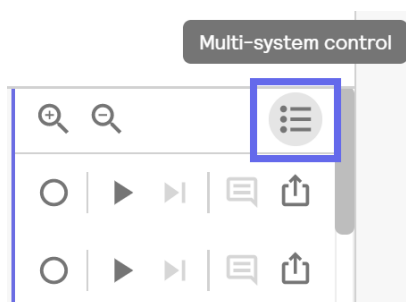


Patch notes of labCONSOL v1.1

The premise of labCONSOL v1.1 was to improve upon the user experience on parallel systems. The software team has been able to complete all work that was defined.

Parallel system functionality

Systems with multiple reactors can now start/stop plans, start/stop logging, add comments, and export data from multiple reactors at the same time. This is a considerable improvement of ease of use for the user. Either selected or all reactors can now be operated via the new “Multi-System Control” button, located above the “Plan Action” buttons:



Selecting the Multi-system control allows the user to select which systems they want to operate and then select the appropriate action with the same Plan Action Buttons. (Note, the “Skip Step” button has been removed for Multi-system control. This is a safety precaution, as different reactors could be at different steps in their plans. Thus skipping multiple reactors to the same step might not be a suitable cause of action.)

More details on this Multi-System control is covered in the labCONSOL v1.1 manual.

Automatic database entry naming

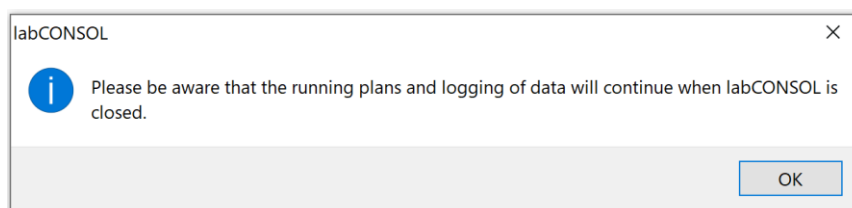
To help reduce the amount of user input, names of database entries are now automatically generated. The general format is “ReactorX – Plan Name (Date – Time)”. An example is shown below:

A screenshot of the 'Start Plan' dialog box. The title is 'Start Plan'. Below the title, it says 'Reactor2 is loaded with Heating and Cooling Test'. There is a section for 'Data table name' with the value 'Reactor2 - Heating and Cooling Test (04/27/2021 12-51-28)'. Below that is a section for 'Test Data' with a checkbox and the label 'Test Data'. There is a section for 'Saving Interval (seconds per data point)' with a value of '20' and a help icon. There is a section for 'Continue Logging' with a dropdown menu set to 'mins'. There is a section for 'Until plan ends' with a dropdown menu set to 'n/a'. At the bottom, there are two buttons: 'CANCEL' and 'START PLAN'.

The user still has the ability to rename the database entry if needed. In future releases of labCONSOL, the user can change the default naming structure of the database entries. In terms of exported readable files (.json or .csv), these will soon be automatically generated and follow the same naming convention. These changes will improve data handling.

Smaller improvements and bug fixes

- The user can now move and re-order tabs.
- Closing labCONSOL while a plan is still active brings up a warning message so that the user knows that the plan will continue to run:



- The labCONTROL software now runs minimized at all times, meaning it does not get in the way of operation and cannot be accidentally closed.
- More consistent UTC date format, allowing for the time and date of the computer to be changed to local time without affecting the performance of labCONSOL.
- Corrected errors with warning messages and playing of the audible siren.
- iQ now allows for multiple data handlers. It has Turbidity Analysis and HLC data handlers as default, but more can be easily added.
- Continued cleanup of WinISO merge-branch operation.

Future developments

V1.2 to V1.4 of labCONSOL have now been defined, and a roadmap is provided in a separate document. This document defines what functionality will be targeted next and when we expect the work to be completed by.