

VI.AVI 6G

6G IA Brokerage Event 2025

23rd May 2025

About VIAVI Solutions



VIAVI Solutions (NASDAQ: VIAV) is a global leader in communications test and measurement and optical technologies.

Network and Service Enablement

VIAVI tools and intelligence help Service Providers, NEMs, and IT organizations build, test, certify, monitor, maintain, optimize, and troubleshoot complex physical and virtual networks.

Optical Security & Performance Products (OSP)

A global leader in advanced thin film coatings, VIAVI enables precision optical products including security pigments, light shaping optics, and custom filter technology for commercial and government customers worldwide.

VIAVI Market Leadership

#1 WIRELESS AND AVIONICS



5G Test and Assurance



Location Intelligence



Land-Mobile and Military Radio



Aerospace, Nav/Comm, and Transponder

#1 TEST AND MEASUREMENT



Fiber



Enterprise



Cable and Access



Metro and Transport



Lab Production and Manufacturing

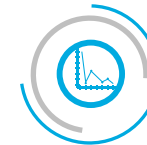
#1 SECURITY, SENSING, AND AUTHENTICATION



3D Sensing



Anti-Counterfeiting



Spectral Sensing

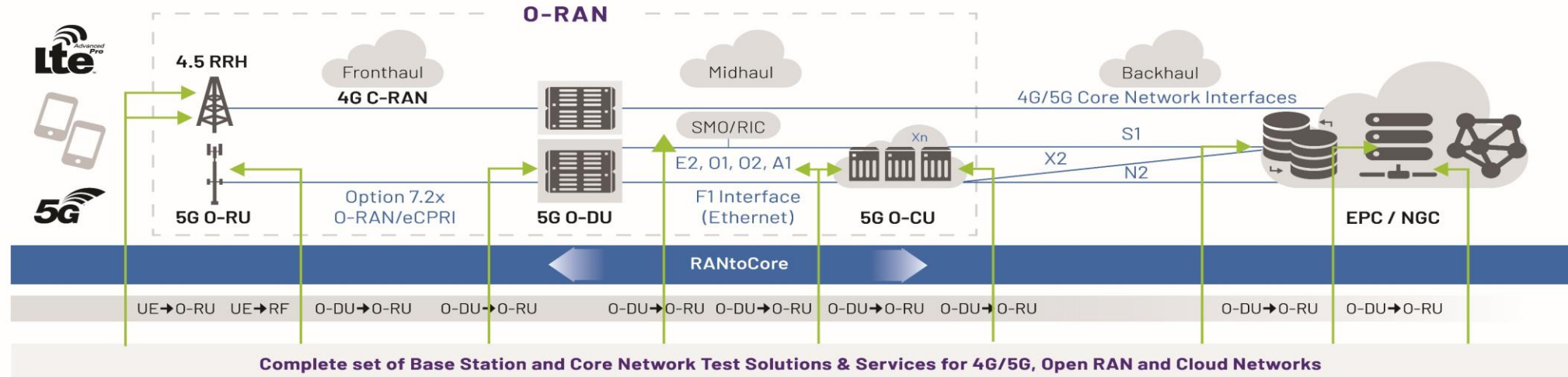


Automotive

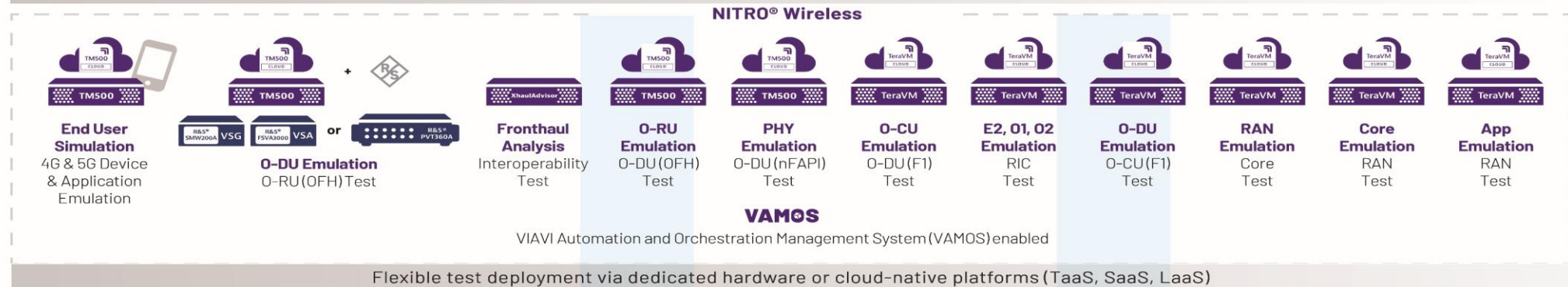


Government and Aerospace

FUNCTIONAL / PERFORMANCE / CAPACITY TESTING / SECURITY / TROUBLESHOOTING & ASSURANCE OF 5G RAN AND CORE



LAB



FIELD



RF Vision
Antenna
Alignment



TBERD/MTS-5800
Network Tester
X-haul, Latency,
Timing & Sync Testing



OneAdvisor 800
All-in-one Cell Site
Installation &
Maintenance Test Tool;
Fiber, Coax, and RF



VIAVI StrataSync enabled



NITRO Location
Intelligence
Optimization and
Automated GEO
Location



NITRO AIOps
Cloud Native
Inventory
and Analytics



NITRO Core
Core Network
Assurance



NITRO Transport
Transport Network
xHAUL Virtual Service
Activation and PM

VIAMI participation worldwide



VIAVI 6G - Research to Reality



6G MULTIPLE ACCESS

New multiple access schemes offer several advantages to address the drawbacks of conventional MU-MIMO systems in challenging scenarios.

RSMA downlink transmission scheme for overloaded networks.

► [Rate Splitting Multiple Access Video](#)



6G RAY TRACING

Ray tracing is a powerful technique used for generating channel data deterministically from a 3D model of an environment.

