

Gridscale X™ PSS®E On Premise

Product Sheet

Documentation

General

Value Proposition

With the modular platform of Gridscale X™ PSS®E, power system planners and operation engineers are supported in simulating, analyzing, and modeling transmission, distribution, and industrial power systems. The tools easily integrate into any existing IT environment, accelerate your productivity through its API capabilities, and even supports to streamline analysis and reporting for regulatory requirements (such as NERC PRC, NERC TPL and ENSTO-E CGMES).

Delivery

Siemens makes Software available to Customer via electronic download from [PSS® Software Downloads](#). Access credentials are provided automatically by mail to the appointed contact details by customer.

Version Availability: PSS®E is exclusively provided in its most current version, as determined by the date of delivery, unless otherwise stated in the Order Form.

Description & functionalities

Functionalities

The core modules of PSS®E form the basis for the extended modules with graphical user interface and contour plotting, power flow, contingency analysis, voltage stability analysis, python and IPLAN scripting as well as transmission reliability assessment. Further Details can be found on the [PSS®E Homepage](#).

Restrictions

You acknowledge that PSS®E is a simulation software program. The simulation results are limited to input data of the network equipment on the onsite and to the simulation algorithm on the other site. The algorithms have been created by Siemens based on experience. The data or other information provided by the customer and results may not fully correspond to the real-world behaviour. The interpretation, implementation and utilization of reports, concepts and results is the sole responsibility of the Customer. Siemens does not assume any liability, warranty, or guarantee for the feasibility or usability of reports, concepts, and results, nor for actions or omissions based on the reports, concepts, proposals, or recommendations.

Cybersecurity and maintenance

Certificates	Cybersecurity certificates like ISO 27001 as well as other documents like STAR Registry Listings, can be found on Siemens' website (www.siemens.com/system-certificates) or external websites like https://www.siemens.com/global/en/general/system-certificates/si-gsw.html Cybersecurity certificates can also be obtained upon request.
Securities Advisories	Siemens investigates reports of security issues and publishes Security Advisories for validated security vulnerabilities that directly involve Siemens products and require applying an update, performing an upgrade, or other customer action. As part of the ongoing effort to help managing security risks and help keep systems protected, Siemens discloses the required information necessary to assess the impact of a security vulnerability under www.siemens.com/cert.
Maintenance	The maintenance services for PSS®E are structured under the following licensing model: 1) Term/Subscription Licenses: ○ Maintenance services are inherently integrated ○ Maintenance services apply to supported versions of the software. ○ Automatically included as per the maintenance terms are referred to in the Order Form
Supported / Unsupported Versions	Supported Versions shall mean the current major release version of PSS®E, made available to all users, and one major release version immediately preceding the current major released version. The preceding version will be supported in a limited manner including only select security fixes and bug correction for up to six months after the release of the current major version. All older major versions are in legacy mode, with no new updates of any kind. Unsupported Versions shall mean any Program version released prior to a Supported Version and notwithstanding anything to the contrary in the Order Form are provided as-is without warranty of any kind.

Entitlement Metrics and Limitations

License Model	PSS®E software is available through the following licensing model, with the specific license period being defined in the Order Form: 1) Term/Subscription License ○ Time-limited usage rights ○ Renewable licensing model The specific term/subscription limitations are explicitly detailed in each customer's individual Order documentation.
Term/Subscription Modules	The PSS®E modules that can be used during PSS®E simulations are identified in the Order Form. PSS®E modules are as listed below. The descriptions of each PSS®E Modules can be found in the Modules section of the PSS®E website: www.siemens.com/pss-e

Modules
Base Module including:

- Graphical User Interface and Contour Plotting
- Power Flow
- Contingency Analysis
- Voltage Stability (PV/QV) Analysis
- Python and IPLAN Scripting
- Transmission Reliability Assessment

Short Circuit Calculations

Dynamic Simulation Control Section and Model Library

Line Properties Calculation

Optimal Power Flow

Geomagnetically Induced Currents

Advanced Linear Analysis

Advanced Contingency Analysis and RAS Tools

Harmonics Calculation

Time Series Power Flow

License Type

There are three license types available, which can be deployed on either Physical Machine (PM) or Virtual Machines (VM) up to 32 cores/logical processors. One license equals one user and one machine.

