

NITRO Mobility

Cloud-native Subscriber-centric Location Intelligence, Automated Assurance & Analytics, and Optimization

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Manage complexity, maintain visibility, and enable automation while delighting customers and taking advantage of new revenue opportunities

Today's mobile service providers face enormous pressures: the evolution to cloud, network automation, IoT, and 5G. Massive complexity. Massive traffic increases. With 5G, it's no longer just about smartphones/mobiles anymore - it's about mobility of anything that is cellularly attached. All while facing ongoing CAPEX and OPEX reduction demands. VIAVI, leveraging our heritage of assisting service providers maintain visibility while managing technology change, introduces NITRO Mobility that meets these service provider challenges head-on.



NITRO Mobility, leveraging our heritage of assisting service providers manage technology change, is a subscriber-based automated assurance and analytics, location intelligence, and optimization solution built on NITRO, the industry's first cloud-native, micro-services based real-time intelligence platform. NITRO Mobility is forged around key underlying VIAVI principles of:

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Fidelity & Accuracy

Obsessed with precision and exactness



Robustness & Integrity

Continually strive for rigor and stability



Intrinsic Innovation


Constantly driving new, elegant and advanced technologies

VIAVI has been providing service providers assurance and analytics solutions and assisting them with challenging technology transitions for close to 40 years. **VIAVI is a trusted partner** with the world's leading expertise in RAN Assurance and Location Intelligence

NITRO Mobility enables operators to extract value aligned with the operator's investment for such visibility via an adaptable data model enabling:

Subscriber-centric automation of cell site verification, reducing deployment time and OPEX while increasing overall quality of subscriber experience.

Use Case: Automated Site Verification



CHALLENGE

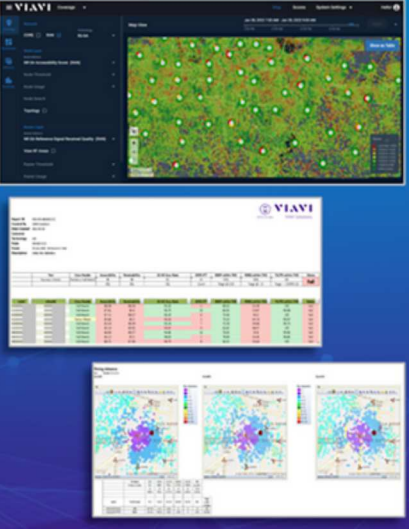
Global operators, as a part of their Digital Transformation initiative, need to reduce cost (CAPEX/OPEX) by increasing automation

RAN teams validate between 1,000 to 10,000 sites per year (depending on operation size)

We are at an inflexion point, where global operators are deploying a new complex technology, and the need of site densification is high (ubiquitous connectivity)

SOLUTION

Automated Site Verification



BENEFITS

- Move closer to complete site turn-up automation via guided automation
- Generate automated new site activation reports without the need for expensive and time-consuming drive tests
- Save execution time and actions needed to improve subscriber QoS
- Ultimately reduce deployment time and OPEX while increasing overall subscriber experience quality

Subscriber-centric flexible and automated RF optimization of cell sites based on operator defined objectives saving OPEX and even CAPEX in energy consumption use cases:

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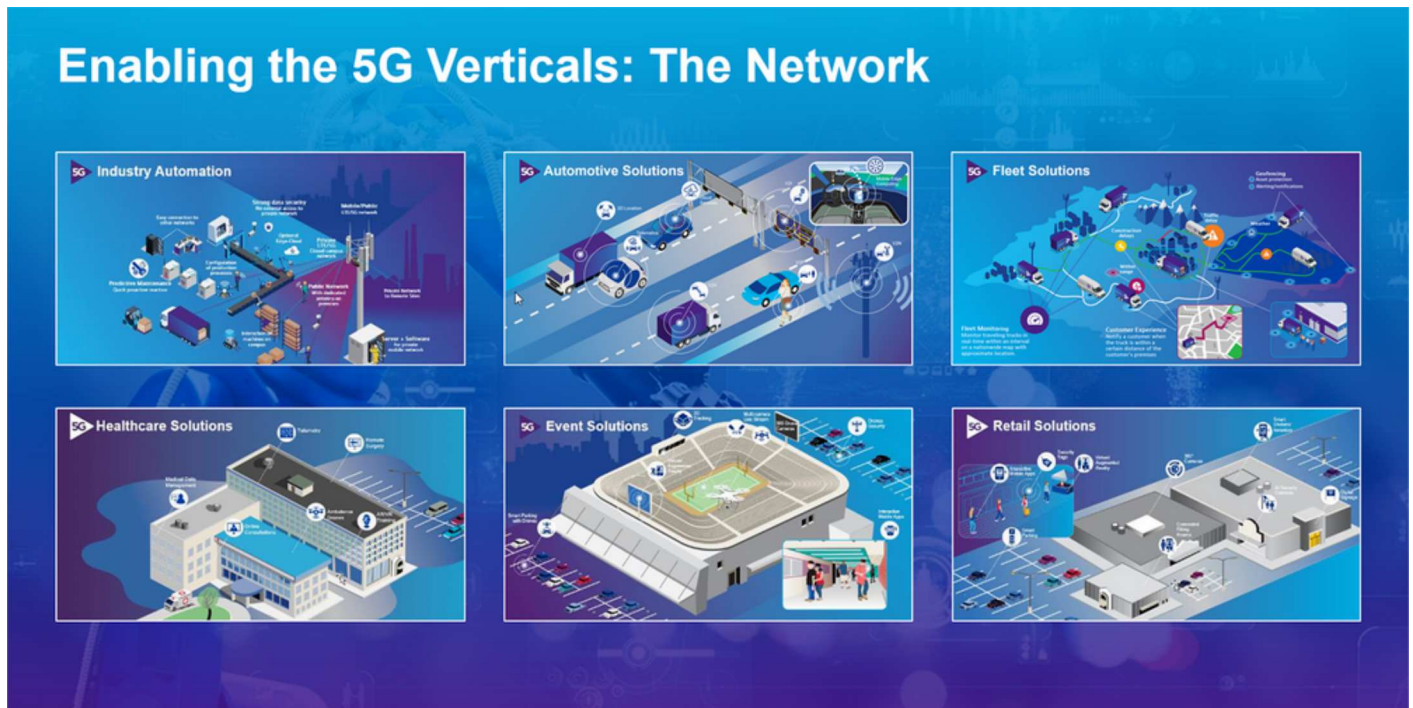
Subscriber-Centric Optimization Approach

