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PSS®E Measurement Interface Module

Import data directly into PSS®E from your operational historian database

At a glance

The PSS®E Measurement Interface in an add-on module for PSS®E that provides an easy solution for near and long-term planners to import data from their historian systems directly into PSS®E. Some of the key features of the tool are:

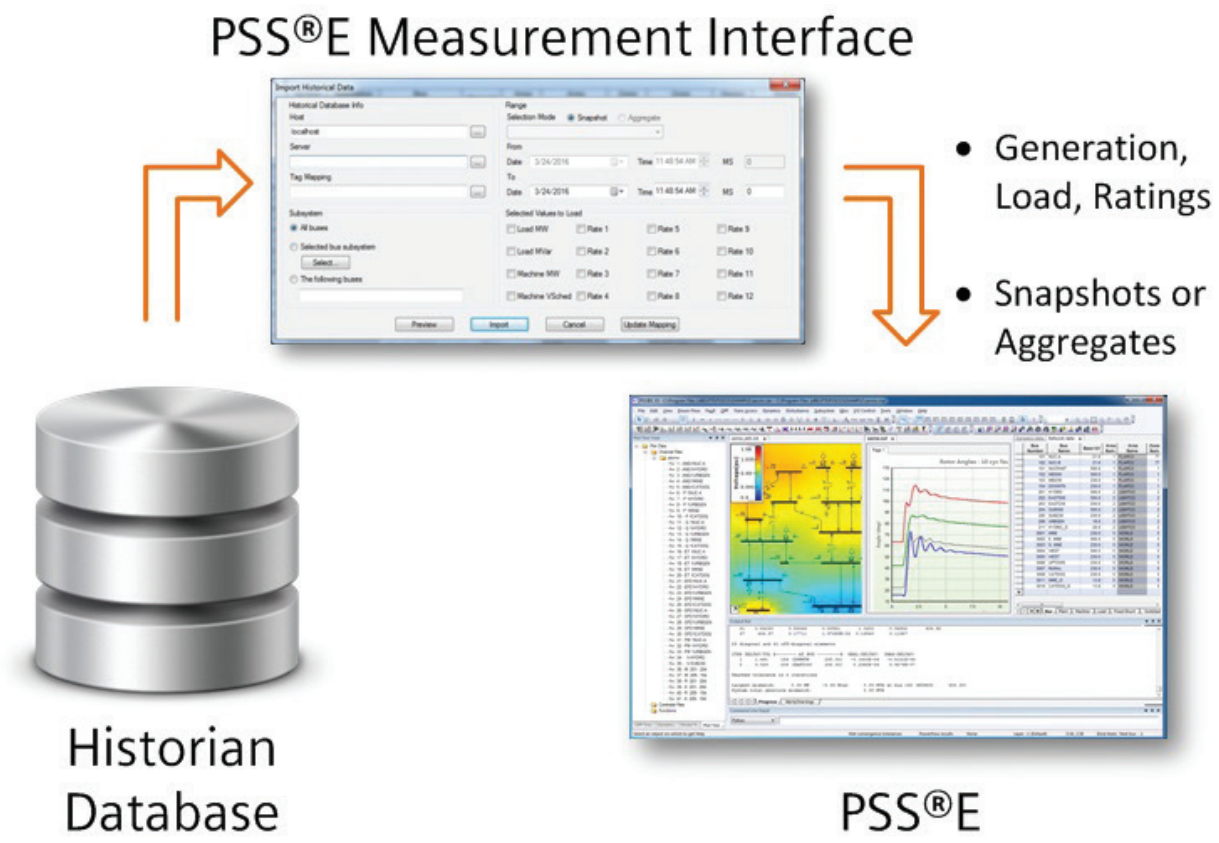
- Isolation of the engineer from the complexity of interfacing and reading from their historian system
- A straightforward system for developing and saving data mappings between historian data tags and PSS®E network element properties.
- Support for all data aggregations (maximums, averages, etc.) available from your historian system.

The challenge

The days of segregating operational and planning models with activities are over. Modern power system planning requires verifiable consistency between models and their corresponding real-world systems. Furthermore, regional standards, such as the NERC MOD standards in North America, require validation of the planning models against the real-world systems.

What is needed are new and innovative ways to bridge the gap between the real-time system in the control room and the planning models. Near-term planners need constant access to real data from the system to make critical decisions about generation dispatch and outage planning. Long-term planners need to be more in touch with the real-time operation of the system, and need access to operations data to replicate events and to create more robust expansion plans. However, there are difficulties gaining access to this critical data, including:

- Historian systems that retrieve and store real-time information are complex, and creating interfaces into these systems is not trivial can be very difficult and time-consuming.
- Although the structure of the data in these systems is straightforward (based on a data-tag methodology), it can be a lot of work mapping these data points to the properties of the network elements in your PSS®E power flow models.
- Data aggregations (maximums, averages, percentiles, etc.) differ from one historian to another, and retrieving aggregated data from these systems is not trivial.



Connecting your historical operations data directly to PSS®E

Our solution

The PSS®E Measurement Interface provides a simple-to-use, integrated platform for linking PSS®E to your historian and automatically populating you PSS®E models with historical data. It does this through providing:

- A robust Open Platform Communications Historical Data Access (OPC-HDA) interface, which is supported by all major vendors of historian systems (OSI, GE, ABB, Schneider, etc.)
- A straight-forward user interface that makes it easy to create, save, and maintain the links between your historian's data and your PSS®E models
- The ability to import either snapshot data (from one point in time), or any aggregate supported by your historian (from multiple points in time), such as maximums, time-averages, percentiles, etc.

Prerequisites and compatibility

The Measurement Interface Module is supported in PSS®E versions 33 and 34. In order to use the Measurement Interface Module, your company must have a historian system that includes an OPC HDA server interface that is compliant with the OPC Historical Data Access Specification Version 1.20 or above (most historian vendors provide this interface).

How to get started

For further information or to purchase the PSS®E Measurement Interface Module, please contact Siemens PTI software sales at ***pti-software-sales.ptd@siemens.com*** or +1 518 395 5000.

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