WADISO

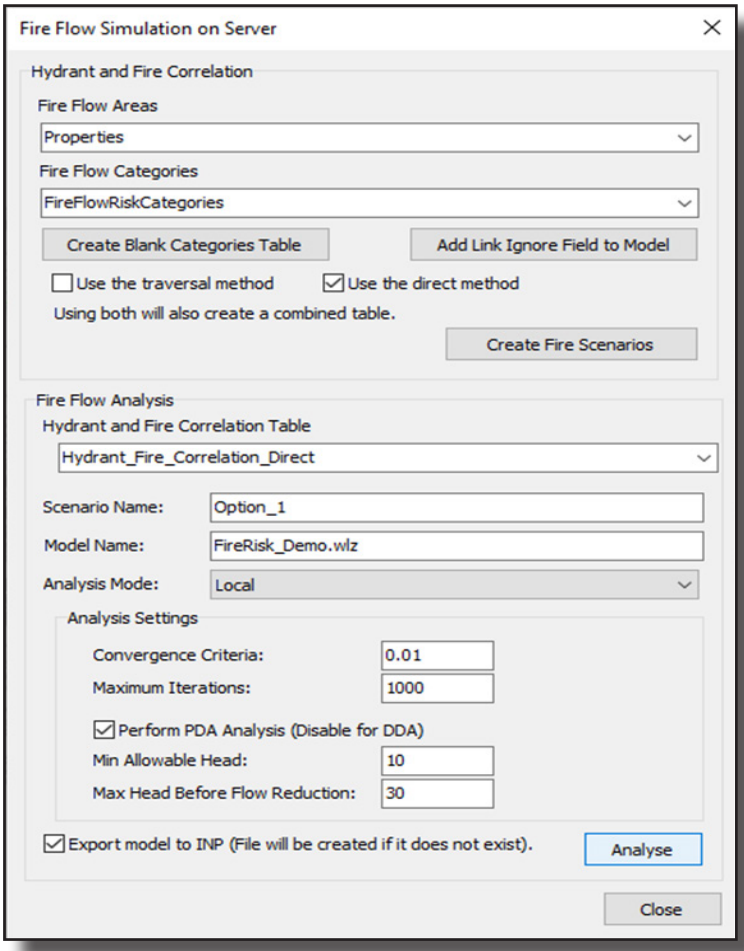
Wadiso EPANETServer extension for fire flow risk analysis

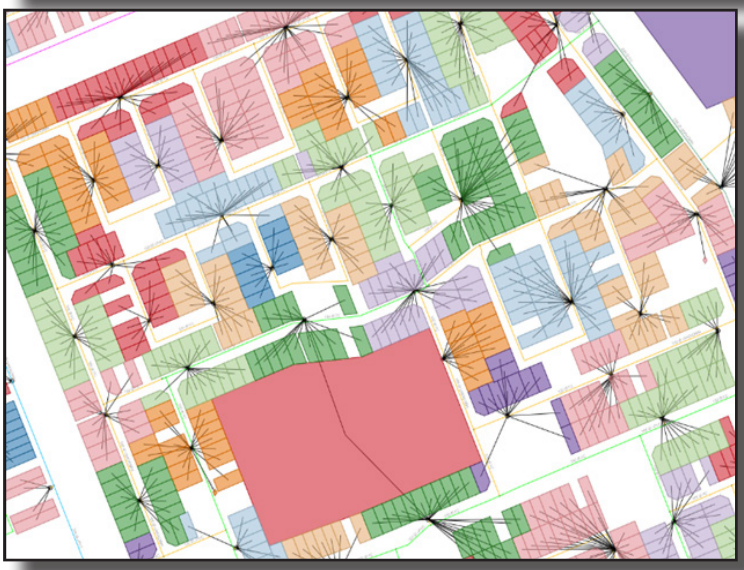
GLS has developed and implemented a multi-threaded client-server software application based on the latest open-source EPANET 2.2 hydraulic analysis engine which now enables city-wide fire flow risk analyses on a property-by-property basis in reasonable time.

