Naval & Air Defence Systems

MISSION PLANNING SYSTEM

The Mission Planning System (MPS) is a state-of-the-art multi-aircraft mission planner which provides complex functions in support to Air Forces during preparation of assigned missions. The system allows aircrews to plan a route with minimum time and risk supporting them during all phases of planning activities, from receiving Air Tasking Orders up to pre-flight briefing and preparation of on-board materials (i.e. printed material and digital data to be transferred via data cartridge).

We have more than 20 years experience in Mission Planning Systems, not only in system development but also encompassing system fielding and set-up, training and operational support.

KEY BENEFITS

MPS provides advanced functionalities for planning of all types of aircraft and helicopter and all type of missions.

Key benefits of the system are:

- Customization
  - Having the complete ownership of the MPS software, we are able to provide any type of customization including additional specific functionalities
- Interoperability
  - Achieved by the use of the same core technology common to all aircraft and by the use of standard data formats, that allows data exchange with a net-centric warfare approach
- Friendly Human Machine Interface (HMI)
  - MPS has an intuitive look and feel which reduces the mission planning time to just a few minutes
- Joint Mission Planning
  - More pilots can collaborate in order to plan individually phases and/or routes of different aicrrfat/helicopter platforms combined into the same mission
- Security
  - All data is protected through system access controls, information classification and user profiles.

MPS

CUSTOM PLANNING

Specific support for planning C27J aircraft missions is already available. This includes:

- Management of characteristics maneouvers (airdrops etc)
- Calculation of performances according to the specific flight manual
- Uploading of mission data on dedicated data transfer device.

MAIN FEATURES

Operational Scenario management

- Management of Mapping, Charting, Geodesy and Imagery, using 2D and 3D engines
- Automatic scenario generation by means of importing Airspace Control Order files
- Management and display of Operational data
- Automatic missions creation by means of importing Air Tasking Order files
- Import and display of NOTAMs (Notice to Airmen)
- Import and display of weather data.

Target/objective analysis (Threats, targets, weaponering)

- Threat analysis (terrain mask and composite threat)
- Target management and display.

Delivery planning

- Planning of attack manoeuvres
- Airdrop planning.

Route planning

- TOLD (Take-off and landing) planning
- Route editing taking into consideration the aircraft configuration and environmental constraints.

Route evaluation

- Performance computation based on aircraft take-off
- Deconfliction analysis
- Route fly through
- Threat fan.

Material preparation

- Combat Mission Folder (printing of maps and forms)
- Briefing materials
- Upload/download data transfer device.

Pre-mission briefing

- Briefing materials display
- Multiple route analysis.

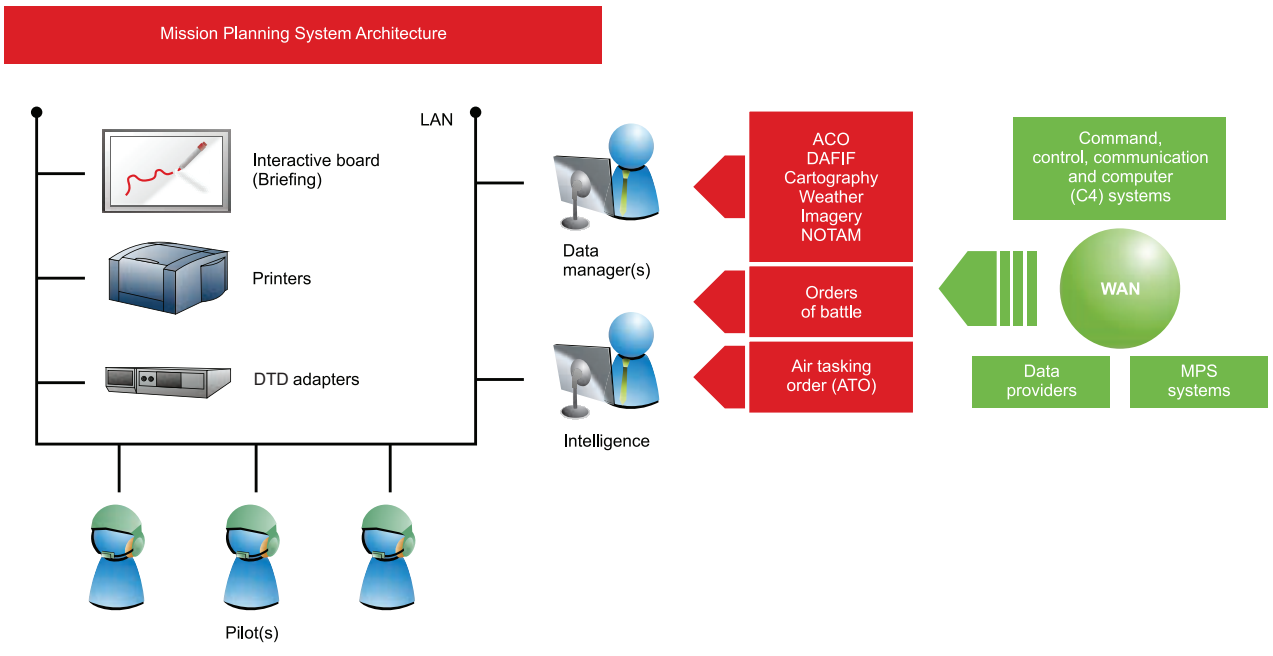
TECHNICAL CHARACTERISTICS

Operating System and COTS

- O.S: MS-Windows
- RDBMS: SQL-Server
- Office Automation: MS-Office.

Data Formats

Cartography	CADRG, ASRP, GeoTIFF, DTED, Vmap in typical scales from 1:5.000 up to 1:5.000.000
ATO and ACO	AdatP-3
Aeronautical data	DAFIF
Weather data	WMO messages (TAF, METAR, SPECI)
Routes	CRD
Others	NOTAM



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