



## Bentley Map® V8i (SELECTseries 2)

Powerful, Extensible GIS for the World's Infrastructure

Bentley Map V8i (SELECTseries 2) is a fully featured GIS that is intrinsically 3D. It is designed to address the unique and challenging needs of organizations that map, plan, design, build, and operate the world's infrastructure. Bentley Map supports the creation, persistence, maintenance, analysis, and sharing of 2D and 3D geospatial information. It is also ideal for developing custom GIS applications, and is available in three editions to support different geospatial workflows.

### Available in Three New Versions to Support Different Workflows

Bentley Map is now available in three versions for different geospatial workflows. **Bentley Map PowerView** supports viewing and light editing, **Bentley Map** supports 2D and 3D editing and analysis, and **Bentley Map Enterprise** supports advanced image management and long transactions in Oracle Spatial without the need for a server connection.

### Native Oracle Spatial Support Enables Centralized Data Storage

Oracle Spatial is quickly becoming the standard method for organizations to store and manage very large volumes of spatial data. Bentley Map can edit 2D and 3D data directly in any standard Oracle Spatial environment. Bentley Map's connection to Oracle enables raster and vector data to be stored in a centralized database using native Oracle Spatial object definitions.

### Intelligently Create Geospatial Objects

Bentley Map includes advanced 2D and 3D design productivity innovations to create and maintain engineering-quality spatial data. Geospatial objects can be intelligently created with ease using interactive snapping tools. Bentley Map also includes dimensioning, annotation, raster display and editing, printing, publishing, and much more.

### Offers Spatial Analysis and Presentation Capabilities

The software also includes a full collection of spatial analysis and presentation capabilities using 2D and 3D data. Among these are tools for creating buffers around objects, performing topology overlays, creating thematic maps, 3D collision detection, labeling, and more.

### Improved Interoperability for Shorter Design Time

Users can leverage the tools in Bentley Map to improve interoperability with other GIS formats. They can directly

reference from the Bentley Map interface Esri SHP files, MapInfo TAB files, Oracle Spatial, ODBC, WMS, Google KML/KMZ, 3D PDF, i-models, and others. Data can also be exported into these formats and with other engineering disciplines. Moreover, Bentley Map interfaces to FME from Safe Software, greatly extending interoperability.

### Feature Symbology Synchronized With Attribution

Bentley Map has administrative tools to define features, attributes, symbology, behavior, and placement tools. It also includes tools to promote simple geometries to intelligent features with full attribution. The product ensures that feature symbology remains synchronized with attribution.

### Powerful Rendering Tools Generate Scenes and Fly-Throughs

Powerful 3D rendering tools are included to generate scenes and fly-throughs of urban models. Capabilities include shadow studies, line of sight, view corridors, street profiles, disaster scenario studies, and more.

### Profit from Advanced Map Finishing Tools and an Extended API for Speedy Customization

Its advanced text display capabilities allow map features to be presented with drop shadows, halo effects, linear graded fill, and other map finishing effects. Advanced support for the placement and manipulation of curved text enables users to create and modify text and annotations associated with any spatial element. Bentley Map is also designed with a remarkable degree of flexibility and configurability so that subject matter experts can customize it without having to write new code.



Extrude 2D building outlines into 3D features using push/pull solid modeling controls.



Bentley Map includes thematic mapping tools for 2D and 3D datasets.



Drape aerial imagery over terrain and texture buildings to enhance realism.

## System Requirements

### Processor:

Intel Pentium or AMD processor 3.0 GHz or greater

### Operating Systems:

Windows 7, Windows 7 (64 bit), Windows Vista (including Home Premium, Business, and Ultimate editions), Windows Vista (64-bit), Windows XP Professional (SP2 or later), Windows XP Professional (64 bit), Windows Server 2003 (SP1 or later), Windows Server 2003 (64 bit)

### Software Prerequisite:

MicroStation V8i (SELECTseries 2), optional installation when configured with Bentley Map

### RAM:

512 MB memory minimum, 2 GB recommended. More memory will typically improve performance, particularly when working with larger models.

### Hard Disk:

1.5 GB free disk space minimum

## Find out about Bentley at: [www.bentley.com](http://www.bentley.com)

### Contact Bentley

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### Global Office Listings

[www.bentley.com/contact](http://www.bentley.com/contact)

## Bentley Map At-A-Glance

### Mapping and Infrastructure GIS

- Compile and edit data efficiently
- Design, build, and publish accurate maps and infrastructure models
- Enforce business and topological rules
- Brings CAD accuracy, ease-of-use and efficiency to GIS
- Works seamlessly with Bentley's AEC applications

### All the Power of MicroStation

- Smart, quick drawing, and editing of GIS features in a MicroStation environment
- Raster management
- AccuSnap, AccuDraw®
- Display priority, transparency
- Coordinate system assignment and on the fly re-projection
- Full 3D modeling especially relevant for 3D City GIS projects

### Map Manager

- Easy-to-learn interface to your spatial data
- Intuitive, easy-to-use, persisted map definitions
- Drag-and-drop layers to control display order
- Control all aspects of map display

### XML Feature Modeling

- XML metadata-driven GIS
- Extensible
- Property-based symbology and annotation
- Convert simple elements to smart GIS features

### Geospatial Administrator

- Manages the XFM framework through one interface
- Runs outside MicroStation

- Defines and maintains XFM project files
- Defines features, properties, and the tools used to build those features

### Choice of Data Stores

- Three-tier and two-tier connection to Oracle Spatial
- Three-tier connection to Esri ArcGIS
- Self-contained XFM DGN files
- Any RDBMS/DGN supported by MicroStation

### Oracle Spatial Editing

- Fully Oracle Spatial compliant
- Two- or three-tier connection
- 3D object support
- Adherence to native Oracle Spatial feature and topology models

### Topology modes

- Topology maintenance
- Workflows for cadastre management (split, merge, build)
- Topology graph maintained while editing
- Shared editing commands to move common primitives

### Integrated COGO Editor

- Input precision coordinate geometry (COGO)
- Convert COGO data into geometry
- Create parcels from legal descriptions

### Measurement Tools and Linear Adjustment

- Place points through radial or rectangular measurements from a baseline
- Create list of radial or rectangular staking measurements
- Perform linear adjustments on inaccurate data

### Spatial Analysis and Presentation

- Spatial analysis
- Thematic display
- Buffer creation
- Dynamic labeling
- Curved text placement, follow angle or curve
- Text and element halo tools

### Map Generation and Print Preparation

- Grid and graticule generation
- Interactive location map index with references
- WYSIWYG plot generation with user defined templates and legends
- Publishing to intelligent PDF, PostScript, color separates
- Data cleanup and integrity tools
- Solve integrity problems with imported or legacy data
- Easily adopt XFM schema for imported or legacy data through Dynamic Feature Scoring (DFS)

### Interoperability

- Direct reference geospatial formats
- MapInfo (TAB, MID/MIF), Shapefiles, Oracle Spatial, CSV, GML, and ODBC sources
- Import/Export tools
- Integration with Safe Software's FME for access to 225+ data formats

### GIS Development Platform

- Utilize Open API
- Develop via C expressions, XSLT, VBScript

\*Bentley Map is offered in three editions (Bentley Map PowerView, Bentley Map, and Bentley Map Enterprise) with different combinations of these features. Visit [Bentley.com/bentleymap](http://Bentley.com/bentleymap) for more information.



*Quickly create and maintain polygon-based data found in parcel mapping workflows.*



*Easily publish 3D city models to Google Earth.*