PRODUCT DATA SHEET

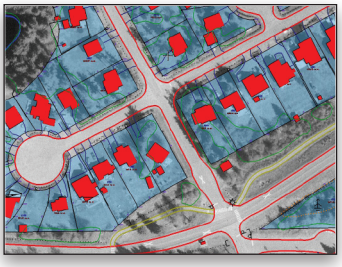
BENTLEY® CADASTRE

THE ULTIMATE DESKTOP GIS FOR CREATING, MAINTAINING AND ANALYZING CADASTRAL DATA

Bentley Cadastre creates, maintains, and analyzes land information. It addresses any type of land management requirement, including parcel management and taxation, agricultural land management, easement and right-of-way maintenance. For parcel or cadastre management, it mirrors real world workflows for data capture and manipulation, resulting in a rigorous, accurate cadastral fabric.

Capitalizes on Bentley Map™

Bentley Cadastre is a truly universal product that can be easily adapted to standards around the world, Bentley Cadastre provides example XML schemas and data in both North American and European formats. Bentley Cadastre includes Bentley Map and takes advantage of the many capabilities it offers. From Bentley Map, Bentley Cadastre receives XML Feature Modeling (XFM), the topology model, the ability to define and enforce business and topological rules in efficient creation and editing workflows, and an extensive range of map presentation and output capabilities. Bentley Map brings CAD accuracy, ease-of-use, and efficiency to GIS, along with all the power of MicroStation®.



Parcel data layered with topography and imagery.

Extensive Sample XML Schemas and Data Sets

Bentley Cadastre includes extensive sample XML schemas for North America and Europe. These schemas are easily customizable using the Geospatial Administrator, which relies on Bentley's XML Feature Modeling (XFM) technology.

Completely Customizable

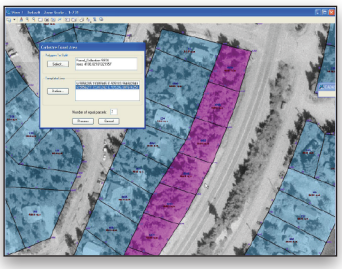
Bentley Cadastre is completely customizable. The user can readily develop custom dialogs in association with custom XFM features. Data integrity is preserved with logical business rules, such as customizable preset domain constraints, to enforce accuracy and dependability.

Logical Business Rules

Bentley Cadastre allows you to define logical business rules that ensure the spatial and legal accuracy of land information. The rules are applied during placement and editing operations in order to maintain data integrity.

Oracle Spatial Editing

Oracle Spatial is fast becoming the standard method for organizations to store and manage large volumes of spatial data. Bentley Cadastre can edit data directly in any standard two-tier Oracle Spatial environment or extract, edit, and post to Oracle Spatial using the Bentley® Geospatial Server in a three-tier architecture.



Splitting a large parcel into 7 equal areas.

Dynamic Topology Editing

With Bentley Cadastre, you can split and merge parcels, modify the cadastral fabric, and develop easements and right-of-ways while topology is dynamically maintained.

Integrated COGO Editor

Move COGO data directly into topology with the integrated COGO Editor. The COGO Editor provides a fast and accurate means of creating parcel data from the boundary descriptions recorded in official documents.

Automatic Attribution and Area Recalculation

With the Bentley Cadastre intuitive tools, one stroke of the cursor can perform several operations including modifying the parcel edges, joining the parcel faces, updating parcel attributes and re-calculating the area and re-annotating the new parcel.

Measurement Tools and Linear Adjustment

Dynamically place points through radial or rectangular measurements from a user defined baseline or produce a list of radial or rectangular "staking" measurements from a collection of graphically placed points as they relate to a user defined baseline. With Linear Adjustment, integrate inaccurate point data into the placement of a linearly adjusted boundary with weighted "confidence" variables applied to the point data.

Equal and Defined Area Split Parcel

With only a couple clicks of the mouse you can split a large parcel into several equal areas and produce the legal descriptions of the resultant parcels. With Bentley Cadastre you can accomplish this in just minutes, eliminating the time-consuming methods of the past.

