

SOLUTION SHEET

ANALYSIS AND REPORTING

ANALYSIS
POST-PROCESSING
TROUBLESHOOTING

Effective data analysis is the key to getting key decisions right and improving your network. Collecting RF data in the field is just the first step. Only when processed and analyzed can it inform the decisions you make to improve the network.

Our Analysis and Reporting solution combines high-performance analysis of drive test data with powerful troubleshooting capabilities. Fully scalable, from standalone tool to enterprise-level client/server system, the solution helps you streamline your processes. It enables automation throughout the data processing chain, from drive test campaign loading to a full report with analysis results. Any network issues are highlighted by analysis engines and produce events in our tool, which proceeds to identify the probable root cause.



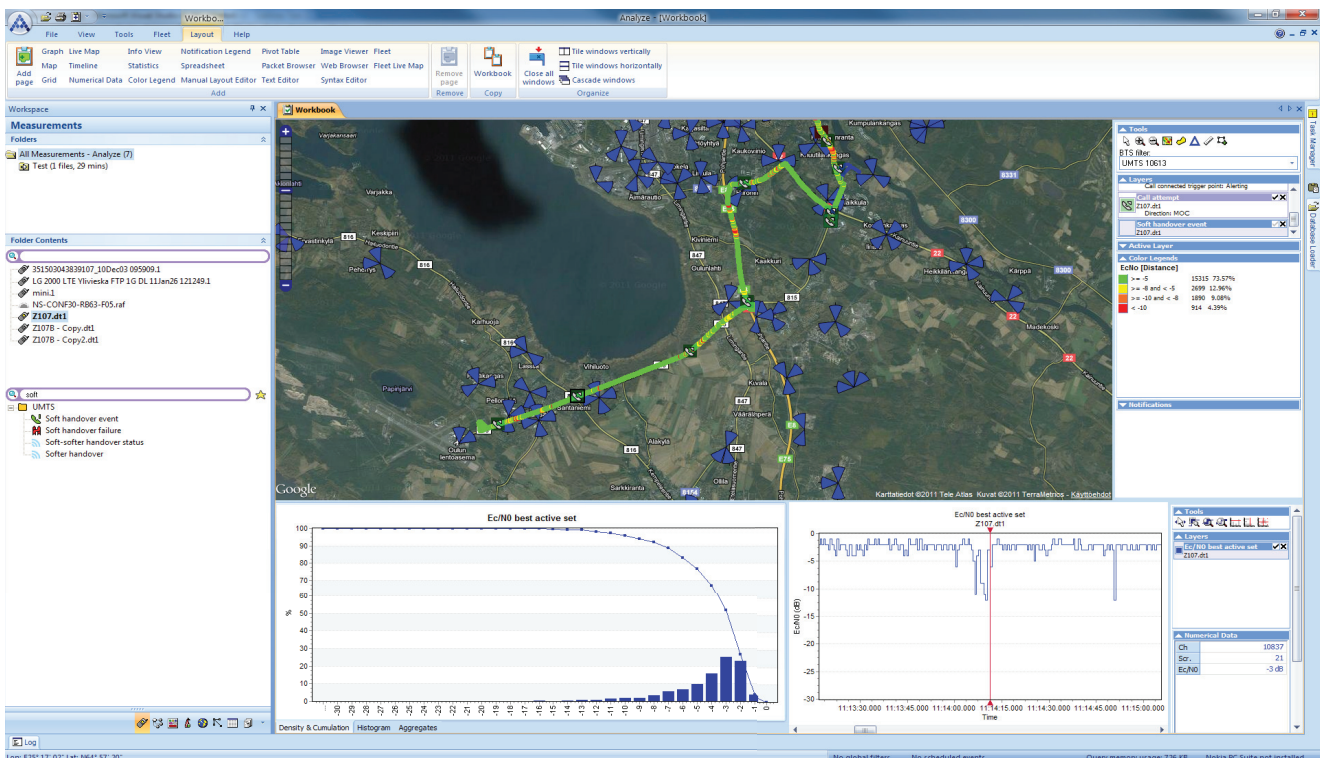
COST-EFFECTIVE, HIGH-PERFORMANCE POST-PROCESSING

Nemo Analyze is a fully scalable, high-performance post-processing system with best-in-class data visualization. The system scales from a standalone tool to an enterprise-level client/server solution and incorporates an innovative, low-maintenance database engine that has been designed and optimized specifically for high-performance post-processing of drive test data.

