

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

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#### 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

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Additional countries may be included by Siemens upon request.

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## Description & Functionalities

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### PSS®E Cloud X

PSS®E Cloud X is a cloud-based software as a service running on the PSS® Cloud, which is offered by Siemens for planning, simulating, and collaborating study projects for the PSS® portfolio in the following ways:

- PSS®E Cloud X App Streaming
- PSS®E Cloud X API

PSS®E Cloud X simulation modules are the same as those provided by PSS®E desktop/on-premise version.

The modules supported by PSS®E and their descriptions can be found at [www.siemens.com/pss-e](http://www.siemens.com/pss-e)

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.

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 below.

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### PSS®E Cloud X App Streaming

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.

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.

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### PSS®E Cloud X API

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.

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### Basic Package

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

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

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

**PSS®E Cloud X 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 holds a valid subscription.

<b>Packages</b>	<b>Users</b>	<b>Monthly Computation Hours</b>	<b>Workers/User</b>
PSS®E Cloud X Trial	1	100	32
PSS®E Cloud X Basic 1	1	100	32
PSS®E Cloud X Basic 3	3	175	32
PSS®E Cloud X Basic 10	10	325	32
PSS®E Cloud X Basic 30	30	500	32
PSS®E Cloud X Standard 1	1	150	32
PSS®E Cloud X Standard 3	3	250	32
PSS®E Cloud X Standard 10	10	500	32
PSS®E Cloud X Standard 30	30	825	32
PSS®E Cloud X Advanced 1	1	250	32
PSS®E Cloud X Advanced 3	3	375	32
PSS®E Cloud X Advanced 10	10	750	32
PSS®E Cloud X Advanced 30	30	1175	32

PSS®E Cloud Expert 1	1	325	32
PSS®E Cloud X Expert 3	3	500	32
PSS®E Cloud X Expert 10	10	1000	32
PSS®E Cloud X Expert 30	30	1325	32

## Pricing Model

### 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.

### 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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