Release notes WANDA 4.8

May 2026

General features and functionalities

- Improved installation robustness, including an installer wrapper for iGrafx Flowcharter.
- Updated DLL naming conventions for consistency across build systems.
- Included a full 64 bits bin with the installation
- Post-processing functions now only run in the appropriate calculation phase.

Modelling

- Improved numerical stability by changing buffer equations to mass flow conservation.
- Improved singular matrix handling for combined liquid and heat models.
- Added validations for initial water column length and minimum pipe length.
- Added a turbine example case.

WANDA Liquid module

- Improved handling of pressure below vapour pressure.
- Improved air volume and friction factor computation in fast-filling pipes.

WANDA Heat module

- Improved robustness for multiple heat components.
- Improved temperature initialisation for pipes
- Extended heat transfer modelling options.

WANDA Control module

- Added POWER control component and Log10 algorithm for SFUN.
- Improved control logic robustness.

Manual and documentation

- Updated documentation for FSF conduits and inclined air vessels.
- Added clarifications to RDFile number formatting requirements.
- General improvements and corrections across documentation.

WANDA-API

- Improved simulation control, including simulation stop handling and progress tracking.
- Improved loading and handling of template data
- Improved resume functionality and robustness of API-driven simulations.
- Extended API coverage for component, property, and diagram information across C++, .NET and Python interfaces.
- Improved table handling, validation and unit input/output handling in the API.

- Added extensive API methods to retrieve property visibility, related properties and metadata.
- Improved routing detection and selection via the API.
- Improved licensing support, including exposing license information via C++ and .NET APIs.
- Numerous bug fixes and stability improvements, including fixes for build issues, unit tests and random crashes.