

Gridscale X Dynamic Line Rating

Documentation

General

Value Proposition

Gridscale X Dynamic Line Rating is a software to calculate ratings periodically and on-demand based on ambient conditions for overhead lines. The dynamically adjusted ratings unlock hidden grid capacity and support grid operators in increasing power flows to a level that thermal limits of assets are not exceeded. The calculation covers standard algorithms like IEEE 738 and integrates weather data coming from a weather data provider. Various weather parameters can be considered, ambient temperature, wind speed and direction, solar radiation, etc.

Delivery

Siemens makes software available to customers via electronic download. All components will be provided via JFrog repository of Siemens (<https://distribution.gridscale-x.siemens.com>). Access credentials are provided by mail to the appointed contact details by customer.

Version availability: Gridscale X Dynamic Line Rating is exclusively provided in its current version, as determined by the date of delivery.

Description & functionalities

Functionalities

Gridscale X Dynamic Line Rating offers a variety of capabilities: calculation of ratings based standard algorithm, scheduled and on-demand jobs, connection to weather data provider, creation of look-up tables, import of equipment data and geo-locations based on CIM, dashboard to analyse calculated results and a REST API for integration. Further Details can be found on the [Gridscale X Dynamic Line Rating Homepage](#).

Restrictions

You acknowledge that Gridscale X Dynamic Line Rating is a calculation software program. The calculation results are limited to input data of the equipment, geographical locations and the data from external weather data provider. The algorithms have been created by Siemens based on experience and standards. However, the data or other information provided by the customer and/or external providers and results may not fully correspond to the real-world behaviour. The interpretation, implementation and utilization of results is the sole responsibility of the Customer. Siemens does not assume any liability, warranty, or guarantee for the feasibility or usability of results, nor for actions or omissions based on these.

Cybersecurity and maintenance

Certificates	Cybersecurity certificates like ISO 27001 can be found on Siemens Grid Software's website (https://www.siemens.com/global/en/general/system-certificates/si-gsw.html). 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 managing security risks and help keep systems protected, Siemens discloses the required information necessary to assess the impact of a security vulnerability under www.siemens.com/cert .
Maintenance	The maintenance services for Gridscale X Dynamic Line Rating are inherently integrated and applicable Terms and Conditions for maintenance are referred to in the Order. Siemens does only maintain the latest available versions of Gridscale X Dynamic Line Rating.

Entitlement Metrics and Limitations

License Type	Gridscale X Dynamic Line comes with a server based, on-premises Single license.
License Term	Gridscale X Dynamic Line Rating is available through the following licensing models: Term/Subscription License ○ Time-limited usage rights without auto-renewal ○ Time-limited usage rights with auto-renewal The licensing and the specific terms are explicitly detailed in the Order
Software Type	By default, Gridscale X Dynamic Line Rating falls under: ☒ Other Software Types ☐ Engineering Software The software is generally classified as "Other Software Types" unless explicitly specified otherwise in the Order. Any deviation from this default classification (i.e., designation as Engineering Software) must be clearly stated in the Order.
Third-Party Terms	Applicable Third-Party Terms are accessible via ReadmeOSS file located in the installation/download folder of the delivery package.
Other Metrics	The geographical usage of the Gridscale X Dynamic Line Rating is limited to the seat of the Customer. The individual license is valid for a certain number of users and is limited to a certain number of line segments.

Export control regulations

AL	N
ECCN	N