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

Software prerequisite:
MicroStation V8 XM Edition

Memory:
256MB memory minimum, 512MB recommended

Disk Space:
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

BENTLEY OFFICES

Corporate Headquarters
685 Stockton Drive
Exton, PA 19341 USA
1-800-BENTLEY (1-800-236-8539)
Outside the US +1 610-458-5000

Bentley Systems Europe B.V.
Wegalaan 2
2132 JC Hoofddorp
Netherlands
+31 23 556 0560

Bentley Asia
Unit 1402-06, Tower 1,
China Central Place,
No. 81 Jianguo Road,
Beijing, 100025, China
+86 108 518 5220

BENTLEY CADASTRE AT-A-GLANCE

Extensive Sample XML Schemas and Data Sets
- Example XML schemas and data in both North American and European formats
- Over 1000 customizable features including: Cadastre, topography, base map, guide map, hypsography, and buildings

All the Power of MicroStation and Bentley Map
- Smart, quick drawing and editing of cadastral features in a MicroStation environment
- AccuSnap, AccuDraw®
- Full 3D modeling
- Superior MicroStation printing and publishing
- Workspace management for large projects
- Enforce business and topological rules
- Administration tool to define rules for intelligent features
- Brings CAD accuracy, ease-of-use, and efficiency to GIS
- Fully compatible with Bentley's AEC applications

Your Choice of Data Stores
- A two-tier connection to Oracle Spatial
- A three-tier connection to Oracle Spatial
- A three-tier connection to ArcGIS
- Self-contained XFM DGN files
- Any RDBMS/DGN supported by MicroStation

Oracle Spatial Editing
- Fully Oracle Spatial Compliant
- Two-tier connection
- Directly query, capture, edit and post Oracle Spatial data
- Three-tier connection available via the Oracle Connector
- Adheres to native Oracle Spatial feature and topology models

Workflow Oriented Commands
- Multiple techniques for node placement
- Multiple techniques for boundary placement
- Build / modify / split / merge parcels
- Automatic attribution and area recalculation
- Custom topology validation tools
- Staking measures

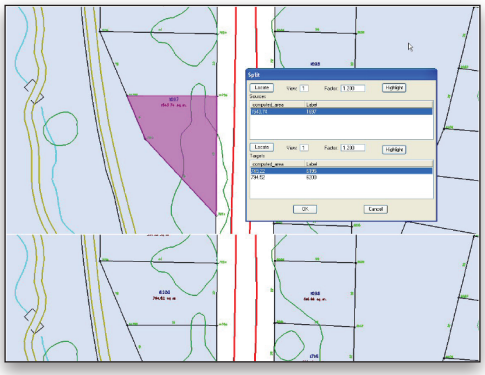
Dynamic Topology
- Split and merge parcels
- Modify cadastral fabric
- Develop easements and right-of-ways
- Topology is dynamically maintained during editing operations

Integrated COGO Editor
- Move COGO data directly into topology with the integrated COGO editor
- Create parcel data from legal descriptions
- Dynamically create topology from boundaries defined by legal descriptions
- On-screen digitizing
- Maintain, modify, and retrieve COGO data
- Precision coordinate geometry (COGO) input

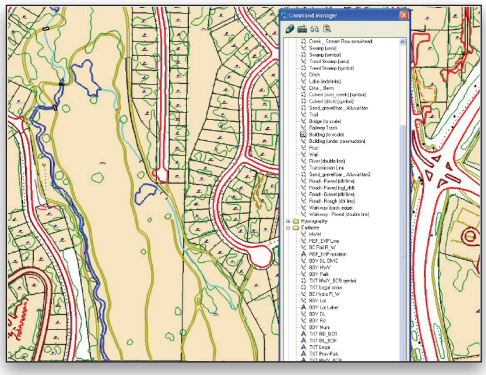
Measurement Tools and Linear Adjustment
- Dynamically place points through radial or rectangular measurements from a user defined baseline
- Radial or rectangular "Staking" measurements from a collection of graphically placed points as they relate to a user defined baseline.
- Integrate inaccurate point data into the placement of a linearly adjusted boundary with weighted "confidence" variables applied to the point data

Completely Customizable
- Data model can be customized to any level of detail
- Geospatial Administrator is used to customize XFM feature properties
- User interface is customizable through custom XFM features
- Data integrity is preserved with logical business rules
- Fully customizable annotation along with attribution constraints
- Property-based attribution, property-based symbology, and reporting via XFM
- Accesses topology model through API

Supports Multiple Formats
- MicroStation DGN format
- Reads and writes directly to DWG format
- Directly accesses SHP and MXD



Dynamic attribution during the parcel splitting process.



Extensive feature model.

Bentley® Sustaining Infrastructure