

VIAVI Wireless Express

Expert Insights to Optimize Your Network

What if you could predict and prevent network problems before they happen? Test major upgrades without risking downtime? That's the power of digital twins: virtual replicas of your network that let you experiment, fine-tune, and anticipate how your network will respond when running live.

As networks grow more complex, with constant software updates, AI/ML integration, edge computing, and virtualized architectures, operators face relentless pressure to ensure smooth operation and consistent quality of experience. Digital twins cut through the noise. They let you test, optimize, and innovate in a controlled environment, without endangering your live network.

Whether you're deploying current technologies or planning for the future, digital twins provide the clarity you need. Why take chances when you can simulate success? An intelligent network means no guesswork.

Top Stories



VIAVI Network Digital Twin - Double the Clarity

Choose individual digital twin components or a full RAN-to-Core digital twin. Using a combination of AI, synthetic data and real-world field data, VIAVI Network Digital Twin delivers realistic RAN simulations for safe training, testing, and network refinement, without live consequences. Discover what it can do for your network..

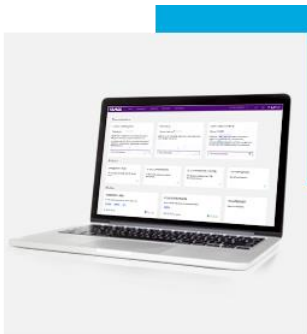
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[TeraVM AI RSG](#) – A NITRO® Wireless Product

The TeraVM AI RSG powers RAN Digital Twins, simulating real network conditions like topologies, mobility, and traffic profiles on real or synthetic maps. From 4G to 6G and NTN, it trains AI models to optimize advanced technologies like massive MIMO, enhancing network performance. Read the blog for more insights.

[READ THE BLOG](#) >



VIAMI Automation Management and Orchestration System (VAMOS)

VAMOS streamlines testing with customizable workspaces and shared testbeds, boosting efficiency across teams. Using AI, ML, and LaaS (Lab-as-a-Service), it cuts costs, improves fault analysis, and speeds time-to-market, all while delivering quality within budget.

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VIAVI Open RAN Laboratories

VIAVI [Automated Lab-as-a-Service \(VALOR™\)](#) in Arizona, funded by a grant from the U.S. National Telecommunications and Information Administration (NTIA) [Public Wireless Supply Chain Innovation Fund](#) is a highly automated Lab-as-a-Service that provides impartial testing for Open RAN interoperability, performance, and security. Based on the VALOR model, the [Open RAN Interoperability Laboratory in the Philippines](#) offers affordable, accessible Open RAN testing with an innovative, highly automated hybrid setup.



VIAVI Marconi Labs[®] - From Ideas to Products

VIAVI Marconi Labs, based in Stevenage, UK, is where telecom innovation happens. With a focus on 6G, our PhD scientists and engineers transform ideas into Proof-of-Concepts and advance them to real products. Discover the rich history of Marconi Labs.

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MWC Barcelona 2025 - Your Reliable Partner

In an industry racing toward next-gen connectivity, operators and manufacturers aren't just looking for immediate solutions - they're seeking a reliable partner for what's ahead. [Join us at MWC 2025 in Barcelona](#) for the best in Network Test, Automation and Optimization.

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