

Keysight Technologies

Nemo Wireless Network Solutions



NEMO

Anite is now part of **Keysight Technologies**

Improve network quality and end-user experience efficiently and cost-effectively with Keysight's Nemo wireless network measurement and analytics tools.

Optimization

Lead your market – enhance network performance

Evolving networks require constant optimization, troubleshooting, and fine-tuning. Our optimization solution offers tools for every stage of your network's lifecycle, be it on-site troubleshooting and maintenance in outdoor or indoor spaces or collecting quality of service (QoS) and quality of experience (QoE) metrics for network verification through drive or walk testing. Nemo tools from Keysight Technologies, Inc. generate measurement files in the open ASCII file format that can be utilized in our and third-party post-processing tools for immediate drilldown and analysis.

Benchmarking

Increase your market share and reduce churn

Today's competitive market requires operators to continuously improve voice, video, and data services. Furthermore, the emergence of a number of new technologies, such as IoT and upcoming 5G, have introduced operators to many demanding challenges in network planning and service optimization. Operators are required to measure multiple networks and multiple technologies, indoor and outdoor, in order to define their competitive service level and to ensure best possible coverage and quality of service. Nemo provides the most complete and flexible set of tools and platforms to benchmark LTE-A networks and compare performance of new IMS based services across service providers and applications.

Monitoring

Provide the best customer experience

In today's competitive market, providing the best customer experience is a key challenge. Our monitoring solution offers automated and proactive tools for monitoring network and service quality real-time from the customer perspective, providing steady streams of high quality data with minimal effort and at minimum cost. The tools are ideal for monitoring high value key customer locations, assuring service, and protecting revenue streams. They streamline your network measurement, troubleshooting, statistical reporting, and benchmarking processes, and give you the best possible overview of what is happening in the network.

Analytics and Reporting

Scalable, high-performance post-processing

Use high-performance data analysis tools to gain valuable insight into the state of your wireless/WiFi networks. Select the most cost-effective solutions to address issues and improve network performance. Keysight Nemo analysis and reporting product portfolio scales from desktop to OSS and big data enterprise level solutions. Our tools enable automation of key tasks in the network management life cycle, such as optimization, network acceptance, benchmarking, customer experience management, network performance, and in-building/small cell analysis – all in multi-vendor and multi-technology networks.

Autonomous Unattended Testing

Automate your measurements and reduce OPEX

Continuous improvement and measuring of wireless networks is essential in today's competitive markets. Continuous network performance monitoring requires resources and therefore increases costs. Our autonomous testing solution enables you to fully automate your network measurement projects, which in turn brings down the need for resources, directly reducing your OPEX. Our autonomous unattended testing solution tools can be installed in fixed or moving locations, monitored and controlled remotely in real time through a cloud-based web interface, and the measurement data can be sent straight for post-processing and analysis. Our solution streamlines your network measurement, troubleshooting, statistical reporting, and benchmarking processes while minimizing the cost of staff.

Nemo Solutions for:

