

VISIBILITY ANALYSIS EXTENSION

- Extension for performing high-performance visibility calculations.
- Uses elevation data to compute the regions that have a free line of sight to the position of a geographical object.
- Extremely rapid - designed to be computed on-the-fly for moving objects.
- Can use multi resolution data sources.
- The line of sight result consists of raster values that specify how tall an object has to be to be seen at a specified position. This can be used for a colour-coded visualization as in the picture above.
- The result can also be visualised as a surface in 3D or intersected and visualised in a vertical profile.
- Many configurable sensor parameters, such as lobe size, maximum range and refraction means that the calculation can also be used for determining the line of sight from regular or phased array radar systems.
- Also provides high-performance calculation of intravisibility between multiple moving objects, useful for target tracking.
- Can determine the optimal positions for surveying a specific area.
- Also contains functionality for computing the shadows cast by terrain features such as mountains on a specific time and day.

PRINTING EXTENSION ^{1, 3}

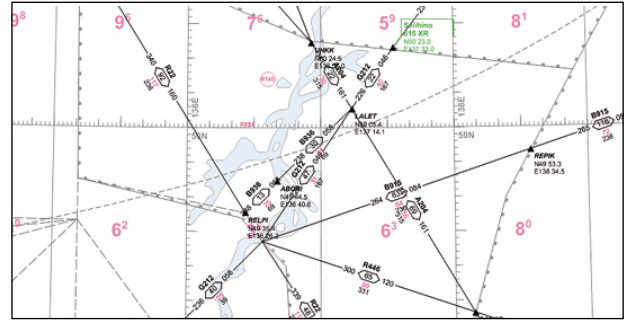
- Extension for handling scale-correct printing of maps and other Carmenta Engine 2D Views on printers.
- Support for printing directly on printer with printer's resolution or indirectly by first rendering to an internal bitmap.
- Support for tiled printing for large paper sizes such as A0.

MILITARY GEODATA FORMATS EXTENSION

- Adds functionality for reading military geographic data in CMRG (PCMap), DFAD and RPF (CADRG and CIB) formats.

TERRAIN VEHICLE ANALYSIS EXTENSION

- Extension for calculation of terrain vehicle accessibility and speed in terrain.



ARINC 424 EXTENSION

- Reads aeronautical navigation database files on the ARINC SPECIFICATION 424-16, 424-17 and 424-18 formats.

MAP PACKAGE EXTENSION

- Makes it possible to package a mix of map images, raster data and vector data in a single, optimized package.
- Especially useful for mobile devices where it is essential to minimize the amount of processing necessary to read and display data.
- Supports the OGC GeoPackage standard to ensure interoperability with other systems.

C-MAP CM93 EXTENSION ^{1, 2, 3}

- Functionality for reading Jeppesen C-Map CM93 nautical chart data.

C-MAP CM93 S52 PRESENTATION EXTENSION ^{1, 2, 3}

- Adds support for visualizing CM93 data according to IHO S-52.

DWG AND DXF EXTENSION ³

- Extension for reading CAD databases in DWG and DXF, the AutoCad file formats.

SPATIAL DATABASE EXTENSIONS ³

Extensions for reading geospatial data from different kinds of database systems:

- Microsoft SQL Server Extension
- MySQL Extension
- Oracle Spatial Extension
- PostgreSQL/PostGIS Extension

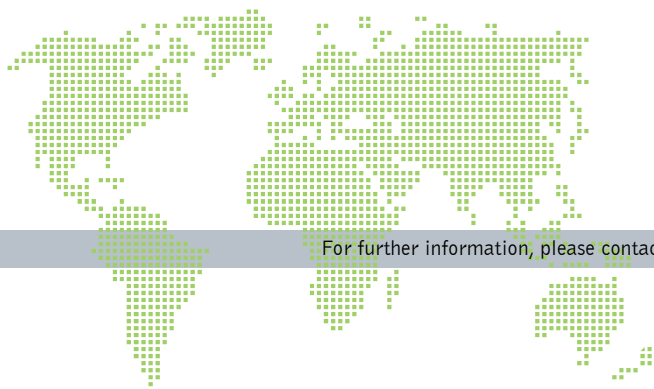
RADAR PLOT EXTENSION

- Extension for efficient rendering of radar plots and other extremely dynamic information.
- Easily handles millions of continuously updating plots.
- For more information refer to the separate Carmenta Engine Radar Plot Extension product sheet.

¹ Not available on Carmenta Engine Linux.

² Not available on Carmenta Engine 64-bit.

³ Not available on Carmenta Engine for Android.



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