

## Automatic import and export of vector maps

### *Doing away with manual intervention when updating maps*

Cities and towns continuously change and evolve; new residential areas appear, old houses are torn down and new ones take their place, where once a single-family house majestically occupied an expansive garden now a multi-family apartment block stretches the boundaries to their limits. New streets are required; others lengthened and adapted to cater for the new housing arrangements.

As a result, maps need to be regularly updated and then imported into the documentation system. Manually inserting a few updated maps is of course not a problem, however when there are a large number of maps involved then a more comfortable and efficient means is required.

AND MapUpdate is an optional plug-in for AND SystemSolution, which enables the system to automatically import new or replace updated DXF and DWG vector maps. Modifications carried out in AND can also be automatically provided to external GIS such as Smallworld™ and Esri™.

The vector maps are placed in pre-designated directories, which are monitored by an AND service. As soon as AND recognises a new or modified file it initiates the import or exchange procedure based on the file name and type; no user intervention is required.

During the import/replacement the following transformations are possible:

- Layers can be assigned to predefined AND layers
- Source map can be split in to a number of smaller tiles to improve loading performance
- Coordinate transformation – imported maps can have a different coordinate system to the one used by AND

AND can manage a number of different folders allowing the import of different types of maps. Each project can have its own AND project type and its own import configuration.

With the deployment of AND MapUpdate it is possible for AND to co-habit with AutoCAD™-based solutions, e.g. for mobile or utility networks. Providing the AutoCAD™ files are stored in a predefined directory these can then be fetched by AND as soon as they have been updated.

AND can also automatically export DXF/DWG files triggered by network design/documentation updates in AND. The files are stored to a designated directory without any user intervention being required.

