steps.

Diverse NEM Offerings Lag Behind Technology Innovations

New architectures have paved the way for the introduction of new gNodeBs and 5G-enabled handsets.

With network equipment manufacturers working around the clock to win business with leading service providers, initial NEM offerings are limited with basic 5G functionality and growing operational gaps.

To address the inevitable disconnect, service providers require automation tools that can help them deploy and cost-effectively optimize evolving RAN architectures.

Omnis RAN Enables an Informed Evolution

With the introduction of the Omnis™ RAN Automated Analytics and Automated Optimization solution NETSCOUT® delivers a customizable and holistic approach for network growth, business transformation and 5G profitability.

Distinct modules address the specific RAN challenges facing mobile service providers when deploying 5G, allowing for the customization of datasets and reporting capabilities that matter most.

- Discover the power of NETSCOUT Smart Data with highly scalable standalone offerings designed to support existing automation systems and feed third-party data lakes.
- Extend the value of deployed NETSCOUT tools and instrumentation with seamless integration and streamlined workflows for advanced troubleshooting of RAN issues as well as ongoing performance tuning capabilities.
- Improved geolocation accuracy enables superior service quality and monetization studies with correlated high-definition data and error-detection auditing.

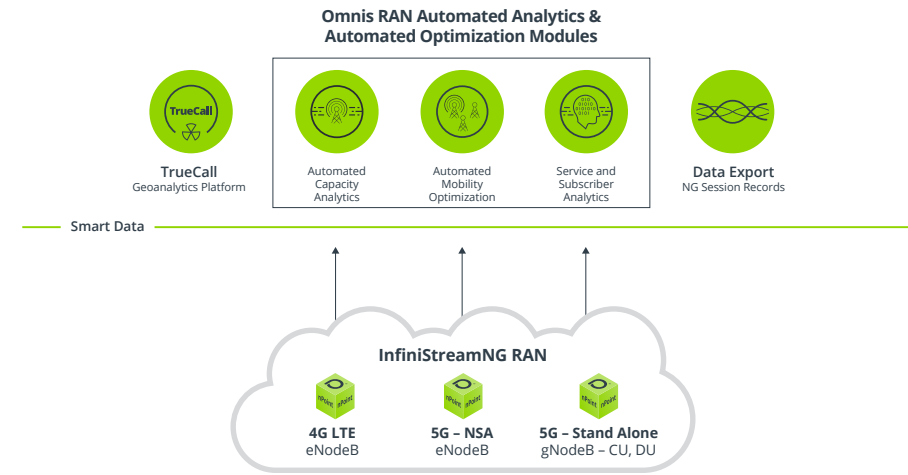


Figure 1: The Omnis RAN Automated Analytics and Automated Optimization solution utilizes Smart Data from the InfiniStreamNG RAN instrumentation layer. With purpose-built modules to address specific 5G priorities, Omnis RAN works seamlessly with existing troubleshooting tools and network performance tuning applications for a lower total cost of ownership and single-pane views for added productivity and operational efficiencies.

Omnis RAN Automated Analytics and Automated Optimization

NETSCOUT's automated analytics and automated optimization modules complement existing RAN-to-CORE network troubleshooting and performance tuning solutions to provide actionable insights and automation in support of business transformation initiatives.

Automated Mobility Optimization

Manage network complexity and ensure effective operations in high volume, high-diversity cell environments.

- Ensure quality handover performance with neighbor relation analytics and optimization capabilities.
- Efficiently identify root cause and prioritize resolution of quality issues due to PCI collision/confusion.
- Isolate and remedy swapped sector issues introduced by antenna cabling errors.

Automated Capacity Analytics

Troubleshoot and optimize cell user plane performance through validation of 4G/5G carrier aggregation methods and dual connectivity support.

Service and Subscriber Analytics Module

Monetize your technology investments with actionable insights to drive fixed wireless access subscriptions and profitable 5G RAN slicing for enterprise customers.

Revenue Growth and Network Evolution

In addition to targeted automated analytics and automated optimization modules, the Omnis RAN solution takes full advantage of industry-leading leading technology for network profitability and advancement.

- Maximize geomarketing revenue opportunities with geolocation accuracy and precision and real-time session record export.
- Enhanced RAN network element performance analytics address V-RAN multi-NEM deployments to meet ongoing evolution milestones.
- Leverage RAN cell performance feeds for SON/O-RAN optimization initiatives.



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