

Nemo Network Benchmarking Solution

Benchmarking Real End-User QoE in 5G Networks



Nemo Network Benchmarking Solution (NBM) is an innovative, modular, fully scalable, and distributed drive test benchmarking solution that enables mobile operators, regulators and service contractors measure wireless networks reliably and cost-effectively.

Features

- Modular and scalable benchmarking system
- Captures relevant KPIs for effective identification of QoE and QoS issues
- First-to-market support for the latest flagship devices and technologies
- Measurements with up to 60 phones and two scanners simultaneously
- Distributed system architecture
- All devices controlled by Nemo Outdoor
- Flexible mounting accessories
- Enables lab testing with real devices and applications

Benefits

- Improve end-user quality of experience and service
- Ensure the competitiveness of your wireless network to optimize customer satisfaction
- Save time and money by measuring everything in one test drive with a high number of devices
- Increase sales revenue
- Minimize churn
- Shorten time-to-market with new technologies and terminals

End-to-end Automated Data Processing

Thanks to the unique system architecture, the measurement load is distributed across the test equipment, and all devices are run by Nemo Outdoor providing a powerful but easy-to-use benchmarking system. One measurement setup can be extended to include up to 60 simultaneous test devices and two scanners. All tests are run by Nemo Active Testing Application on the test devices reflecting real end-user quality of experience. MOS scores are calculated with the very latest, 5G-compatible POLQA 3 algorithm.

By combining Nemo Network Benchmarking Solution with Nemo Cloud and Nemo Analyze, you can create an end-to-end automated data processing environment from the collection of measurement data to analytics and reporting. Benchmarking data can be calculated as an NPS score that compares the quality of mobile networks and visualizes the quality of experience (QoE) that the end users perceive when running common applications inside a phone with real use cases in different environments.



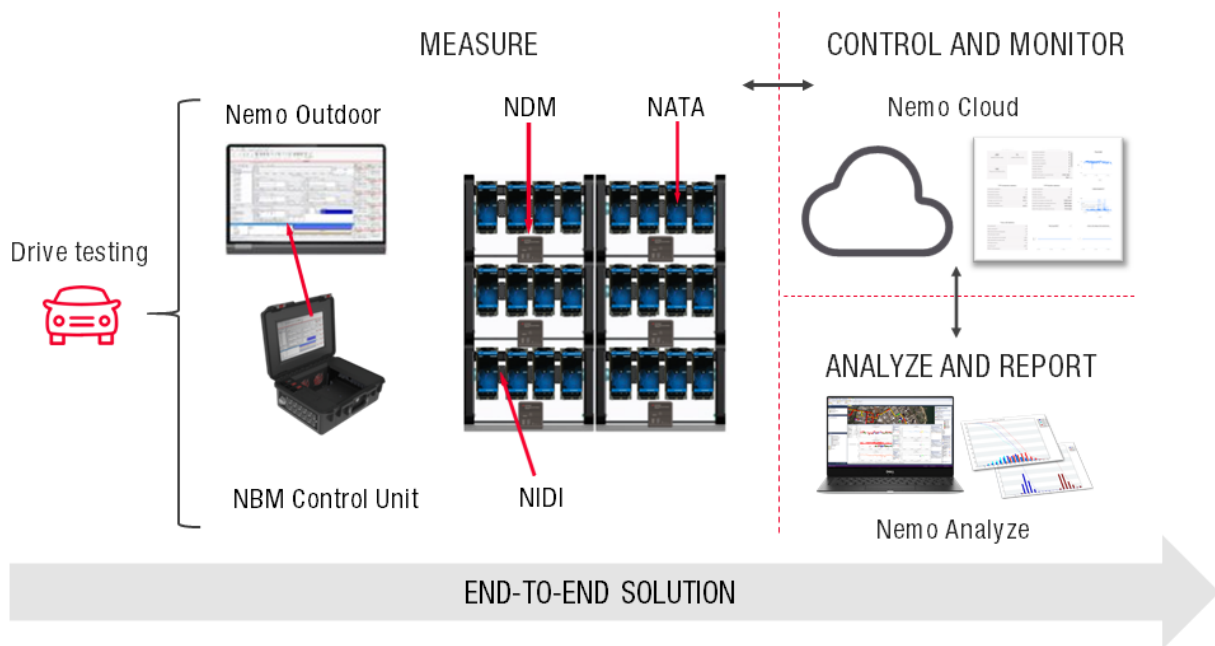
NBM offers multiple mounting accessories for your test devices enabling flexible installation in measurement vehicles.

In addition to drive testing, network professionals can use NBM to perform large-scale load testing, Massive MIMO testing, 5G NR beamforming, and O-RAN verification in the lab with real commercial devices and applications and gain realistic insight into network capabilities.

NBM can be used to compare the performance of different chipset versions, modems, base stations, and OTT applications using massive overnight test sequences. The fully automated device self-healing functionality ensures reliable measurement campaigns.

Nemo Network Benchmarking Solution delivers comprehensive and reliable measurement capability enabling you to collect measurement data and capture relevant key performance indicators for effective identification of quality-of-experience (QoE) and quality-of-service (QoS) issues. With the advanced benchmarking capabilities offered by Keysight, you will ensure the competitiveness of your 5G network to optimize customer satisfaction and minimize churn.

NEMO NETWORK BENCHMARKING SOLUTION (NBM)



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.