

NMS2K NETWORK MANAGEMENT SYSTEM

The NMS2K Management Suite is a Network Management Solution (NMS) compliant with Telecommunication Management Network (TMN) standards providing comprehensive fault, configuration, performance and security management functionality.

Network operators can deploy, control, monitor and upgrade a TLC equipment network through a user-friendly GUI. Topology map views provide visual representation of the NE placement with multi-zoom at national, area centre and network element level.

Icons represent the managed resources. It is composed of a family of software products designed to provide efficient network management of different technology equipment belonging to company's portfolio.

NMS2K has an open architecture, fully compatible with the standards foreseen for the management and control systems of telecommunications networks (ITU-T, TMF, EUROCOM). It has high modularity open to full integrability for ancillary products.

MAIN FEATURES

Open Client-Server architecture

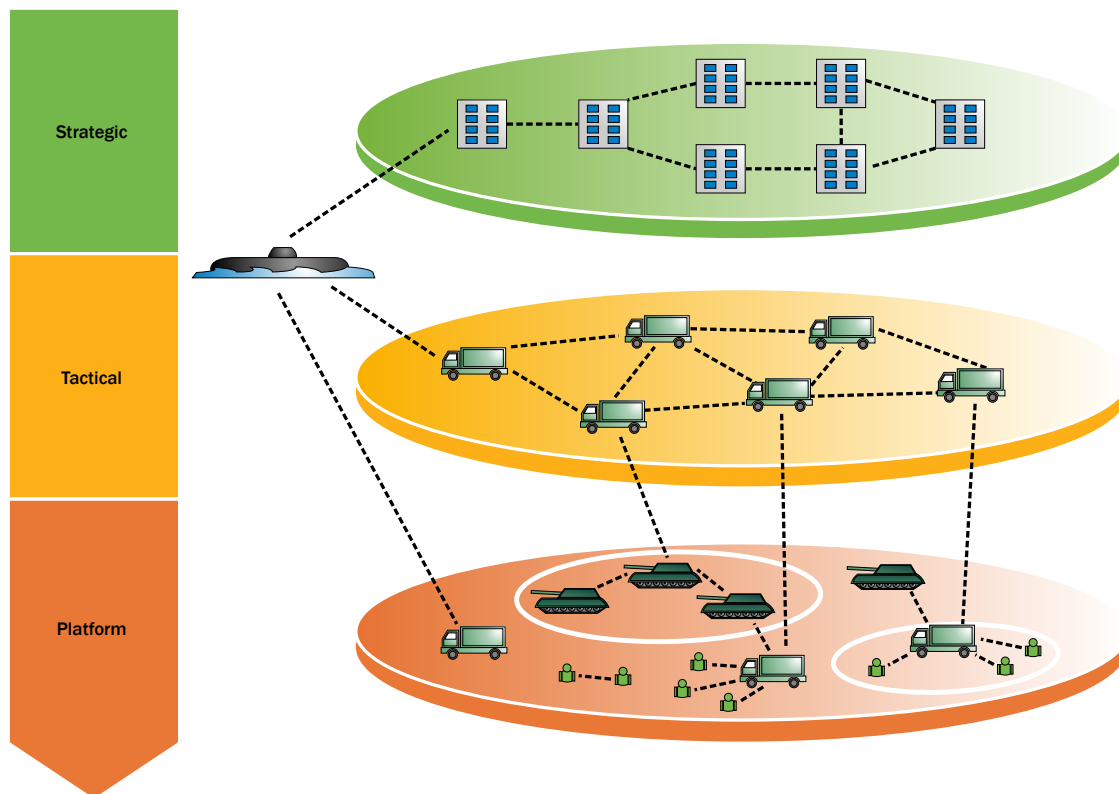
The system employs a web oriented architecture that allows users to access all supplied functions by means of a Java client or, with respect to monitoring activities, using a simple web browser such as Netscape or Internet Explorer.

Market standard compliancy

NMS2K is compliant to TMN, ITU-T and EUROCOM recommendations in order to guarantee openness and interoperability with external systems. High integration capabilities by mean of standard based interfaces that allow NMS2K to interoperate with other systems using state of the art technologies such as XML and SNMP.

Multi- Technology Views

At each functional level, the NMS2K gives the possibility to control the network by means of suitable logical views related to different technologies. Each view permits the management of a given network typology, composed by a homogeneous set of equipment their connectivity and related specific functions. In addition NMS2K supplies another view, the "physical" one capable to display the whole network topology in terms of equipment and physical links.



The following logical views are available:

- Physical, encompassing all managed equipment divided according to their location
- Supervision, including computer systems that perform network management and control operations
- Control, including equipment devoted to TLC elements control
- Transport, including radio relays
- Circuit switching, including digital switches such as CD family
- Wide band, encompassing multi-protocol switches such as MPS family.

Downsizing of the off-the-shelf NMS product to support:

- In-barracks planning of the applicable pre-defined communications configurations to be used based on ORBAT analysis to define network topology and radio assets usage priority Configuration files generation and distribution to the relevant on-board systems
- “Light” EMS, for setting and monitoring radio and switches
- Command and Control, for information disseminations rules and scenario maps
- Radio router

ARCHITECTURE

NMS2K is built over main functional levels covering all the aspects of Network Management activities.

- NPS (Network Planning System)
- MAS (Monitoring System)
- EMS (Element Management System)
- OPS (Operator Profile System)
- BMS (Backup Manager System)

NMS2K has been designed considering:

- Commercial HW/SW platforms
- State-of-art SW architectures and Java technology

KEY FEATURES

- Complete network management solution
- Flexible and scalable architecture
- Supports multi-server/multi-client scenarios
- Available on different operating systems
- Open to be tailored to meet a wide variety of customer requirements
- Open interfaces for integration with third parts NMS solutions
- Comprehensive operator profiles and security access management
- Tailored towards tactical applications
- User friendly and Web-based GUI
- Valuable experience through fielded solutions (domestic and foreign)
- Multi-technology management: Circuit Switch, ATM, Radio Relay, Multiplexer, WiMax, Crypto NE
- Multi-technology network view
- Solution for small, medium and large networks