PRODUCT DATA SHEET

Bentley
Advancing Infrastructure


Image courtesy of Águas do Porto

OpenFlows™ SewerOPS™ CONNECT Edition

Operational Decision Support Software for Wastewater Conveyance

OpenFlows SewerOPS is a complete predictive solution for wastewater collection network optioneering decision support. The application provides utilities with key advancements for operating a safe and sustainable wastewater collection system. OpenFlows SewerOPS enables engineers and operators to quickly predict the effects of various events such as high flows, blockages, and power outages to determine the best response with an easy-to-use user interface.

The CONNECT Edition

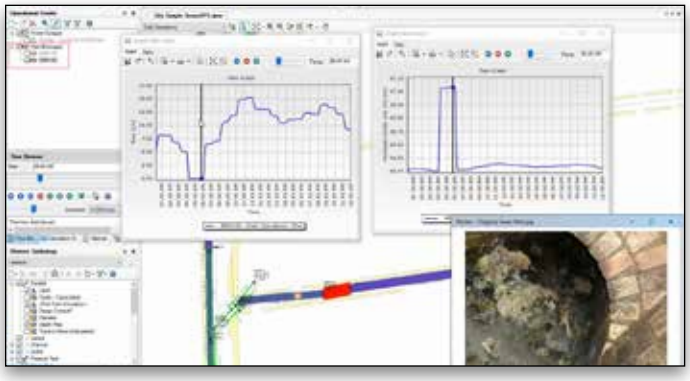
The SELECT® CONNECT Edition includes SELECT CONNECT*services*, new Azure-based services that provide comprehensive learning, mobility, and collaboration benefits to every Bentley application subscriber. Adaptive Learning Services helps users master the use of Bentley applications through CONNECT Advisor, a new in-application service that provides contextual and personalized learning. Personal Mobility Services provides unlimited access to Bentley apps, ensuring users have access to the right project information when and where they need it. ProjectWise® Connection Services allows users to securely share application and project information, to manage and resolve issues, and to create, send, and receive transmittals, submittals, and RFIs.

Effectively Monitor and Forecast with Live SCADA Data

Utilizing live SCADA data, OpenFlows SewerOPS provides you with operational conditions throughout your wastewater networks using existing conditions and predicted future conditions. Moreover, you can instantaneously run what-if scenarios that incorporate energy consumption, weather, SCADA telemetry, load history, predictions, and pipe and pump control scenarios.

A fully optimized interface in OpenFlows SewerOPS allows you to get a full map view of all your wastewater infrastructure, including color coding and alerts for problem areas and graphs that illustrate network elements hydraulic performance. The interface also includes evaluations for water quality, low-impact development controls, pond performance, and pump energy costs, as well as one-click reports for other various wastewater assets.

With Bentley's connected data environment, users can react faster to important tasks or day-to-day activities and then communicate results with the greater project network. The connected data environment provides open and live access to information within digital engineering models so that engineering technologies can be brought together with information technologies and operational technologies to improve the throughput, safety, and infrastructure asset reliability.



OpenFlows SewerOPS allows you to simulate sewer line blockages and evaluate their upstream impact.

Make Decisions Quickly with Accurate Simulations

In addition to improving efficiency, OpenFlows SewerOPS delivers key user interface enhancements that boost system performance. These capabilities include enhanced menus, toolbars, and workspaces that allow operators to launch multiple simulation runs, even while other users are reviewing or editing. The software enables users to model, monitor, and forecast effectively.

OpenFlows SewerOPS supports wastewater digital twins.

