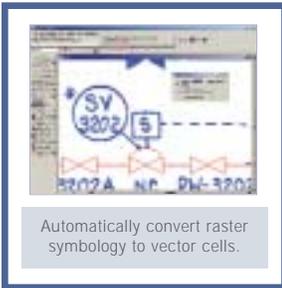


BENTLEY® I/RAS B™

A powerful tool for document conversion and legacy drawing revision and restoration



An essential element in all MicroStation® workflows, Bentley® I/RAS B™ 2004 Edition is the best solution for editing or converting scanned drawings or maps. It supports high-performance raster display and interactive manipulation of scanned graphic content. Work completely in raster, convert to vectors, or work with hybrid raster/vector files. Using Bentley I/RAS B conversion and optical character recognition (OCR) features, you can edit the raster images using a range of flexible and intuitive tools that operate as easily as vector design tools.

Decrease Design Time and Increase Productivity

Used in thousands of organizations around the world for the last decade, Bentley I/RAS B is the proven leader in document editing and conversion. Designed for production efficiency, Bentley I/RAS B enhances any workflow. Superior editing tools, automatic line-following capabilities, and OCR-queued text replacement functionality automate conversion tasks, allowing you to decrease design time and to streamline workflows.



Digitize Drawings Quickly

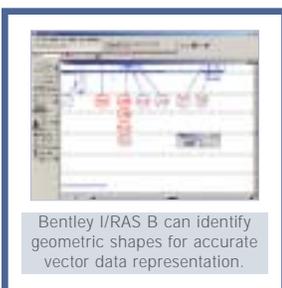
Automate heads-up digitizing by interactively converting raster items such as circles, lines, cells, arcs, polygons, and text to vector elements. With raster snapping, there is no need to zoom in on an image area to confirm a data point placement.

High-performance Display, Editing, and Warping

Bentley I/RAS B handles binary files as compressed data in memory, letting you open, edit, and warp large scanned drawings instantaneously. With Bentley I/RAS B, you can see binary data at any zoom level, letting you work productively down to the pixel level.

Familiar, MicroStation-based Tools

Bentley I/RAS B puts an integrated, user-friendly tool set at your command, built entirely upon MicroStation design tools. You can move, scale, and rotate raster data just as you do design elements.



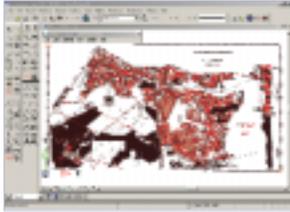
Accelerated Drawing Conversion

Bentley I/RAS B provides a workflow oriented methodology for drawing conversion. Automatic and semi-automatic conversion tools quickly convert linework, symbology, and text to vector entities. With Bentley I/RAS B, your conversion process is streamlined for maximum efficiency.

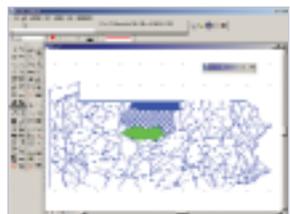
Print and Plot to any Industry-standard Device

Bentley I/RAS B provides built-in support for printing and plotting to Windows®-compatible printers and plotters. Bentley I/RAS B also supports Digital InterPlot™, Bentley's widely used comprehensive plot creation, storage, and distribution solution.

BENTLEY I/RAS B AT-A-GLANCE



Bentley I/RAS B provides automated, semi-automated, and manual raster-to-vector conversion tools to convert any size raster.



Using multiple layers, raster mapping provides presentation-quality results suitable for printing/plotting.

BENTLEY I/RAS B SYSTEM REQUIREMENTS

- Processor: Intel® Pentium®-based or AMD Athlon™-based PC or workstation
- Operating System: Microsoft® Windows® 2000 (SP2 or higher recommended†), Windows XP, Windows NT® 4 (SP6 recommended†), Windows 98 (Second Edition recommended)††, Windows Me
- Prerequisite Application: MicroStation, Bentley PowerDraft®
- Memory: 128 MB (256 MB or more typically results in better performance).
- Hard Disk: 200 MB minimum free disk space
- Input Device: Mouse or digitizing tablet
- Output Device: Most 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, Windows 2000 and Windows XP.

Image Manipulation Tools

- Zoom
- Pan
- Rotate
- Crop
- Scale
- Warp
- Invert
- Multi-layer

Image Conversion Tools

- Smoothing
- Speckle removal
- Merge
- OCR
- Queued text replacement
- Line following (manual, semi-automatic, automatic modes)

Industry-standard Format Support

- RLE (run-length encoded)
- CIT (CCITT group 4)
- TG4 (tiled group 4)
- CRL (color run length)
- T29 (tagged-image file)
- MPF (multi-page file)
- RST (raster save set)

Raster-to-Vector Tools

- Optical character recognition
- Symbology recognition
- Configurable line following tools

Import/Export Format Support

- LRD (ANAtch run-length encoded)
- TIFF (tag image file format)
- GeoTIFF (1-bit)
- Aldus/Microsoft encoding format
- Class B - 1 bit uncompressed
- Class B - CCITT group 3/appendix B
- Class B - CCITT group 4 fax
- Class B - CCITT group 3 fax
- Class B - PackBits
- CALS Type 1 (MIL-R-28002A)
- Image Systems Technology RLC (CAD Overlay ESP)
- Bentley HMR (1-bit)
- Bentley iTIFF (1-bit)

Printing and Plotting

- Support for standard printers and plotters
- Extended capabilities using Digital InterPlot

ABOUT BENTLEY

Bentley Systems, Incorporated provides software for the lifecycle of the world's infrastructure. The company's comprehensive portfolio for the building, plant, civil, and geospatial vertical markets spans architecture, engineering, construction (AEC) and operations. With 2003 revenues reaching \$260 million, Bentley is the leading provider of AEC software to the Engineering News-Record Design 500 and major owner-operators.

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