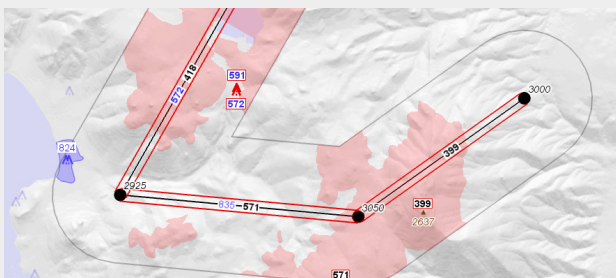carmenta

Carmenta Engine 5.14 Extensions

3D EXTENSION

- Enables interactive 3D fly-throughs with dynamic loading of data.
- 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.

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 App-6 standards.
- For more information please refer to the separate Carmenta Engine Tactical Extension product sheet.
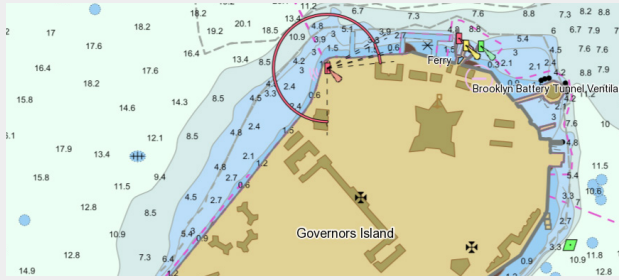

¹ Not available on Carmenta Engine Linux.
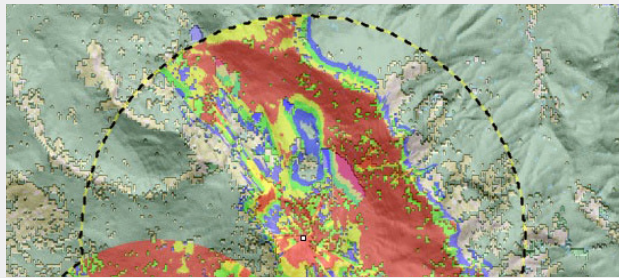² Not available on Carmenta Engine for Android.

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.
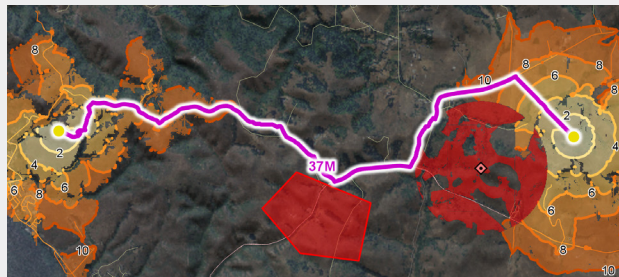

MILITARY GEODATA FORMATS EXTENSION

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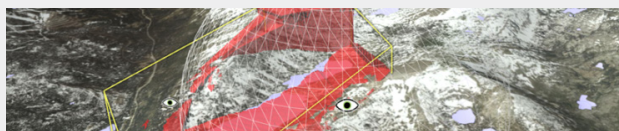
TERRAIN VEHICLE ANALYSIS EXTENSION

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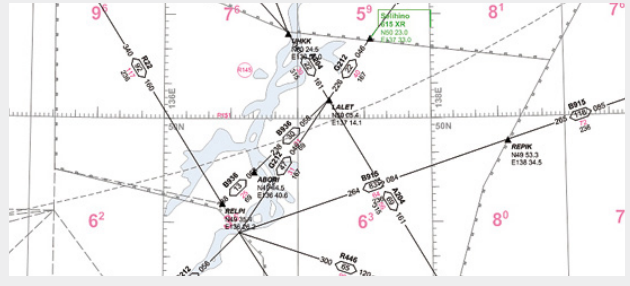- Can also calculate terrain vehicle accessibility and deployability.

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.

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.

RADAR VIDEO EXTENSION

- Extension for hardware accelerated rendering of Radar Intensity Displays.
- For more information refer to the separate Carmenta Engine Radar Extensions product sheet.

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