

## What's new in MicroStation® V8i

Bentley® SELECT® subscribers who haven't upgraded to MicroStation V8i, can save time, improve design quality, and achieve a better return on investment by upgrading to V8i (SELECTseries 2). SELECTseries updates and upgrades are available to SELECT subscribers at no additional cost; users can download the latest version of MicroStation at the Bentley SELECTservices website at any time. And because the DGN file format has remained the same throughout the V8 generation, upgrading is easy and painless.

The summary illustrates the value that can be realized by adopting MicroStation V8i (SELECTseries 2). If you're using a much older version of MicroStation, there's even more value in upgrading now.

### MicroStation V8i

- Detailing symbol styles
- Change reference presentation
- Dialog docking
- Reference activation
- Reference view flags
- Save as image with display styles
- Selection overlap mode-right to left
- View different models
- Unique ACS per view
- Conceptual and 3D design tools
- GenerativeComponents® Extension
- Unified workflow - 3D modeling
- Edit solids by vertex, edge and face
- Dynamic views - annotation/detailing
- Dynamic views - linked sections
- Dynamic views - 3D visualization
- Display styles
- Luxology
  - » Physically correct materials
  - » Light manager
  - » Render setups
  - » Distributed rendering
- Detailing symbol styles
- Export OBJ format
- iTiff64
- Attach raster from web map servers
- Integrated print organizer
- Multisheet, hierarchical PDFs
- Print styles
- Geospatial coordinate system
- Support for GPS devices
- Edit reference from within model
- Drape raster images

### MicroStation V8i (SELECTseries 1)

- Pin and roll tabs
- Dynamic views - drawing model
- Dynamic views - drawing automation
- Luxology
  - » Camera speed control
  - » Animation tone mapping
  - » Luxology fully integrated
- Audit tools
- RealDWG 2009
- Autodesk object enabler support
- Import Rhino 3DM
- Raster reference geospatial PDFs
- Reference SHP/MIF/MID/TAB
- Reference ESRI SHP
- 3D printing support
- Design links support PDF publishing
- Publish measurable PDFs
- Automated drawing composition
- Manage markups
- i-model publishing
- Approve or reject comments
- Overlay markup files
- Publish geospatial PDF
- Item browser dialog

### MicroStation V8i (SELECTseries 2)

- Trim/extend tools
- Support for clash resolution
- Luxology
  - » New render output channels
  - » User interface optimization
  - » Animation improvements
- Integrated point cloud support
- Autodesk RealDWG 2010 libraries
- Autodesk FBX
- Schedule simulation support
- Citrix Ready
- Update installs
- DGN IFilter - search text in DGNs
- Define placemark monuments