via VIAVI NITRO Mobility



1508-900.0623

Flexible sizing and deployment models enabling unique mobile network operator revenue expansion via such areas as automated service delivery and new vertical opportunities of Private LTE/5G, IoT, Edge, and more with a total cost of ownership aligned to the operator's use case



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RAN Assurance Challenges and Opportunities

CHALLENGE

- Balancing data visibility and workflow requirements
- Regulating cost to optimize solution return on investment
- Given the continued exponential growth of data and resource allocation/reallocation based upon operator visibility needs



NITRO Mobility

SOLUTION

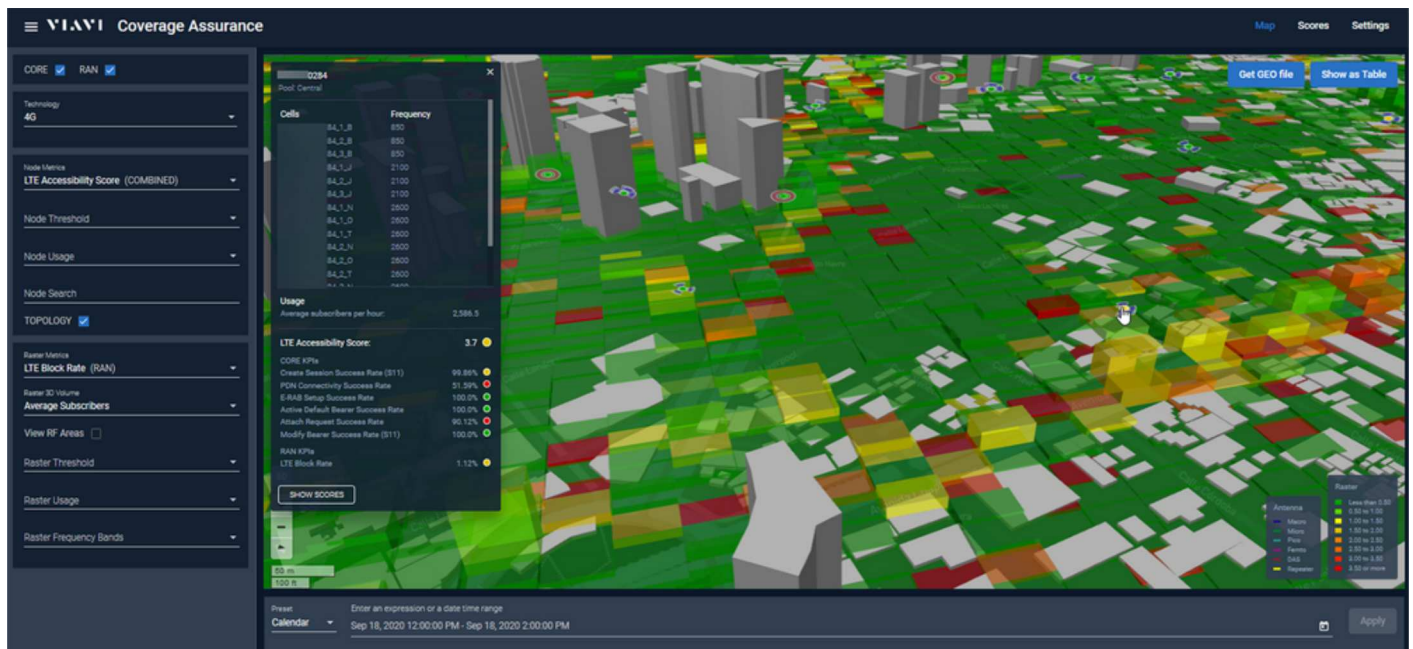
Leverage:

- Assurance Slicing
- Pipelined Microservice Architecture
- RAN Trace Broker...with machine learning enabling balancing of:
 - Pre- vs. Post- Calculation
 - Processing Complexity
 - Storage Depth
 - Workflow Specific Population Prioritization

RESULTS

An optimized solution with specific resource allocation mapped to workflows adjustable as operational demands change

Evolve towards Automated Assurance with rapid issue identification and resolution in just a few clicks via NITRO Mobility guided automation workflows - solving issues with less manpower reducing OPEX



Integrate with 3rd party feeds to further advance enrichment of NITRO Mobility subscriber-centric network data and location intelligence via Open APIs to enable operator business units with business process systems and to provide the analytics, reports, and location intelligence to enable operators with an array of additional revenue opportunities

VIAVI stands at the intersection of its rich heritage and innovation in location intelligence, assurance and analytics, and optimization solutions helping operators maintain visibility as they transition technology turns throughout the technology and network lifecycle. NITRO Mobility offers a technologically elegant solution to solve tough challenges such as the transition from LTE, to 5G Non-Standalone, to the service-based architecture of 5G Standalone today, and technology changes beyond.

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