Siemens PTI PSS®CAPE software (previously known as Electrocon’s CAPE) supports the system protection function within electric power utilities. PSS®CAPE is used by major utilities in more than 50 countries on six continents worldwide due to its extensive library of highly detailed relay models and extensive selection of modular protection tools that help engineers manage voluminous and complex network data, uncover potential problems, and examine alternative solutions.

Simulating short circuits and showing the responses of protective devices is the heart of PSS®CAPE. It is as simple as using a mouse to click and drag elements on a one-line diagram, and to open breakers, apply faults, and simulate protective system responses. Conducting automated fault studies and wide area coordination reviews, developing incisive custom reports, and identifying fault locations, all become practical, efficient activities that add value to your organization.

Highly detailed for accurate results
PSS®CAPE handles networks of any size, large or small. PSS®CAPE users have systems ranging from under 100 buses to 10,000 buses – including protection systems with 20,000 to 50,000 relays. PSS®CAPE’s ability to handle rich detail enables customers to create accurate protection models to realistically predict likely misoperations. PSS®CAPE comes with a library of relays, distribution reclosers, and fuses, all ready to use out of the box.

Get the most from your data
PSS®CAPE is built upon a true relational database, which is included with the software. The underlying DBMS is fully ODBC- and SQL-compliant; therefore, the PSS®CAPE database may be accessed with programs like Oracle and Microsoft Access. All of the modules use the same PSS®CAPE database data, so any data item is entered once and may be used many times.

PSS®CAPE Pro-Standard package features:

- **PSS®CAPE Database Editor** is used to build and maintain the database of integrated network and system protection models. Special features for easy transformer model building; relay, recloser, and fuse model import; data merging, and quick entry of protection data.

- **Short Circuit** calculates any type of fault on any size system. Supports standard and customized reporting, automated fault studies, fault location analysis, and user-defined fault conditions.

PSS®CAPE and its modules offer multiple ways to access your data

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Optional PSS®CAPE functions

**Power Flow** offers both Newton and Fast Decoupled solution methods. Control algorithms support tap and phase-shifting transformers, voltage control by reactive generation, switched capacitor bank operation, and area interchange control.

**Short Circuit Reduction** offers two types of network reduction; useful for providing reduced models for EMTP calculations, for other "non-PSS®CAPE" programs, and for sharing data with a utility’s neighbors.

**Settings Transfer Utilities** can export settings for any group of relays to one or more Neutral Interface files; settings can be taken to the field and safely viewed and modified by the test engineer, reviewed, annotated, and saved.

**Breaker Duty** automates the evaluation of breaker interrupting duty following approved procedures of either the IEC or ANSI standards. Streamlines the evaluation of new and existing breakers.

**IPS-PSS®CAPE Bridge™** provides two-way data exchange between the IPS-RELEX™ protection system data management software and the PSS®CAPE protection system simulation environment.

**PSS®CAPE-TS Link™** integrates PSS®CAPE with transient stability programs (currently Siemens PTI PSS®E), combining the electromechanical transient stability function with PSS®CAPE’s detailed protection system simulation.