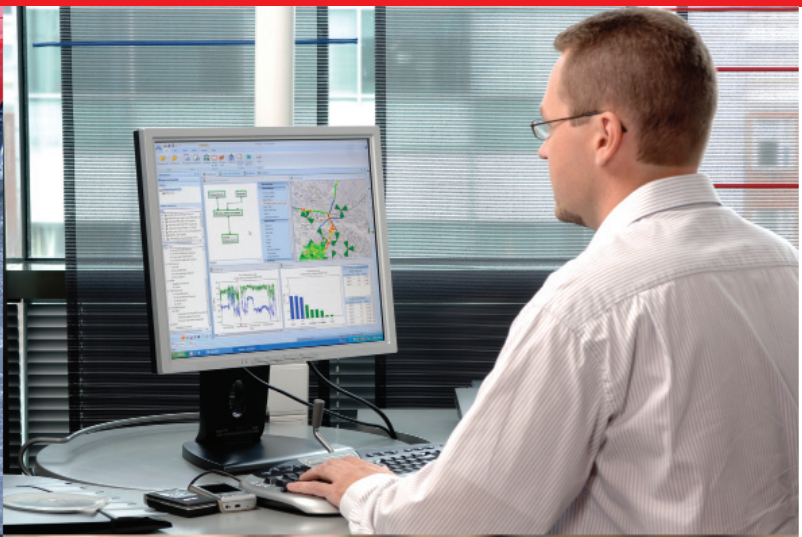


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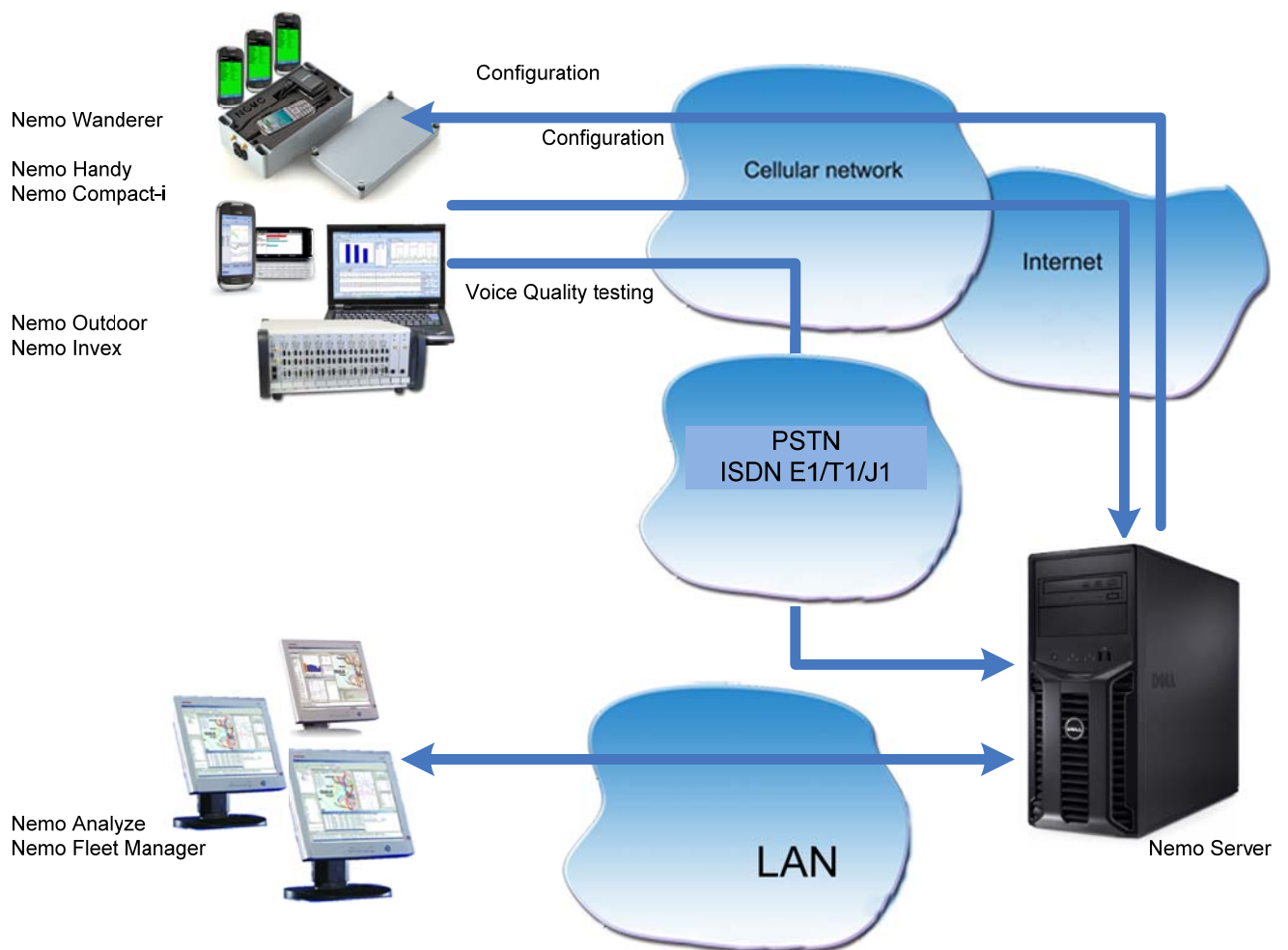


NEMO
SERVER

PRODUCT DESCRIPTION

Nemo Server is a diverse solution to be used with Anite Finland's Nemo drive test tools or independently of any specific product. The centralized data storage with Nemo Server enables the user to perform both data and voice quality measurements with Nemo Outdoor, Nemo Invex, Nemo Autonomous and Nemo Handy. Additionally Nemo Autonomous system: Wanderer units, Fleet/File Managers and Nemo Analyze, can use the server as gateway between field and office ends.

