

# Gridscale X Advanced Protection Assessment

## Product Sheet

### Documentation

#### General

##### Value Proposition

Gridscale X Advanced Protection Assessment empowers protection engineers at transmission and large distribution utilities to protect grids effectively and reliably despite evolving generation and increasing volatility. The simulation software supports them throughout their entire workflow, encompassing protection analysis and studies, electronic setting management, automatic setting calculations, and validation depending on the product configuration. With an extensive library of over 7,300 highly-detailed relay models and a range of modular protection tools, engineers can easily manage complex network data, identify potential issues in their protection system, and seamlessly examine mitigation solutions.

Advanced Protection Assessment includes an option to streamline protection system reliability assurance and compliance analysis, encompassing wide-area coordination studies. It offers seamless access to database-stored data, simplifying data collection and management. By utilizing Advanced Protection Assessment, protection engineers can significantly reduce their workload, save costs and time, and have peace of mind as they are fully supported by outstanding maintenance services and continuous product enhancements.

#### Delivery

Siemens makes Software available to Customer via electronic download from our delivery website. Delivery location will be provided with the software deliverables.

#### Description & functionalities

##### Functionalities

The core modules of Advanced Protection Assessment may include detailed protection data collection, electronic relay setting importing, automatic relay setting calculations, and protection coordination evaluation, testing and

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|                                            | validation of relay settings. Protection simulation in steady-state short circuit and transient stability environments is possible in the Advanced Protection Assessment software. Evaluation of compliance with regulatory mandates for protection reliability is offered as an option. Line parameter computation based on line geometry arrangement and cable type is included in some configurations. Further details can be found on the Advanced Protection Assessment website at <a href="https://www.siemens.com/apa">https://www.siemens.com/apa</a> .                                                                                                                                                                                                                                |
| Restrictions                               | Customer acknowledges that Advanced Protection Assessment 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. |
| <b>Cybersecurity and maintenance</b>       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Certificates                               | Cybersecurity certificates like ISO 27001 can be found on Siemens Grid Software's website at <a href="https://www.siemens.com/global/en/general/system-certificates/si-gsw.html">https://www.siemens.com/global/en/general/system-certificates/si-gsw.html</a> . 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 manage security risks and help keep systems protected, Siemens discloses the required information necessary to assess the impact of a security vulnerability under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> .                                                                                                                                                                                                                                                            |
| Maintenance                                | <p>The maintenance services for Advanced Protection Assessment are structured under the following licensing model:</p> <p>1) Subscription Licenses:</p> <ul style="list-style-type: none"> <li>○ Maintenance services <ol style="list-style-type: none"> <li>1. are inherently integrated.</li> <li>2. apply to the current version of the software.</li> <li>3. are automatically included as per the maintenance terms specified in the <b>Order Form</b>.</li> </ol> </li> </ul>                                                                                                                                                                                                                                                                                                            |
| <b>Entitlement Metrics and Limitations</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| License Model                              | Advanced Protection Assessment software is available through the following licensing model, with the specific license period being defined in the <b>Order Form</b> :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

1) Subscription License

- Time-limited usage rights
- Renewable licensing model

The specific Subscription limitations are explicitly detailed in each Customer's individual **Order Form** documentation.

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License Type

The two license types available for Advanced Protection Assessment software licenses, which are based on the package type and also specified on the **Order Form**, are as follows:

- 1) Local. Single user bound to one computer. Does *not* include Virtual Machine.
- 2) Network. Multiple users accessing licenses through a network server or machine. A continuous connection to the network license server is required, except as noted below for Borrowable. Exclusively includes:
  - Virtual Machine. Allows housing of licenses via software-based version versus a physical machine.
  - Borrowable. 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.

May also include, via notation in **Order Form**:

- Consulting Rights. Allows Customer to loan licenses to external engineers (e.g., consultants). Licenses loaned to others count towards the number of "Concurrent Users", as further defined below.

All license types are designated as "Concurrent User" licenses, allowing a set number of individuals, defined by the License Quantity, to use the software at any given time. If the maximum number of licensed Concurrent Users is reached, additional users must wait until an existing user logs out before gaining access.

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Subscription Term, Renewal and Cancellation

1) Term

- Customer may choose an initial Subscription Term of no less than one (1) year and up to a maximum of three (3) years.
- The Subscription Term will begin on the date of license delivery, unless stated otherwise in **Order Form**.

2) Renewal

- No automatic renewal.
  1. All renewals require a new quote with current pricing and the desired renewal Term length.

3) Cancellation

- All Subscription commitments are non-cancellable and non-refundable.

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| Usage Type          | <p>Commercial Usage – Utility Customers may use Software for the purpose of analysis of electric power networks and its associated protection system.</p> <p>Consulting Usage – Consultant Customers may use Software for the purpose of analysis of electric power networks and its associated protection system.</p> <p>Academic Usage – As part of the University Program, the Software may be used for the sole purpose of education and academic classroom instruction, and internally funded research. Externally funded research or commercial use requires a Commercial Usage license.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assignment/Transfer | <p>Upon prior approval of Siemens, which shall not be unreasonably withheld, Customer may assign its rights, duties and obligations per the Terms and Conditions outlined in the <b>Order Form</b> to any entity located within the same country of the Customer into which Customer may be merged or reorganized or to which all or a portion of Customer's assets may be sold or assigned. Customer must have an active software license and currently be under Maintenance to be eligible for any assignment. Transfers will be subject to a handling fee by Siemens.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Third-Party Terms   | <p>Applicable Third-Party Terms are accessible via the installer with delivery of the Advanced Protection Assessment license.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Software Type       | <p>By default, Advanced Protection Assessment falls under:</p> <p><input checked="" type="checkbox"/> Other Software Types <input type="checkbox"/> Engineering Software</p> <p>Important Note: The software is generally classified as "Other Software Types" unless explicitly specified otherwise in the <b>Order Form</b>. Any deviation from this default classification (i.e., designation as Engineering Software) must be clearly stated in the <b>Order Form</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Other Metrics       | <p>Version Availability: Advanced Protection Assessment software is exclusively provided in its most current version, as specified in the <b>Order Form</b> and as determined by the date of delivery. New releases and software updates are made available to all current Subscription customers. Siemens does not provide maintenance and support on previous versions of Advanced Protection Assessment software.</p> <p>Geographic/Site Limitations: Site usage restrictions apply to the software usage. These limitations are specified in the <b>Order Form</b> under "Site Usage".</p> <p>License Specifications:</p> <p>The Customer is the single legal entity licensed to use the Software. Usage by a subsidiary or another legal entity is prohibited, unless otherwise specified in the <b>Order Form</b>.</p> <p>Software usage is limited to 1) Customer's employees regardless of an employee's location and 2) Customer's subcontractors only while working on projects for Customer at Customer's facilities, unless Customer's license includes Consulting Rights (see section on License Type).</p> <p>The following elements are explicitly detailed in the <b>Order Form</b>:</p> <ul style="list-style-type: none"> <li>• License Configuration, including <ul style="list-style-type: none"> <li>○ software package with included and additional optional software modules</li> <li>○ license quantity, also referred to as Concurrent Users</li> </ul> </li> <li>• Software Version</li> </ul> |

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- Number of Buses
  - License Type
  - Usage Type
  - Site Usage
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**Export control regulations**

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