

# MAPS NT

Map Data Preparation Software



*see – understand – decide*

# MAPS NT, The Powerful Tool for Map Data Preparation

## Maps on the verge of a new era

Man's quest for orientation is very old. The first findings of maps, cut in clay tablets, date back to 3,800 BC. Over the millenia, maps were reproduced on stone, animal skin, paper and later on plastics. Whereas their level of detail was continually improved, their clarity was limited by the amount of information.

And it is precisely here where advanced information technologies are setting new standards. Map digitalisation and the use of databases have made map maintenance much faster, even with more complex maps. At the same time, a large amount of additional data such as pictures, graphics and text can be stored and overlaid on the map as necessary.

## MAPS NT workflow

The main function of MAPS NT is the preparation of user-oriented raster map data from the different military raster data formats within NATO. The production of raster data from paper maps or printer film is also supported.

MAPS NT comprises the full workflow from raster data import, raster data processing, quality control, data administration to raster data output. The same functionality is offered concerning elevation data. Working with MAPS NT is supported by an extensive online help function.

## When it's time that matters

Digital maps provide a fast, clear and precise information medium. Consequently, the armed forces, border patrol, police, rescue services and other organisations were amongst its first users. Nowadays, the benefits of digital map preparation are also used in land, maritime and air traffic.

## MAPS NT - a support tool

MAPS NT provides easy-to-use support for the demand of a near-real-time production of map data by military and other public services. For the preparation of map data e.g. for crisis reaction activities, the military mapping agencies, as well as the weapon systems support centre face a limited time window to support the forces with actual geographic data.

With MAPS NT, the job can be done easily within the domestic support agencies or even in outside areas by skilled personnel in order to supply the end-users of mainly MilGeo-PCMAP (CMRG-format STANAG 7151) and its family products and applications.

MAPS NT is under operational use with the German, French, Swiss, Dutch and Portuguese armed forces, either with the military mapping agencies or in the weapon systems and available with German, English, and is French menus.



## Data import section

Within the import section, various formats can be imported to the MAPS NT database, such as:

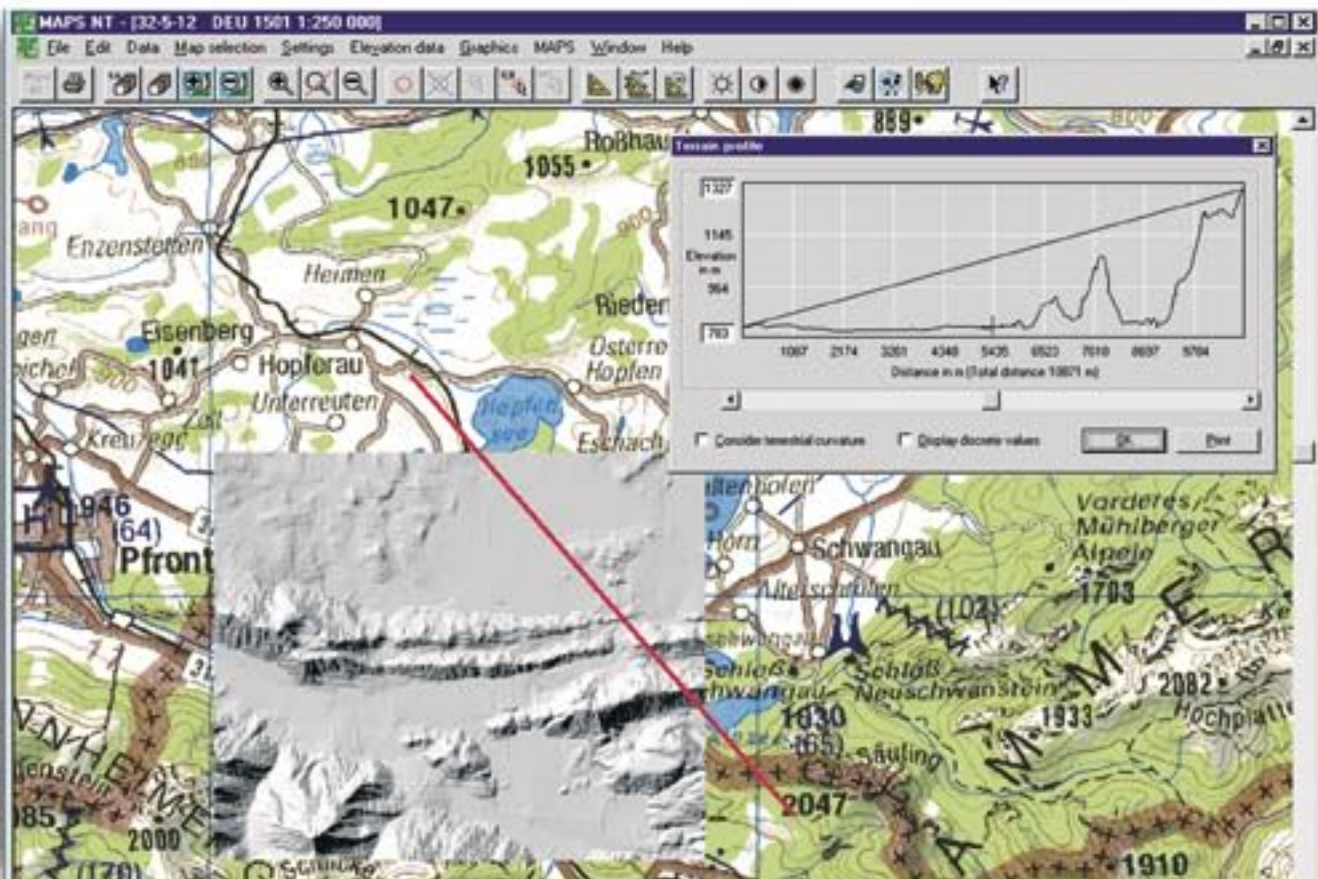
- Raster map data  
NATO formats like ADRG, ASRP, CADRG, CRP, CMRG and USRP as well as industry standards like TIFF, GeoTiff and JPEG
- Elevation data  
NATO formats like DTED, GTOPO30 (US) and DHM (GE)



