



Air & Vessel Traffic Management Systems

ONM-ATC THE SELEX ES OPEN NETWORK MANAGEMENT FOR ATC RADIO

Mission critical systems, such as Air Traffic Control (ATC) ground-air-ground radio communication systems, must be kept operating and updating in order to provide Controllers with reliable technology to safely perform ATC operations.

Modern Network Management Systems, like the ONM-ATC, support the reliability of mission critical ATC radio communications systems. The Open Network Management system ONM-ATC assists problem solving, minimizes non-operational time, enables easy reconfiguration of radio equipment to meet new operational needs, and monitors system parameters and performance to maintain the required system Quality of Service (QoS).

SCALABILITY

The ONM-ATC is cost-effective for all system configurations. Access and data front-end devices can be scaled to support all network management configurations, from small airports to major systems for Area Control Centres (ACC).

Across applications, it offers an excellent costs/benefits ratio, whilst Solution for Airports meeting efficiency and safety requirements. Thanks to the discovery feature, ONM-ATC recognizes any change in the system (new radio equipment added and/or new sites) and provides the updated configuration to any ONM-ATC Client.





ACCESSIBILITY

System maintenance philosophy imposes operational constraints, such as the deployment of “points-of-controls” that need to be handled by maintenance personnel. The ONM-ATC does not impose any limitations on the access to remote sites. Access can be centralised or located on the remote site, or both. In all case, the same Client is used.

Access to the network element to be controlled is regulated by the system itself, in order to guarantee that any maintainer is aware that a colleague has had access to that device. Every operation is tracked on the event log file and is available to all maintenance personnel.

MAINTENANCE OF UNMANNED SITES

The ONM-ATC manages the following key features that allow the 100% remote handling of radio equipment and ancillaries located on those remote radio sites where the maintenance personnel cannot be present on daily basis:

- Remotesoftware upgrading of OTE 0100 VHF/UHF radios, STR619NV tactical radios and SRT2007 HF radios. In case of failure of the firmware upgrading procedure, the ONM-ATC provides the “fall back” functionality to restore the previous release of the equipment;
- Total reconfiguration of all configuration parameters;
- Setup and execution of testing and measurements scenarios for site/station certification.



LOOK-AND-FEEL

The ONM-ATC advanced graphical user interface, hosted in ONM-ATC Client, provides quick and easy access to network topology and network elements details, like OTE 0100, SRT619NV and STR2007 radio series, and third-party equipment. In-depth functions and user friendly menu commands simplify installation, configuration and fault diagnosis.

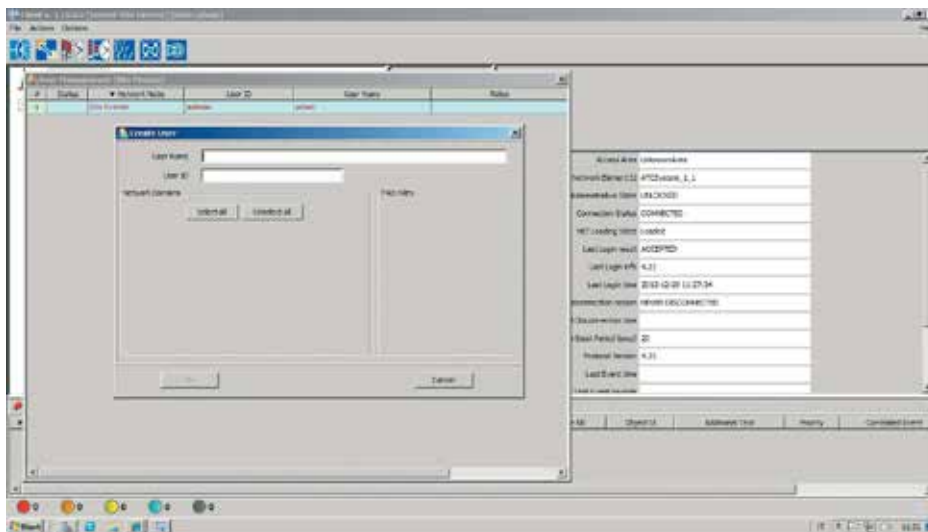
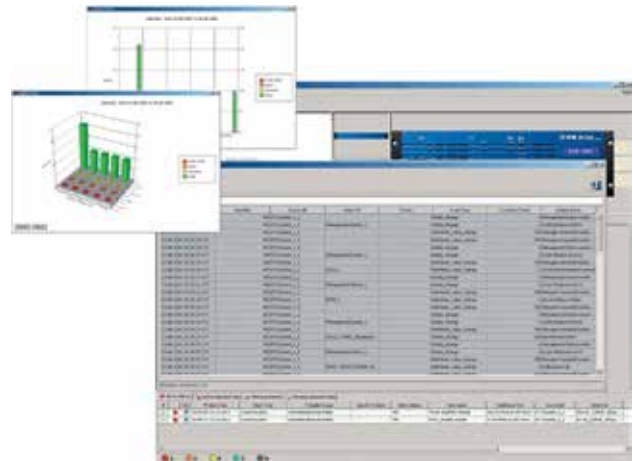
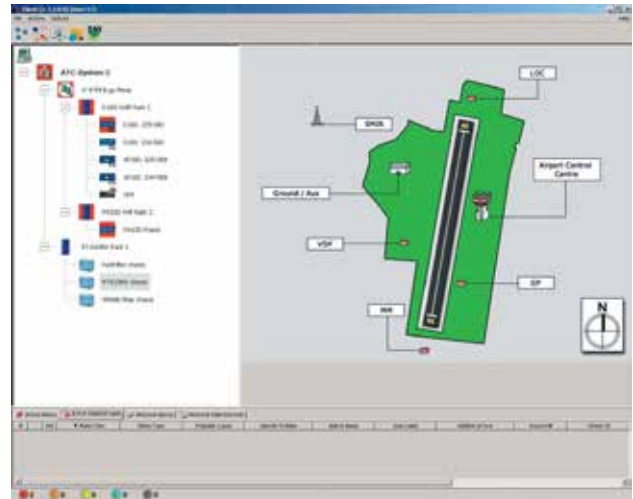
Thanks to its hierarchical level architecture, the ONM-ATC GUI provides the maintainer with the capability to quickly discover network problems and to navigate between network elements to assess the problem in detail. The HMI organisation allows maintenance personnel the facility for quick problem detection and fast problem resolution.

An advanced event logging facility gives a maintainer an updated status of events, classified according to the standard five-colour levels of criticality. Moreover, the maintainer can easily handle the events by the ACKnowledge function, which is embedded in the event log database. In addition to the equipment management functions, ONM-ATC statistics are available to identify trends in the performances of the entire ATC radio network.

SECURE ACCESS

The ONM-ATC platform provides multiple network operators with several levels of security privileges. The customer can assign user accounts by associating user name, password and role or by suitable configuring smart card reader or finger print devices.

Maintenance personnel can be thereby performs a subset of system functions according to their profiles. The roles include Administrator, which provides access to all ONM-ATC functionalities and commands, and Operator, which provides more limited access.



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