



Terrasolid training event

Levi, Finland

15.2.2010



Agenda

- Copy the files to your disk
 - License Terra 010-licenses
 - Setup Terra 010-applications
 - Thursday morning
 - Buildings Training dataset
 - MicroStation MicroStation V8i
 - Pbda... Pre-requisite pack

Installation

- First install the pre-requisite pack
 - Pbda08110703en
- Next install MicroStation V8i to its own folder
 - MicroStation_08.11.07.171
- Next install Terra 010-applications to their own folder terra010
 - Setup
- Next copy Terra-licenses to terra010\license
 - license

MicroStation V8i licensing

- Bentley has changed to "trust licensing"
- MicroStation will run 30 days if not activated
- Your current Select Server can be directly used

V8 to XM

- Windows file selection dialog boxes
- Windows XP-style tool icons
- View windows
- Transparent dialog boxes
- Dockable dialog boxes
- Input focus model
- Key-in window access
- Positional keyboard navigation
- 3D PDF content
- PopSet enhancements
- Button assignments
- Fence enhancements
- Element Selection tool
- Task-based user interface
- Screen menus
- Working units settings
- Redlining support
- Help enhancements
- Licensing changes

XM to V8i

- Application Window Layout Changes
- Menu Changes
- 3D Modeling Enhancements
- AutoCAD Interoperability
- Auxiliary Coordinate Systems (ACS) Enhancements
- Change Attributes Enhancements
- Color Enhancements
- Detailing Symbols Enhancements
- Dynamic Views
- Format Interchange Enhancements
- Geographic Coordinate System Support
- Global Origin Enhancements
- Global Positioning System Device Support
- Graphics Display Enhancements
- Levels Enhancements
- Models Enhancements
- Named Expressions
- Printing Enhancements
- Project Explorer and Link Set Enhancements
- Raster Manager Enhancements
- References Enhancements
- Selection Enhancements
- Sheet Composition Enhancements
- Task Navigation Enhancements
- Text Enhancements
- User Interface Enhancements
- User Preferences Enhancements
- Views Enhancements
- Visualization Enhancements

Intrinsic Geo-Coordination:

- ESRI SHP file referencing to enhance data richness and reuse.
- Geospatial PDF leverages geo-intelligence to enrich deliverables.
- AEC coordinate transformation to align multi-discipline data.
- OGC Web Map Server support to streamline map import.
- GPS device integration to capture and transform GPS data
- Geospatial referencing to improve information coordination.

Geo-Coordination Overview

- MicroStation allows the user to position a design on the earth's surface
- Takes into account the curvature of the earth with little or no user input
- MicroStation can use a Cartesian coordinate system such as State Plane
- Information from multiple sources can be spatially located using a common coordinate system
- The re-projection can be done on-the-fly when referencing data

Google Earth Tools XM/V8i

- MicroStation is able to produce KML files to be utilized in Google Earth.
- Placement by placemarks.
- Placement by GCS.
- Viewing data in Google Earth.
- DGN, DWG and other content.
- Reference, and Level control.
- Transparency.
- Links.
- Raster.
- Google Earth v4 / KML 2.1 Support.
- Capture Image and Terrain.
- Control Animation.

GPS Tools

- Track GPS units
- Show current location of GPS unit
- Record GPS tracks without a live MicroStation session
- A geographic coordinate system must be defined to use these tools
- MicroStation V8i allows users to connect to GPS units
 - NMEA-Compatible
 - Garmin USB

In The Scan

Bentley Licenses Pointools' Vortex API

Posted: 14 Oct 2009 04:53 AM PDT

- 1. Finally a BIG story to report on.**
- 2. This is a tremendous boost to the Pointools technology and business.**
- 3. In the end this will be all about integration – how much and how fast.**

Finally, some really big news to report. Things have been quiet from the major vendors for some time, but this announcement has the potential to have a significant impact on on the 3D infrastructure marketplace. Interesting – a quick check of both companies' websites did not find a mention of the announcement.

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In The Scan

Autodesk Announces Support for Point Clouds

Posted: 22 Oct 2009 05:22 PM PDT

1. Autodesk just announced the release of their point cloud feature.
2. It will only be available to Map 3D and Civil 3D customers via the subscription center.
3. Now that Autodesk is in the game it will be interesting to track how this progresses.

For the second week in a row there is **BIG** news from a CAD vendor. On Wednesday Autodesk announced the long expected release of their support for point clouds. Initially the point cloud feature is being offered to Map 3D and Civil 3D subscription customers only as a free download from the online subscription center. This is the first support for point clouds inside AutoCAD.

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