

What is new in MySep Studio v5.1.0 and MySep Engine v3.1.0

With these releases, we complete the rebranding of the MySep products family:

MySep Studio (formerly “MySep”) remains the trusted separation vessel design and rating software application.

For **MySep Engine** (formerly “MySep-RunTime”), the vessel performance calculation engine for process simulators, two editions are now available:

- **MySep Engine Extension** for use with Aspen HYSYS® (AspenTech) or UniSim® Design (Honeywell)
- **MySep Engine Application** for use with Petro-SIM® (KBC/Yokogawa) or Symmetry (Schlumberger).
New feature

You can also utilise the power of MySep Engine Application by writing your own code (e.g. in Excel VBA or other programming languages) to access it. This is particularly useful to calculate vessel performance in custom environments such as Digital Twins or data historians/analytics. A detailed developer guide with available methods and example code is provided. **New feature**

MySep Studio

Simulator communications

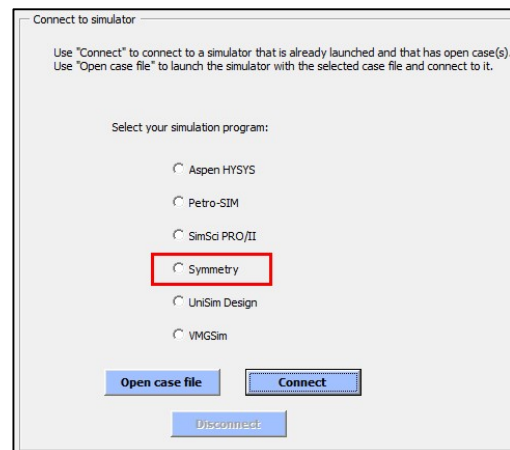
- Added bi-directional data exchange with Symmetry (Schlumberger) process simulator. **New feature**
- Fixed that “Case no longer open” message sometimes shows when a case file is opened on a mapped network drive.

Calculations

- Improved calculations and warnings for mesh agglomerator and mesh pad that don’t cover the entire area above its bottom elevation.
- Improved Baffles level differences calculations to cater for liquid filled vessels.
- Improved accuracy of sand deposition calculations.
- Reduced the minimum vessel inside diameter that can be entered from 300mm to 100mm.

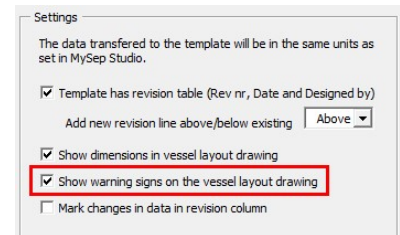
Datasheet generation

- Expanded the list of parameters available for datasheet generation. Refer to:
C:\ProgramData\MySep\Templates\MySep_Studio_Datasheet_Sample_Template.xls (“Guide” sheet)



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- Added option to not show red warning signs on vessel layout drawings sent to datasheets.
- Fixed additional baffles top elevation units display issue.

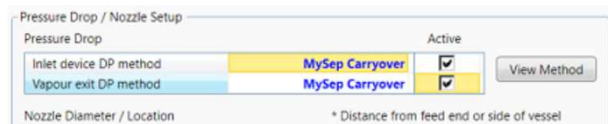


Miscellaneous

- Fixed an issue with saving to some remote OneDrive folders.
- Fixed an error that sometimes occurred when checking for the latest software version (Help > About > Check version button).
- Fixed several issues that occurred with Russian language settings.
- Fixed that corrosion allowance could not be changed from the default 3mm in Weight module.
- Added folder accessibility checks for restrictive cloud environments.
- Report generation: Fixed a crash that would occur if a logo image file that is no longer present is selected.
- Process data input: Increased number of displayed decimals for gas flow rate values in MMSCFD and MMNCMD.
- A further significant number of fixes and improvements “under the hood”.

MySep Engine Extension

- Added compatibility with Aspen HYSYS® v11 and v12 (following HYSYS’ architecture change to 64-bit).
- Corrected setting of elevations in Aspen HYSYS® from myg file for vessels with boots (HYSYS® has a different reference line location for vessels with boots).
- Improved the logic of activating and de-activating vessels in dynamic simulations: Best practice is to stop (“Hold”) the simulation before activating or de-activating vessel(s).
- Explanation: If “Inlet device DP method” in HYSYS® is set to “MySep Carryover” and activated, HYSYS® performs a flash calculation based on the inlet dP from MySep Engine. This is realistic, but can result in slightly different calculation results from MySep Studio which does not perform flash calculations. If needed, to compare Studio and Engine results, deactivate the “Inlet device dP method”.
- Improved calculations for mesh agglomerator and mesh pad that don’t cover the entire area above its bottom elevation.
- A further significant number of fixes and improvements “under the hood”.



MySep Engine Application

- New compatible simulator: **Petro-SIM® (KBC/Yokogawa)** version 7.1 and later
- New compatible simulator: **Symmetry (Schlumberger)** version 2021.1 and later
- Exposed Droplet Size Distribution arrays for inlet piping and each gas-liquid separation section. ***New feature***
- Exposed additional geometrical parameters.
- Added option to remove a specific vessel pair.
- Improved calculations for mesh agglomerator and mesh pad that don’t cover the entire area above its bottom elevation.
- A further significant number of fixes and improvements “under the hood”.