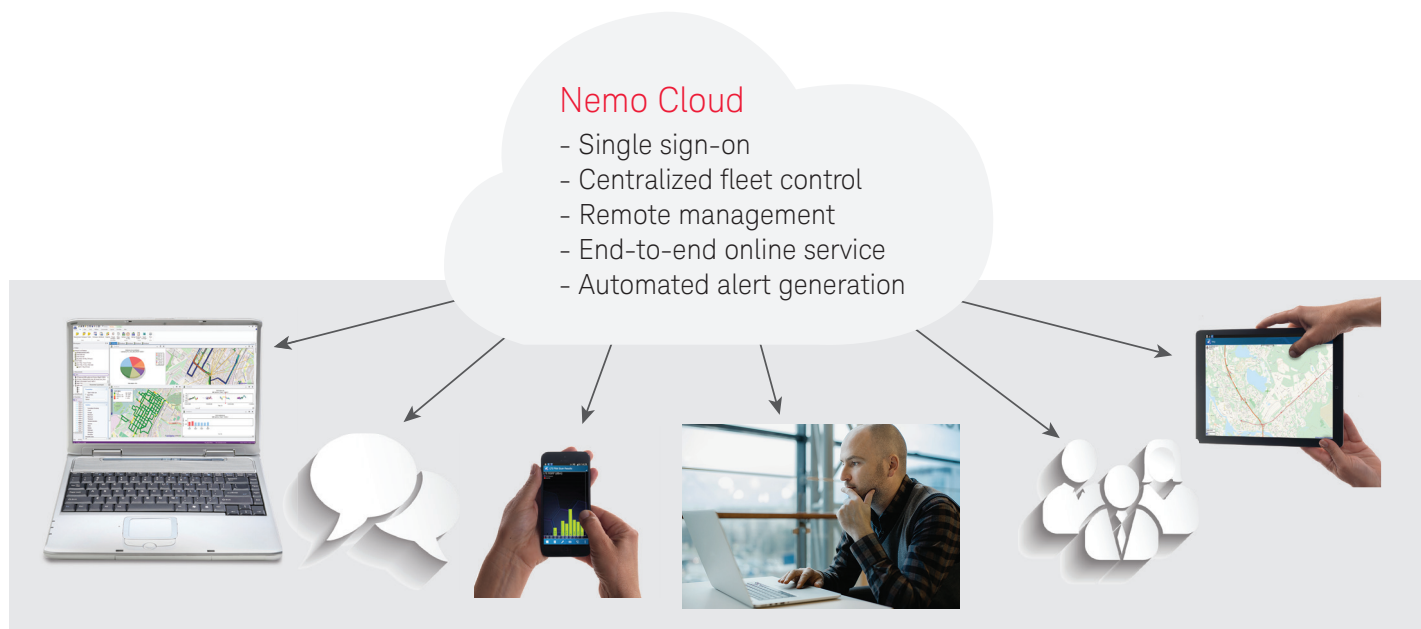
- Optimization
- Benchmarking
- Monitoring
- Autonomous Unattended Testing
- Analytics and Reporting

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Nemo Cloud

Centralized web-based remote control and management of measurement systems



Nemo Cloud is a unique, end-to-end online service that connects various Nemo products into one powerful, industry-leading solution enabling the remote access and control of Keysight's measurement and analytics solutions as well as efficient data sharing between users.

Nemo Cloud online access and single sign-on provide real-time control and monitoring of measurement product fleets as well as improved responsiveness of measurement projects in the field – including visibility to test data.

The centralized product and fleet control together with online inventory management, automated alert generation, product upgrades and online purchasing, give customers the tools to get more out of their measurement resources and product portfolio. Nemo Cloud improves product life cycle efficiency, directly accelerating the ROI for measurement solution investments.

Nemo Cloud enables remote fleet monitoring and management, project management, and post-processing and analytics. With Nemo Cloud, operators and service providers can interact seamlessly with their fleet of measurement products. Centralized control and storage enables direct online management of data while users can easily and effectively share information between solutions.

Moving from post-processing to a more real-time process creates more efficient operations leading to direct OPEX savings. Nemo Cloud is the ultimate cloud-based solution for streamlining test and measurement processes and workflows.

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Optimization and Benchmarking

Nemo Outdoor

Use the most efficient portable engineering tool for measuring and monitoring the air interface wireless networks. Nemo Outdoor, a laptop-based drive test tool, supports over 300 terminals and scanning receivers from various vendors. Its cost-effective, single software platform and modularity enables you to tailor the product according to your particular needs.

Nemo Outdoor's powerful software platform works for all technologies and for different protocol and application testing options. Nemo Outdoor is the only portable measurement solution on the market that offers multiple simultaneous data connection measurements and requires only one laptop to operate.



Nemo Handy

Nemo Handy offers smart and discreet solution for the measurement and optimization of the wireless air interface and mobile application QoS/QoE. Advanced Nemo Handy features include automated testing, voice quality testing, and forcing features.

The handheld Nemo Handy performs measurements both outdoors and in busy and crowded indoor spaces while being simultaneously used as a regular mobile phone. Nemo Handy products provide you with the best real-time measurement visualization on the handheld market.



Nemo Walker Air

Expand your wireless measurement capability with Nemo Walker Air, a portable tool for indoor benchmarking and multi-technology measurements. Nemo Walker Air measuring system includes one master tablet and one to seven measuring units. The master unit has centralized control of the slave units, conducting synchronized measurements.

