



HEROS-2/1 Lot 2

The mobile command, control and information system for modern operations command



HEROS in Operational Use

The mobile command, control and information system HEROS-2/1 Lot 2, which has been newly developed by ESG Elektronik-system- und Logistik-GmbH as the main contractor, provides the military with an effective and proven system which has a high user acceptance and is ready for immediate deployment.

HEROS was specifically developed to meet the operational requirements of land forces and provides process support at the corps, division and brigade command levels.

Modern IT equipment and Commercial-Off-The-Shelf (COTS) components ensure that information processing within and information exchange between all command posts can take place quickly and reliably. Users work with one common operational picture. Interoperability with other command, control and information systems is ensured at all times

due to the international standardised MIP interface. This guarantees the ability of HEROS to be deployed internationally.

HEROS in the 1 (German-Netherlands) Corps

In May 2004, HEROS was handed over to the 1 (German/Netherlands) Corps in Eibergen in the Netherlands. In the following exercises, the multinational corps fulfilled all requirements to achieve the NRF 4 status (NATO Response Force). On 15th January 2005, the 1 (GE/NL) Corps took over command of the NRF 4 contingent of the land forces. As a result, the command, control and



NRF status achieved by the 1 (GE/NL) Corps

information system HEROS-2/1 Lot 2 will be used operationally for all organisations assigned to the Rapid Response Force. HEROS command posts can exchange

information using a variety of military as well as civil means of communication such as satellites, directional radio systems, as well as digital and analogue transmission lines.



Different means of communication

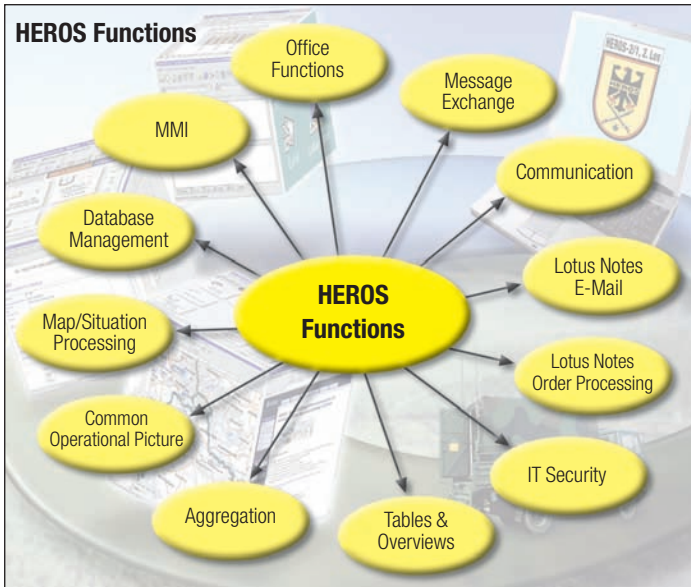
HEROS in the Eurocorps

HEROS was handed over to the Eurocorps in Strasbourg at the end of July 2004. Part of the rollout of HEROS is the implementation of a combined solution in association with the French command, control and information system SIC-F.



HEROS during command post work

Source: 1 (GE/NL) Corps



System Information

HEROS-2/1 Lot 2 is characterised by its particular flexibility. The open system architecture facilitates the further integration of new technologies as well as expansion of functionality in accordance with new operational deployment requirements.

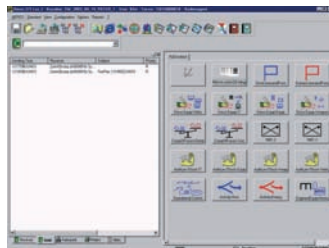
The system, which is based on a client/server architecture with modern IT equipment, can be configured in different stages. Messages are exchanged on the

basis of various message formats using the military interface MIP or commercial XML. Extensive security mechanisms protect the system and the transmitted data against unauthorised access.

The functionality available with HEROS supports the command process in all deployment scenarios and across all staff areas. This applies both to peacetime operations or other deployment options.

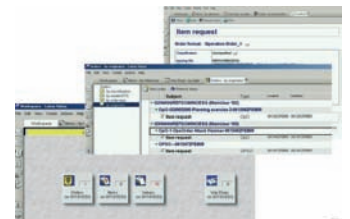
Joint User Interface

All HEROS functions are accessed selectively using the joint user interface.



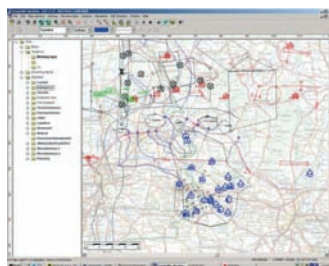
Command Processing

Based on a workflow process, command contributions are requested from the various functional areas and processed. The complete command is forwarded using the e-mail service.



Graphical Situation Processing

Central functional elements are electronic maps with an automated situation display of force information and tactical symbols.



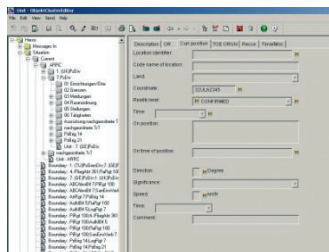
Tables/Overviews

Information from the operational database can be compiled by the user and prepared in the form of reports for use in the decision making process.



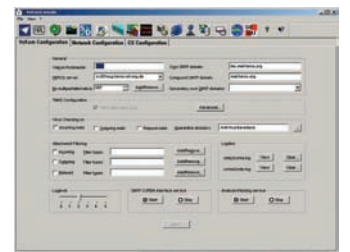
Textual Situation Processing

Basic military data and situation information is entered and processed using specific input masks.



