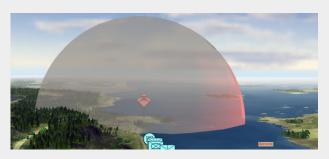


Carmenta Engine 5.15 **Extensions**

3D EXTENSION

- Enables interactive 3D fly-throughs with dynamic loading
- On the fly generation of 3D worlds straight from 2D/3D GIS data in any format suppported by the Engine - no 3D modeling is needed.
- For more information, refer to the separate Carmenta Engine 3D Extension product sheet.



EXTENSIONS FOR TERRAIN ANALYSIS

- Vertical Profile Extension: Generates a vertical profile along routes, cutting through both terrain and vector data sources such as airspaces.
- Vertical Clearance Extension: Calculates the terrain and obstacle clearance in a corridor around routes.
- Terrain Warning Extension: Dynamic terrain colouring in 2D and 3D to indicate the distance to the aircraft.
- For more information, refer to the separate product sheet Carmenta Engine Extensions for Terrain Analysis.



¹ Not available on Carmenta Engine Linux.

CATALOG EXTENSION

- Gives Carmenta Engine based applications a structured way to handle background maps. A Catalog can be instantiated either from a local folder or from an OGC CSW service.
- The Carmenta Map Builder application (sold separately) gives end users an easy way to add new maps to the catalog.

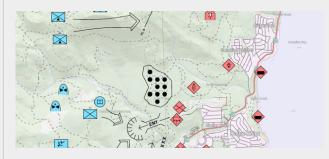
GEOREFERENCED VIDEO EXTENSION

- Makes it possible to georeference full motion video streams on the fly in order to display the video overlayed on the map.
- For more information, refer to the separate Carmenta Engine Georeferenced Video Extension product sheet.



TACTICAL EXTENSION

- Extension for creating, managing and visualising tactical symbols according to the DOD MIL-STD-2525 and NATO
- For more information please refer to the separate Carmenta Engine Tactical Extension product sheet.



² Not available on Carmenta Engine for Android.

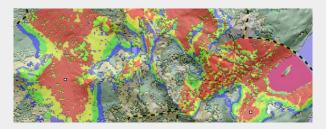
NAUTICAL CHART EXTENSION

- Extension for using Nautical Charts according to the IHO S-57, S-63 and S-52 standards.
- Reads and portrays both ENC and NATO AML data.



VISIBILITY ANALYSIS EXTENSION

- Extension for performing high performance visibility calculations in both 2D maps and 3D city environments.
- Extremely rapid designed to be computed on-the-fly for moving objects.
- Also provides high-performance calculation of intravisibility between multiple moving objects, useful for target tracking.



MILITARY GEODATA FORMATS EXTENSION

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

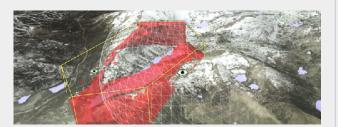
TERRAIN VEHICLE ANALYSIS EXTENSION

- Makes it possible to calculate optimal off-road routes for terrain vehicles based on ground conditions and vehicle characteristics.
- Can also calculate terrain vehicle accessibility and deployability.



AIRSPACE COVERAGE EXTENSION

 Makes it possible to analyse how well a number of different sensors cover a specific airspace of interest.



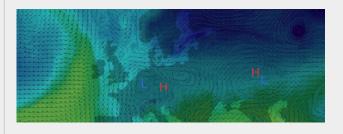
AERONAUTICAL DATA FORMATS EXTENSION

 Reads aeronautical navigation database files on the ARINC SPECIFICATION 424-16, 424-17 and 424-18 formats as well as on the AIXM 5.1 and 5.1.1 formats.



METEOROLOGICAL EXTENSION

 Extension for reading and visualizing weather forecasts in the GRIB1 and GRIB2 formats.



HEATMAP EXTENSION

 Adds functionality for dynamically generating point density rasters which can be visualised as heatmaps.

C-MAP CM93 EXTENSION 1,2

 Adds support for reading C-MAP CM93 nautical charts and visualising them according to the IHO S-52 standard.

DWG AND DXF EXTENSION 2

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

SPATIAL DATABASE EXTENSIONS 2

- Extensions for reading geospatial data from different kinds of database systems:
- Microsoft SQL Server Extension
- MySQL Extension
- Oracle Spatial Extension
- PostgreSQL/PostGIS Extension

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 Extensions product sheet.



For further information, please contact us: +46 31 775 57 00, info@carmenta.com carmenta.com