## Data processing

MAPS NT additionally offers the following processing features:

- Geo-referencing, rectifying, transformation with resampling
- Nibbling (cut-out of legend and frame, cut-out of overlapping areas)
- Manipulation of bit depth, resolution and colours



- Mosaicking of large areas in various projections: UTM, Equal Arc, Gauss-Krüger, Transversal Mercator, National Grids (Switzerland, Austria, Portugal etc.), Cylinder (limited), Lambert-conformal (limited), Mercator (limited)
- Several geodetic datums are supported like WGS 84, ED 50, Potsdam Datum, KS 42/43 etc.

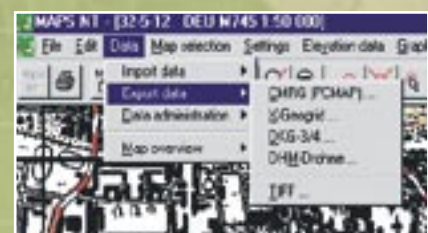
### Quality control

The quality of the data can be controlled by the following functions: Map overview, co-ordinate display, co-ordinate grid, visualisation of elevation data.



### Data administration

The data administration section features the archiving of data, and gives full access to file management like edit, actualise and delete.

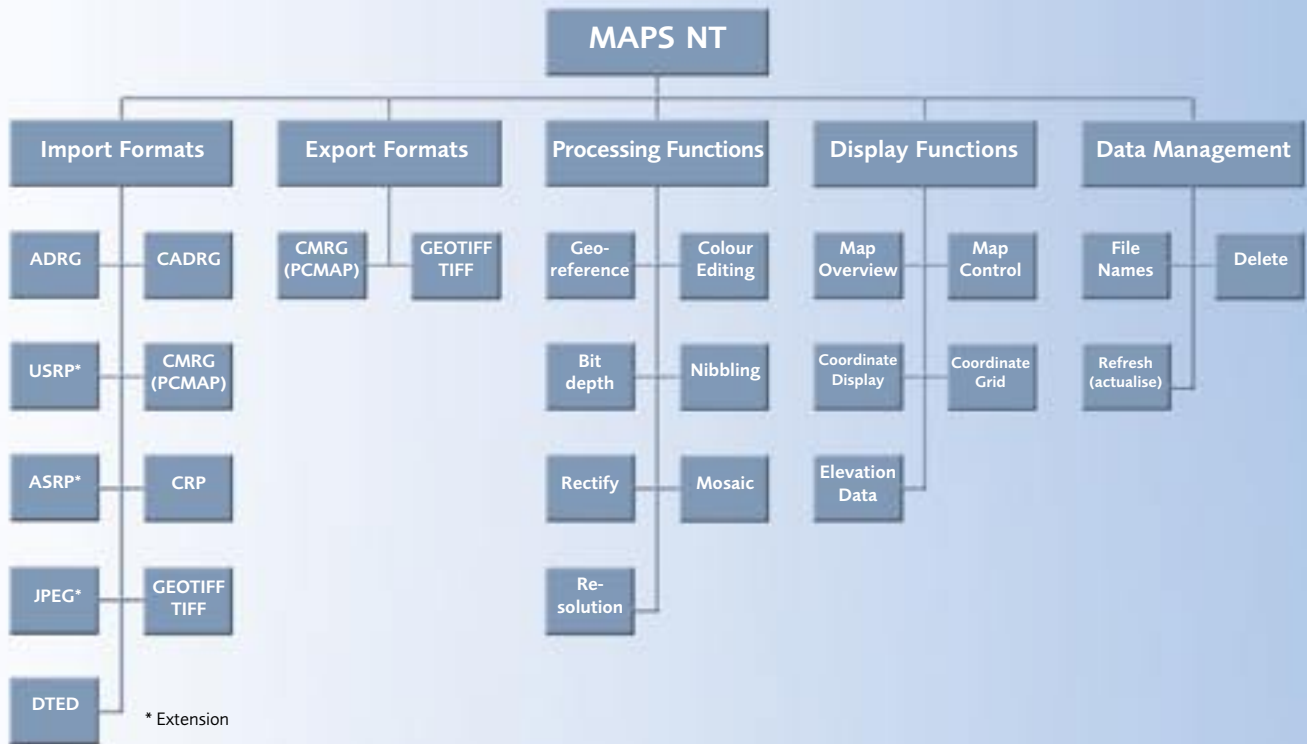


### Data export section

Within the export section, the following data formats can be produced:

CMRG (Compressed MilGeo Raster Graphics including elevation data, STANAG 7151), TIFF and GeoTIFF

# Functions of MAPS NT



## Minimum Hardware Requirements

- Pentium PC
- 128 MB RAM
- 20 MB hard disk (for installation)
- Additional hard disk space for user-data
- Graphics board (256 or true colour, min. resolution 1024 x 768)

## Software Requirements

- Windows NT 4.0
- Windows 2000
- Windows XP (on request)

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