

# Carmenta Engine Lite

## Features summary

- Available as Software Development Kit (SDK) or Runtime Module.
- Small memory footprint (from ~100 KB).
- Works off-line with locally stored GIS data or accesses remote layers from a Carmenta Server.
- Quick initialization of datasets containing thousands of files.
- Handles both raster and vector data.
- Supports memory resident layers for application data.
- Real-time data re-projection of vector data.
- Real-time rotation of raster and vector map views, e.g. according to vehicle heading.
- Interactive editing of geographic objects.
- Level-of-detail handling to select data source, based on the map scale.
- Can be used on a number of Java and .NET platforms.

## Geographic databases / formats

- PNG, JPEG, GIF, BMP
- ESRI Shapefile, ERMapper ECW
- Idevio RaveGeo vector data (optional package).
- Remote access to data from a Carmenta Server.

## Geographical objects

- Points, Lines, Polygons
- MultiPoints, MultiLines, MultiPolygons
- GeoCollections

## Geographic projections / Reference systems

- Geodetic or geographic coordinates (Longitude/Latitude).
- Mercator Degrees, Transverse Mercator (Gauss-Krüger).
- UTM (Universal Transverse Mercator)

- Predefined reference systems, projections and geodetic datums.
- Dynamic re-projection of vector data

## Visualization

- Visualizes lines, polygons, symbols and text
- Supports various line styles
- Rotated text labels
- Level-of-detail handling displays different layers, based on current map scale

## Interaction

- User-extendable interaction tool concept
- Multiple, ready-to-use navigation tools
- Picking and querying objects
- Single and multiple object selection
- Creates and edits points, lines and polygons

## Software Development Kit

- SpaceLab - Graphical Configuration Tool and viewer.
- GeoImage Exporter – Tool to create tiled raster data from any Carmenta Engine configuration

## Operating systems

- Windows
- Pocket PC / Windows Mobile

## Supported platforms

- Microsoft .NET Compact Framework 2.0 or later
- Java 2 Standard Edition (J2SE) 1.4 or later
- Microsoft .NET 1.1 or later

For further information, please refer to the Carmenta Engine product sheet, or contact Carmenta.