Scalability from desktop to enterprise level

Nemo Analyze offers a comprehensive set of technology-specific Key Performance Indicators for the latest wireless technologies and cutting-edge, time-synchronized multi-page workbooks with maps, grids, line graphs, bar graphs, pie charts, surface grids, color grids, and spreadsheets. The system is highly cost-effective, easy to set up and use, and it scales to meet the needs of organizations of any size. Integrating Nemo Analyze with other Nemo tools provides a perfect solution for accurate network measurements, and allows you to automate the entire data processing chain from drive tests to analysis results.

Nemo Analyze offers support for all major wireless technologies, including CDMA, EVDO, GSM, WCDMA, iDEN, TETRA, DVB-H, HSPA+, TD-SCDMA, WiMAX, and LTE. In addition to Nemo File Format, also TEMS™ Investigation, TEMS™ Pocket, EADS REMS TETRAPOL®, and R&S® ROMES are supported. Nemo Analyze's support for CSV (Character-Separated Value) format also allows the import of ASCII data into the database, enabling for instance Wireshark/Ethernet and network counter data to be correlated and post-processed together with Nemo drive test data. Nemo Analyze Standalone/Client supports the following 32-bit platforms: Windows® XP Professional, Windows Vista™, and Windows® 7.



Nemo Analyze Enterprise Edition combines Nemo Analyze's best-in-class data visualization with a fast and powerful enterprise-level database server solution designed and optimized specifically for high-performance post-processing of vast drive test data amounts. Where conventional solutions typically require multiple servers and store only aggregate data into the database, Nemo Analyze utilizes only a single server and enables raw measurement files to be processed and stored with unrivalled speed and efficiency. Nemo Analyze Enterprise Edition is available on the cost-effective 64-bit Windows Server® 2008 platform, enabling you to use the hardware of your choice for optimal price/performance ratio.

Troubleshooting

Nemo Analyze Professional offers a comprehensive set of troubleshooting KPIs, and enables root cause analysis for voice calls, video calls, and for the UMTS RACH procedure, with failures and their reasons explicitly pinpointed. From the resulting data set that contains all network and application level problems, you can select a problem and drill down to a user-defined time range of full event details surrounding the problem event. Because the database does not process any irrelevant data in a drill-down, problems can be found and analyzed quickly even from vast amounts of data.

Nemo Analyze Professional also provides you with the KPI workbench, an easy-to-use graphical user interface for creating custom KPIs. The KPI Workbench makes it possible to create custom KPIs without knowing any SQL, making it simply a matter of dragging and dropping the appropriate parameters, correlations, operations and sort elements to the workbench view, connecting them into a logical flow chart, and defining their properties.

Voice and video quality

Nemo Analyze provides you with, for instance, the following quality-related KPIs:

| Voice Call Quality | Video Call Quality | Video Streaming Quality |
|---|---|---|
| <ul style="list-style-type: none">• MOS• Call events and statistics: attempt, failure, success, disconnect, dropped• Call setup time• End-to-end call setup time | <ul style="list-style-type: none">• MOS• Call events and statistics: attempt, failure, success, disconnect, dropped• Call setup time• End-to-end call setup time | <ul style="list-style-type: none">• MOS• Packet error rate• Jitter• Events and statistics: streaming request, request failed, rebuffering, successfully completed, successfully started• Streaming initial buffering time• Streaming service access time• Streaming service access time to buffering• Streaming session time |

Benchmarking

Nemo Analyze offers an easy and highly scalable solution for performing benchmarking between different operators, technologies, cells, IMSIs, polygon areas and time frames, and viewing the results conveniently in a single graph. Benchmarking of radio level, application, and quality (MOS) metrics can be performed over hundreds of hours, or gigabytes, of data for all the relevant KPIs, including voice call setup time, voice quality MOS, and many more. Nemo Analyze provides you also with a comprehensive set of predefined benchmarking report templates that can be used in comparing KPIs from different operators, technologies, and time frames. Nemo Analyze is a complete solution for all your post-processing needs, from benchmarking and statistical reporting to advanced troubleshooting.

NEMO ANALYZE

