

GRID SIMULATION

# PSS®E Cloud

## Product Sheet

PSS®E Cloud provides transmission planning simulation software over the cloud that enables users with on-demand computation power to accelerate daily tasks and simulate even the most complex scenarios with shorter wait times. Applications running on PSS®E Cloud can be directly streamed from a browser, accessed by a desktop app or by using a Cloud API.

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

**SIEMENS**

# PSS®E Cloud Product Sheet

## (Documentation)

### General

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#### Value Proposition

Siemens PSS®E Cloud supports you in four main areas:

- **Accelerate Simulations** - Tackle the growing number of simulation requirements without sacrificing accuracy. With PSS®E Cloud, users can now conveniently access on-demand computation power to accelerate daily tasks and simulate even the most complex scenarios with shorter wait times. The power of the cloud can be accessed directly in software through APIs or online.
- **Secure Collaboration** - With a few clicks, users can efficiently and securely store, share, and synchronize model data. PSS®E Cloud is secure by design and ensures that major cybersecurity best practices/standards are covered.
- **Flexible Remote Working** - With PSS®E Cloud, grid planning teams can sustain business continuity despite changing expectations. PSS®E Cloud can be accessed from anywhere within the Territory – users only need their secure login credentials with multi-factor authentication and a web browser.
- **Optimize Investments** - Avoid high costs associated with implementing and maintaining complex IT infrastructures. With PSS®E Cloud, users can easily scale based on business needs and get access to the latest software updates without complex approval processes. More precise budget planning can unlock new opportunities for expenditure.

#### Territory

Refers to the geographic area of:

- Canada
- United States of America

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Additional countries may be included by Siemens upon request.

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## Description & Functionalities

PSS® Cloud	<p>PSS® Cloud is a cloud-based software as a service offered by Siemens for planning, simulating, and collaborating study projects for the PSS® portfolio in the following ways:</p> <ul style="list-style-type: none"> <li>• PSS® Cloud App Streaming</li> <li>• PSS® Cloud API</li> </ul>
PSS® Cloud App Streaming	<p>The PSS® Cloud Apps Streaming allows users to securely launch cloud-based simulation software via a web browser without requiring any on-premise installation.</p> <p>Users can use the PSS® Cloud App Streaming functionality to perform study analysis, parallel distribution and securely collaborate on studies over the cloud as if the user was using an on-premise simulation software. This can be done with the PSS®E Cloud and other simulation tools in the future.</p>
PSS® Cloud API	<p>The PSS® Cloud provides Cloud APIs to allow users to use their existing pre-written scripts by working in the desktop application using Cloud APIs to offload the computational work to the cloud. This can be used with the PSS®E Cloud as well.</p>
PSS®E Cloud	<p>PSS®E Cloud is an application that runs on the PSS® Cloud. PSS®E Cloud simulation modules are the same as those provided with PSS®E desktop/on-premise version.</p> <p>The modules supported by PSS®E and their descriptions can be found at <a href="http://www.siemens.com/pss-e">www.siemens.com/pss-e</a></p> <p>PSS®E Cloud allows operators to perform analyses of power flow, dynamics, short circuits and much more through a cloud interface instead of using a PSS®E desktop version.</p> <p>The simulation modules available on the PSS®E Cloud depend on the packages purchased. Commercial definitions of the packages can be found in section PSS®E Cloud Packages.</p>
PSS®E Base Modules	<p>PSS® Cloud allows simulation of the following PSS®E modules:</p> <ul style="list-style-type: none"> <li>• Graphical User Interface and Contour Plotting</li> <li>• Power Flow</li> </ul>

- Contingency Analysis
- Voltage Stability (PV/QV) Analysis
- Python and IPLAN Scripting
- Transmission Reliability Assessment
- Model Management – Local Edition

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#### Basic Package

The PSS® Cloud Basic Package provides the following PSS®E Modules that can be used by PSS®E Cloud.

- PSS®E Base Modules

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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#### Standard Package

The PSS®E Cloud Standard Package provides the following PSS®E Modules that can be used by PSS®E Cloud.

- All Modules in 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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#### Advanced Package

The PSS®E Cloud Advanced Package provides the following PSS®E Modules that can be used by PSS®E Cloud.

