



Remote Maintenance System Secure Remote Access to support Maintainers

The Remote Maintenance System (RMS) is a proven solution, designed to empower a specialist to diagnose equipment and devices aboard naval ships and support maintenance activities by remote connection (video, voice, serial, Ethernet).

With this capability a specialist is able to diagnose a system by different connection options (e.g. serial data or Ethernet) without the need of travelling. This reduces costs and time of the maintenance.

As an option, the RMS supports the forwarding of the connection from the ship to a Mobile External Support Unit (MESU), for example to ATLAS ELEKTRONIK GmbH, where a system specialist assists the maintenance of an ATLAS ELEKTRONIK GmbH system.



... a sound decision

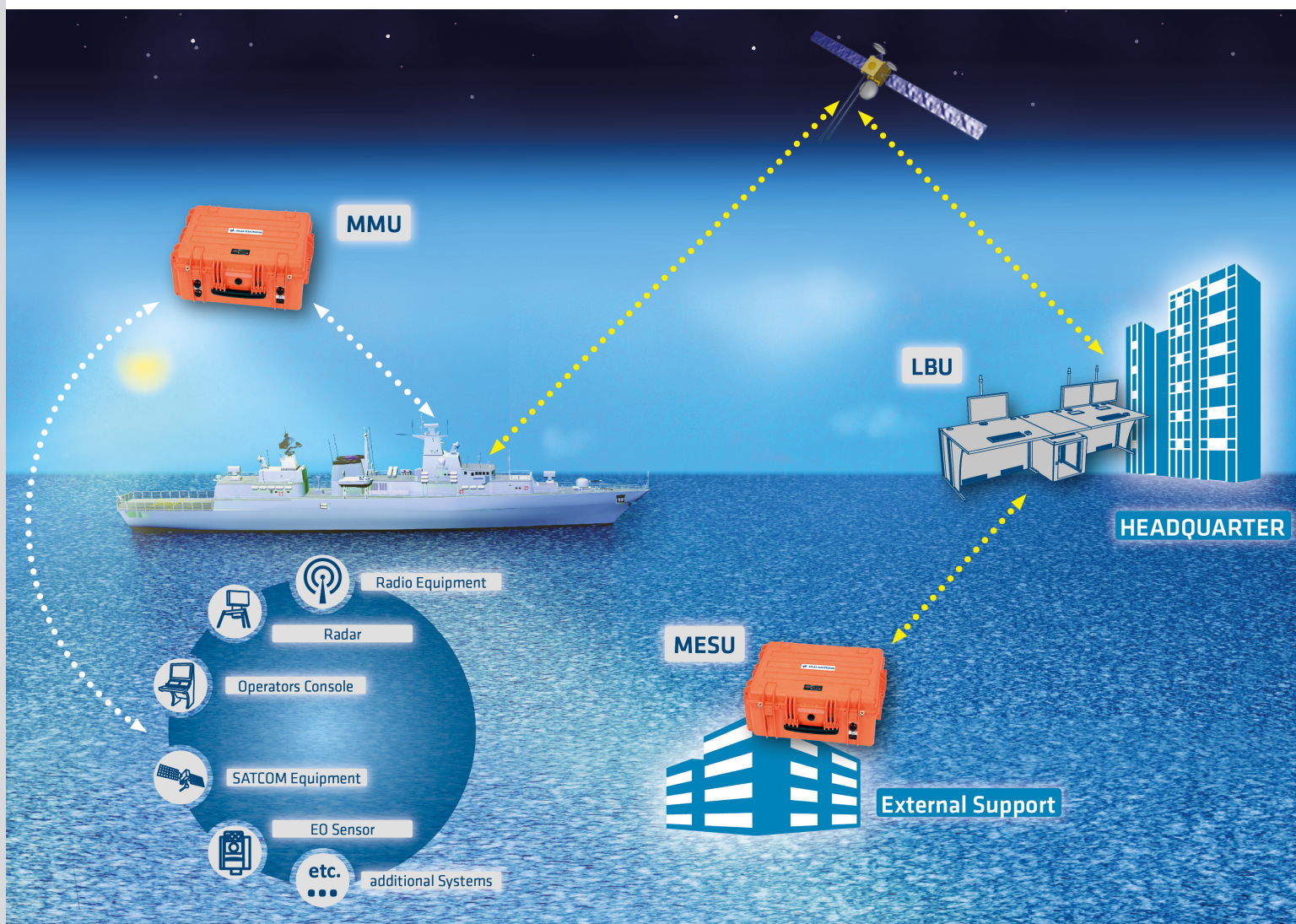
Background

Modern, global tasks make it necessary for the navies to operate in international missions. The durations of these missions are getting longer. Regular maintenance and repair work have to be conducted during these sea trails. It is not possible to return to the home base to perform repair activities. On these reason, it is important to have the opportunity for remote maintenance and repair.

Concept

Maintenance support via remote connection:

- Analogue telephone connection
- Serial connection for remote maintenance
- Ethernet connection:
 - Video transmission with IP-Cameras
 - Remote Desktop Connection
 - Interface for remote maintenance via external equipment



System Components

Mobile Maintenance Unit (MMU)

- Fully integrated into a hard-wearing case
- Plug and Play –ready
- 2 IP-Cameras
 - 1 tiltable, remote controlled, with laser pointer
 - 1 hand camera with IR night vision
- All connections accessible from outside
- Analogue telephone with noise-reducing headset



Land Based Unit (LBU, example)

- Workspace for maintainer and operator
- All connections accessible directly at the workspace
- Remote IP-Camera control by joystick



Mobile External Support Unit (MESU)

- Fully integrated into a hard-wearing case
- Plug and Play –ready
- All connections accessible from outside
- Analogue telephone with noise-reducing headset

Encryption Options

- Encryption by customer devices or
- Proven German encryption solution

System Integration

System Integration, Modification, Retrofit and Upgrade Support

Upgrade of integrated systems including software components on board Naval Vessels and land based training sites world-wide.

Tasks

- Analysis of the current configuration
- Preparation of a feasibility study
- Development of a realisation- and integration concept
- Procurement of components (hardware, software) and services
- Integration on board
 - Installation of hardware
 - Adjustment of software in accordance with the new hardware
- Setting to Work, functional demonstration and tests on system level
- Customer approval
- System handover to the customer
- Documentation, training, selection of spare parts and STTE (special tools and test equipment)
- Project management
- In-Service-Support



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