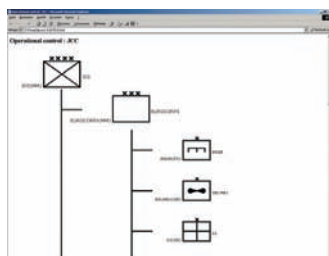
Communications

LAN and WAN are used for communication in connection with an embedded Communication Server.



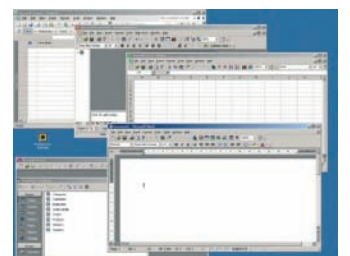
Assignment Display

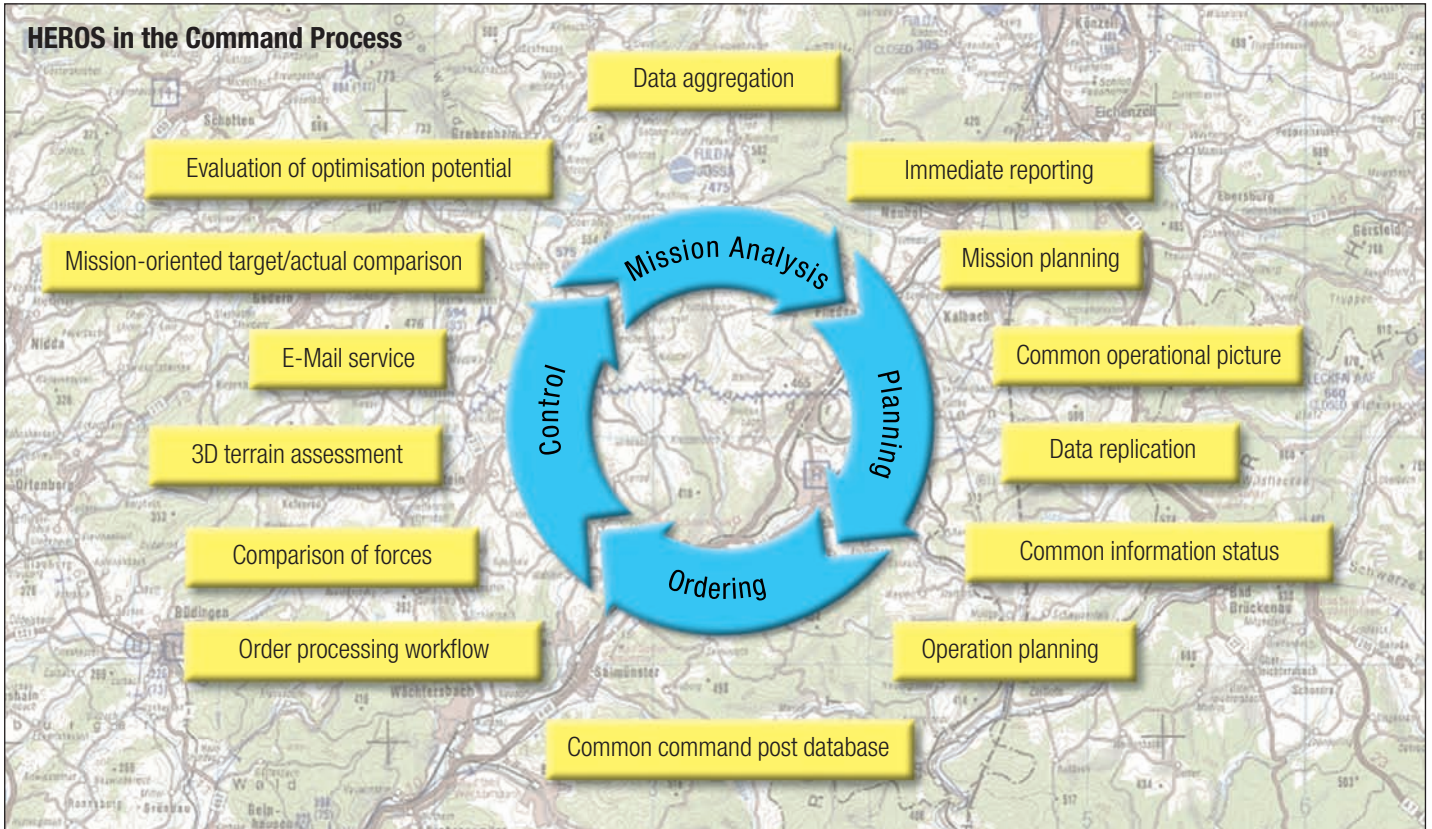
Display of the assignment relationships in the form of a graphical tree structure with tactical symbols for the force elements.



Office Functions

The common MS Office software products are available for daily staff work.





HEROS Benefits

- ▶ Improvement of information processing and communication capabilities within and between staff areas for the command levels corps, division, brigade and battalion
- ▶ Support of new tasks within the army's broader operational spectrum
- ▶ Interoperability with other command, control and information systems through the MIP interface (international standard)
- ▶ Clear situation assessment and reliable decision-making
- ▶ System concept using COTS products
- ▶ Scalable command post structure
- ▶ Command level networking, with modern, flexible LAN as well as WAN
- ▶ System-specific administration and maintenance

ESG Services

- HEROS-2/1 Lot 2 demonstrates ESG's competence in implementing command, control and information systems. Planning and execution cover the following system services:
- ▶ Requirements specification and system design
 - ▶ Software development, implementation and test, maintenance and logistics support
 - ▶ Set-up of training facilities for users and administrators
 - ▶ Training concept, system training for users and administrators
 - ▶ System rollout
 - ▶ Support services during system operations
- Inquiries can be directed to:
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