

SIEMENS



Siemens Power Technologies International

Model Management Solutions

For utility planning

www.usa.siemens.com/energy/pti-software

In today's energy industry, network modeling accuracy and efficiency problems result from transmission planning and operations departments maintaining and using completely separate data models. Each department relies on these models to help plan and

execute important business decisions. When there is no consistent, sustainable data sharing approach, day-to-day efficiency and even system reliability can be compromised.

Single-user Model Management

Siemens PTI offers the Single-user Model Management (SMM) to create, merge, maintain and exchange network models in common information model (CIM) format. Specifically, the SMM solution facilitates the following key features.

- Convert network models from PSS®E to CIM format.
- Maintain the official version of your network model in a powerful CIM-based environment.
- Build study cases, solve power flow, visualize results and export directly to PSS®E.
- Exchange network models with other entities in CIM/XML format.
- Create scripts to automate data conversion processes via powerful Python APIs.

Optional features

Project modeling is an optional module that provides a set of functions to interactively record, manage and analyze planned model changes in advance of commissioning. Future model changes can be organized into multi-phase projects, with each project phase having a specific, editable commissioning date.

All of these capabilities available in SMM facilitate efficient and productive workflows related to maintaining and exchanging CIM-compliant planning models.

Enterprise Model Management

Enterprise Model Management (EMM) from Siemens PTI is a unique and proven solution designed to help streamline the modeling work flow. The EMM solution provides a common, CIM-based network modeling platform for planning and operations.

Deployment of this solution helps ensure that both departments share a common data model that is reliable and current.

Productivity

Productivity increases by having one common source of data, eliminating the need for redundant model maintenance. And by employing the international standard data format, CIM, EMM is able to exchange data with other organizations as well as with other software systems within the organization.

Reliability

Reliability improves with better assessment of system operation limits and consistent predictions of operational conditions across all study time frames while incorporating grid reinforcements into the planning horizon.

Accuracy

Single-source model data leads to sharper model accuracy across all study periods, delivering more consistent analysis results among different departments.

Better business decisions

With an increased and more accurate awareness of network conditions throughout the timeline – from near-term operations to long-term planning – better business decisions can be made based on fact, not assumption. And that means benefits that go straight to the bottom line.

PSS®O DMS Platform

SMM and EMM solutions are derived from PSS®O DMS – a scalable and extensible software platform designed for easy integration with SCADA/EMS. A flexible software product, PSS®O DMS combines a comprehensive network modeling and analysis solution with an open, standards-based architecture that facilitates easy integration with transmission operations and planning data as well as software and business processes.

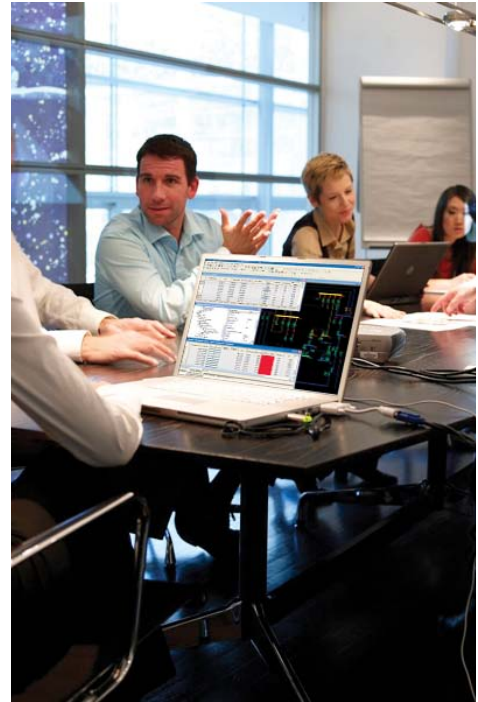
PSS®O DMS offers a broad range of features designed to increase power system security, reliability, network modeling accuracy and productivity. The network modeling and analysis functions support past, present and future network states (including alternative future scenarios).

For further details or to request a demonstration of our CIM-compliant solutions, contact Siemens PTI at pti-software-solutions.ptd@siemens.com.

Why choose us?

Siemens is a world leader supplying innovative products, solutions and services for the utmost efficiency and productivity along the entire energy conversion chain. Specifically, Siemens Power Technologies International (Siemens PTI) offers network consulting services, system planning software and professional training on all aspects of transmission and distribution. Siemens PTI provides the knowledge and expertise to combine the individual equipment components to form a complete electricity supply system that meets your technical and economical requirements.

Siemens PTI brings a comprehensive understanding and ability to analyze any type of electricity network – whether it is low-voltage or medium-voltage distribution systems for industrial or public electricity supply to the highest voltage levels for transmission systems. Our internationally renowned experts, software portfolio and education curriculum, along with our long-standing expertise, are a sound basis for developing state-of-the-art solutions of the highest reliability and efficiency for your network.



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