



PRODUCT SHEET

# Electrification X

## Load Management

Efficient and safe operation of EV charging stations, Dynamic Load Management and Remote Control  
[siemens.com/electrificationx](https://www.siemens.com/electrificationx)

**SIEMENS**

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# Overview

The larger your charging station network grows, the more challenging it is to offer the charging service in an efficient and reliable way. Electrification X - Load Management enables you to take the necessary actions directly using the Remote Control feature or by briefing your team on the ground.

Without any concerns or consequences for the operational business, a fully automatic, dynamic load management follows instantly power restraints from distribution network operator avoiding costly limit violations.

## Benefits of Load Management



Transparency of MV and LV asset health to reduce future CAPEX



Visualization of charging network status and load to increase uptime



Load management setpoints to manage peak demand



LV Feeder Remote Control to reduce maintenance costs



Early warning and alarms to increase availability



Holistic view on key performance indicators of the charging network

# Features

This chapter contains the packages, including features, that can be subscribed to within the feature set Load Management.

## Feature Station & Charger Monitoring

The Station and Charger Monitoring feature must be activated once per station.

It monitors the status of all general components such as transformers, medium-voltage and low-voltage incomer and peripheral elements like doors, smoke detectors and various temperatures. Furthermore, the overall load situation, charging and consumption patterns of the charging station can be monitored in a heatmap.

In case of incidents, the affected location will be shown on a map and in a list view, and alarms will be sent automatically to the operator and/or service crew according to configuration.

You can also monitor the status of all chargers and low-voltage feeders, including connection status, switching position, phase currents, power consumption and various temperatures. The load situation of a specific feeder or its charging and consumption patterns (as well as the alternative low-voltage feeder) can be monitored in the load profile view.

Comprehensive dashboard with widgets informs you about the key performance indicators that are influenced by load management like Top 10 sites by Peak demand, by power usage comparing P99 demand to Peak demand, by Throttled sessions.

## Feature

# Load Management Setpoints

The Load Management Setpoints feature add-on must be activated once per station.

The charging point operator can use this feature to remotely set a power limitation due to operational needs e.g., because of maintenance work. It also allows for the monitoring of the Distribution Network Operators power limit settings that are transmitted via the onsite controller.

In case of charger malfunctions that lead to power limit violations, it automatically sends alarms to the operators and/or service crew.

## Feature

# LV Feeder Remote Control

The LV Feeder Remote Control feature add-on must be activated once per station. It allows for the remote switching (open / close) of switches on low-voltage feeders, incomer and on the medium voltage switchgear, depending on the configuration in the onsite controller.

# Subscription

Standard subscription plan	Electrification X - Load Management
Functions	All
Subscription metric	<ul style="list-style-type: none"> <li>• Station &amp; Charger Monitoring per station per month</li> <li>• Load Management Setpoints per station per month</li> <li>• LV Feeder Remote Control per station per month</li> </ul>
Subscription term	Annually, auto-renewal
Billing term	Annually, payment in advance
Upscale	Effective immediately, pro-rated billing
Downscale/Cancellation	Effective with end of subscription term
Connected devices	To be purchased separately
Permitted users	Unlimited, Extended Use

The Electrification X - Load Management feature set subscription plan is the regular, scalable offering for this cloud service. The subscription term is twelve (12) months with automatic renewal; the cloud service fee is paid in advance. The subscription plan can be upscaled at any time and cloud service fees for upscales are calculated on a pro-rated basis. The customer can also scale down the cloud service effectively with the end of the current subscription term. The subscription fee will be adjusted for the upcoming billing term. The cloud service can be cancelled at any time, effective at the end of the current subscription term.

The subscription plan can be purchased in packages per station. The subscription plan assumes a station is referring to one substation at a unique postal address or geo coordinates.

Extended Use entitles the customer to authorize its affiliates and third parties to access and use the cloud services in accordance with the rights set out in the Terms and Conditions.

# Prerequisites

## Electrification X tenant

The Electrification X feature set is operated on an Electrification X tenant. Therefore, a tenant with an Electrification X Base Package is required. The Electrification X Base Package has a subscription term of 12 months and must be purchased together with the first Station & Charger Monitoring feature, if not otherwise already available and in operation.

It is necessary to purchase a subscription for Station & Charger Monitoring feature to activate the Load Management setpoints feature or the LV Feeder Remote Control feature.

## Supported connected devices

The cloud services are currently compatible with commercially available connected devices from Siemens. A description of the available connected devices is provided below.

A connected device must be purchased and installed on-premise at a site specified by the customer as agreed between the customer and Siemens to use the cloud service. Customer is responsible for installing the Connected Device at the site and any associated costs to perform cloud service in accordance with related documentation for the connected device.

List of supported connected devices:

SICAM A8000 based SICAM GridEdge & Dynamic Load Management\*

For order information, customer may contact its local sales representative.

## Web browser and viewing devices

Google Chrome and Microsoft Edge browsers have been tested and are recommended to be used to access the cloud service. Other modern standard web browsers will likely be compatible. A screen resolution of 1920 x 1080 pixels or higher is recommended for best user experience.

