

UHP NMS

NETWORK MANAGEMENT SYSTEM

SCPC

TDM/TDMA

Hubless TDMA

UHP Network Management System (NMS) is a sophisticated and user-friendly tool for monitoring and controlling UHP networks. NMS substantially simplifies configuration of the Hub and of the remote terminals, collects and stores in its database information about current and historical status of the whole network and its individual elements, and also displays that information in graphical and tabular formats. The NMS system supports all UHP configurations and topologies, including TDM/TDMA, SCPC and Hubless TDMA.

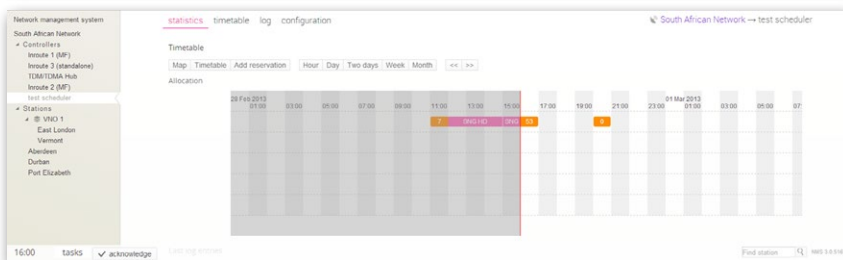
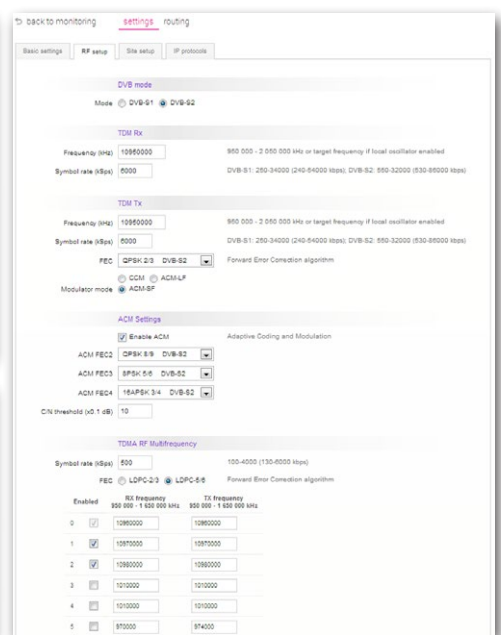
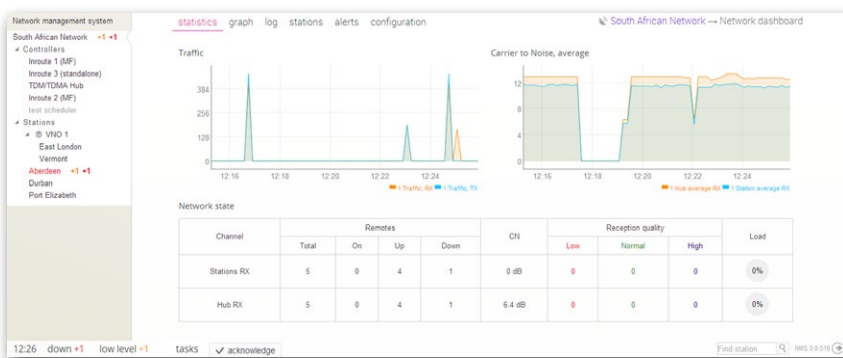
UHP NMS system is shipped pre-installed in a server running Linux. NMS is traditionally collocated with the network Hub however availability of Web interface allows collocation at any alternate location. The system provides multi-user, multi-language interface and supports multiple Virtual Network Operators (VNO) sharing common network infrastructure.

UHP NMS consists of three basic components: the system core, the graphic interface and the statistics database. The core communicates with the UHP equipment analyzing its behavior and collecting statistics. The database holds this network information in binary form for specified period of time (up to several years). There are built-in tools of exchanging information with 3rd party software (billing, scheduling) via Romantis API. Network configuration is held in SQL database. Graphical web-interface displays this information in a user-friendly format and also provides a simple way of configuring the system with verification of entered data.

The user interface focuses the operator's attention on the most important events in the system, and also provides the operator with an exhaustive information needed for analysis and trouble-shooting. By selecting most suitable settings for the display, the operator can display the information in the desired format: logs, graphs and/or tables. All key network characteristics are displayed on a single page, known as the dashboard.

- Enhanced, graphical, web-based, multi-user, multi-role user interface
- Main dashboard with complete network overview on one screen
- Dynamic Events Groups – simplify filtering and analysis of network events
- Events correlator showing historical performance graphs and related events
- Customized reports with statistics exported for further analysis
- Centralized software upgrade of remote terminals via multicast
- Support for all UHP modes of operation: TDM/TDMA, SCPC, DAMA, Hubless TDMA, and redundant systems
- Management of many networks in a single NMS workspace
- Virtual Network Operator (VNO)– sharing of common network infrastructure between operators
- Ideal for any network size or topology – from a simple link and up to a multi-hub network
- One-way control – allows sending one-way (“blind”) commands to non-responding terminals
- API interface for external devices and software applications (billing, scheduling and others)
- Simple and robust design – ensures reliability and simplifies further enhancements





UHP NMS 3.X SPECIFICATIONS

SERVER

Hardware	Rack-mountable 1U, Intel 2.6 GHz, 3GB RAM, 200GB/SATA (higher on demand)
Operating System	Linux
Network Interface	1 FastEthernet/Gigabit Ethernet

NETWORK

Supported UHP networks	TDM/TDMA, TDM/TDMA MESH, Hubless TDMA
Maximal number of terminals	500 000
Multi-Hub operations	Up to 25 Hubs
Virtual Network Operators	Up to 25 VNOs per each hierarchy level
Statistics database disc use	20 Mbytes/year/terminal
Statistics gathering interval	From 10 seconds (1 minute default)

ORDER CODE / MODIFICATIONS

UHP-NMS-BASE	UHP NMS 3.X Server Basic: Support for one network
UHP-NMS-VNO	UHP NMS 3.X Server VNO: Support for multiple networks and VNO