PSS®E Update - WECC Modeling and Validation Subcommittee Meeting
Jan. 24-26, 2024

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PSS®E – Recent and upcoming releases

Current release

- PSS®E 36.0   November 2023
- PSS®E 35.6.1   July 2023 (maintenance mode)
- PSS®E 34.9.6   August 2023 (end of life)

Upcoming Releases

- PSS®E 35.6.2   March 2024 (Planned)
- PSS®E 36.0.1   April 2024 (Planned)

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PSS®E v36 Key Features

Version Independent User Defined Modeling (UDM):

- Highlight of v36 is Version Independent dll for User Defined Models (model dll created for v36 would be usable for all future versions of PSS®E without the need for creating the dll again for use in v37 and beyond

Study Projects:

- New mode of operating within PSS®E to keep files, case variants, simulation definitions, and results all organized withing a single folder or archive file. Plans to also provide parallel simulation execution and Model Management tie-in.

Key Steady State Enhancements:

- Bypass option is added for branch records

- Each device (machine/load/fixed shunt/switched shunt/induction machine) can have a name up to 40 characters or blank. If not blank, it must be unique within the devices in the same type.

- A load type table is added. Each load type has a unique name of 12-characters and description of 72-characters. Loads can be assigned to a load type or None, and the loads can be grouped by a load type.

- Interface flow models is added. An interface flow model consists of branches/transformers/loads/generators/DC lines/Area ties, etc.

- Switching Device rating tables are added. A rating table contains 12 ratings and can be referred by one or multiple switching devices.

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PSS®E Dynamics Enhancements in upcoming PSS®E releases of 36

Dynamics Engine Changes:

- STATE & VAR Descriptions

New Dynamic Models :

- REPC_D, REGFM_B1

New functions in Engine for use in Version Independent (VINDP) user models

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Thank you!

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