2025-08-15

Release notes
FCP IT-tool Version 0.3

The new version of the FCP IT-tool (ver. 0.3) includes many new features, bug fixes and improvements in reliability and usability. These release notes are meant to give an overview of the more important features and changes included in in this update – the third version of the FCP IT-tool. Note that not all changes will be explicitly listed in this document. This applies to, for example, specifics in the changes of the graphical interface.

It should be emphasized that the IT-tool continues to be under development. Bugs and erroneous results may still be present, especially when using newly implemented features.

Note that the instruction manual "User manual - alpha version" has not been updated.

If you encounter specific bugs or have other questions or suggestions regarding the IT-tool, you are welcome to contact us at fcr@svk.se.

Added features

Evaluation of requirements absent in previous versions:

Requirement 7 – Deactivation of static FCR-D.

Requirement 11 – Linearity for static or non-continuously controlled resources.

Requirement 1b – Combination requirement of FCR-N and FCR-D.

- FCR-N capacity must be entered separately, unless it is contained in data file.

- This evaluation works for both the old and technical new requirements[1].

Other features:

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[1] Technical Requirements for Frequency Containment Reserve Provision in the Nordic Synchronous Area Version 1.1

Sine tests, LER-tests and linearity tests can be evaluated independently and no longer require a step or ramp test.

Active control evaluation for FCR-N is implemented. This analysis requires that the step file analysis is run simultaneously.

Option to perform the evaluation for a variable resource (InsAcPow-RefAcPow).

Other quality of life improvements:

Clearer interface, with more explanations and prompts.

The error messages have been expanded and made clearer.

Support for some further variation in formatting of the .csv-files.

The general assessment tab now shows evaluation more clearly per requirement.

A new results tab showing all signals found in the respective files.

Other changes:

P_theo now defaults to the signal Cap_FcrX from the relevant data file if not manually entered.

T_FME is now submitted under the "Sine"-tab (where it is used), and now defaults to 1 instead of 0.

A separate P_theo is used for the sine tests.

Clarification regarding the reduction factors:

- K_red_ss is now calculated to achieve requirement fulfillment, not optimal delivery.

- K_red_dyn is updated according to the corrected calculations in the new technical requirements[1].

Requirement 4 is updated to the new technical requirements[1].