DSATools™
Dynamic Security Assessment Software

SSAT 25.0 Release Notes

This document summarizes the new features and enhancements available in SSAT version 25.0. All changes included are from SSAT version 24.0. For more details on these changes, please refer to SSAT documentation.

1. Support for distributed computation across scenarios in a case
2. User-defined model enhancements
    - Supervisory controller models are now supported
    - Additional functions supported in template UDMs
        - genmbase
        - genbus
        - sysmva
        - sysfreq
    - VSM block
    - PLT block
    - SSG block
    - Allow multiple equations for output expression in MTH block
    - Increased character limit in parameter-list of DLB block to 10000
    - Additional quantities supported in MON block
        - For all types of UDM
            - Generator status and MVA base
            - All bus type quantities
            - Line status, P, Q, current, V, frequency, MVA
        - For renewable plant controllers and supervisory controllers
            - Generator P, Q, V, speed
            - Shunt status, Q, V
3. Support for frequency/step response input at any initial value block in a user-defined model (except modular renewables)
4. Option for logarithmic spacing of computation points in frequency response

5. Third-party model support
    - PSLF model support
        - Kdrp parameter in lcfb1
        - esac7c
        - esac9c
        - h6e
        - repc_b
    - PSS/E model support
        - AC7C
        - AC7CU1
        - AC11C
        - UEL2
        - HYGOVR1
        - HYG3
        - HYG3U1
        - GGOV1D
        - GGOV1DU
        - LCFB1
        - PLNTBU1
        - REAX3BU1
        - REAX4BU1
6. Python support for binary file (ResultScript)