

PSAT 20.0 Release Notes

This document summarizes the new features and enhancements available in PSAT version 20.0. All changes included are from PSAT version 19.0. For more details on these changes, please refer to PSAT manuals.

1. PSAT Graphical User Interface (GUI)
 - Show powerflow (PFB or PSSE RAW) filename in windows title bar
 - Add menu option under "Settings" to show/hide equipment name columns in all tables
 - Support station filters
 - Display actual transformer impedance after impedance correction
 - Report node-breaker topology analyser messages in a separate file
 - When a PSAT project is opened, the powerflow file can be switched without unloading SLD, Subsystems, Interfaces etc.
2. Powerflow Import / Export
 - Import GE PSLF EPC load climate zone data
 - Export GE PSLF EPC v21 data
 - Import of VSC DC data (BZ/BZ+/LZ cards) in BPA format
 - When exporting to PSS/E RAWD format, multi-sectional line mid-point buses can be exported in their original bus numbers, if the powerflow was imported in PSS/E RAWD format
3. Python
 - Support for Python 3.8
 - Pass PSAT command line parameters to python
 - Added project and powerflow files' path to python case data structure
4. Single Line Diagram
 - Support creation of an SLD layer from a composite subsystem
5. PSAT computations are now done in double precision
6. A Geomagnetically Induced Currents (GIC) analysis module is added, with an option to display computed GIC distributions in Single Line Diagram contours. Note that additional license is required for accessing this module.