

VSAT 20.0 Release Notes

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

1. Powerflow solution options
 - Support 'under-voltage load conversion' solution option
2. SVC Capability Curves
 - Support SVC capability curves
3. Transfer
 - Support a new load scaling option – 'PQ for +Q; P only for -Q'
 - Support an option to scale DC converter MW in proportion to their base case MW
 - Support DC converter MW checking type in transfer dependency check
4. Branch Rating file
 - New 'apply in' logic in branch rating is specified in rating group
5. Contingency
 - Support gradual contingency application for branch outages
 - Support 'Isolate Breaker' and 'Apply Stuck Breaker' contingency type
 - Support 'switch off/on banks of switchable shunt' contingency type
 - Support change switched shunt MVar contingency type (for frozen mode only)
 - Support CCPP train outage contingency
6. Special Protection Scheme (SPS)
 - Support global gates in SPS
 - A new SPS block type to monitor MVA flow on a three-winding transformer
 - A new SPS block type to monitor line shunt MVar value
 - A new SPS action type to switch out line shunts
 - A new SPS action type to trip generator group
 - A new SPS action type to change switchable shunt MVar (for frozen mode only)
7. Monitor
 - Support monitoring distribution factor for 3-winding transformer contingency
 - Support a new 'loading of interface' monitoring type
8. Modal Analysis
 - Ability to perform modal analysis when a contingency is unsolvable at base point (gradual contingency application)

9. Reporting function

- Display more information in cascading outage XML report