

NITRO Wireless VAMOS

VIAVI Automation Management and Orchestration System

Challenges Facing Telecoms Industry

Complex testing requirements are growing, budgets remain flat, and resources are limited. Maintaining quality, reliability and operational efficiency across the 5G and Open RAN network development lifecycle and identifying problems early remain key challenges.

The VIAVI Solution

Integrated with the VIAVI NITRO® Wireless portfolio, VAMOS automates test campaigns, cases, and executions in a single cloud-based platform. Customizable workspaces and configurations streamline the testing process and improve resource use across teams and lab locations. Shared tool testbeds and individual sandboxes accommodate many test needs, while the platform's solid analytics and reporting help boost test accuracy. With AI, ML, and LaaS, VAMOS reduces operational costs by cutting man hours and improving fault analysis efficiency. Ultimately, it helps you get to market faster with better quality, all while staying within budget.

Business Impact

By implementing zero-touch automation and leveraging AI/ML technologies, lab efficiency and effectiveness can be maximized, significantly reducing response times and optimizing the use of engineering expertise. This transformation enables

faster decision-making and streamlines operational workflows across the lab environment. Additionally, the introduction of test sandboxes that can be executed anywhere enhances flexibility and scalability across lab locations.

A central scheduling layer, resource balancing, and test cost optimization drive improved utilization and lower operational costs. The use of off-the-shelf scheduling tools and open, tool-agnostic automation frameworks ensures consistency and simplifies integration, providing greater operational agility.

The disaggregation of hardware, software, and network functions through Commercial-Off-The-Shelf (COTS) server-based testbeds allows for more versatile and shared compute resources. Dynamic software tools can be selected on-demand, fostering flexibility while reducing the reliance on dedicated, costly hardware appliances. The preference for software-based tools increases scalability and adaptability, further enhancing operational efficiency.

Employing a best-in-class tool selection process and a robust fault slip-through mechanism improves the lab's ability to identify and resolve field issues early. By focusing on tools and processes that effectively detect problems, the overall quality and reliability of outputs are enhanced, delivering long-term business value.



Sample Use Cases

Use Case 1: Simplifies Complex Verification with Analytics Engine

- Open RAN Test Cases require multiple KPIs/ Logs distributed to multiple files/locations to check against PASS/FAIL conditions
- VAMOS automates collection of KPIs, Analysis and Generation of Open RAN compliant Reports
- VAMOS can be customized to support custom Test Cases and Reporting

Use Case 2: Maximize Utilization and Minimize Execution Time

The Intelligent scheduler enables:

- Prioritizes large test cases first with pooled resources
- Small Test cases can be executed in parallel with shared resources
- More test coverage can fit on the same resources

VIAVI Benefits

✓ OPEX Reduction

With AI, ML, and LaaS, VAMOS reduces operational costs by cutting man hours and improving fault analysis efficiency.

✓ Efficient Test

Centralized organization of test cases and campaigns to streamline test processes.

✓ Visibility

Gain insight into test case performance and project progress through monitoring, reporting and verdict validation.



Get started with VAMOS

Visit: [VIAVI Automation Management and Orchestration System \(VAMOS\)](https://www.viavisolutions.com/patents)



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