

# Geogrid®-SitView

Power tool for military situation work



*see – understand – decide*

# Geogrid<sup>®</sup>-SitView

## Mastering the common operational picture

As a leading provider of digital map software technology for many years to both the defence and public markets, EADS has developed Geogrid<sup>®</sup>-SitView, the easy-to-use tool for improved situational awareness visualisation.

### Achieving the common operational picture

Within a networked command environment, Geogrid<sup>®</sup>-SitView provides a common operational picture of relevant information. This facilitates collaborative planning and assists all echelons to achieve situational awareness. Geogrid<sup>®</sup>-SitView incorporates the geographical information display capabilities of the German Army's proven MilGeo-PCMAP (a product developed by EADS for the Bundeswehr Geoinformation Service).

A man-machine interface (MMI) based upon the Windows style guide together with the online help pages, simplifies the operation of the software. Geogrid<sup>®</sup>-SitView can be integrated into any larger application such as a C<sup>3</sup>I system by means of a programmers interface. Standard tactical symbols such as units, lines and areas can be superimposed on

various map backgrounds (raster or vector maps) at different scales. The tree view supports the user in creating an unlimited number of different situations. The user can display and update layers separately or in groups and also change them. This can be carried out either interactively or by using the project application.

All modifications to the operational picture can be reassigned into a situation database at anytime. Situations can be printed out in true scale, either separately (e.g. on film) or together with the map background. The transfer of situational information from one user to another is made using either standard or application specific routines (like C<sup>3</sup>I message command procedures).

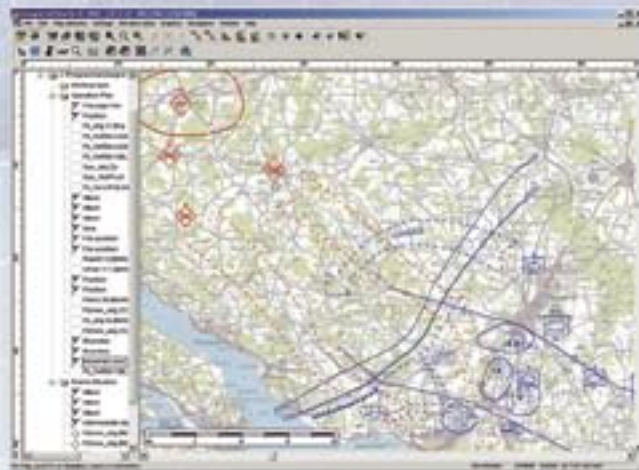
With Geogrid<sup>®</sup>-SitView the user receives a powerful, easy-to-handle tool, which substantially facilitates the situation work within C<sup>3</sup>I, reconnaissance and mission support systems.

### References

Geogrid<sup>®</sup>-SitView is currently integrated within the following systems and customer products with several thousand users:

- FAUST C<sup>3</sup>I system (the German Army's tactical C<sup>3</sup>I System)
- HEROS 2/1, batch 2 (the German Army's Operational C<sup>3</sup>I system for corps to brigade command level)
- FülInfoSys H (FIS H) the German Army C<sup>3</sup>I system for all command levels
- HFlaAFüSys (Army Air Defence Surveillance and Battle Command and Control System)
- ADLER II demonstrator (German Artillery C<sup>3</sup>I system)
- PCMAP Swissline customer product (Standard Military Situation software for the Swiss Armed Forces)

Besides being applied by the armed forces of Germany and Switzerland, Geogrid<sup>®</sup>-SitView is also used by the Netherlands and Portuguese Armed Forces (negotiations continue with other nations).



## Functional highlights

Geogrid®-SitView includes all the basic functions of MilGeo-PCMAP with raster and vector map, overlay graphics, overlay management as well as extensive database, multimedia, elevation and GPS functions. A multi-CD management capability comprises simultaneous access to any number of data files on CD, hard disk and via local area networks. Geogrid®-SitView is fully integrated into the MS-Office environment. For mobile field use or for use inside vehicles, the MMI can be switched from menu/mouse to button/touch-panel control with reduced functionality. As with all Geogrid® products, Geogrid®-SitView has an integrated Geogrid®-PlugIn interface for customising and easy integration into larger applications.