- PC Individual Software License (Fixed Machine / Movable). Fixed license is bound to one specific computer/machine. Movable license allows users to transfer their license between different computers.
- Traditional Network License is a server-based licensing that allows sharing of licenses across multiple users within a network. A constant connection to the network license server is required.
- Borrowable Network (V35 and greater only) License - Allows a user to take a shared license offline for a specified period of up to 30 days. User must connect to the network license server in order to borrow a license. A borrowed license counts toward the number of "Concurrent Users", as further defined below."

For Network license types the "concurrent user license" principle applies.

These deployment types are defined in the installation manual available upon request via pti.support.energy@siemens.com.

Term/Subscription Licenses (Monthly licensing)

1) Term and renewal

- The initial Subscription Term is one (1) month with automatic renewal. Any renewed Subscription Term will be of the same length.

2) License type

- Individual physical PC, fixed machine software license and cannot be moved. License deployment method is limited to installation on Physical Machines; Virtual Machine installation is not permitted.

3) Termination

- Customer must submit cancellation at least three (3) days prior to the end of the current Subscription Term through the electronic system by which the original Subscription License was purchased e.g. Subscription Manager (hereinafter referred as "Designated Electronic System").
- Either party may prevent automatic renewal by providing notice to the other party at least three (3) days before the end of the current Subscription Term. Customer shall submit any termination notice exclusively through the Designated Electronic System.
- Subscription Term commitments are non-refundable.

4) Price upon renewal

- The price during any renewed Subscription Term will be the same as that in effect at the end of the preceding Subscription Term, unless:

	a. Siemens notifies Customer of a price change at least 10 days before the end of the then-current Subscription Term; or b. the price for the renewed Subscription Term is specified in the Order Form.
Subscription/Term Licenses (Annual license)	1) Term and renewal ○ The initial Subscription/Term is minimum of one (1) year, maximum of three (3) years, with no automatic renewal. 2) License type ○ As specified in the Order Form. 3) Termination/Cancellation ○ All Subscription/Term commitments are non-cancellable and non-refundable.
Usage Type	Commercial Usage – Customer may use the Software for the sole purpose of engineering computations relating to electric power generating and delivery systems. University Classroom - The Software may be used for the sole purpose of education and academic classroom instruction, and internal funded research. External funded research or commercial use is prohibited. University Government Funded Research - The Software may be used for the sole purpose of education and academic classroom instruction, and government funded research. Other external funded research or commercial use is prohibited.
Cores/Logical Processors	Standard PSS®E offering includes access up to 32 cores/logical processors. Optional available cores/logical processors for V36 and greater are: 64, 128, 256, 512 and 1024.
Warranty	For Supported Versions: As its sole warranty during the license term (“Warranty Period”), Siemens warrants that the Software will substantially perform the functions specified within the Software documentation when operated on a computer system that meets the minimum recommended system requirements specified in the Software documentation. Siemens agrees to make corrections in the Software as may be necessary to rectify any failure to comply with this warranty, provided such failure to comply is brought to Siemens’s attention in writing during the Warranty Period. For warranty support please contact www.usa.siemens.com/psse-support. This warranty will in no case extend to the operating system software or other aspects of equipment hardware or services supplied by the computer manufacturer or to installation of the Software on any equipment that does not meet the minimum recommended system requirements specified by Siemens. Customer expressly agrees that any Unsupported Version of the Software provided by Siemens pursuant to this Order Form is supplied “as-is”, without any type of warranty whatsoever, whether statutory, express, or implied. The warranty stated above is in lieu of all other warranties, express or implied, including without limitation no implied warranties of merchantability, fitness for a particular purpose, course of dealing or usage and trade shall apply. Except as stated in the above warranty, Siemens shall not be liable under any other legal theory including, without limitation, contract, negligence, or misrepresentation, for any defect in, or breach of, any obligation relating to the quality of the Software.
Transferability	Software and licenses are non-transferable.

