



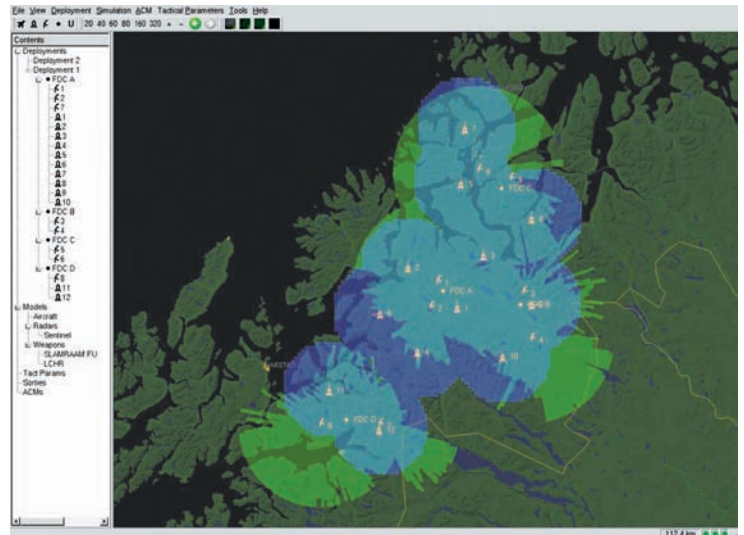
KONGSBERG

# MPT - Mission Planning Tool

The Mission Planning Tool (MPT) optimizes available Ground Based Air Defense (GBAD) resources by developing future deployments based on threat and GBAD system capabilities. Both planning of national GBAD assets, as well as combined planning in international scenarios with multiple GBAD systems, is supported.

## Introduction

MPT assists and accelerates the Commanders decision making process by supporting planning of GBAD Missions. MPT supports planning of new deployments as well as analysis of possible updates of a current deployment during changing tactical situations. Critical tactical weapon system parameters are coordinated to ensure correct distribution of ROE, Airspace Control Orders etc. HAWK XXI and AMRAAM systems can use the defined threat as realistic scenarios in embedded training.

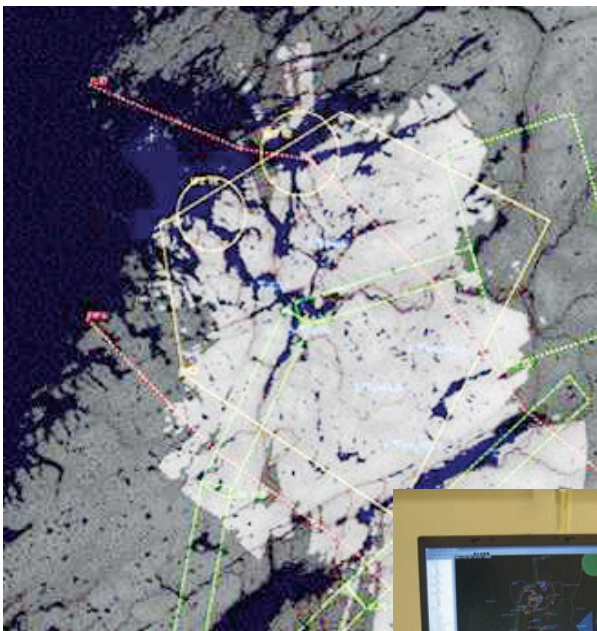


## MPT includes

- Complete deployment planning
- Scenario editor for threat definition to be used in MPT and embedded training
- Coordination and transfer of tactical planning data to BMC4I engagement Operation unit
- USMTF and GBAD AdatP3 integration
- Generic sensor, weapon and aircraft models
- Plug in of high fidelity sensor and weapon models Application Program Interface (API)

## Deployment generation

Operator controlled deployment of sensors and weapons in 3D environment (DTED 1). Deployment is based on electronically inputs from a reconnaissance team or directly on a detailed map. A combination of sensor and weapon coverage is continuously verified towards a specified threat.



Stand-alone and embedded Mission Planning

## Threat definition

The threat IPB is defined as 3D sorties with attached aircraft models with ECM and individual weapon release lines based on track type.

## Wargaming

Designed threat is run towards one or multiple deployment options. Multiple deployments are then compared to find the optimum deployment towards the specified threat.

## Analysis - Measure of Effectiveness

The analysis result is based on threat design, sensor/weapon deployment, defined operator Firing Doctrine and reaction time and Keep Out Zones (KOZ) based on aircraft weapon release time.

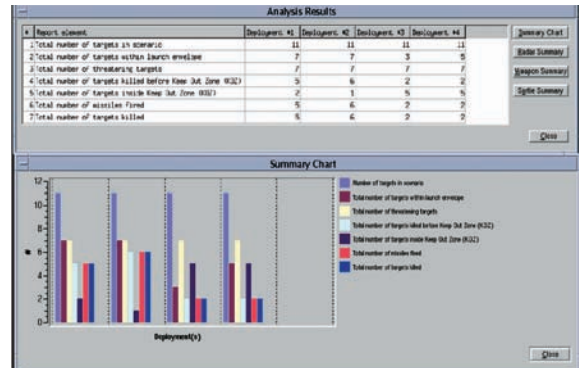
The analysis result includes:

- Total Summary
- Sensor summary
- Weapon summary
- Sortie summary

The summary menus allow the deployment to be analyzed in detail, for a total and individual sensor and weapon performance.

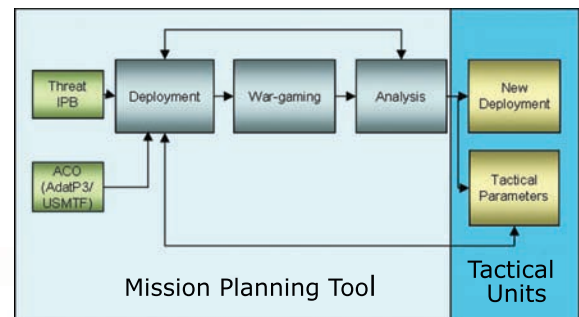
## Current Operations

MPT Current mode allows monitoring of Single Integrated Air Picture (SIAP), system operational status, coordination and distribution of tactical parameters etc.



### Technical Features

- Component based design
- C++ programming language
- Runs on Solaris, Linux and Windows



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