Up to 15 simultaneous voice quality tests and up to four simultaneous data connections are enabled simultaneously with a single server system. As a consequence, the user is provided with a wide selection of options, be it extensive and sophisticated network testing with Nemo Autonomous, cutting-edge benchmarking measurements with Nemo Outdoor Multi and Multi Lite, or more accurate network testing with Nemo Handy while on the go. All of these can be done separately or in varying combinations, which makes Nemo Server a versatile central hub for network operators wishing to optimize their network performance.



An overview of the Nemo Drive Test Tool systems with Nemo Server

NEMO SERVER OPTIONS

- Nemo Audio Server: Only for voice call and voice quality testing. Max eight PSTN lines (POTS) or with ISDN-PRI E1/T1/J1 connection max 30/24/24 simultaneous calls and max 15 PESQ or 8 POLQA voice quality measurements. One Ethernet interface for LAN connection.
- Nemo Data Server: Only for data testing, 4 WAN interfaces and 1 LAN interface.
- Nemo Audio/ Data Server: PSTN or ISDN interface with 4x Ethernet interface.

NEMO SERVER MEASUREMENT OPTIONS

- Data measurements: FTP, WWW, E-mail, Iperf, ICMP
- Voice Quality measurements: Max 3 PESQ licenses = 15 lines, max 4 POLQA licenses = 8 lines

NEMO SERVER KEY BENEFITS

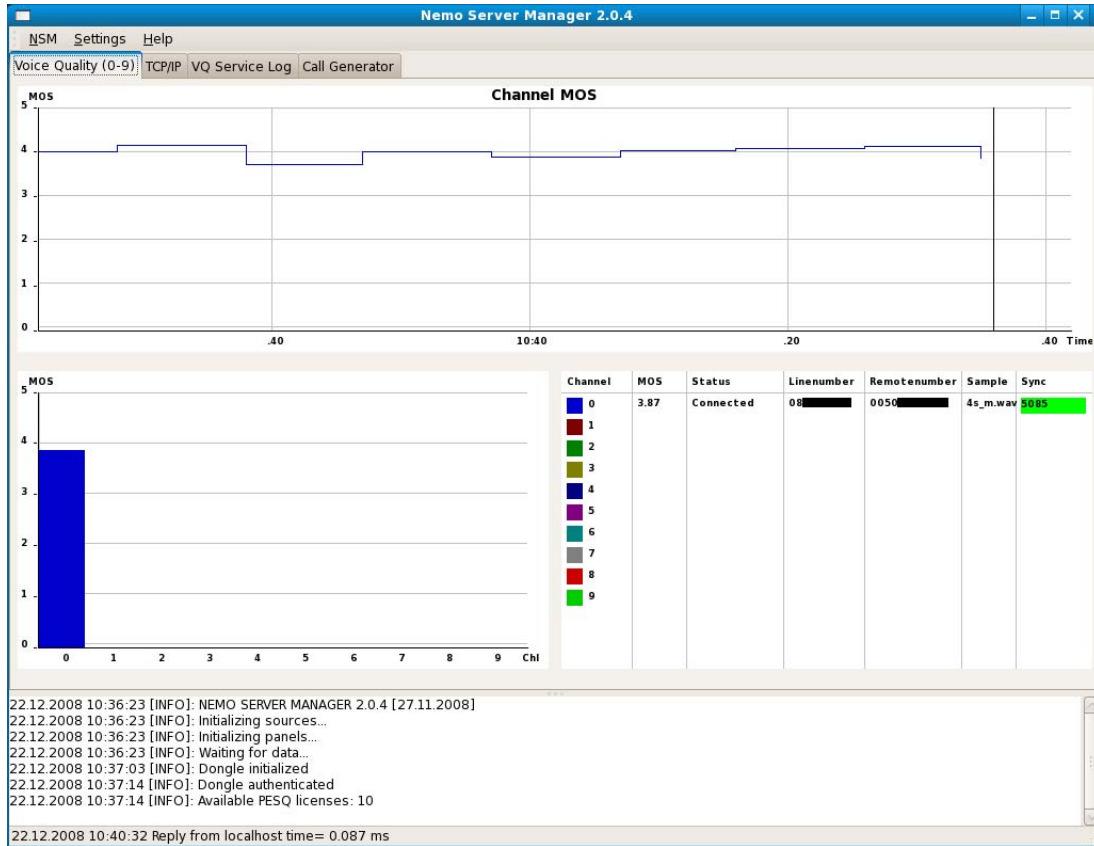
- Versatile service testing on a single platform – Voice Quality, FTP, HTTP, HTTP browsing, SMTP, POP3, Ping, Trace route testing and Iperf TCP/UDP testing.
- Automation – Data processing chain from the field to an open workbook with analysis results can be completely automated with File/Fleet Managers and Wanderer account auto-creation.
- Fast and intuitive installation – the country code is used to set correct busy- and dial-tones for interfacing with local PSTN.
- Cost-efficiency – Nemo Server can be used with all Nemo products and more, centralizing measurement storage and consequently saving time and effort for the customer.
- Independent of any specific product – In addition to being compatible with all Nemo drive test tools, Nemo Server can also be used for other purposes such as FTP transfers and as an auto-answer machine (Audio Server).