An optional, customized backpack offers a compact and light-weight carrying solution for the whole system. Nemo Walker Air backpack includes high-quality USB batteries, and can be used as a standalone system without an external power source.



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Optimization and Benchmarking

Nemo Invex II

Nemo Invex II is an accurate, efficient, easy to use and application-rich benchmarking system for wireless networks. It combines powerful, intuitive software and scalable, robust hardware to create a superior solution for benchmarking wireless networks and devices. Easy to deploy, Nemo Invex II provides critical quality-of-service (QoS) measurements and a wide variety of quality-of-experience (QoE) service testing.

Nemo Invex II sets the standard for reliable and accurate measurements. Its enhanced power efficiency reduces the power usage per test device approximately by 50%. The innovative thermal design enables longer, uninterrupted and, therefore, more reliable measurements. With its easy to use features, Nemo Invex II offers the very latest measurement system technology.



Nemo FSR1

Nemo FSR1, a modular digital scanning receiver performs accurate high-speed RF measurements of wireless networks across multiple bands and technologies.

Nemo FSR1 supports measurements on GSM, WCDMA, CDMA, EVDO, TD-SCDMA and LTE FDD/TDD networks. Unique plug-in RF down converters make the scanner field-upgradeable, reducing service turnaround times. This offers higher productivity and lower total cost of ownership.



Monitoring and Autonomous Unattended Testing

Nemo Autonomous Probe

Nemo Autonomous Probe is an ideal solution for performing automated, unattended large-scale measurements. With Nemo Autonomous Probe, operators and national regulators can install measurement and benchmarking field units in fixed locations, in hotspots, or in vehicles to conduct continuous measurements of wireless networks. Nemo Autonomous Probe enables unattended 24/7 measurements, which reduces the cost of testing.

Nemo Autonomous Probe 4UE houses up to four Android smartphones for measurement and benchmarking and supports all 3GPP technologies up to LTE Category 9. With its proven and reliable automation, Nemo Autonomous Probe 4UE provides you with a cost-effective, continuous stream of up-to-date measurement data from the real-life routes of your customers.

Nemo Cloud allows network operators to remotely operate Nemo Autonomous Probe test units and check their status.

Nemo Customer Experience Monitor

Easily and discreetly collect quality of experience data with Nemo Customer Experience Monitor, a powerful, flexible, and scalable set of tools for monitoring wireless network performance and services from the end-user point of view.

With the solution embedded on the customers' smartphones, operators can guarantee a high quality of service, hence improving the quality of end-user experience.

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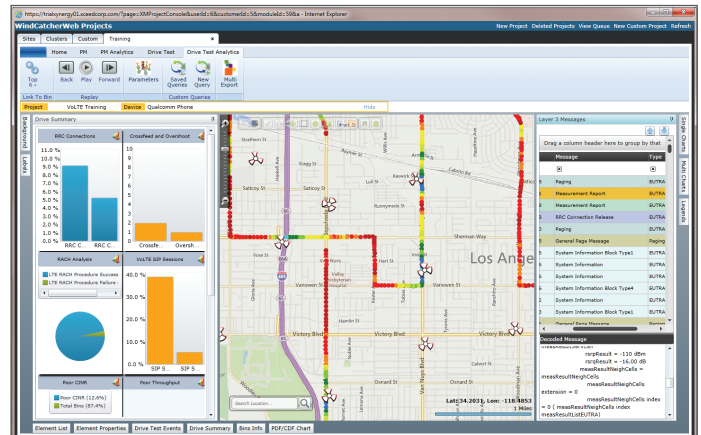
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Analytics and Reporting

Nemo Xynergy

Rely on the powerful, scalable, and easy-to-use Nemo Xynergy, a web-based platform for analyzing drive test, operational support system (OSS), and subscriber data. Automate key tasks in the network management life cycle. The tool supports multiple, disparate data sources and vendors for all major technologies, including HSPA+, VoLTE, and LTE-A.

