

What's new in InfoWorks WS Pro

This topic lists the additions and improvements incorporated in InfoWorks WS Pro Version 2021.1 which were not available in previous versions.

Please note that this new version also includes various enhancements and bug fixes that are not described in detail here.

New module for Multi Solute Water Quality (MSQ)

InfoWorks WS Pro allows the modelling of several interacting chemicals in the water system. This is an alternative to the previous approach to water quality in InfoWorks WS Pro that only allowed modelling of a single substance. The previous approach is now rebadged as "Basic water quality". Basic water quality and MSQ can be simulated at the same time, but the "basic substance" will not interact with the substances in MSQ.

Solute object includes MSQ

The [solute object](#) has several tabs to define solutes, constants, variables and equations. Equations are set for pipes and for reservoirs. Reactions can occur in the bulk or on the wall. Reactions are expressed in terms of the mass or concentration of reactants.

2RA Model

When creating a new solute object, there is a check-box that causes the definitions for the 2RA model to be loaded.

Property sheet to include MSQ

Property pages for nodes and reservoirs allow solute sources to be added in specific locations, and they allow initial concentrations and local reservoir parameters to be set.

Property pages for pipes allow parameters to be set for specific pipes.

Results for MSQ

Concentrations are reported at nodes, reservoirs and on pipe walls.

Import from EPANET MSX

InfoWorks WS Pro MSQ has similarities to EPANET's MSX. It is possible to import an MSX file into a solute object. It is also possible to add an MSX file to the import of INP or XINP, in which case initial conditions at time profiles are imported in addition to the solute object.

Database Grouping


The Workgroup Data Server now allows databases to be grouped for easier management. You can create one or more named groups and have databases created within the groups. This improves clarity if there are many databases. All databases managed by the workgroup data server are housed within the same directory structure.

New Pipe Break option available from property sheet

InfoWorks WS Pro allows modelling of the impact of a pipe break with three methods: break, rupture and flow.

This includes:

Added Pipe Break button in the toolbar

The Pipe Break  button is now available in the Tools [toolbar](#) which allows you to add a pipe break in [pipes](#) and [meters](#).

Added Pipe Break controls in various data fields

The Pipe Break controls (Break Enabled, Break Type, Break Diameter, Break Flow, Break Split Pipe Distance, Break Whole Simulation, Break Start, and Break End) are now available in the data fields for [pipes](#) and [meters](#).

New options for export of network data to CSV files

There is the [option](#) to export non-pipe lines as points. The objects that are converted from lines to points are pump stations, valves, float valves, non-return valves, and meters. This is so that they can be used in models that require all assets to be represented as points.

When [exporting network data to CSV files](#), there is now the [option](#) to export coordinates in the WGS 84 geodetic system. This is for use in systems that require the WGS 84 geodetic system.

Has Valve field is now available for both Pipe and Open Channel

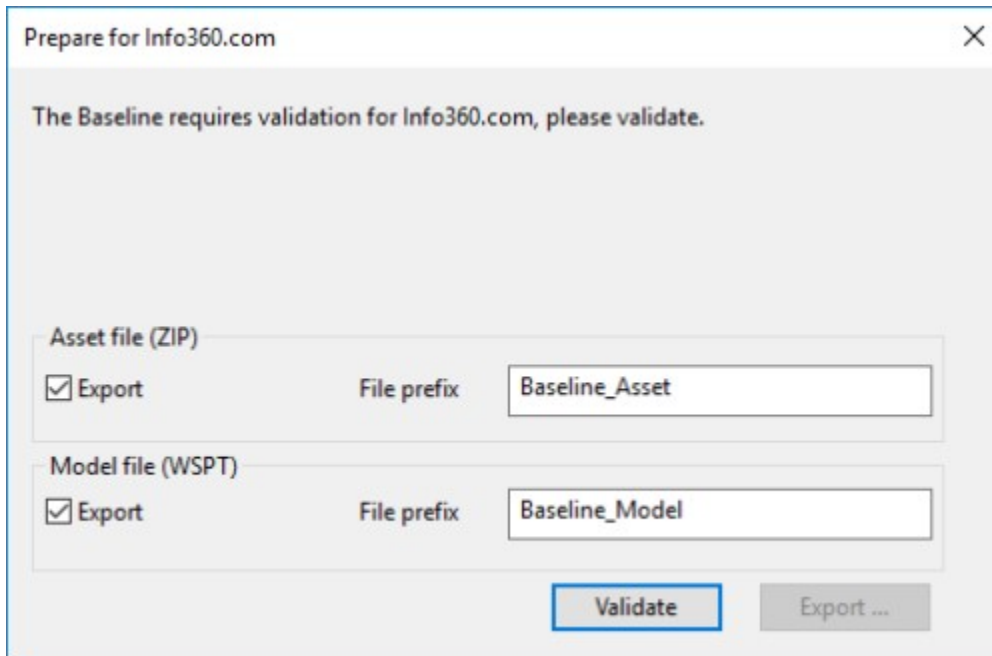
The Has Valve field is now available in both Property Sheet and Property Page for [Pipe](#) and [Open Channel](#). When enabled, it indicates the presence of an isolation valve in the pipe, therefore the pipe can be opened or closed.

Added Pipe with Valve option in the Boundary Valves dialog

A new option, Pipe with Valve, is now added in the Boundary Valves dialog, which allows tracing to stop at these implicit valves.

Export for Info360.com

You can now export for Info360.com using the [Prepare for Info360.com](#) functionality. This allows you to validate and export the baseline's asset model into a CSV file and the baseline's hydraulic model into a transportable database (WSPT) file, which you can then upload into Info360.com in the cloud server.



The screenshot shows a dialog box titled "Prepare for Info360.com" with a close button (X) in the top right corner. The main text inside the dialog reads: "The Baseline requires validation for Info360.com, please validate." Below this text, there are two sections for file export settings. The first section is labeled "Asset file (ZIP)" and contains a checked checkbox for "Export" and a text field for "File prefix" with the value "Baseline_Asset". The second section is labeled "Model file (WSPT)" and also contains a checked checkbox for "Export" and a text field for "File prefix" with the value "Baseline_Model". At the bottom right of the dialog, there are two buttons: "Validate" and "Export ...".

Thales licence type is now available

Thales licence type is now available, which allows you to use the licence provided by Thales' Rights Management System (RMS) or Entitlement Management System (EMS) products.