Third-Party Terms	Applicable Third-Party Terms are accessible via the installer with delivery of the PSS®E license.
Software Type	By default, PSS®E falls under: ☒ Other Software Types ☐ Engineering Software Important Note: The software is generally classified as "Other Software Types" unless explicitly specified otherwise in the Order Form. Any deviation from this default classification (i.e., designation as Engineering Software) must be clearly stated in the Order Form.

Maintenance Services

Maintenance and Support	Maintenance and support includes up to 20 hours (per year) of technical support to the Customer for installation and operation of Supported versions of the Software. For unsupported versions, Siemens may at its sole discretion provide limited technical support to the Customer for installation and operation of the Software. Annual Term/Subscription Customers are provided with new software versions as released and software updates to Supported versions outlined in the Order Form. Access to regional User Group Meetings are included free of charge.
Remedies	Siemens will look towards remedies for any reproducible defect in Supported versions within a commercially reasonable period of time as solely determined by Siemens. The remedies provided in this section will be Customer's sole and exclusive remedies with respect to the provision of maintenance and support.
Contact	Customer may contact Siemens' Technical Support organization as primary point of contact for support in relation to PSS®E On-Premise Software. Unless otherwise directed by Siemens, all Support inquiries must be made through: https://siemens-pss.freshdesk.com (Customer Care Portal)
Scope of Technical Support	Subject to availability Siemens offers Customer support services via a service desk Monday to Friday, 9:00 am to 6:00pm (EST) on Business Days, excluding national and local holidays in USA. Siemens will respond to Customer's support inquiry at Siemens' sole discretion via e-mail, hotline or remotely as described in this clause. Customer must ensure remote access to its local networks for e.g. remote diagnoses, upon request by Siemens. The following types of incidents are excluded from the scope of support for on-premise Software, but Customer may revert such requests to the sales team(s) for resolution: • incidents regarding a release, version, and/or functionalities of a service developed or configured specifically for Customer (unless otherwise expressly set forth in the Order Form). • incidents ascribed to a consulting or training request ("how-to"). These are covered by the online user documentation. • incidents ascribed to a custom development request. • Functional enhancements, upgrades, or software licenses to non-PSS®E products. • Emergency or after-hours work.

The Customer Support is available in English.

To receive support services hereunder, Customer shall reasonably cooperate with Siemens' Support to resolve support incidents and shall have adequate technical expertise and knowledge of its on-premise Software configuration to provide relevant information to enable Siemens' Support to reproduce, troubleshoot and resolve the experienced error such as, by way of an example, instance name, username, form name and screenshot. Such support services may require that Siemens gets access to Customer Content in which case, Customer is required to issue temporary Credentials to Siemens to permit that access.

Additionally, Siemens may provide an emergency phone number for major system incidents for customers upon request.

Other Metrics

License Limitations:

The Customer is the single legal entity licensed to use the Software. Usage by subsidiaries of "Customer" or any other legal entity is prohibited, unless otherwise specified in the Order Form.

Software usage is limited to the Customer and Customer's full-time employees unless otherwise specified in the Order Form.

Customer shall not use the Program to create, provide or offer, any derived products to any third party. Temporary sub-licensing and related usage of the Program is prohibited. This includes all possible use cases including but not limited to offering use of the Program to third parties as software as a service.

Customer shall not use, nor permit any third party to use, the Licensed Software or any portion thereof to train, fine-tune, or otherwise develop or permanently or temporarily improve any artificial intelligence systems not provided by us, including but not limited to large language models, machine learning algorithms, or other self-learning technologies ("Restricted AI Use"). This restriction applies regardless of whether such use is for internal, commercial, academic, or research purposes."

The following elements are explicitly detailed in the Order Form:

- Software, Software Package, program module configuration.
- Software version(s)
- Number of cores/logical processors
- Quantity of licensed users/copies for use by individual or concurrent users.
- License Type
- Usage Type
- Geographic/Site Limitations: Site usage restrictions apply to software usage. These limitations are specified in the Order under "Site Usage".

Export control regulations

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