## Military situation capabilities

Apart from its basic functions, Geogrid®-SitView allows the editing, maintenance and storage of military situation overlays. These functions include:

- Editing and graphical presentation of icon based symbols and tactical graphics according to ZDv 1/11 and APP-6A symbol sets (other sets upon request).
- Tree view for a convenient management of situation layers (planning situation, actual situation, friendly/enemy situation, archive etc.).
- A multitude of independent user-defined folders for grouping troop parts, echelons, etc.
- Symbol set including icon based symbols (e.g. basic symbols, battle dimensions and affiliations, current and planned status) and tactical graphics (e.g. tasks, control measures, points, lines, areas, aviation manoeuvre graphics, deception graphics, offensive/defensive graphics, special manoeuvre graphics, mobility/survivability, fire support graphics, combat service support, command & control and other, non-warfare operations)
- User-selected specific symbol sets can be arranged on symbol tablets
- Positioning of icon based symbols and tactical graphics from symbol tablets on map background by drag-and-drop or via coordinate input
- Symbol generator for editing icon based symbols according to ZDv 1/11 and APP-6A (aerial situation symbols or other national symbol sets upon request)
- Automatic displacement and replacement of icon based symbols with one common reference point
- Saving and loading of previously created situations and partial situations
- Set situation layer mode: enabled, disabled, visible, invisible
- Transfer of situations and partial situations via e-mail
- Menu and online help in German, English and French (other languages upon request)
- Geogrid®-SitView situation graphics can also be adapted for use in non-warfare situations such as police operations, peacekeeping or coordination of humanitarian/emergency aid and public safety programmes

## Geogrid®-COPEX

Geogrid®-COPEX (Common Operational Picture extension) is offered for system applications, which like to apply the situation functionality of Geogrid®-SitView together with their own GIS viewer (instead of MilGeo-PCMAP). Geogrid®-COPEX incorporates an API, which makes it easy to interface with any GIS-API.



# Geogrid®-SitView functions

## Military situation graphics

- Icon based symbols
  - Basic symbols
  - Battle dimensions and affiliations
  - Present and planned status
- Tactical graphics
  - Tasks
  - Control measures
  - Points
  - Lines
  - Areas
  - Aviation manoeuvre graphics
  - Deception graphics
  - Offensive/defensive graphics
  - Special manoeuvre graphics
  - Mobility/survivability
  - Fire support graphics
  - Combat service support
  - Command & control
  - German ZDv 1/11
  - Swiss Army XXI
  - Nato APP-6A

## Overlays/layers

- Unlimited number of overlays
- Unlimited number of layers per overlay
- Overlays may represent any mode of situation, e.g.
  - Own situation
  - Enemy situation
  - NBC situation

## Symbol generator

- Interactive symbol generator
- Full catalogue of basic symbology
  - German ZDv 1/11
  - Swiss army XXI
  - Nato APP-6A

## Tree view

- Display of all situations and layers
- Display of all layer elements
- Set visible/invisible, changeable/unchangeable, selectable/unselectable, savable/unsavable
- Centre symbol/graphics on screen
- Arrange layers and symbols/graphics

## Symbol tablets

- Unlimited number of tablets and subtablets
- Drag & drop symbols/graphics to map
- Copy & paste symbols/graphics
- Create new tablets/subtablets
- Integrate new symbols with symbol generator

## Interface

- *Geogrid®-Plugin* functional interface
- Interface to situation database

## User interface

- Configuration of window settings
- Mouse/cursor control
- Touch/button control (upon request)
- German, English, French

## Map display functions

The geographic data viewer functions of MilGeo-PCMAP are integrated within Geogrid®-SitView. Refer to MilGeo-PCMAP brochure for details.

- Basic functions (overlay handling, print, measure, import, export etc.)
- Map functions (raster/vector map, images, scale, coordinate system etc.)
- Elevation functions (relief, shading, path profile, perspective flight mode etc.)
- Basic graphic functions (line, area, circle, rectangle, triangle, text, bitmap etc.)
- Database (locations, objects, user database, multimedia, import etc.)
- GPS/Navigation (GPS interface, track record/replay, route planning etc.)

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