## Internet connection

The bandwidth of customer's internet connection influences the overall performance of the cloud service.

\*unless agreed otherwise in contract

# Ordering

## Ordering process for the subscription

To order the cloud service for the first time, customer must request a quote from its Siemens sales representative. Depending on the offering either with services, then customer will receive a link to his tenant, or without services, then the customer will receive a link to the shopping cart. In this case customer needs to (i) choose the payment options and (ii) accept the Terms and Conditions to start using the Cloud Service. The "Terms and Conditions" consist of the "Supplemental Terms Electrification & Automation", the Base Terms and the General Software and Cloud Supplemental Terms, the Acceptable Use Policy, the Siemens Data Processing Terms, this Product and Service Data Sheet and any other Supplemental Terms which may be referenced in either of the mentioned documents. Customer may upgrade, downgrade, and cancel the cloud services directly in the Subscription Manager store <https://subscribe.siemens.com>.

## Ordering connected devices

To order connected devices the customer may request a quote from its Siemens sales representative.

## Connected device

SIEMENS: SICAM A8000, SICAM 8 based SICAM GridEdge & Dynamic Load Management

## Ordering

For order information, customer may contact its local sales representative.

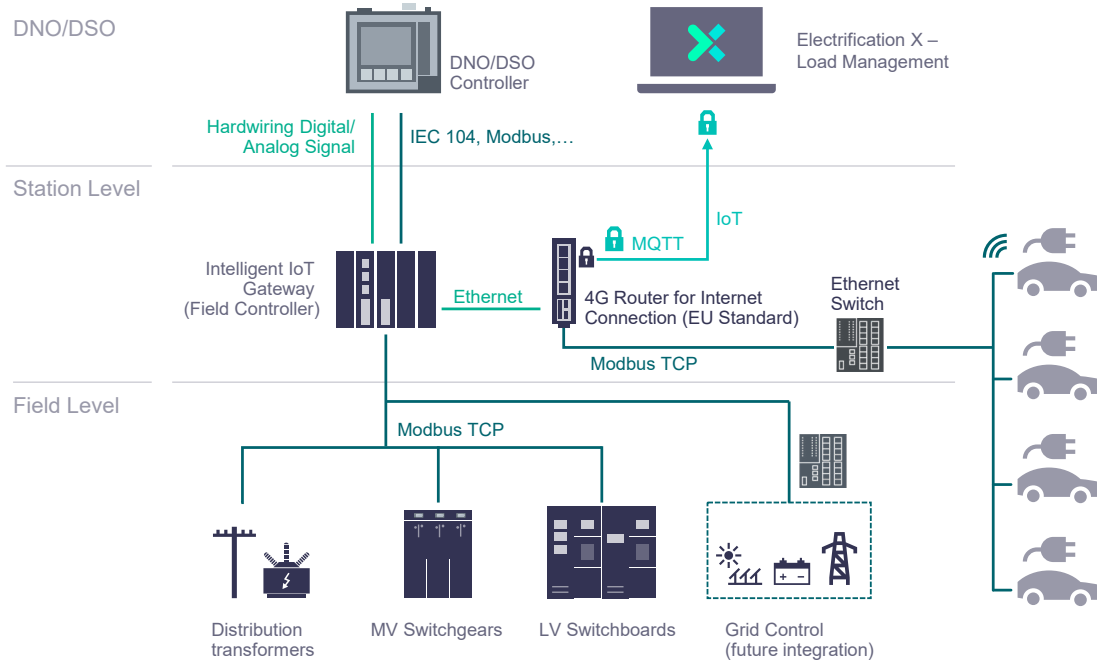
# Product documentation

Technical documents	Document ID German	Document ID English
Electrification X – General Package User Manual	E50417-H7500-C200-A1	E50417-H7540-C200-A1
Electrification X – Load Management User Manual	E50417-H7500-C201-A1	E50417-H7540-C201-A1
Electrification X – Engineering Guide	E50417-H7500-C203-A1	E50417-H7540-C203-A1
Electrification X – Security Manual	E50417-H7500-C204-A1	E50417-H7540-C204-A1
Electrification X – Protocols Manual	E50417-L7500-C200-A1	E50417-L7540-C200-A1

[↗ Technical documents can be downloaded here](#)

# Topology

## End-to-end cybersecurity



Data communication between the connected devices on-premise and the cloud service requires internet connectivity (to be provided by the customer).

## Key benefits



Increased up-time via remote access in case of failure



Avoiding unnecessary trips to EV-charging stations



Managing the load and preventing overloads / penalties

# Customer support

Siemens offers helpdesk support.

Customer may contact its local Siemens representative for support requests.

<https://isp.portal.siemens.com/>

Email: [support.ea.si@siemens.com](mailto:support.ea.si@siemens.com)

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**Published by**  
**Siemens AG**  
Smart Infrastructure  
Electrification & Automation  
Mozartstrasse 31c  
91052 Erlangen, Germany

**For the U.S.**  
**published by**  
Siemens Industry Inc.  
3617 Parkway Lane  
Peachtree Corners, GA 30092  
United States

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