DSATools™
Dynamic Security Assessment Software

SSAT 23.0 Release Notes

This document summarizes the new features and enhancements available in SSAT and OAM version 23.0. All changes included are from version 22.0. For more details on these changes, please refer to the corresponding manuals.

1. Modeling
    - Added support for referencing individual Switchable Shunts with their ID
    - Support for the following models in PSS/E format:
        - GENQECU
        - UEL2C, UEL2CU1
        - GEWTG2, GEWTE2, GEWTP2, GEWTA2, GEWTT1
        - GASTWN, GASTWH
        - ABBSVC2
        - SVSMO1T3
        - SVSMO2T3
    - Support for the following models in PSLF format:
        - uel2c

2. User-Defined Model (UDM) Enhancements
    - Add support for GFM block - grid forming network interface
    - Added option to DLB block to load DLL's compliant IEEE/CIGRE standard

3. Reporting
    - Add support for Mudpack-style mode shape scatter image export

4. CDT
    - Allow tuning of library PSS with template user-defined exciter
    - Add support for PSS/E PSS2C model

5. Powerflow Import and Solution
    - Support switching devices with STYPE=2 or 3 in PSS/E RAWD system switching device data
    - Support 'Adjust PPC' global on/off switch in solution parameters
    - Support Voltage-Q Droop control mode of Power Plant Controller (PPC)

6. Transfer Analysis
    - Allow dynamic transfer step sizes:
        - Option to turn on/off units at non-zero Pmin outputs (for generation schedule and merit order dispatch transfer groups only)
        - Option to dispatch to generator max output (for generation schedule groups only)
    - Support definition of source/sink based on boundary definition in transfer file