



Bentley OpenUtilities Designer V8i (SELECTseries 4)

Elevate Your Engineering Efficiency

Design and manage your electric, gas, water, wastewater, or district energy network with Bentley OpenUtilities Designer. Speed design with precise MicroStation®-based layout tools that integrate with common GIS systems. Lower project costs with on-the-fly cost estimation that lets designers quickly refine designs. Avoid delays with built-in workflow management to assign, track, and manage work. Lower total software costs with an embedded full-featured utilities GIS to maintain your network models and maps.

Accelerate Layout with Engineering-precision Design Tools

Speed brownfield and greenfield layout with smart tools that produce precise high-quality designs. Leverage intelligent MicroStation-based design tools from within the built-in Bentley Map®-based design editor or through integration with your enterprise GIS. Save time with smart drag-and-drop placement and editing from an interactive catalog of intelligent GIS features and compatible units supported by configurable business rules and standards. Achieve the quality you demand without the drawing inefficiency of traditional GIS-based applications.

Refine Designs Quickly with On-the-fly Cost Estimation

Get real-time cost feedback on each design decision through dynamic cost estimates. Create detailed cost breakdowns of labor, materials, and equipment at each work location and for the entire design. Compare costs of alternatives to find the least-cost compliant design. Eliminate time-consuming cycles in your enterprise work management system (WMS) by ensuring designs are submitted within budget the first time.

Speed Workflows with Integrated Design Management

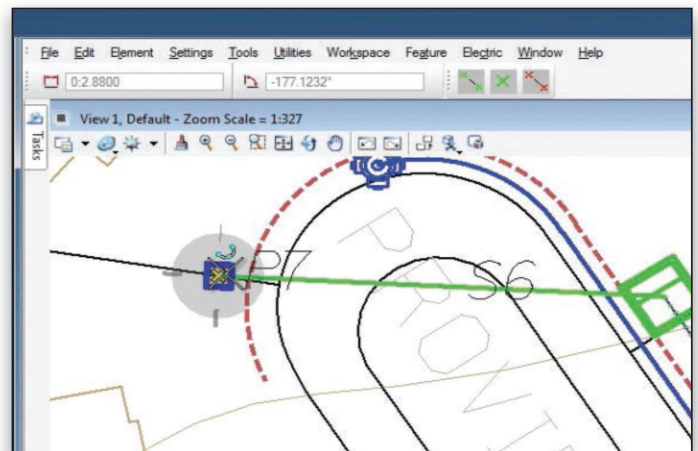
Avoid project delays with an embedded and configurable workflow engine. Create, assign, manage, and approve work orders in stand-alone mode or through a two-way standard message-based connection to your WMS. Define dashboards and reports to help managers track project status and progress. Eliminate open-loop processes with status notifications, approval requests, and e-mail integration.

Eliminate Rework with Construction-quality Prints

Publish high-quality construction documentation directly from the design environment, avoiding the need to redraw designs in a separate CAD application. Ensure compliance with your construction print standards with support for a variety of paper sizes, printers, and plotters, as well as configurable plotting templates that include imagery, legends, north arrows, plotting to scale, and interactively defined grids and graticules.

Improve Operations with Network Analysis and Visualization

Create buffers, overlays, joins, thematic maps, dynamic labels, reports, and queries. Perform radial, upstream/downstream, shortest/multiple/redundant path



MicroStation-based tools including AccuDraw and AccuSnap speed layout.

traces for flow, conduit, and cathodic protection networks. Analyze and report on leaks for an area or the entire network.

Lower Deployment Cost with Pre-configured Data Models

Tailor out-of-the-box commodity-specific data models using simple meta data-based tools to create and manage data structures. Define compatible units with material and labor costs by job type and service region. Define design, symbology, and compatible unit rules to match your company standards. Reduce training, deployment, maintenance, and enterprise integration costs with one application for all commodities.

Promote Data Reuse and Integrity with Support for Leading Spatial Databases

Manage large volumes of 2D and 3D spatial data with direct query from and write to standard Oracle Spatial or Microsoft SQL Server Spatial databases. Share network data across your enterprise and integrate with other operational systems using native formats. Create new projects, study future projects, and consider alternatives while preserving data integrity with short and long transactions as well as multi-user editing.

