



maria BMS

(Battlefield Management System)

MARIA™ BMS is an application originally developed to support Forward Air Controllers (FAC) and Forward Observers (FO). The application is especially designed to operate effectively on computers with touch sensitive screens (e.g. a Tablet PC), but works perfectly also on standard computers. The main objective for the application is to support tactical navigation in the field, automatic information exchange (enabling Blue Force Tracking) and Forward Air Control (FAC) operations to ensure

- Force security
- Accurate delivery of weapons on target
- Minimise third party collateral damage

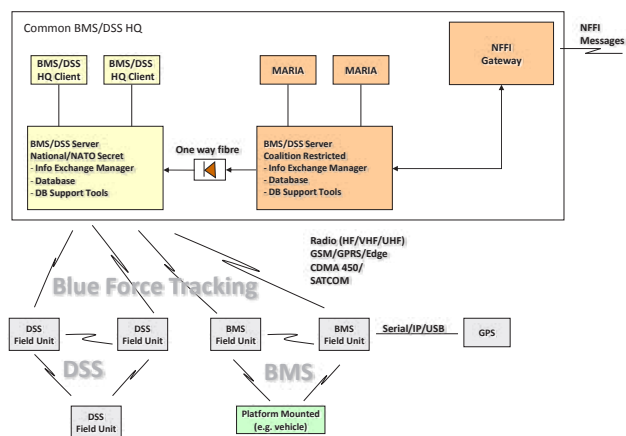
Background

MARIA™ BMS was developed based on specific requirements from, and in close cooperation with the Norwegian Armed Forces. The first version was made available in April 2007 and was immediately fielded for live operational use. Since then several upgrades have been distributed including a separate headquarter (HQ) solution to ensure interoperability with NATO and allied forces. MARIA™ BMS is within the Norwegian Defence known as FACNAV.

MARIA™ BMS is a system supporting FAC/JTAC operations

- Collect target data
- Transfer target data to airborne platforms
- Blue force tracking
- Manage and exchange situational data between units in the field

Typical Configuration



FAC/JTAC functionality

- Manage observer/own position
- Establish target
- Configure safety zones based on weapon selection
- Establish IP/CP
- Create mission
- Create 9 liner and JTASR (DD-1972)
- Send mission update message (X202) to fighter
- Send free text message (X204) to fighter
- On Station and Depart IP message
- Exchange mark points with fighter (IDL protocol)
- Real time tracking of the fighter(s) (IDL protocol)
- Mortar fire control to include both forward observer mortar HQ functionality

Tracking and Navigation Functions

- Automatic tracking of own position using GPS
- Establish waypoints, routes and track logs in the map
- Automatic Blue Force Tracking
- Navigate to selected waypoint(s)

Situational Awareness

- Receive and display NFFI messages
- Request common operational data from HQ
- Create and display map overlays
- List operational data
- Exchange operational data
- Information Flow Manager (IFM)

Operation Support Functions

- Key info window
- Quick access menu
- Zoom/pan map – previous/next map view
- Dim map
- Map grid
- Map configuration
- Night Mode
- Centre to
 - Entity (Unit, target, IP, WP etc.)
 - Situation
- Measure distance
- Terrain analysis
- Free text message
- Message log
- Attachment to entities
- Export to file (XML and Shape)
- Communication channels setup (WMT, Mail, IDL, AFAPD, IP)
- Laser configuration
- GPS configuration
- Synchronize time on computer based on GPS input
- GUI profiles
- Short cut keys (e.g. to switch between touch GUI and regular GUI)

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- Efficient organisation dedicated to Military Command and Control, Electronic Warfare, Training Simulators and Communications Planning.
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