

BENTLEY® POWERMAP™



A full-function production mapping solution

Built on Bentley® PowerDraft™, Bentley® PowerMap™ is a full-function production mapping solution. Bentley PowerMap complements the expanded capabilities of MicroStation GeoGraphics®, since it is built upon the same technology, shares an identical user interface, and utilizes a common data model. Bentley PowerMap is customizable, making it an ideal platform for third-party geospatial solutions.

Comprehensive Mapping Tools

Bentley PowerMap provides a rich 2D production environment, allowing you to quickly and easily create and edit any type of map. Bentley PowerMap supports feature-based mapping, so you can consistently create and maintain intuitive thematic representations. You can work in DGN or DWG, or import a range of industry-standard file formats. To assist your production workflows, you can view in 3D and leverage a range of network and topological analysis tools.

Database Access

Bentley PowerMap provides read/write access to ODBC-connected databases, further enhancing your mapping environment. You can easily update attribute information while editing graphics. You can also query Oracle® Spatial data to support the use of enterprise data in your mapping workflows.

Superior Imaging

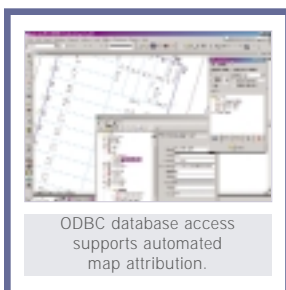
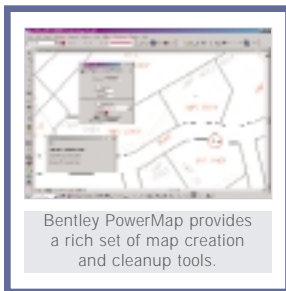
Bentley PowerMap includes high-performance binary and continuous tone raster display for a wide range of standard image formats. Since the imagery is georeferenced as it is displayed, you can overlay engineering design and maps and use the background context to modify a current map or to create a new map.

Projected Coordinate System Management

Bentley PowerMap manages data in standard or customized projected coordinate systems. This capability allows you to combine data of dissimilar projections to conform to their own map projection standards. With automatic projection-on-the-fly capabilities, Bentley PowerMap streamlines the reference data attachment process.

Extensible Platform

Bentley PowerMap supports customization through Visual Basic, MicroStation® Development Language (MDL®), MicroStation BASIC, Scripting, and Topology Macro Language. Advanced Bentley PowerMap development tools are available to Bentley Development Network members.



BENTLEY POWERMAP AT-A-GLANCE



Bentley PowerMap provides high-performance imaging capabilities via Raster Manager integration.



Geospatial querying tools support "what if" and other mapping workflows.

SYSTEM REQUIREMENTS

- Processor: Intel® Pentium®-based or AMD Athlon™-based PC
- Operating System: Microsoft® Windows® 2000, Windows XP Professional, Windows XP Home Edition, Windows Me, Windows NT® 4 (SP6 recommended) or Windows 98 (Second Edition recommended)
- CD drive or access to the Internet required for product installation
- Memory: 256 MB
- Disk Space: 200 MB minimum free disk space
- Input Device: Mouse or digitizing tablet (digitizing tablet requires vendor-supplied WINTAB driver or Bentley's Digitizer Tablet Interface—the latter is included with the MicroStation installation)
- Output device: A host of industry-standard devices are supported. Works with output devices supported by Windows.
- Video: Supported graphics card. Dual screen graphics supported with vendor-supplied drivers for Windows NT 4. Multi-monitor configurations supported with Windows 98 and Windows 2000.

Map Creation and Cleanup

- High-fidelity 2D element add/delete/modify capabilities
- 3D element view capabilities
- Fast, configurable import and export of industry-standard file formats
- Direct DGN file access
- Data cleanup and validation tools for high-fidelity mapping environments
- Automatically find and repair dangles, undershoots, overshoots, linework gaps and more

Network Tools

- Analysis of directed, weighted, linear networks
- Creation and editing of network entities
- Support for shortest path, radial search, trace forward, trace back
- Provides for "what if" scenario analysis

Topological Tools

- Generate clean high-precision data automatically
- Creation and editing of node, line, and polygon topologies
- Polygon-to-polygon overlay
- Point-in-polygon overlay
- Line-in-polygon overlay
- Buffer zone generation

Analysis Tools

- Annotate graphic objects automatically from database attributes
- Generate buffers and zones for analysis
- Measurement tools provide for distance, area, and volume calculations
- Query spatial and ancillary data for selected graphic elements
- Utilize Oracle Spatial data for enhanced enterprise data access

Presentation Tools

- Add grids and legends to mapping data
- Utilize powerful raster tools for image backdrops
- Thematic representation of attributes and graphics
- Supports high-resolution output to printers and plotters

Programmatic Access

- Visual Basic for Applications (VBA) support
- Existing MDL API support
- Topology Macro Language (TML)
- Powerful scripting language for processing, analyzing and reporting

Coordinate Transformation Tools

- Integrated coordinate system toolset
- Predefined coordinate systems included
- Ability to create custom coordinate system definitions
- Automatic reference file transformations
- Configurable coordinate system definition and transformation

Raster Tools

- High performance image display
- Support for industry standard file formats
- Support for MrSID and ECW image compression types
- 24 bit color image depth support
- Automatic positioning of image types supporting georeferencing

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