

GRID SIMULATION

PSS®E Cloud X

Product Sheet

PSS®E Cloud X 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 X 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 X Product Sheet (Documentation)

General

Value Proposition

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

- **Accelerate Simulations** - Tackle the growing number of simulation requirements without sacrificing accuracy. With PSS®E X, 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 X is secure by design and ensures that major cybersecurity best practices/standards are covered.
- **Flexible Remote Working** - With PSS®E X, grid planning teams can sustain business continuity despite changing expectations. PSS®E Cloud X 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 X, 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

Additional countries may be included by Siemens upon request.

Description & Functionalities

| | |
|-----------------------------|--|
| PSS®E Cloud X | <p>PSS®E Cloud X 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"> • PSS®E Cloud X App Streaming • PSS®E Cloud X API |
| PSS®E Cloud X App Streaming | <p>The PSS®E Cloud X 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®E Cloud X 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 X and other simulation tools in the future.</p> |
| PSS®E Cloud X API | <p>The PSS®E Cloud X 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 X as well.</p> |
| PSS®E Cloud X | <p>PSS®E Cloud X is an application that runs on the PSS® Cloud. PSS®E Cloud X 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 www.siemens.com/pss-e</p> <p>PSS®E Cloud X 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 X depend on the packages purchased. Commercial definitions of the packages can be found in section PSS®E Cloud X Packages.</p> |
| PSS®E Base Modules | <p>PSS®E Cloud X allows simulation of the following PSS®E modules:</p> <ul style="list-style-type: none"> • 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

Basic Package

The PSS®E Cloud X 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

Standard Package

The PSS®E Cloud X 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

Advanced Package

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

- 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

Parallel Dynamics using PSS®E Cloud X 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 X Expert Package provides the following PSS®E Modules that can be used by PSS®E Cloud X.

- 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

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.

| Package | Users | Monthly Hours | Workers/User | Terms | Renewed Automatically |
|---------------------------|--------------|----------------------|---------------------|--------------|------------------------------|
| PSS®E Cloud X Trial | 30 | 1000 | 32 | 1 month | No |
| PSS®E Cloud X Basic 1 | 1 | 100 | 32 | 1 year | Yes |
| PSS®E Cloud X Basic 3 | 3 | 175 | 32 | 1 year | Yes |
| PSS®E Cloud X Basic 10 | 10 | 325 | 32 | 1 year | Yes |
| PSS®E Cloud X Basic 30 | 30 | 500 | 32 | 1 year | Yes |
| PSS®E Cloud X Standard 1 | 1 | 150 | 32 | 1 year | Yes |
| PSS®E Cloud X Standard 3 | 3 | 250 | 32 | 1 year | Yes |
| PSS®E Cloud X Standard 10 | 10 | 500 | 32 | 1 year | Yes |
| PSS®E Cloud X Standard 30 | 30 | 825 | 32 | 1 year | Yes |
| PSS®E Cloud X Advanced 1 | 1 | 250 | 32 | 1 year | Yes |
| PSS®E Cloud X Advanced 3 | 3 | 375 | 32 | 1 year | Yes |
| PSS®E Cloud X Advanced 10 | 10 | 750 | 32 | 1 year | Yes |
| PSS®E Cloud X Advanced 30 | 30 | 1175 | 32 | 1 year | Yes |
| PSS®E Cloud Expert 1 | 1 | 325 | 32 | 1 year | Yes |

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

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|---|---|------|----|--------|----|
| PSS®E Cloud X Expert 1 – 1 Year Promotion | 1 | 1000 | 64 | 1 year | No |
|---|---|------|----|--------|----|

Pricing Model

Subscription Terms

Different Subscription Terms of the Offering are available:

- **PSS®E Cloud X 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 X”** is the regular subscription term for the PSS®E Cloud X 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 X 3 year”** is a three-year subscription term for the PSS®E Cloud X offering. The subscription will automatically terminate after expiry of the three-year period.
- **PSS®E Cloud X (1 Year Promotion)** is a cloud subscription for the PSS®E Cloud X offering. It will automatically terminate after the expiry of 12-month 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.

In the case of three-year packages, the fee for the booked subscription can also be invoiced annually.

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