

Specific Documentation for Gridscale X™ LV Insights

LV Insights (www.siemens.com/lv-insights) is a modern low voltage management Cloud Service that enables users to monitor their low voltage grids, leveraging existing data to create a digital model of the low voltage grid, scale up grid planning processes and assessment of connection requests to keep pace with energy transition.

This Specific Documentation for Gridscale X™ LV Insights sets forth and amends the General Documentation for Gridscale X™ Cloud Services solely with regard to the Cloud Services of Gridscale X™ LV Insights (“LV Insights”).

Specific Documentation

General

Value Proposition

LV Insights supports grid planners of distribution systems in four main areas:

1. **Transparency:** Visibility in the lower end of the grid with observability of topology and grid state utilizing existing metering devices to make the most of the existing equipment. Sharing this information across multiple departments mapped to the topological grid model of LV Insights.
2. **Grid Digital Twin:** Build trustworthy grid models of the distribution grid and merged it with dynamic grid data is the foundation of a grid digital twin for simulation-ready grid models.
3. **Grid Impact Assessment:** Advanced data exchange and analytics to detect limit violations, enable potential grid segments being operated closer to their operational limits and optimize investment and asset management strategy.
4. **Grid Connection Request Assessment:** scale the process of technical assessment of grid connection requests with workflow engine, preparation of request specific simulation-ready grid models and automation of assessments with state-of-the art simulations engine and validated quick measures to in the low voltage grid.

Description & Functionalities

Use restriction

Customer acknowledges that insights provided by LV Insights are limited to the grid model based on the data, connectivity information, mapping of entities and telemetry provided by the Customer and results may not fully correspond to the real-world situation. 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.

Grid Connection Demand Interface
(preview-feature)

Grid Connection Demand Interface monitors and manages the lifecycle of connection requests within Gridscale X. It provides an API to external systems for sending and receiving events regarding connection requests, facilitating efficient grid planning and management.

Please note: Such module is currently only available as a Preview for internal testing purposes and is not ready for production use. Customer uses this module at its own risk and discretion.

Limitations

API Limits

API Limits included in the Gridscale X LV Insights Cloud Services Packages will be provided.