

a tactical planning tool

mission preparation, execution, analysis, debriefing and MRO



OptaDebrief

Simulation and analysis of missions with 3D-mission replay

OptaLog

MRO planning for optimum aircraft availability

Contact

HENSOLDT
88039 Friedrichshafen
Germany

T: +49 (0) 7545 8-00
E: info@hensoldt.net

www.hensoldt.net



This document is not contractual. Subject to change without notice. © 2017 HENSOLDT Sensors GmbH. HENSOLDT, its logo and OPTARION are registered trademarks. All rights reserved. // 0117 E 0371



OPTARION®

Plan. Execute. Analyse. Maintain.

© 2013 Bundeswehrluftwaffe L



OPTARION® – more than just

All-in-one network-based and modular solution for all needs related to



OptaPlan

Tactical mission planning processing C3I information

OptaMission

Extensive in-mission support based on secure data links

OptaPlan

Tactical mission planning processing C3I information

The pilot is tasked with designing and planning a mission – reliably and within a few minutes. He needs to plan the optimal and safest route for fulfilling his mission. OptaPlan is the expert tool that supports the pilot with customised features which filter and highlight important objects in a specific situation.

OptaPlan visualizes almost any type of information from any source. It connects its users to the world of C3I. Aeronautical data, situational awareness, ORBATs, emergency airfields and weather conditions are just a few examples of the wide variety of information required for the tactical mission planning process.

OptaPlan covers map and overlay preparation for onboard tools and avionics. The pilot is thus able to use this important information for providing complete awareness of any incident occurring during the mission.

OptaPlan supports the processes of both tactical planning and route planning. A state-of-the-art GIS facilitates and accelerates the pilots' work. OptaPlan reduces the risk of a pilot being caught in unforeseen situations. It also supervises inconsistent inputs and indicates critical circumstances originating from the flight performance envelope, threats, terrain conflicts or just the schedule. If information can be visualised graphically, symbols are available. Tools, tips and tables show details of the engaged objects.



OptaPlan supports the pilot by automating any task as far as possible:

- Real-time flight performance calculation averts plans not meeting the envelope
- A wide variety of different search patterns accelerates the planning of SAR missions
- Calculation on demand is available for
 - holding patterns
 - time over target
 - synchronisation of aircraft
- Predefined procedures
- Standard arrival routes
- Autorouting along flight corridors
- Minimum risk routing
- Reliable conflict avoidance



OptaMission

Extensive in-mission support based on secure data links

Ground contact to the aircraft during mission is a vital step in safe operation. For the in-mission support OptaMission provides a tactical data link on various frequency bands and via SatCom. The ground station keeps in touch with all the operating aircraft within the radio circuit.

With OptaMission's request function the position of the mission aircraft will be identified and tracked. OptaMission provides frequency lists for radios both on-board the aircraft and on the ground. It enables plain and encrypted links for both voice and data.

OptaMission provides mechanisms for updating critical information during the mission such as new threats, NOTAMs, or obstacles. A further application of the data link is to upload optimised route data for safely rerouting the aircraft according to the new information.

OptaMission uses an encrypted communication device for secure data links and voice via VHF/UHF, HF, and SatCom. Both the on-board and off-board radios are equipped with frequency lists.



A typical operational use of the tactical data link is for updating information on-board during the operation. Most recent changes to the situation are transferred to the aircraft via the tactical data link.



OptaMission for online mission monitoring enables the tracking of the operational aircraft if not in silent mode.

OptaDebrief

Simulation and analysis of missions with 3D-mission replay

After the mission is before the mission. Rehearsals of planned missions are as essential as debriefings and mission analysis for several reasons. Most information is received by visualising the tracks of the aircraft and checking it against the planning. OptaDebrief covers replays of the flights in 3D, 2½D and 2D.

With OptaDebrief the user receives a valuable evaluation of missions. The mission event analysis is performed by synchronising the tracks of one or several aircraft with mission events from the tactical data from the aircraft or pilots' information. A stereoscopic 3D debriefing facility offers full awareness of any situation during the flight.

OptaDebrief provides mechanisms to select the most important information for the purpose of demonstration or training. It includes mechanisms for archiving and retrieving the debriefing information.

OptaDebrief is capable of synchronising upcoming events with the flight situations of one or more aircraft.

It is also suitable for the simulation of planned flights or missions (mission rehearsal).

Sequences of the simulated flight can be selected, marked, stored and converted for demonstration.



OptaDebrief enables the replaying of tracks stored on a tactical data carrier device. It calculates deviations from the planned routes and visualises unsafe situations. Unplanned proximity to other aircraft, or to obstacles become obvious. The degree of exposure to hostile positions can also be determined.

OptaLog

MRO planning for optimum aircraft availability

Reduce life cycle costs by providing optimum work orders and avoiding unnecessary measures. This will maximise the number of aircraft ready for operation. By analysing real needs and determining the best point of time for maintenance, repair and overhaul OptaLog maintains and optimises the appropriate measures.

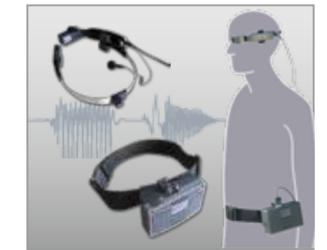
Lifetime costs of the fleet are significantly reduced by analysing both the optimum work sequence and time for maintenance, repair and overhaul measures. OptaLog detects tendencies and can determine the best work order sequence for optimal aircraft availability by following the aircraft's usage and maintenance information.

The mobile assistant provides any data needed during aircraft inspection. Wireless – touchless – fast. A headset with microphone and display keeps technicians' hands free for work in any environmental conditions.

OptaLog is the technician's most indispensable tool for keeping the aircraft ready for mission. It organises the technical management and monitoring at wing level. It is an integral part of the fleet management activities providing overviews of each single aircraft and its configuration.

OptaLog supports effectively in keeping your aircraft in good condition at low costs. OptaLog takes care of any maintenance and usage information coming from the aircraft or the pilot. It evaluates and processes the information for any single aircraft by running accounts for each piece of equipment exposed to attrition.

In addition, OptaLog provides a means for map loading, symbol library definition, aircraft configuration, resource management, airfield management, weight & balance. The mobile client in combination with its controlled interfacing to the logistic backend delivers information on the aircraft's status at any operations site – IT-security included.



Key benefits

- Accelerates the process of mission planning
- Establishes secure data links to support safe operation
- Information superiority during the operation
- State-of-the-art tool for mission rehearsal and debriefing of missions
- Intelligent MRO planning decreases life cycle costs of the aircraft fleet