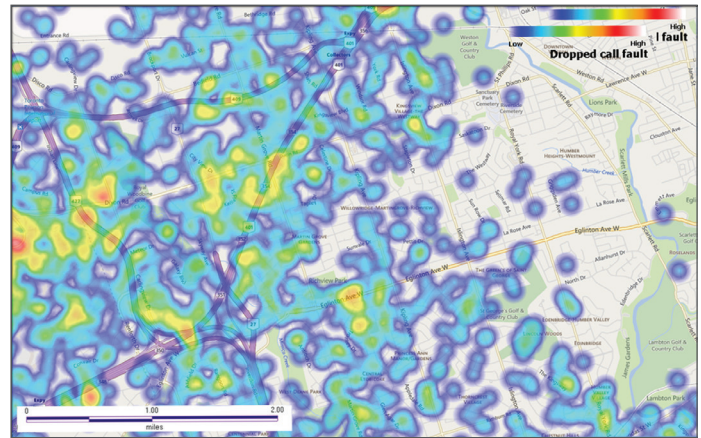
The platform is complemented by a state-of-the-art, fully user-configurable business rules engine. This rules engine can drive in-depth rules, logic, and automation that allows Nemo Xynergy to rapidly pinpoint problems through correlated analysis across all available data sources and produce actionable alerts, reports, dashboards, and customized Key Performance Indicators (KPIs).



Nemo WindCatcher

Nemo WindCatcher is a user-friendly desktop-based drive test data post-processing tool used by design engineers, performance engineers, handset testing groups, and technology development groups.

The vendor-neutral, multi-data Nemo WindCatcher software, with its out-of-the-box features, provides the most complete solution data post-processing tool available. With Nemo WindCatcher's powerful data aggregation functionality, call trace data analysis, and detailed reporting, you can quickly identify and solve problems, maximizing overall productivity and efficiency.

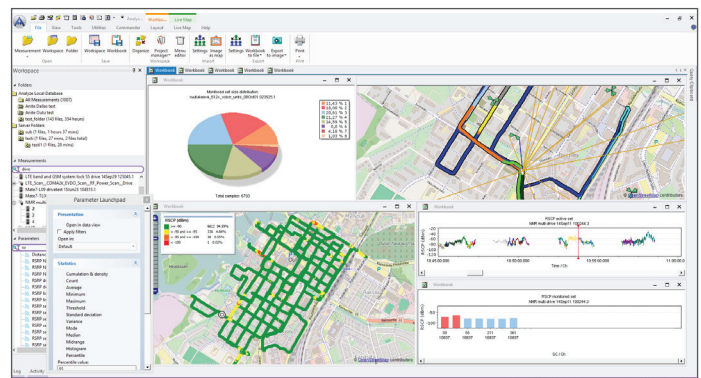


Nemo Analyze

Perform benchmarking, automated troubleshooting and statistical reporting based on drive test data with Nemo Analyze, a powerful and versatile, cutting-edge analysis tool.

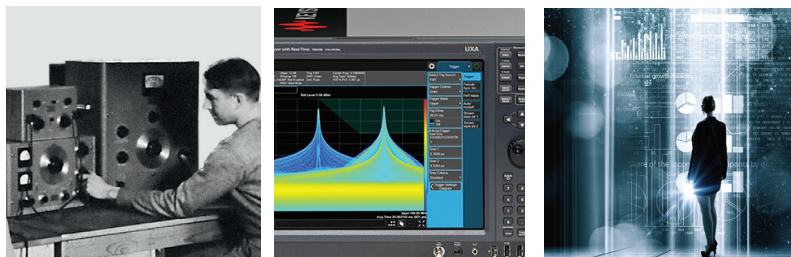
For benchmarking, Nemo Analyze offers predetermined report templates that you can use to compare KPIs from different operators, technologies, and time frames. The system incorporates an innovative, low-maintenance database engine, designed and optimized specifically for high-performance post-processing of drive test data.

Nemo Analyze supports all major network technologies, including LTE-A, LTE, and HSPA+. Integrating Nemo Analyze with other Nemo tools provides a complete automated data processing chain from raw measurement data to a generated workbook.



Evolving

Our unique combination of hardware, software, support, and people can help you reach your next breakthrough. **We are unlocking the future of technology.**



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NEMO

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Keysight's Nemo solutions provide testing, measurement, optimization, and analytics systems to the global wireless market based on its specialist sector knowledge and proprietary software and hardware products. Customers include major manufacturers of mobile devices, chipsets, and network equipment, mobile network operators, regulatory authorities, and independent test houses.

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For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

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