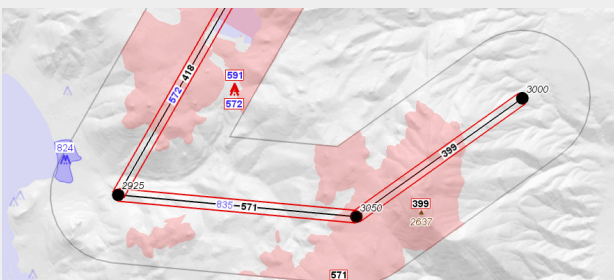carmenta

Carmenta Engine 5.12 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.
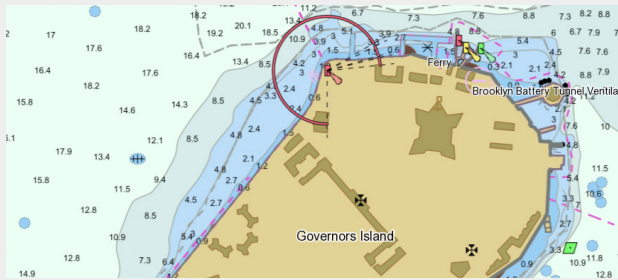

[1] Not available on Carmenta Engine Linux.
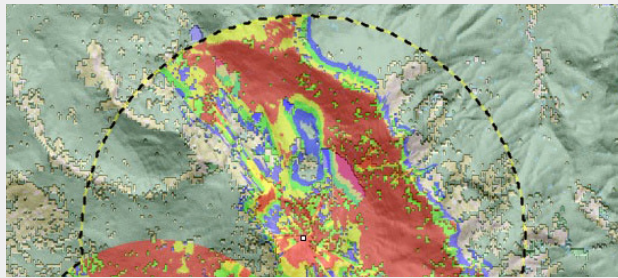[2] Not available on Carmenta Engine for Android.

NAUTICAL CHART EXTENSION

• Extension for reading and rendering Nautical Charts according to the IHO S-57, S-63 and S-52 standards.
• For more information please refer to the separate Carmenta Engine Nautical Extension product sheet.

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.

MAP PACKAGE EXTENSION

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

ARINC 424 EXTENSION

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

HEATMAP EXTENSION

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

C-MAP CM93 EXTENSIONS [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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For further information, please contact us:
+46 31 775 57 00, info@carmenta.com
carmenta.com