

MOVE3



Imagine

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the cost saving

Consultant

if remeasuring

GIS & ICT

can be avoided

The **object** of an adjustment program is to find errors. First in the network design, second in the field measurements and, last but not least, in the stations to which the network is connected. A day to day challenge for the surveyor who wishes to optimize his network design with the best available Q/A tools.

MOVE3 is a software package for the design, adjustment and quality control of 3D, 2D and 1D geodetic networks. The software fully complies with the principles of the Delft School adjustment theory, which is widely acknowledged as the superior methodology in managing network quality.

MOVE3

The development of MOVE3 evolved out of the conviction that 3D adjustments should be carried out in a true 3D mathematical model. MOVE3 properly handles all complex mathematics associated with the 3D geodetic model. The user may enter true observations and co-ordinates in the projection of his choice. For accurate height determination MOVE3 supports geoidal corrections from various geoid models, such as EGM96. Also local geoid data can be input when supplied in a specific format. To the surveyor this approach means 'real simplicity in practice'.



Built-in flexibility

Geodetic professionals have put a lot of their expertise and knowledge into MOVE3, thus creating a powerful, yet user-friendly environment. MOVE3 features an easy to learn user interface. Raster images can be loaded as background layer, displayed beneath the network layout. The processing results are output in XML/HTML based report files with a built-in flexibility to see just what you want to see. Though MOVE3 cannot prevent the user from making mistakes, it provides the means to minimise cost and effort associated with troubleshooting.

The network you like

MOVE3 includes powerful tools, such as automatic computation of provisional co-ordinates and advanced error detection during the adjustment. In addition to 3D adjustments, MOVE3 can also perform 2D and 1D adjustments. Selecting the proper dimension is a matter of setting the Dimension Switch. Even 'mixed-dimensional' networks can be handled. Depending on the available observations one will compute a 3D, 2D or 1D solution for each station.

MOVE3 can handle all your geodetic observation types occurring in virtually any combination. Import functions are available for TPS, GPS, and levelling observation records. In addition, MOVE3 supports typical cadastral observation types such as chainage/offset and geometrical constraints (orthogonal lines, parallel lines, collinearity, azimuth/distance). Unlike many other processing packages MOVE3 allows for a completely integrated processing. As a result, the user is free to build up the network as he likes. He does not need to worry how to set up his network in order

to work around software related processing restrictions.

MOVE3 and 3rd party software

While MOVE3 offers an independent self-contained environment for processing survey data, the core technology of MOVE3 has been made available to OEM developers.

The MOVE3 processing kernel is licensed to reputed vendors, who have integrated it in their survey applications/tools (e.g. ESRI and Leica). The kernel is also fully integrated in Grontmij's own software package dgTopo. dgTopo is a powerful survey application facilitating real time on-line processing in the field using tablet PC's, as well as traditional off-line post-processing in the office. Finally, many suppliers of survey applications have developed a file based data interface with MOVE3.

Information

MOVE3 is available in three language versions: Dutch, English and Chinese. For more information please visit: www.move3.com or contact Gerard Verkuil at: gerard.verkuil@grontmij.nl or move3@grontmij.nl.



move3

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