

DEFENCE AND SPACE
Intelligence

Fortion[®] IBMS

Qualified Command and
Control System



AIRBUS

Qualified Air Defence Command and Control System

The Integrated Battle Management Software (Fortion® IBMS) is a qualified Command and Control system for Ground Based Air Defence (confirmed by IEC 61508 International Standard). It is deployable for VSHORAD, SHORAD and MRAD at execution level.

It provides reliable performance for aerial defence, convoy protection, protection of mission critical entities or infrastructure and Counter Unmanned Aerial Systems (C-UAS).

Fortion® IBMS fulfills the demands and requirements of military forces, especially for the mission needs of the 21st century. It uses an open architecture that ensures flexibility and scalability.

Force Operations (non-real time)

Fortion® IBMS is the ideal solution for the intelligence preparation of the battlefield, production of tactical plans (Ops Order), as well as for planning, monitoring and tasking of missions.

Key Benefits

- Fire solution chain according to IEC 61508
- Integrated mission planning and analysis
- Reduced staffing
- Flexibility in mission preparation and execution via role-based operational approach
- Interoperability in joint and combined environment
- Open system architecture - Easy integration of new/legacy sensors or effectors - Scalable to mission needs
- Speeds up appropriate decision-making with adequate support.
- Common core functions for different missions

It comprises deployment, movement and communication planning. It offers display and automatic interpretation of operational information (e.g. ATO, ACO, CMO, WEZ, assets, air, ground, surface situation).

Engagement Operations (real time)

Fortion® IBMS provides integrated situational awareness for air, ground, and maritime by fusing the information of all available sensors and Tactical Data Links in real time.

Fortion® IBMS supports the decision process by using the Identification Data Combining Process (IDCP). This fuses all identification-related information and computes a recommendation along with a human readable rationale.

The system enables comprehensive threat evaluation and optimises the engagements. As a result, it enables effective countermeasures through the use of lethal effectors (prevention, neutralisation). It can also be extended beyond Ground Based Air Defence through non-lethal effectors to address threats such as ground intrusion.

Key Features

- Flexible user role concept
- System administration and monitoring (IT security)

- One workstation to address simultaneously real-time and non-real-time operations
- Interoperability:
 - Tactical Data Links (e.g. Link16, JREAP...)
 - Management of Military Message Handling (e.g. ADatP-3)
- Recording / Replay
- Easy adaptation of the solution to incorporate new sensors and weapon systems
- New HMI designed by GBAD operators

Key References

- Deployed and in operation:
 - German Air Force (MANTIS, LeFlaSys, C-UAS)
 - Malaysian Air Defence
 - Royal Thai Army
- C2 for DIEHL IRIS-T SLM
- Proven in national and international, joined, combined exercises
- Due to its open architecture and the fulfillment of safety regulations, IBMS is viewed by the German customer as the C2 system for future SHORAD systems