Empower Field Staff with Bentley Map Mobile Support

Enable your field staff to work more productively and make better-informed decisions by publishing your utility GIS data to the Bentley Map Mobile app. Use the Bentley Map Mobile Publisher application to define and publish an indexed i-model viewable on tablet devices.

System Requirements

Processor

Intel® or AMD® processor
3.0 GHz or greater

Operating System

Bentley OpenUtilities V8i (SELECT-series 4) supports Windows 7, Windows 8, and Windows 8.1. (32-bit and 64-bit versions.)

Memory

2 GB of RAM minimum,
4 GB or more recommended

Disk Space

2 GB free disk space minimum

Graphics Card

DirectX 9.0c supported

**Find out about Bentley
at: www.bentley.com**

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Bentley OpenUtilities Designer At-A-Glance

Time-saving Layout and Editing Tools

- Catalog-driven design editing
- Automatic, business-rule-driven editing
- Design templates based on past projects
- User-configurable modification of layout and editing tools

Dynamic, Real-time Cost Estimates

- Automatic compatible unit assignment
- Instant detailed cost breakdowns
- Comprehensive unit data support
- Compatible unit data from external system
- Configurable compatible units and macro units

Integrated Work Management

- Work request and design management
- Configurable support for complex business workflows
- User-specific work status including pending and past-due
- Tracking of project status, duration, and schedule
- Automatic updates of spatial databases and WMS
- Configurable dashboards for managers and executives

Intelligent Industry Standard Data Models

- Electric distribution
- Gas distribution
- Water distribution
- Wastewater
- Support for data model adaptation and modification
- Support for data model creation from scratch

All the Power of MicroStation

- Smart, quick drawing, and editing of utility network data
- Raster management
- AccuSnap and AccuDraw placement and editing
- Display priority and transparency

All the Power of Bentley Map

- XML feature modeling
- Geospatial Administrator
- Map Manager
- Geographic coordinate systems tools
- GIS interoperability tools
- Integration with Safe Software's FME
- File and spatial database persistence
- Support for Bentley Map Mobile Publisher

GIS Analysis

- Buffer creation
- Overlay creation
- Joins
- Thematic Resymbolization
- Dynamic Labeling
- Data Browser (Reporting)
- Query Builder (Search By)

Network Tracing and Reporting

- Flow, conduit, cathodic protection networks traces
- Radial, upstream/downstream, shortest/multiple/redundant path traces
- Individual, composite, or cumulative trace reports
- Pre-defined or user defined stop criteria
- Network trace API

Outage Planner

- Identify dead-ends beyond isolation traces
- Manage planned outage due to maintenance

- Manage unplanned outages
- Identify customers to impacted areas
- Integrate with workflow management

Leak Analysis and Reporting

- Leak feature association (individually or in bulk)
- Leak reports by area or entire network
- Cross-tabular reports on pipe size, material, and time
- Export of individual or aggregated results to Map Manager

Profile Creation

- Profile path definition by trace
- Addition/Removal of features for profile creation
- Individual profile definitions storage for re-use
- Fully configurable using Profile Editor

Utility Layout and Edit Tools

- Inference Assisted Placement
- Editor tool to modify properties
- Editor tool to modify network relations
- Smart Move utility network features
- Smart Modify utility network features
- Split/Merge utility network features
- Connect/Disconnect from flow network
- Attach/Detach from structural network

Oracle Spatial Editing

- Fully Oracle Spatial compliant
- Two- or three-tier connection
- Long and short transaction support for safe multi-user editing
- Adherence to native Oracle Spatial feature and topology models

SQL Server Spatial Editing

- Fully SQL Server Spatial compliant
- Two-tier connection for safe multi-user editing
- Short transaction support for safe multi-user editing
- Adherence to native SQL Server Spatial feature models

Utility Interoperability (Import/Export)

- Integration with WaterCAD®/WaterGEMS®/HAMMER®
- Export to EPANET
- Integration with SewerCAD®/SewerGEMS®
- Integration with sisHYD multi-utility
- Import MACP survey
- Import PACP survey

Enterprise Application Integration

- Configurable integration with a variety of external GIS
- Configurable integration with external WMS or ERP systems
- Preconfigured integration with ProjectWise® for efficient engineering content management

Construction-quality Prints

- WYSIWYG plot generation with user-defined templates and legends
- Publishing to intelligent PDF, PostScript, and other output formats

Fully Configurable and Customizable

- Model Administrator and Data Loader configuration tools
- .NET language customization, including VBA