mCom

magic*for*components

MAuS

MULTI-INT DATA
EXPLOITATION SYSTEM

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MULTI-INT DATA EXPLOITATION SYSTEM

OVERVIEW

MAuS is a cross-functional, multifunctional system to support processes in the field of Intelligence, Surveillance and Reconnaissance (ISR) missions, as well as in tactical, operational or strategic deployment scenarios.

MAuS enables the analysis, tasking, collection, processing, use and distribution of data that has been recorded with a variety of sensors, including **electro-optical and infrared (EO / IR), synthetic aperture radar (SAR), ground moving target indicator (GMTI) , Video stream and signal intelligence (SIGINT).**

MAuS processes and analyses raw data in real time that are generated by various sensors on manned or unmanned aerial reconnaissance platforms as well as by sensors on land or sea-based platforms.

Thanks to its modular architecture, the functionalities of **MAuS** can be adapted to the needs of the users. As a scalable solution, MAuS is available for both military and security organisations as a laptop version in an operational environment up to a complete multiworkstation solution within a mission operations centre. **MAuS** supports a wide range of military and industrial standards and is **NATO STANAG compliant.**

KEY FEATURES

The MAuS software modules from M4Com are optimised for the professional evaluation process and classic processing, exploitation and dissemination (PED)* cells and offer a selection of functionalities that can be modified or configured according to customer requirements:

- Real-time evaluation and analysis of data
- Live raw data and situation display
- Reporting and news in standard formats
- Passing on information obtained to clients
- Collaboration in the processing of orders
- Mission planning and task creation
- Control of sensors on the ground
- Management and control of action forces

* Process, Exploit, Disseminate
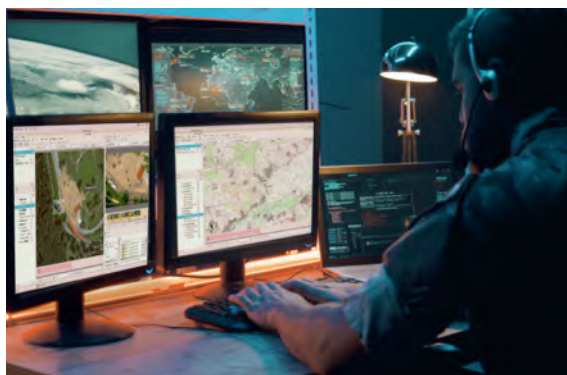
USER BENEFITS

Designed as a modular solution, MAuS uses adaptable and optimised workflows that can be used for different roles at different decision-levels:

- Planning missions
- Commissioning of sensor systems
- Control of video and other sensors
- Evaluation of various raw sensor data in real time
- Immediate display of sensor data, situation and common operational picture (COP)
- Forwarding, reporting and export of raw data, metadata and created information products

SCALABLE HARDWARE AND FLEXIBLE INTEGRATION

The MAuS hardware and functionality is scalable and ranges from a laptop version to a multi-workstation solution to a complete intelligence centre.

The scalability also applies to the installation solutions, whereby the system can be integrated and installed on site either as a mobile station in a minivan or truck or as a retractable container solution. MAuS can also be set up and adapted as a local installation as required.

MISSION PLANNING

In order to carry out a successful mission, MAuS offers a versatile planning function. The mission plan consists of the flight route with waypoints and the sensor deployment planning, whereby the following functions can be added and displayed:

- Flight path
- POI, NAI, TAI
- Waypoints

VISUALISATION AND PROCESSING

- Evaluation of EO, IR, SAR, VIDEO, GMTI, AIS, ADSB and Link 16 data
- Dynamic geographic visualization of the sensor information
- Overlay of any kind of georeferenced data, e.g. topographic maps, EO / IR images, synthetic aperture radar (SAR) and ground moving target indicator (GMTI)
- Display of the acquired sensor coverage and traces for sensors such as video or GMTI
- Visualisation of all common map, raster and vector formats
- Time-based evaluation of GMTI (STANAG 4607) and route data (e.g. Link16)

SITUATIONAL AWARENESS

- Real time ingestion of image data, video streams, GMTI data and tracking information
- Marker setting in live video stream
- Standing queries and configurable alert functions
- User selected display of multiple information feeds to provide user-defined situation awareness
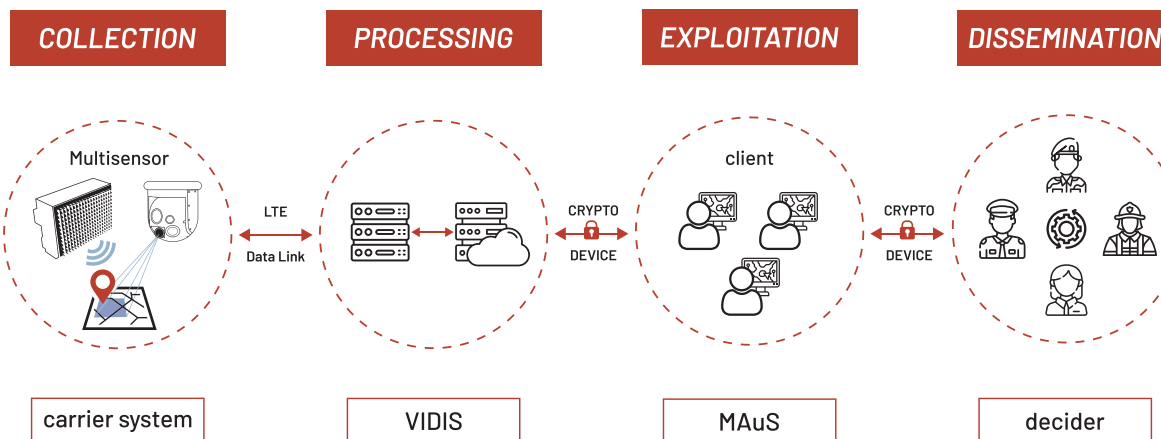
TASK MANAGEMENT AND DATA ADMINISTRATION

- Managing dynamic tasks
- Support for various data sources according to STANAG 4559
- Efficient interface for querying and using the M4Com Video Distribution System (VIDIS)
- Geospatial and time-based querying of all databases including the visualisation of results on a map
- Consistent support of geodetic standards

SENSOR CONTROL

- Direct sensor access
- Application integration
- Optimised workflow
- Control of different devices

process chain

| COLLECTION | PROCESSING | EXPLOITATION | DISSEMINATION |

Multisensor — LTE Data Link — CRYPTO DEVICE — client — CRYPTO DEVICE

| carrier system | VIDIS | MAuS | decider |

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