

GRID SIMULATION

# PSS<sup>®</sup>E Hybrid Cloud Product Sheet

PSS<sup>®</sup>E Hybrid Cloud provides transmission planning simulation capabilities over the cloud that enables users with on-demand computation power from their PSS<sup>®</sup>E desktops to accelerate daily tasks and simulate even the most complex scenarios with shorter wait times. The PSS<sup>®</sup>E desktop application has built-in access to Hybrid Cloud capability that, when subscribed, calls PSS<sup>®</sup> Cloud on-demand using Cloud APIs directly from a PSS<sup>®</sup>E's desktop software.

[siemens.com/pss-e-cloud](https://www.siemens.com/pss-e-cloud)

**SIEMENS**

# PSS<sup>®</sup>E Hybrid Cloud Product Sheet

## (Documentation)

### General

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Value Proposition	<p>Siemens PSS<sup>®</sup>E Hybrid Cloud supports PSS<sup>®</sup>E users in the following areas:</p> <ul style="list-style-type: none"> <li>Securely access the cloud from on-premise PSS<sup>®</sup>E for a simulation boost on-demand using cloud computation power to accelerate daily tasks and simulate even the most complex scenarios with shorter wait times.</li> <li>Avoid high costs associated with implementing and maintaining extra servers, IT infrastructure, setups or costs or managing cloud accounts. With PSS<sup>®</sup>E Hybrid Cloud, users can leverage the cloud to easily scale based on business needs without complex server setups.</li> <li>Leverage both on-premise and cloud-based access to PSS<sup>®</sup>E for enhanced reliability and availability.</li> <li>No permanent storage of CEII critical data on the cloud, reducing security concerns without sacrificing the benefits of cloud software.</li> </ul>
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Territory	<p>Refers to the geographic area of:</p> <ul style="list-style-type: none"> <li>Canada</li> <li>United States of America</li> </ul>
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Additional countries may be included by Siemens upon request.

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### Description & Functionalities

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PSS <sup>®</sup> E Hybrid Cloud	<p>PSS<sup>®</sup>E Hybrid Cloud runs on PSS<sup>®</sup> Cloud and allows the desktop version of PSS<sup>®</sup>E to use Cloud APIs to send simulations from the desktop to the cloud for additional computation power on demand.</p>
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PSS<sup>®</sup>E Hybrid Cloud is available as an option for the PSS<sup>®</sup>E desktop version.

As a pre-requisite, PSS<sup>®</sup>E desktop term subscription version 36.2.0 or above is a pre-requisite before using PSS<sup>®</sup>E Hybrid Cloud. Besides, the Customer needs to update at its expense its PSS<sup>®</sup>E on-premise version to the current PSS<sup>®</sup>E Hybrid Cloud version available.

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PSS®E Hybrid Cloud Basic Package    The PSS®E Hybrid Cloud Basic Package allows the simulation of the following PSS®E Modules from PSS®E Desktop through Cloud APIs.

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

The descriptions of the PSS®E Modules in the Basic Package can be found in the Modules section of the following PSS®E website:

[www.siemens.com/pss-e](http://www.siemens.com/pss-e)

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PSS®E Hybrid Cloud Standard Package    The PSS®E Hybrid Cloud Standard Package allows the simulation of the following PSS®E Modules from PSS®E Desktop through Cloud APIs.

- All Modules in the PSS®E Hybrid Cloud Basic Package plus:
- Line Properties
- Dynamic Analysis
- Short Circuit Analysis

The descriptions of the PSS®E Modules in the Standard Package can be found in the Modules section of the PSS®E website:

[www.siemens.com/pss-e](http://www.siemens.com/pss-e)

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PSS®E Hybrid Cloud Advanced Package    The PSS®E Hybrid Cloud Advanced Package allows the simulation of the following PSS®E Modules from PSS®E Desktop through Cloud APIs.

- All Modules in the PSS®E Hybrid Cloud Standard Package plus:
- Advanced Contingency Analysis and RAS
- Parallel Dynamics
- Optimal Power Flow
- Geomagnetically Induced Currents
- Advanced Linear Analysis

The descriptions of the PSS®E Modules in the Advanced Package can be found in the Modules section of the PSS®E website:

[www.siemens.com/pss-e](http://www.siemens.com/pss-e)

PSS®E Hybrid Cloud Expert Package      The PSS®E Hybrid Cloud Expert Package allows the simulation of the following PSS®E Modules from PSS®E Desktop through Cloud APIs.

- All Modules in the PSS®E Hybrid Cloud Advanced Package plus:
- Automated Grid Code Assessment
- Harmonics
- Time Series Power Flow

The descriptions of the PSS®E Modules in the Expert Package can be found in the Modules section of the PSS®E website:

[www.siemens.com/pss-e](http://www.siemens.com/pss-e)

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PSS®E Hybrid Cloud Trial Package	The PSS®E Hybrid Cloud Trial Package provides Expert Package functionalities and allows the simulation of PSS®E Expert modules from PSS®E Hybrid Cloud.
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Max Users	All PSS®E Hybrid Cloud packages will include the same number of users that are available on the on-premise PSS®E.
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The maximum users technically available are 300.

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Max Cores	All PSS®E Hybrid Cloud packages will include a maximum number of workers. The workers allow for parallelization of work on the cloud to provide the computational power to speed up simulations.
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The maximum number of workers available are 800.

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Computation Hours	The PSS®E Hybrid Cloud Packages will include computation hours as part of the subscription. These hours are used to run simulations on the cloud. These are monthly computation hours that are reset on the 1 <sup>st</sup> of each month and terminate at the end of the subscription term.
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The packages include 250 computation hours / month.

Additional computation hours can be added at any time during the subscription term. See Add-On Computation Hours for more details.

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Add On Computation Hours	PSS®E Hybrid Cloud Add-On Computation Hours can be added at any time during the subscription term. Computation hours are added to the existing monthly allocation every month for the remainder of the subscription term.
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The packages include 250 computation hours / month.

The cost of the Add-On is prorated based on when in the subscription term it is. Computation hours are reset at the first of each month and are not carried over.

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## Pricing Model

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Subscription Terms      The regular Subscription Term for the Offering are either

- a) 12 months with automatic renewal in accordance with Section 10.1 UCA for 12 months (default subscription period) or
- b) 36 months without auto-renewal and automatic termination after the expiry of the 36 months (subject to agreement in the Order).

The Subscription Term for No-Charge and Trial Offerings is limited to 1 (one) month and will automatically terminate after expiry of this one-month period unless a different date is agreed in writing by both parties.

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Payment Terms            The fee for the booked subscription package is based on the payment options stated below:

- a) for a one-year subscription is invoiced annually in advance. Additional fees for any upgrades will be calculated on a daily basis and are fully invoiced immediately after activation.
- b) In the case of three-year packages paid upfront, the fee for the booked subscription is invoiced three-years in advance or invoiced annually as stated in the Order. If nothing is stated in the Order the fees will be invoiced in advance.

As per default the payment method is a).

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