

# Accelerate Open RAN Industry Vertical and Integration Automation Software Development



# SECURE NTIA NOFO 3 FUNDING WITH VIAVI

## Your Trusted Partner in Network Test, Automation, and Optimization

When applying for NTIA's NOFO 3 funding, partnering with VIAVI can set your proposal apart. As the sole test and optimization vendor awarded funding for NOFO 1 and a trusted partner for NOFO 2, VIAVI offers unparalleled expertise and solutions to strengthen your case:

### Why Choose VIAVI



#### AI RAN Scenario Generator

Leverage VIAVI's world leading TeraVM AI RSG to efficiently train and validate RIC/SMO applications in diverse network conditions. Enhance network performance, reliability, and competitiveness to submit winning NOFO 3 proposals.



#### ML App Validation Engine

VIAVI's unique App Validation Engine allows app vendors trial their app in a real network environment. Run apps in our network emulator with real UEs, mobility patterns, traffic mixes and cell anomalies to validate the effect the app has on achieving its desired outcome.



#### Access to VALOR™ Lab

Benefit from the VALOR Lab, funded by NTIA's Public Wireless Supply Chain Innovation Fund (NOFO 1). With expert tools, skilled staff, and minimal ramp-up time, streamline your 5G and Open RAN deployments. Built on the VIAVI leading NITRO Wireless portfolio comprising RANtoCore test and optimization solutions.



#### Cybersecurity Solutions

Comprehensive cybersecurity solutions including O-RAN Security Test Specifications, SASE, PQC, and firewall testing.



#### Geolocation-Enhanced r/xApps

Empower RIC/SMO platforms with continuous geolocation insights and subscriber-centric data for smarter decision-making.



#### Proven Global Expertise

Successfully deployed Open RAN testing solutions with major operators worldwide, adhering to TIP, 3GPP, and O-RAN Alliance specifications. Leverage automated test specifications, VAMOS automation tool and expertise gained from O-RAN Alliance WG5 participation.



#### O-RAN Plugfest Leadership

Participated in over 120 O-RAN Plugfests, helping vendors integrate solutions, ensure compliance, and achieve readiness for field deployment.

# ADVANCED TESTING SOLUTIONS

VIAMI offers comprehensive solutions for all your needs, from lab to field performance evaluation and validation.

## RIC/SMO Test

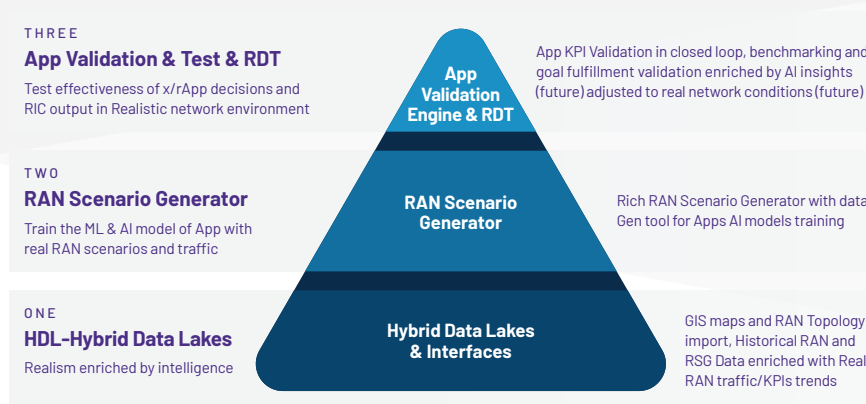
The RIC/SMO test solutions train and test AI applications that manage radio resources and enable their validation in SMO Frameworks.

Our capabilities enable tailored applications for specific industry verticals, addressing the complexity of multi-vendor open networks with seamless integration and performance.

## TeraVM AI RAN Scenario Generator (AI RSG)

A critical tool in VIAMI's portfolio, AI RSG optimizes test and training, reduces cost and most importantly enhances performance by harnessing network data and AI/ML through the RIC and r/xApps. It simulates up to 10,000 UEs and thousands of cells, enabling realistic testing of AI/ML applications. Features include:

- **Real-world mapping:** Import maps with streets, buildings, and network configurations
- **AI/ML training:** Test apps in realistic RAN scenarios
- **Scalability:** Deploy in Docker containers or on dedicated servers with flexible data granularity



- **RAN Digital Twin:** Incorporating network data and KPIs to enable Digital Twin Training with real-world network measurements
- **TM500 family and TeraVM AI RSG:** End-to-end lab validation
- **VAMOS:** Automates test campaigns, cases, and executions in a single cloud-based platform
- **NITRO Location Intelligence:** Captures field data, sends it to the lab via AI RSG, and optimizes RAN performance with API exposure
- **OneAdvisor 800:** Ensures correct and optimized system deployment through field performance evaluation
- **xEdge:** Collects live data for deployment validation

