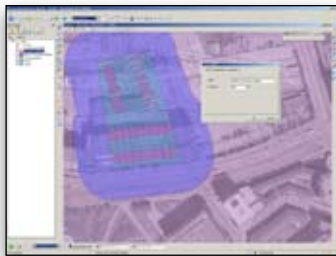




BENTLEY MAP™

POWERFUL, EXTENSIBLE GIS FOR THE WORLD'S INFRASTRUCTURE

Bentley Map is a fully-featured desktop GIS which can be used to map, plan, design, build and operate infrastructure. Bentley Map enhances underlying MicroStation® capabilities to power precise geospatial data creation, maintenance, and analysis. Bentley Map works with and complements the Bentley® Geospatial Server and Bentley's mobile, Web publishing, and industry applications.



Buffer of proposed buildings showing transparency.



3D city map published to Google Earth.



Thematic map of parcels, buildings and water pipes.

Convergence of GIS and CAD

Bentley has historically been a leader in the computer aided design (CAD) software industry with MicroStation. Bentley Map extends the power of MicroStation to include traditional GIS capabilities. Users can construct highly accurate, seamless geographic representations of all features being modeled and perform further advanced spatial analysis.

Comprehensive Mapping Capabilities for Infrastructure Assets

Bentley Map has unparalleled capabilities for those needing to create and maintain geospatial information as part of the management of infrastructure assets across their lifecycle. Bentley Map allows you to enforce business and topological rules defined by the Geospatial Administrator. The Geospatial Administrator also defines geographic objects, their behaviour, and the GUI. Bentley Map brings the accuracy of CAD and the ease-of-use of GIS together in one environment, and it is fully compatible with all of Bentley's AEC industry applications.

Easy Access to Enterprise Data

Bentley Map facilitates geospatial data integration within the enterprise and extends the value of all types of spatial information. Bentley Map can be implemented with any 2-tier database connection supported by MicroStation, a 2-tier connection to Oracle Spatial or a 3-tier connection to Oracle Spatial or ESRI ArcGIS.

XML Feature Modeling (XFM)

Bentley Map takes full advantage of XML feature modeling. Through the Geospatial Administrator, XFM lets subject matter experts create highly interactive graphic applications without programming and provides for customization by developers in VBA, MDL, and other languages. XFM applications help users maintain standards

by encapsulating them with the feature definition and placement tools, including property-based annotation and symbology.

Topology

Topology can be created 'on-the-fly' or 'on-demand' in Bentley Map. Topological relationships are stored in the DGN file according to the same model used by Oracle Spatial.

Oracle Spatial Editing

Bentley Map can edit data directly in any standard Oracle Spatial environment employing a feature-locking mechanism for multi-user environments. Organizations can also take advantage of Oracle versioning to manage conflicts in an 'extract, edit and post to Oracle Spatial' workflow enabled by the Bentley Geospatial Server.

Spatial Analysis and Presentation

Bentley Map includes a full suite of spatial analysis and presentation capabilities. These include tools for creating buffers around objects, performing topology overlays, creating thematic maps and more. The results of these analytical processes can be plotted, printed, or published to PDF.

High Productivity Output

Bentley Map supports high fidelity output through MicroStation and maps and prints can be published to intelligent PDFs (with 3D images, bookmarks and web links). Map finishing can be taken to the next level using Bentley® CADscript®, which supports WYSIWYG map finishing and the production of print-ready four color separations.

SYSTEM REQUIREMENTS

Processor

Intel Pentium or AMD Athlon

Operating System

Windows Vista, Windows Vista x64, Windows XP Professional, Windows XP Professional x64, Windows XP Home Edition, Windows 2000 Professional, Windows 2000 Server, Windows Server 2003, Windows Server 2003 x64, MicroStation V8 XM Edition

RAM

256MB memory minimum, 512MB recommended

Hard disk

200MB free disk space minimum

ABOUT BENTLEY

Bentley Systems, Incorporated is the global leader dedicated to providing comprehensive software solutions for sustaining infrastructure. Architects, engineers, constructors, and owner-operators are indispensable in improving our world and our quality of life; the company's mission is to improve the performance of their projects and of the assets they design, build, and operate. Bentley sustains the infrastructure professions by helping to leverage information technology, learning, best practices, and global collaboration – and by promoting careers devoted to this crucial work.

For more information, visit www.bentley.com

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BENTLEY MAP AT-A-GLANCE

Mapping and Infrastructure GIS

- Efficient data compilation and editing
- Design, build and publish accurate maps
- Enforce business and topological rules
- Brings CAD accuracy, ease-of-use and efficiency to GIS
- Fully compatible 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
- Full 3D modeling

Map Manager

- An easy-to-learn interface into your spatial data
- Intuitive, easy-to-use, persisted map definitions
- Drag and drop layers to control display order

XML Feature Modeling

- XML metadata-driven GIS
- Extensible
- Enforces user standards
- Easy to implement without programming

Geospatial Administrator

- Manages the XFM framework through one interface
- Runs outside MicroStation
- Defines and maintains XFM project files
- Defines coordinate system and projection information
- User interface definition – dynamically loaded at run-time

Choice of Data Stores

- A two-tier connection to Oracle Spatial
- A 3-tier connection to Oracle Spatial
- A 3-tier connection to ESRI ArcGIS
- Self-contained 'XFM' DGN files
- Any RDBMS/DGN supported by MicroStation

Oracle Spatial Editing

- Fully Oracle Spatial compliant
- Three-tier connection available via the Bentley® Geospatial Server
- Native Oracle Spatial feature and topology models
- Topology model is based on the Oracle 10g topology model
- Topology modes

Topology Maintenance

- Place features like any other XFM features
- Topology graph is maintained while editing
- Use shared editing commands to move common primitives

Spatial Analysis and Presentation

- Spatial analysis
- Thematic display
- Buffer creation

Map Generation and Print Preparation

- Grid and graticule generation
- Marginalia
- Interactively place multi-vi borders
- Publish to intelligent PDF
- Map projection and coordinate conversion
- 5500+ projections including user defined
- Store coordinate systems information with mapping and engineering data
- On-the-fly transformation

Data Cleanup and Integrity Tools

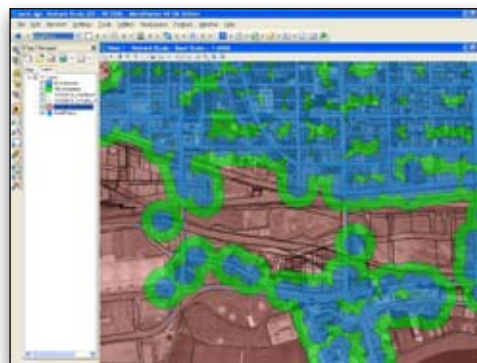
- Solve integrity problems with imported or legacy data
- Easily adopt XFM schema for imported or legacy data through Dynamic Feature Scoring (DFS)

Interoperability

- Direct reference geospatial formats
- MapInfo (TAB, MID/MIF), Shapefiles, Oracle Spatial, CSV and ODBC sources
- Import/Export via an easy-to-use interface

GIS Development Platform

- Subject Matter Experts can customize Bentley Map
 - » Property based symbology and annotation
 - » Criteria
 - » Methods
 - » Operations
 - » Dialogs
 - » Tool frames and tool boxes
 - » Prompts
- Developers can customize Geospatial Administrator and the Standard Placement Library via:
 - » C expressions
 - » XSLT
 - » VBScript
 - » VBA
 - » MDL
 - » .NET API



Fire hydrant study.



3D city map published to PDF.