System Requirements

Platform Pre-requirements
OpenFlows WaterOPS runs without platform restrictions as a stand-alone application

Processor
As per minimum operating system requirements

Operating System
Microsoft Windows 10, Windows 10 x 64, Windows 8, Windows 8 x 64 Windows 7, Windows 7 x 64

Note: Windows 7 operating system is supported only with its service pack (SPI) installed

Memory
8 GB minimum, 16 GB recommended

Disk Space
1.8 GB of disk space for installation (additional space required for user model and data files)

Find out about Bentley at: www.bentley.com

Contact Bentley
1-800-BENTLEY (1-800-236-8539)
Outside the US +1 610-458-5000

Global Office Listings
www.bentley.com/contact

OpenFlows SewerOPS At-A-Glance

Interoperability and Graphical Interface

- Feature-rich, stand-alone environment
- Unlimited undo and redo
- Aerial view and dynamic zooming
- Named views library

Hydraulics and Operations

- Explicit dynamic engine included (EPA-SWMM)
- Evaporation definition
- Aquifer simulation
- Control structures (weirs, orifices, depth-flow curve)
- Pollution analysis with optional definition of land use categories and land surface characteristics
- SCADA element
- Low-impact development control analysis
- Hydrogen sulfide formation modeling
- Import of pump controls using historical SCADA data
- Emergency response simulations for power outages and pipe blockages
- Real-time and forecasted rainfall condition simulations
- Online forecasted rainfall data (NOAA - for US only)

Comprehensive What-if Scenarios

- Simulate emergency planning without disturbing the system
- Forecast network hydraulics performance by time or date
- Estimate hydraulic changes in the event of network blockage
- Calculate existing or future surcharged conditions
- Color-code and map water depth at every point in the system, at any time
- Predict customer impact

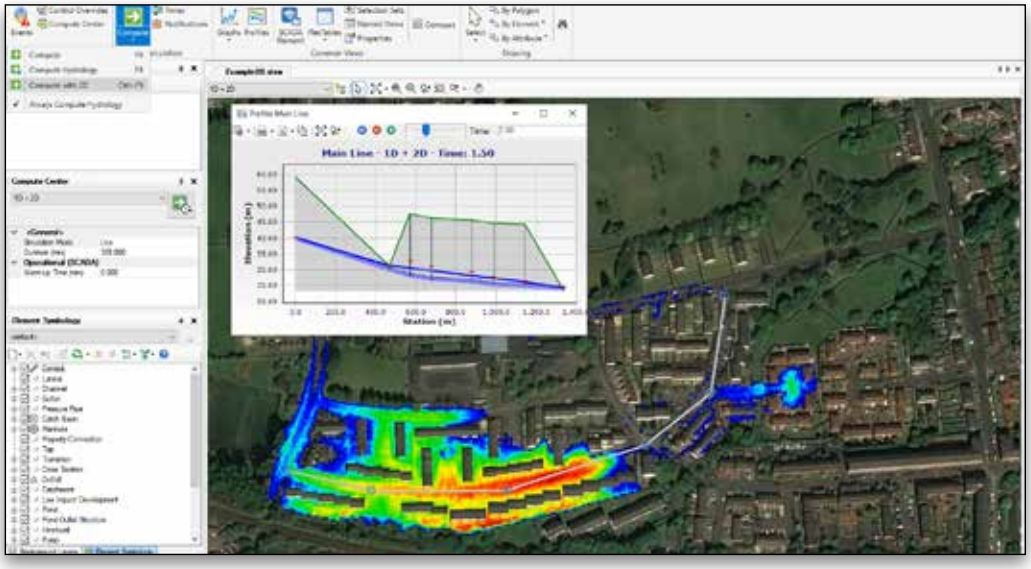
Results Presentation

- Display results as tables, graphs, contours, annotations, profiles, and color coding with background maps
- Compare scenarios and elements
- Conduct advanced tabular reporting with FlexTables
- Record videos of result animation
- Develop customizable reports
- Display OpenFlows FLOOD results*

Energy Management

- Analyze energy costs
- Evaluate pump energy analyses

**Analysis of 2D overland flow requires a 2D hydraulic model built on OpenFlows FLOOD*



OpenFlows SewerOPS can help you identify flood risk areas by displaying 2D flooding results from OpenFlows FLOOD.

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