



OpenFlows[™] Water Comparison Checklist

	OpenFlows Water Ultimate	OpenFlows Water Advanced	OpenFlows Water Standard	OpenFlows Water Essentials
Sizing	Unlimited Pipes	≤5,000 pipes	≤1,000 pipes	≤100 pipes
Interoperability				
Run OpenFlows Water within AutoCAD*, MicroStation**, or a stand-alone interface	•	•	•	•
Run OpenFlows Water (WaterGEMS** application only) within ArcGIS* and ArcGIS Pro*	•	•		
Model Building and Connection				
Develop and assign demands from GIS shapefile data (customer meters, land use, population, or metered areas)	•	•	•	•
Build models and/or assign demands using data from CAD, GIS shapefiles, spreadsheets, Oracle Spatial, and other databases	•	•	•	•
Node elevation assignment from digital terrain data in Bentley DTM, DXF, LandXML, and shapefile formats	•	•	•	•
Assign unaccounted-for water demands using the unit line method	•	•	•	•
Build models from geodatabases or ArcGIS Online data sources	•	•		
Automated model skeletonization through Skelebrator*	•	•		
Real-time modeling through SCADAConnect* Simulator	•	•		
Connect to SCADA data to initialize model run from current or historic element status or compare actual and modeled values	•	•	≤25 signals	≤25 signals
Model Building and Connection				
Comprehensive, unlimited scenario management	•	•	•	•
Query-based active topology	•	•	•	•
Custom engineering libraries	•	•	•	•
Dynamic and static selection sets	•	•	•	•
Orphaned nodes and dead-end pipe queries	•	•	•	•

*License Required



Hydraulics, Operations, and Water Quality	OpenFlows Water Ultimate	OpenFlows Water Advanced	OpenFlows Water Standard	OpenFlows Water Essentials
Run hydraulic analysis for steady-state and extended-period simulations	•	•	•	•
Automated fire flow analysis	•			•
Water quality analysis (age, constituent, trace, and MSX)	•	•		•
Pressure zone identification and flow balance calculation	•			•
Pump energy cost analysis	•	♦	♦	•
Conventional and unidirectional flushing analysis	•	♦		•
Criticality assessment for pipe/segment shutdown and valve isolation studies	•	♦	•	•
Results Presentation				
Thematic mapping with property-based color coding, symbology, and annotations	•	•	•	•
Scenario and element comparison	•	♦	♦	•
Optimization				
Pipe vulnerability rating through Pipe Renewal Planner	•	•		
Al-powered model calibration using genetic algorithms	•	•		
Al-powered pipe sizing using genetic algorithms	•	•		
Al-powered pump schedule optimization using genetic algorithms	•	•		
Orphaned nodes and dead-end pipe queries	•	•		
Transient Simulation and Analysis				
Transient analysis using method of characteristics	•	•		
Extended period simulation	•	•	♦	
Periodic head/flow	•	•	•	
Surge protection devices	•	•	•	
Wave speed calculator	•	•	•	

FIND OUT MORE AT BENTLEY.COM

Bentley[®]

Advancing Infrastructure

1.800.BENTLEY (1.800.236.8539) | Outside the US +1.610.458.5000 | GLOBAL OFFICE LISTINGS bentley.com/contact

© 2024 Bentley Systems, Incorporated. Bentley, the Bentley logo, MicroStation, OpenFlows, OpenFlows Water, SCADAConnect, Skelebrator, and WaterGEMS are either registered or unregistered trademarks or service marks of Bentley Systems, Incorporated or one of its direct or indirect wholly owned subsidiaries. Other brands and product names are trademarks of their respective owners. 754765-24