## Incremental Capabilities by Version Throughout the Complete V8 Generation

	Design productivity	3D design modeling	Visualization/animation	CAD standards management	Interoperability support	Printing and plotting	Platform enhancements
<b>V8i (SELECTseries 2)</b>	Trim/extend tools	Support for clash resolution	Luxology - <ul style="list-style-type: none"> <li>New render output channels</li> <li>User interface optimization</li> <li>Animation improvements</li> </ul>		<ul style="list-style-type: none"> <li>Integrated point cloud support</li> <li>Autodesk RealDWG 2010 libraries</li> <li>Autodesk FBX</li> <li>Schedule simulation support</li> </ul>		<ul style="list-style-type: none"> <li>Citrix Ready</li> <li>Update installs</li> <li>DGN IFilter - search text in DGNs</li> <li>Define placemark monuments</li> </ul>
<b>V8i (SELECTseries1)</b>	Pin and roll tabs	<ul style="list-style-type: none"> <li>Dynamic views - drawing model</li> <li>Dynamic views - drawing automation</li> </ul>	Luxology - <ul style="list-style-type: none"> <li>Camera speed control</li> <li>Animation tone mapping</li> <li>Luxology fully integrated</li> </ul>	Audit tools	<ul style="list-style-type: none"> <li>RealDWG 2009</li> <li>Autodesk object enabler support</li> <li>Import Rhino 3DM</li> <li>Raster reference geospatial PDFs</li> <li>Reference SHP/MIF/MID/TAB</li> <li>Reference ESRI SHP</li> </ul>	<ul style="list-style-type: none"> <li>3D printing support</li> <li>Design links support PDF publishing</li> <li>Publish measurable PDFs</li> <li>Automated drawing composition</li> </ul>	<ul style="list-style-type: none"> <li>Manage markups</li> <li>i-model publishing</li> <li>Approve or reject comments</li> <li>Overlay markup files</li> <li>Publish geospatial PDF</li> <li>Item browser dialog</li> </ul>
<b>V8i</b>	<ul style="list-style-type: none"> <li>Detailing symbol styles</li> <li>Change reference presentation</li> <li>Dialog docking</li> <li>Reference activation</li> <li>Reference view flags</li> <li>Save as image with display styles</li> <li>Selection overlap mode-right to left</li> <li>View different models</li> <li>Unique ACS per view</li> </ul>	<ul style="list-style-type: none"> <li>Conceptual and 3D design tools</li> <li>GenerativeComponents Extension</li> <li>Unified workflow - 3D modeling</li> <li>Edit solids by vertex, edge and face</li> <li>Dynamic views - annotation/detailing</li> <li>Dynamic views - linked sections</li> <li>Dynamic views - 3D visualization</li> <li>Display styles</li> </ul>	Luxology - <ul style="list-style-type: none"> <li>Physically correct materials</li> <li>Light manager</li> <li>Render setups</li> <li>Distributed rendering</li> </ul>	Detailing symbol styles	<ul style="list-style-type: none"> <li>Export OBJ format</li> <li>iTiff64</li> <li>Attach raster from web map servers</li> </ul>	<ul style="list-style-type: none"> <li>Integrated print organizer</li> <li>Multisheet, hierarchical PDFs</li> <li>Print styles</li> </ul>	<ul style="list-style-type: none"> <li>Geospatial coordinate system</li> <li>Support for GPS devices</li> <li>Edit reference from within model</li> <li>Drape raster images</li> </ul>
<b>V8 XM Edition</b>	<ul style="list-style-type: none"> <li>Project explorer</li> <li>Positional keyboard mapping</li> <li>On-the-fly links</li> <li>Snapmode as preference</li> <li>ALT+DATA to match settings</li> <li>New color books</li> <li>Drag and drop to attribute pickers</li> <li>Right click context menu</li> <li>Raster references as elements</li> <li>Remap elements in level manager</li> <li>Eye dropper</li> <li>Named groups for references</li> <li>Quick info</li> <li>Transparent dialog boxes</li> <li>Task-based user interface</li> <li>Link sets</li> </ul>	Mesh modeling	<ul style="list-style-type: none"> <li>RPC enhancements</li> <li>Time-based animations</li> <li>Render by fence</li> <li>Export global lighting solutions to DGN</li> <li>Animation producer</li> <li>Velocity graphs for animation</li> </ul>	Element templates	<ul style="list-style-type: none"> <li>2007/2008 DWG</li> <li>Google 3D Warehouse (SKP)</li> <li>3D Studio .3DS</li> </ul>	<ul style="list-style-type: none"> <li>Pen table transparency/element priority</li> <li>Rasterize printing enhancements</li> <li>Non-orthogonal plot rotation</li> <li>Plot mirroring</li> </ul>	<ul style="list-style-type: none"> <li>Trust licensing support</li> <li>ProjectWise StartPoint®</li> <li>2048-bit public/private keys</li> <li>DirectX-based display</li> <li>Object transparency</li> <li>Display priority</li> <li>Dockable tool settings/dialog boxes</li> <li>Navigate view control</li> <li>Silent install via SMS</li> </ul>
<b>V8 2004 Edition</b>	<ul style="list-style-type: none"> <li>Multisnaps</li> <li>Edit text in cells</li> <li>Element selection tabs</li> </ul>	Feature modeling	Support for RPC content	Standards checker	<ul style="list-style-type: none"> <li>Autodesk ADT objects</li> <li>2004/2005/ 2006 DWG</li> <li>3D in PDF</li> <li>Export to U3D</li> </ul>	Print to 2D and 3D PDF	<ul style="list-style-type: none"> <li>Oracle 9i and 10g support</li> <li>Reference hierarchy tree</li> </ul>
<b>V8.1</b>	<ul style="list-style-type: none"> <li>Quicksets</li> <li>Named groups</li> <li>Display sets</li> </ul>		Piranesi EPix format support				<ul style="list-style-type: none"> <li>Connect to OLE DB data source</li> <li>Live nesting of raster references</li> </ul>
<b>V8</b>	<ul style="list-style-type: none"> <li>AccuSnap</li> <li>PowerSelector</li> <li>Unlimited undo</li> <li>Design history</li> <li>PopSet</li> </ul>	<ul style="list-style-type: none"> <li>3D in 2D</li> <li>Shell, thicken and modify faces</li> <li>Extrude along path</li> <li>Construct facet</li> </ul>	Particle tracing	<ul style="list-style-type: none"> <li>Unlimited levels</li> <li>DGN/cell size</li> <li>Engineering links</li> <li>Standard definition working units</li> <li>Text and dimension styles</li> </ul>	<ul style="list-style-type: none"> <li>Read/write DWG without translation</li> <li>Support for MrSID format</li> <li>TrueScale</li> <li>TrueType and SHX font support</li> <li>Workmodes</li> </ul>		<ul style="list-style-type: none"> <li>Compressed files</li> <li>Digital signatures</li> <li>Digital rights</li> <li>DGN file preview</li> <li>Multiple design/sheet models in DGN</li> <li>Live nested references</li> <li>Unlimited references</li> <li>Remapping</li> </ul>