Common Network and Dynamics Modeling

Siemens PTI has been driving toward common network and dynamics modeling on many fronts. Common modeling holds the promise for electric utility models to be exchanged between various vendors’ analytical software more accurately than they have been exchanged in the past.

Siemens PTI is a charter member of the CIM for Planning effort, coordinated by EPRI (Electric Power Research Institute) in the US. As a result of this group’s efforts, Siemens PTI successfully completed interoperation tests with other planning software vendors in November 2008. These initial interoperation tests demonstrated the effectiveness of the CIM for transporting steady-state models between different vendor platforms. The steady-state models represent power flow and short circuit data. Siemens PTI is continuing work on the CIM for Planning through our participation in the follow-on committee – CIM for Dynamics. This group has made significant progress in developing the models for representing dynamic data within the CIM. We are hopeful that we will be prepared for an interoperation test on dynamics data mid-2009. For more information on Siemens PTI’s efforts in all facets of the CIM, please contact Steven Mauser at stephen.mauser@siemens.com.

Siemens PTI is also actively pursuing common modeling within the Western Electricity Coordinating Council (WECC) in the US. This effort, coordinated by WECC and in cooperation with General Electric, is identifying common models, and will incorporate these models into PSS®E for PSS®E users in the WECC area. Further, Siemens PTI is participating in several WECC modeling task forces to create new, or more comprehensive, representations, for SVC, HVDC and composite loads models. This work is ongoing. However, once the models have been developed, tested, and incorporated into PSS®E, the models will be available in PSS®E’s standard library for all current PSS®E users. The technical lead for WECC model development efforts is Mr. Frank McElvain, Manager of Siemens PTI’s San Jose, CA office. For more information on these model development efforts, please contact Frank McElvain at frank.mcelvain@siemens.com.