- All Modules in 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)

Parallel Dynamics using PSS®E Cloud is more powerful than Parallel Dynamics using the PSS®E non-cloud solution. This is because Parallel Dynamics using the cloud allows for the distribution of work over more cores, which allows additional scenarios to be computed at the same time compared to the non-cloud solution.

**Expert Package**

The PSS®E Cloud Expert Package provides the following PSS®E Modules that can be used by PSS®E Cloud.

- All Modules in 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)

**PSS®E Cloud Packages****Packages**

Different Packages of the Offering are available. The Customer is only authorized to use the Offering in accordance with the package to which Customer has purchased.

<b>Package</b>	<b>Users</b>	<b>Monthly Hours</b>	<b>Workers</b>	<b>Terms</b>	<b>Renewed Automatically</b>
PSS®E Cloud Trial	1	100	32	1 month	No
PSS®E Cloud Basic 1	1	100	32	1 year	Yes
PSS®E Cloud Basic 3	3	175	32	1 year	Yes
PSS®E Cloud Basic 10	10	325	32	1 year	Yes
PSS®E Cloud Basic 30	30	500	32	1 year	Yes
PSS®E Cloud Standard 1	1	150	32	1 year	Yes
PSS®E Cloud Standard 3	3	250	32	1 year	Yes
PSS®E Cloud Standard 10	10	500	32	1 year	Yes
PSS®E Cloud Standard 30	30	825	32	1 year	Yes
PSS®E Cloud Advanced 1	1	250	32	1 year	Yes
PSS®E Cloud Advanced 3	3	375	32	1 year	Yes
PSS®E Cloud Advanced 10	10	750	32	1 year	Yes
PSS®E Cloud Advanced 30	30	1175	32	1 year	Yes
PSS®E Cloud Expert 1	1	325	32	1 year	Yes

PSS®E Cloud Expert 3	3	500	32	1 year	Yes
PSS®E Cloud Expert 10	10	1000	32	1 year	Yes
PSS®E Cloud Expert 30	30	1325	32	1 year	Yes
PSS®E Cloud Basic 1 – 3 Year	1	100	32	3 years	Yes
PSS®E Cloud Basic 3 – 3 Year	3	175	32	1 years	Yes
PSS®E Cloud Basic 10 – 3 Year	10	325	32	1 years	Yes
PSS®E Cloud Basic 30 – 3 Year	30	500	32	1 years	Yes
PSS®E Cloud Standard 1 – 3 Year	1	150	32	3 years	No
PSS®E Cloud Standard 3 – 3 Year	3	250	32	3 years	No
PSS®E Cloud Standard 10 – 3 Year	10	500	32	3 years	No
PSS®E Cloud Standard 30 – 3 Year	30	825	32	3 years	No
PSS®E Cloud Advanced 1 – 3 Year	1	250	32	3 years	No
PSS®E Cloud Advanced 3 – 3 Year	3	375	32	3 years	No
PSS®E Cloud Advanced 10 – 3 Year	10	750	32	3 years	No
PSS®E Cloud Advanced 30 – 3 Year	30	1175	32	3 years	No
PSS®E Cloud Expert 1 – 3 Year	1	325	32	3 years	No
PSS®E Cloud Expert 3 – 3 Year	3	500	32	3 years	No
PSS®E Cloud Expert 10 – 3 Year	10	1000	32	3 years	No
PSS®E Cloud Expert 30 – 3 Year	30	1325	32	3 years	No

## Pricing Model

### Subscription Terms

Different Subscription Terms of the Offering are available:

- **PSS®E Cloud Trial** where free access is provided for a period of one month to allow evaluation. Demonstration recordings and documentation are provided to support initial use. The subscription will automatically terminate after this one-month period.
- **“PSS®E Cloud 1 year”** is the regular subscription term for the PSS®E Cloud offering and is 12 months unless otherwise agreed in the

ordering process. The Subscription Term renews automatically in accordance with Section 10.1 UCA.

- **“PSS®E Cloud 3 year”** is a three-year subscription term for the PSS®E Cloud offering. The subscription will automatically terminate after expiry of the three-year period.

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**Payment Terms**

The fee for the booked subscription package 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.

In the case of three-year packages paid upfront, the fee for the booked subscription is invoiced three-years in advance.

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