Features

- Property fire risk categorization
- Hydrant correlation (direct and system traversal options)
- Quick option to add dummy hydrants to selected nodes
- Identification of unique fire events
- Choice between Demand Driven and Pressure Driven as analysis type
- Option to run server application on local machine
- Report hydrant availability and pressure and flow conditions for fire event
- Heatmap view to identify critical areas and allows for rational approach to decide where to focus on network augmentation, or alternatively provide on-site fire fighting capabilities
- Ease of setup via Wadiso front-end allows for quick creation of various fire flow risk analysis scenarios to compare severity of fire category assignment or augmentation options

Click/Scan to Watch on YouTube:





GLS Infrastructure planning

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WADISO

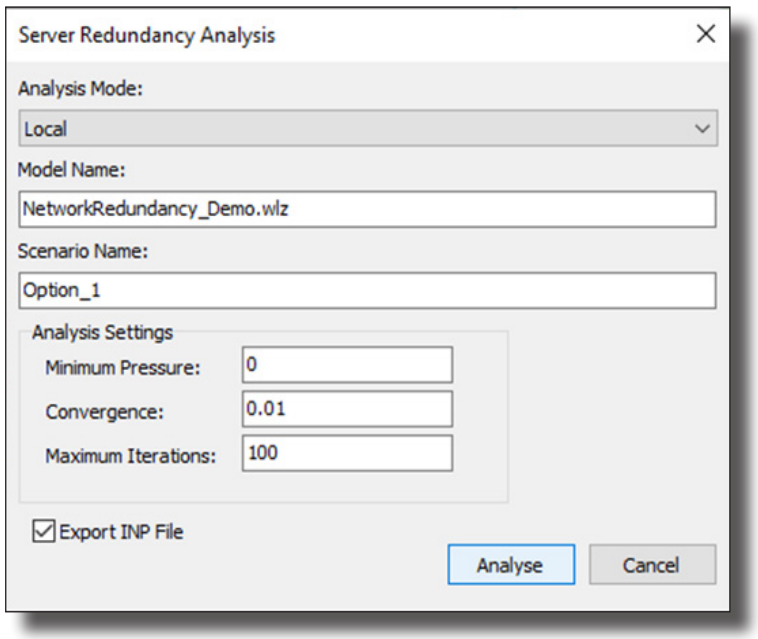
Wadiso EPANETServer extension for network redundancy analysis

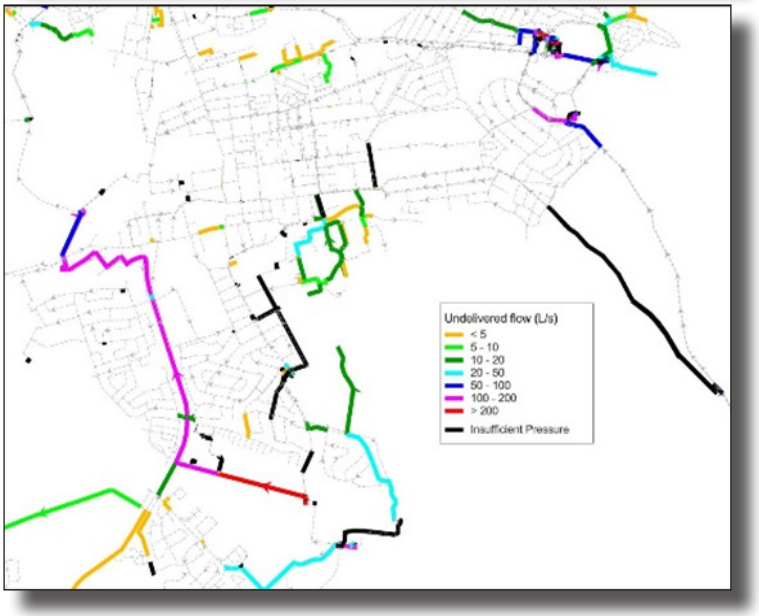
Many complex networks that were initially designed with different degrees of redundancy, both topological (inter-connected loops) and energy based (larger diameters than required), have been modified following city growth, re-zoning and pressure management initiatives without a systematic approach to ensure reliability and robustness remain intact.

GLS has developed and implemented a multi-threaded client-server software application based on the latest open-source EPANET 2.2 hydraulic analysis engine which enables a full network redundancy analysis on a per pipe basis in reasonable time.

Features

- Option to run on all pipes, selection of pipes, or flagged pipes (isolation valves and CVs excluded)
- Option to run server application on local machine
- Report "lost" flow for each link if demand at downstream end not attainable, along with EPANET status and available pressure
- Import results to model for visual representation
- Identify points of failure to be rectified to ensure sustained supply of water
- Critical information for pipe replacement or network augmentation planning
- Ease of setup via Wadiso front-end allows for quick creation of multiple redundancy scenarios





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