Real-Time Raytracing Digital Twin technology to visualize the radio wave environment in real world.

► [Ray Tracing VIAVI HQ Video](#)

► [Ray Tracing Denver ICC Video](#)



6G AI

AI/ML across all network functions will result in an unprecedented network automation and agility.

Neural and neuromorphic transceivers and receivers in a comprehensive test and training setup.

► [AI Neuromorphic Receiver Video](#)

► [AI Beam Management Video](#)

► [AI Neural Receiver Video](#)



6G COMMS & SENSING

Integrated sensing and communications (ISAC) is one of the key pillars of 6G. In ISAC, sensing functionality is added to the communication systems to use the network as a sensor.

Transmitter and receiver ISAC/JCAS algorithms.

► [Joint Communications and Sensing \(JCAS\) Video](#)

Please follow the link for more information



[6G Forward | VIAVI Solutions Inc.](#)

Topics of Interest for SNS-JU 2025 Call

- **B-01-01 (Advanced Architectures Systems and Technologies)**
 - Goal-oriented communications
 - Performance evaluation for new architectures
- **B-02 (Wireless Communication Technologies and Signal Processing – Standardisation and Follow-up/PoCs)**
 - AI-based transmitter/receiver design
 - AI-based beam management
 - Waveform/multiple access design
 - Semantic communications
 - XL-MIMO, distributed MIMO
 - AI-based channel and RAN emulation
 - Physical-layer security
 - PoC development for topics above
- **B-03-01 (6G NTN-TN Unification/Integration)**
 - NTN physical layer design
 - NTN performance evaluation
 - TN-NTN coexistence
- **B-04-01 (Smart Security / Security Services)**
 - ZTA/Mutual Authentication
 - Advanced security schemes applicable to 6G APIs
 - Intent-based security
 - Performance evaluation for new security architectures
- **B-04-02 (Reliable Services Operation)**
 - Automation and Intelligence in Security Operations
 - PQC Security
 - Performance evaluation considering energy efficiency
- **C-01: 6G Telco Cloud and Service Provision Enablers**
 - Test support to PoC development (UE, RAN, Core, traffic, channel emulation)
- **D-01: SNS Trials and Pilots (T&Ps) with Verticals**
 - Test support to PoC development (UE, RAN, Core, traffic, channel emulation)



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For further discussions, pl. contact

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