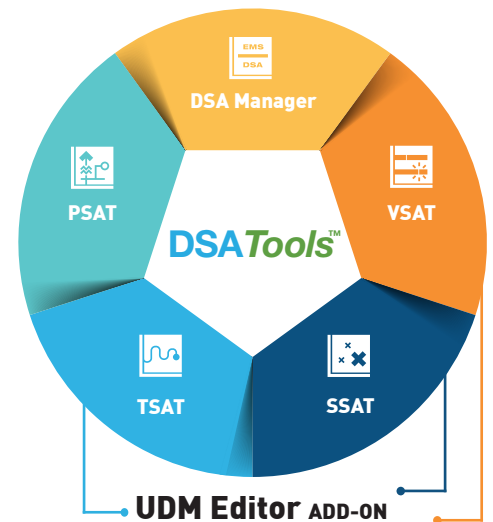
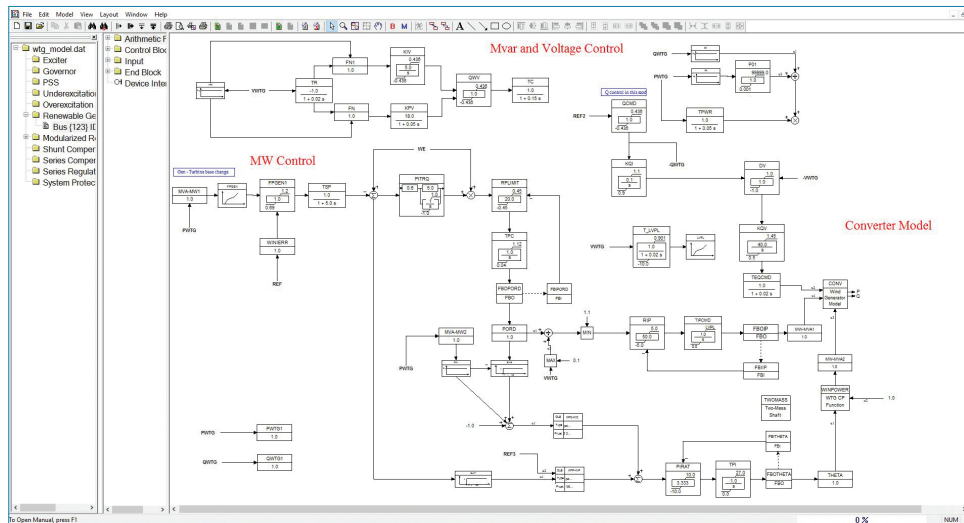


UDM Editor User-Defined Model Editor

UDM Editor is an add-on module for TSAT, SSAT, and VSAT. This module can be used to create, edit, and examine user-defined models for a variety of control devices as well as other models such as special protection schemes.



UDM Editor is a tool designed for building user-defined models for use in steady-state and dynamic analysis.

UDM Editor incorporates features and functions to allow the smooth and efficient creation of UDMs in a graphical environment. The resulting models are accepted directly in TSAT, SSAT, and VSAT without the need to go through additional programming and compilation processes.

MODELLING CAPABILITIES

UDM Editor can be used to create all types of UDM supported by TSAT, SSAT, and VSAT, including:

- Generator controls, such as exciter, governor, PSS, over-excitation limiter, and under-excitation limiter.
- Renewable generator models and controls, including wind turbines with all four main types of technologies, PV, storage, etc.
- FACTS, such as SVC, STATCOM, TCSC, SMES, UPFC, etc.
- HVDC (LCC and VSC) and controls, including converter-based FACTS devices.
- Relay and special protection schemes (SPS).

Typical models are available for each model type in the model template library to provide starting point for building a custom model.

A UDM is created using a function block and connectivity based approach. UDM Editor provides a comprehensive library of logic functions, math functions, control functions, input signals, and physical device models for use in building UDMs. The user can also supply custom function blocks written in C/C++ in form of DLL to be included in a UDM as Dynamically Linked Block (DLB).

The UDM template feature allows the easy creation and management of large set of user-defined models.

Once a UDM is created, validation can be performed to ensure that the model meets the requirements.

PRODUCT FEATURES:

- Full graphical interface to build models
- Function block and connectivity based UDM approach
- Supports a wide range of dynamic models
- Comprehensive library of function blocks, input signals, and physical device models
- Support of user written function blocks
- UDM template for managing UDM library
- Models are accepted directly by TSAT, SSAT, and VSAT with no additional compilation

