

# BENTLEY<sup>®</sup> DESCARTES V8i

## FREQUENTLY ASKED QUESTIONS

### 1. IS BENTLEY DESCARTES V8i AVAILABLE NOW?

Yes. Bentley Descartes V8i was made available in October 2008.

### 2. WHAT COLOR RASTER EDITING TOOLS ARE AVAILABLE IN BENTLEY DESCARTES V8i?

Several tools are available for color raster editing. Simple touch-up tools such as; paint, erase, crop, merge, and cleanup can be used on both 2D and 3D oriented images.

### 3. WHAT COLOR RASTER TRANSFORMATION TOOLS ARE AVAILABLE IN BENTLEY DESCARTES V8i?

Local transformation tools support copy, move, scale, rotate, stretch and mirror. External application copy/paste is also supported. Geo-referencing or warping is supported using a variety of transformation methods including; Helmert, Similitude, Affine, Projective, Thin Plate Spline, and Polynomial (2nd/3rd degree).

### 4. HOW DOES BENTLEY DESCARTES V8i WORK WITH 3D RASTER IMAGES?

Within Bentley Descartes V8i, 3D rasters can be interactively attached by defining 3 control points. Editing tools can be used to modify any of the image planes. Most of the editing tools now have an option in V8i, "work in the image plane". This option makes the editing of 3D oriented rasters very intuitive.

### 5. WHAT CONVERSION TOOLS ARE AVAILABLE IN BENTLEY DESCARTES V8i?

Multiple tools are included to merge multiple raster images into a single mosaic. Convert raster to vector and vector to raster. Output geo-referenced images in user-defined coordinate systems and resolutions.

### 6. CAN RASTER IMAGES BE ENHANCED OR "TOUCHED UP" IN BENTLEY DESCARTES V8i?

Yes. Raster filters can be applied to images to improve its usefulness. These filters include; blur, sharpen, smooth, detail, edge enhance, and find edges.

### 7. IS RASTER TO TEXT CONVERSION SUPPORTED IN BENTLEY DESCARTES V8i?

Yes. An optical character recognition (OCR) tool can detect text within an image and generate MicroStation<sup>®</sup> text.

### 8. WHO USES BENTLEY DESCARTES V8i?

Users in a variety of industries leverage the power of Bentley Descartes. The table below lists some of the most common users.

Building	Geospatial	Plant (Process/Power)	Transportation
Engineering Contractor	Mapping Company Electric and/or Gas Utility Federal Cadastral Mapping Agency Other Federal Agency	EPC Firm	Engineering Consultants Municipal Government/Agency Roadway Agency Rail Operations Firm

## 9. CAN BENTLEY DESCARTES V8i OPEN ANY RASTER ATTACHMENTS CREATED BY BENTLEY I/RAS B V8 XM OR EARLIER?

Yes. All raster attachments made with Bentley® I/RAS B are fully supported by Bentley Descartes V8i.

## 10. CAN THE ATTACHMENTS MADE IN BENTLEY DESCARTES V8i BE READ BY BENTLEY I/RAS B?

Yes. All attachments done in any Bentley Descartes version that respect Bentley I/RAS B limitations will be compatible with any version of Bentley I/RAS B. Raster attachments that do not respect Bentley I/RAS B limitations will be handled by Raster Manager in previous versions. For example, the raster must not have rotation, must have square pixels, and must have a binary pixel type.

## 11. CAN I WORK IN A MIXED ENVIRONMENT WHERE I HAVE BENTLEY DESCARTES V8i AND BENTLEY I/RAS B V8 XM WORKING ON THE SAME DESIGN FILE?

Yes. As long as the Bentley Descartes V8i users respect Bentley I/RAS B limitations, both applications will be able to work on the same design file.

## 12. IS THE BENTLEY DESCARTES V8i DISPLAY AND EDITING ENGINE AS FAST AS THE BENTLEY I/RAS B ENGINE?

Yes. Bentley Descartes V8i performance has been improved for all binary operations so it is now as fast as Bentley I/RAS B.

## 13. WHAT ARE THE MAIN FEATURES OF BENTLEY DESCARTES V8i?

There are many features in Bentley Descartes V8i. Here is a short list of the main ones:

- Bentley Descartes V8i is fully compliant with MicroStation V8i
- User interface is completely integrated with Raster Manager®
- Support of any pixel type. You will be able to attach binary raster, 8 bit raster, 24 bit raster, etc.
- Raster images can be displayed with rotation, affinity or in a rotated view
- Support for raster images with rectangular pixels
- Support of three display planes: Background, Foreground and Design. Rasters attached to the new design plane can be interleaved with vector elements
- Bentley Descartes V8i fully supports 3D attachments
- Raster images can be attached to a reference model
- Different model per view is supported
- Bentley Descartes V8i is completely ProjectWise® compliant
- Raster attachments are treated as MicroStation elements. Therefore, it is possible to:
  - » Select rasters using the MicroStation selection tool
  - » Edit (move, rotate, scale, etc) raster attachment and vector elements in the same operation using MicroStation tools
  - » “Element Info” dialog displays raster information for selected rasters
  - » Undo/redo support, for raster editing operations, is handled by the MicroStation undo operation
  - » Rasters can be detached using the MicroStation delete tool or the keyboard delete key

## 14. CAN I USE BENTLEY I/RAS B KEY-INS WITH BENTLEY DESCARTES V8i?

No. Bentley I/RAS B key-ins cannot be called from Bentley Descartes V8i. However, a table is available in the next Bentley Descartes SELECT® update documentation. This table will allow Bentley I/RAS B users to determine how to initiate the corresponding Bentley Descartes key-ins.

**15. AM I REQUIRED TO MOVE FROM BENTLEY I/RAS B TO BENTLEY DESCARTES V8i?**

No. However, Bentley believes there are compelling advantages to leveraging the latest technology included in MicroStation and Bentley Descartes V8i. Bentley I/RAS B V8 XM users can continue to use existing seats. No future versions of Bentley I/RAS B are currently planned.

**16. IS THERE ANY TRAINING AVAILABLE TO HELP ME MIGRATE FROM BENTLEY I/RAS B TO BENTLEY DESCARTES V8i?**

Yes. Bentley has developed a hands-on training document with exercises available on the Bentley Learn® Server. The training is titled "Transitioning from I/RAS B to Bentley Descartes Fundamentals V8i". Additional product training for Bentley Descartes V8i is available on the Bentley Learn Server called "Bentley Descartes Fundamentals V8i".

**17. WHERE CAN I FIND ADDITIONAL INFORMATION ABOUT BENTLEY DESCARTES V8i?**

Please visit [www.bentley.com](http://www.bentley.com) for additional information on all of Bentley's products. For specific information about Bentley Descartes V8i, visit [www.bentley.com/en-US/products/Bentley+Descartes](http://www.bentley.com/en-US/products/Bentley+Descartes).

