



## **WECC MVS Updates**

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- Transitioning to scheduled releases (3 minor releases/year, e.g., v22.1, v22.2, v22.3, 1 major release e.g. v23)
- Minor releases will generally include fixes/model support/small enhancement requests, major release cycle for public release of more significant features
- Plan for July major release

- REGC\_C
  - Previously not doing well with benchmark
  - Showing reasonable match with other vendors now, some discrepancies
- Fix:
  - Ignore RBUS spec for electrical controller (renewable) models (reec\_a)
- Third-party library support
  - PSSE

O MAXEX1/MAXEX2 OEL models

PLNTBU1 no longer requires generator association,

e.g., can be mapped to FACTS-only devices

• IEEE 421.5

OEL2C/UEL2C added (most instances in basecase)

 $\odot$  Target priority 1 items for v23

- Previous behaviour, simulation terminates if there are convergence issues
  - Problematic for control centre implementations
- Configurable MW/MVAR mismatch allowance will allow simulation to proceed after solution iterations exhausted if less than threshold (will be marked in simulation/logs)

- # blocks increased (200) in AC UDMs to allow more detailed modeling
- Encrypted template models now supported in DSA Manager / Online DSA
- DLBProc support for DLLs in user-defined DC models (previously AC-only)
- Allow use of TSAT SPS UDMs for logical evaluation and in VSAT (working, under test)
- Supervisory controller (SUPBUS/SUPUDM) block monitoring

## Flexible transfer support (VSAT/TSAT/SSAT)

 Allows units to participate in transfer with user-specified minimum/maximum power (requires mapping out possible redispatch in advance to 1 MW tolerance)  Control Design Toolbox now allows for PSS tuning with mix of library/template models

- Working on MQT tool to be included with TSAT, similar to DMVIEW (target v23)
- Switchable Shunt ID support (will allow proper support for ABBSVC2,CSSCST2,SVSMO1T3,SVSMO2T3,SWSHNT2, etc.) target 22.3