NEMO SERVER KEY FEATURES

- Country code based world library of busy- and dial-tones
- Copy protection module support (USB dongle, required for voice quality testing)
- Iperf TCP/UDP support
- VoIP call transfer
- Preinstalled test files for data testing with FTP and WWW
- Remote access via LAN with VNC (LAN interface only)
- Remote SSH access
- Samba service (LAN interface only)
- Playmode and special test samples for Nemo Handy/Wanderer voice quality downlink measurements where the server works as an answering machine by playing an audio sample file.

NEMO SERVER UI

Communication between the user and Nemo Server services is made convenient through the Nemo Server Manager user-interface. It is also possible to observe the status of each PSTN line and to monitor TCP/IP traffic via Nemo Server Manager.



HARDWARE PLATFORM

Hardware options are subject to change as more optimal server platforms become available.

- Dell PowerEdge T110-2 tower server or R310 rack server
- Intel Dual Core i3-2100 processor, 2GB memory, 250GB hard-disk
- One integrated 10/100/1000Mbit Ethernet interface for LAN (2 interfaces with R310)
- Datatest option: 4x 10/100/1000Mbit Ethernet interfaces for WAN
- Audiotest/PSTN: Voicetronix OpenPCIe interface with 8x RJ11 ports
- Audiotest/ISDN: Voicetronix OpenPRIv3 interface with dual span E1 RJ45 connectors
- US keyboard, mouse, 17" TFT monitor
- Supported ISDN E1/T1/J1 connection modes (* default):
 - E1: line coding = *HDB3, super frame = *CRC4 non-CRC4 E1 none, signaling type = *CCS
 - T1/J1: line coding = *B8ZS AMI, super frame = *ESF D4 none, signaling type = *CCS

NEMO TOOLS

Nemo Analyze	Nemo Analyze is a powerful and versatile, cutting-edge analysis tool for performing benchmarking, troubleshooting and statistical reporting based on drive test data. 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.
Nemo Autonomous	Nemo Autonomous is a cutting-edge solution for automated large-scale measurements of the air interface of GSM, GPRS, EDGE, WCDMA, and HSDPA wireless networks. With Nemo Autonomous the measurement, troubleshooting, statistical reporting, analysis and benchmarking of networks is made easier, more extensive and cost efficient.
Nemo Invex	Nemo Invex is a chassis-based benchmarking tool for wireless network measurements. Nemo Invex supports measurements on all major network technologies, including GSM, CDMA2000, EVDO, TD-SCDMA, WCDMA, HSDPA, HSUPA, HSPA+, WiMAX and LTE.
Nemo FSR1	Nemo FSR1 is a revolutionary, modular digital scanning receiver that provides accurate, reliable high-speed RF measurements of wireless networks across multiple bands and technologies. Nemo FSR1 supports measurements on LTE, WCDMA, HSDPA, GSM, CDMA and EVDO networks.
Nemo Handy-A	Nemo Handy-A is a lightweight, Android smartphone-based air interface measurement tool for GSM, GPRS, EDGE, WCDMA, HSPA, and LTE wireless networks.
Nemo Handy-S	Nemo Handy-S is a lightweight, Symbian-based air interface measurement tool for GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA and Wi-Fi 802.11 b/g wireless networks.
Nemo Handy-W	Nemo Handy-W is a Windows Mobile® 6.x Professional -based air interface measurement tool for EGSM, GPRS, EDGE, WCDMA, HSPA, CDMA2000, and EVDO wireless networks.
Nemo Outdoor	Nemo Outdoor is a portable engineering tool for measuring and monitoring the air interface of TETRA, GSM, HSCSD, GPRS, EDGE, WCDMA, TDMA (IS-136), AMPS, cdmaOne, CDMA 2000, UMA, HSDPA, HSDPA 16QAM, HSUPA, HSPA+, TD-SCDMA, WiMAX, and LTE wireless networks.
-with Indoor Option	Ideal for indoor measurements. Lightweight Tablet PC makes it is easy to carry and allows the user to plot the measurement route on a floor plan with a click of a pen.
-with Multi Option	Enables benchmarking measurements on multiple networks and even on multiple technologies at the same time. Possibility to establish up to five simultaneous packet/circuit-switched data connections from test terminals.

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