

SSAT 24.0 Release Notes

This document summarizes the new features and enhancements available in SSAT version 24.0. All changes included are from SSAT version 23.0. For more details on these changes, please refer to SSAT documentation.

1. Behavior change - blocks in encrypted UDM models cannot be monitored in response computations nor used for sensitivity/root locus analysis
2. Support for ramp tracking filter block in UDM
3. Dynamic representation – support for model netting based on initial output of a generator
4. Support for generator/load/weight/limits for interface files included (consistent with VSAT)
5. Step/frequency response support for modular renewables
6. Monitoring modular renewables in response analysis
7. INE (Integration with Dynamic Limits and Reset) block support in root locus and sensitivity computations
8. SWSUDM (new switchable shunt type) support for sensitivity/root locus and reference step changes
9. Sensitivity analysis / root locus support for non-encrypted template UDM with respect to block parameters
10. Sensitivity/root locus support for ABBSVC2, SVSMO1T3, SVSMO2T3
11. Third-party model support
 - PSLF model support
 - esst1c
 - esst5c
 - esdc1c
 - esdc2c
 - PSS/E model support
 - ST4C (and sensitivity analysis support)
 - REEC_D support

- REECC1 support
- USAC6AU support

12. UDM

- UDM subsystem support (in UDM editor release notes)

13. Transfer definition enhancements (applicable to TSAT, VSAT and SSAT)

- In group interface participation factor, you can specify the keyword 'auto'. The participation factor will be estimated from the base point.
- Multiple dynamic transfer step size options can be simultaneously enabled in a group now.
- Merit order blocks do not need to be consecutive in MW if non-zero Pmin enabled for the group.
- Dynamic participation factor adjustment for phase shifters and DC converters to preserve total change per transfer step