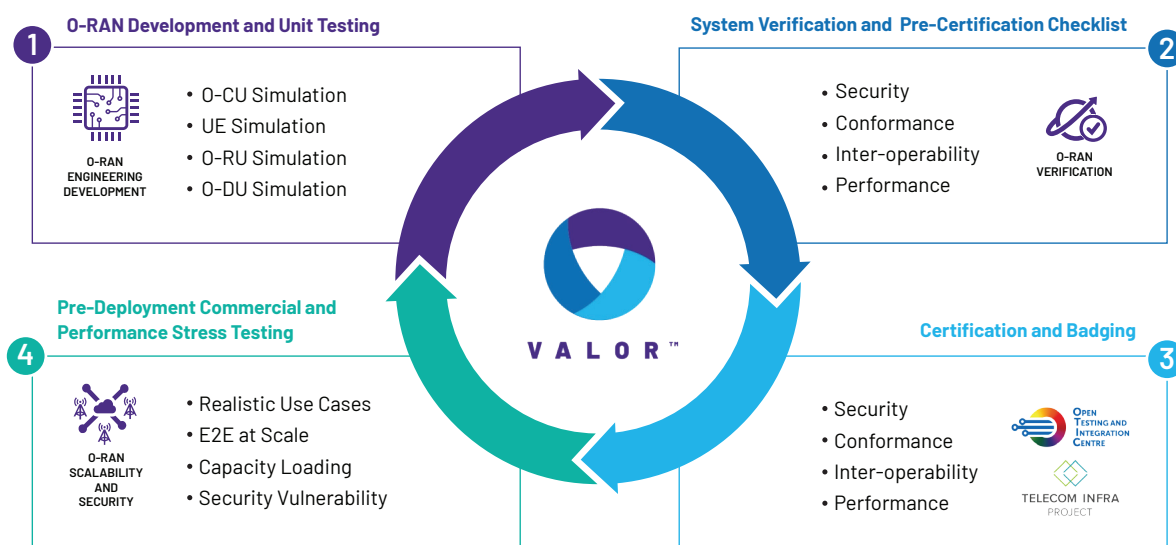


# VIAMI AUTOMATED LAB-AS-A-SERVICE FOR OPEN RAN

The commercially available Open RAN test solutions mirror that of the NTIA-funded VALOR Lab, made possible by a \$21.7 million grant from the first PWSCIF (Public Wireless Supply Chain Innovation Fund) Notice of Funding Opportunity.

VALOR provides fully automated, impartial testing and integration for Open RAN. It offers an on-demand test suite covering O-RU conformance, performance, security, and interoperability testing, leveraging a full set of golden Open RAN compliant components from reputable partners and a large RF anechoic chamber.

## VALOR Services Life Cycle



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At the VALOR lab, we provide an on-demand test suite. In addition, leveraging golden Open RAN compliant O-RUs, O-DUs and O-CUs provided by several reputable partners and a large RF anechoic chamber, VALOR offers customers the opportunity to integrate their prototypes and validate the performance prior to demonstration in a field environment.

VIAMI also offers an Automation Management and Orchestration System (VAMOS) to assist with the integration and testing of multi-vendor equipment. VIAMI Test-as-a-Service (TaaS) supports short-term and time-sensitive 5G and Open RAN projects. Available to all NOFO 3 applicants, the TaaS offering provides a complementary alternative to handle peaks in lab demand with customers' in-house testing approach.

## PARTNER WITH US

With a focus on innovation and collaboration, VIAVI is committed to supporting the NTIA’s objectives and the broader goals of advancing secure, efficient, and cutting-edge telecommunications infrastructure.

<b>A Century of Expertise in Network Innovation</b>	3GPP/0-RAN
<b>Complete Testing, Automation, and Optimization Portfolio, from RANtoCore</b>	Lab testing, field deployment, and live optimization
<b>Market-leading AI-driven RAN Scenario Generation</b>	Simulate real-world RAN environments
<b>Comprehensive Use Case Coverage</b>	Traffic steering, energy efficiency, mMIMO, anomaly detection, app collision resolution
<b>Test Automation</b>	VIAVI Automation Management and Orchestration System (VAMOS)
<b>Network Digital Twin</b>	Tailored digital replicas of the network, available as individual components or complete solutions
<b>Cost-Effective Capex and Opex Models</b>	Flexible VALOR Lab, Testing-as-a-Service (TaaS), and Lab-as-a-Service (LaaS) options
<b>Cybersecurity</b>	Compliant with NOFO 3’s requirements for a Product Security and Cybersecurity Management Plan.

Visit [Open RAN Test and Optimization | VIAVI Solutions Inc.](#) for more information.



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