

NITRO Wireless

Testing Radio Access

A OneAdvisor 800 Wireless Solution

Network Operator Challenge

5G base stations need to be deployed in far greater numbers compared to LTE. Not only does this create a cost issue for operators but it also creates a challenge in employing sufficient numbers of suitably skilled engineers to perform cell site installation and maintenance.

The VIAVI Solution

The VIAVI OneAdvisor 800 has been elegantly designed to verify and troubleshoot radio access networks of all types, from private 5G networks, to land mobile radio networks, to legacy networks still providing great service. The OneAdvisor 800 leverages multi-functional architecture, covering different test applications, scaling, and adapting to many different user groups. By using built-in automated test routines, it removes complexity from cell site turn-up by having all required tests in one portable tester allowing faster cell-site turn up and simpler training of engineers.

Business Impact

5G rollout costs for network operators can be reduced in three different ways. Firstly, automated testing accelerates time-to-revenue by keeping construction schedules on track. Secondly, helps inexperienced field technicians come up to speed faster with easy-to-use, automated processes. Thirdly, reduces the incidence of costly rework with easy-to-use test processes and accurate test results. And for contractors, it eliminates unreliable closeout results, helping to ensure payment in a timely manner.



Sample Use Cases

Use Case 1: All test aspects of the transmission lines of any cell site are quickly tested with OneAdvisor 800: validate coaxial cable, antennas, as well as fiber characterization and inspection

Use Case 2: Radio transmission verification according to 3GPP standards, maintenance practices assessing radio power level and coverage, as well as the ability to identify and locate interference impairments.

VIAVI Benefits

- ✓ **Easy-to-use test processes**, test automation, and ability to connect to experts remotely means inexperienced technicians come up to speed faster and test more accurately.
- ✓ **Intelligent Signal Detector** that quickly shows technicians the active channels in use in a complex RF environment.
- ✓ **Complete fronthaul/backhaul testing:** OneAdvisor 800 Wireless platform can not only test every aspect of a cell site, including fronthaul and backhaul testing covering CPRI, eCPRI, and Ethernet validation.
- ✓ **4G, 5G, Low-band CBRS, C-band, and mmWave testing** at the same time using the same device. Comprehensive 5G conformance verification, signal performance, synchronization and timing validation, service coverage assessment, as well as uplink interference mitigation.



Get started with VIAVI Core Test Solutions

Visit: viavisolutions.com/products/oneadvisor-800-wireless-platform



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