

SICAM Localizer Package

Product Sheet



SICAM Localizer is a cloud-based application which enables power grid operators to monitor the operational status of their overhead line distribution grid networks. This application enables them to quickly locate faults by using SICAM Fault Sensor Indicator (FSI) & SICAM Fault Collector Gateway (FCG) devices thus optimizing the maintenance activities and reducing operational expenditure. The SICAM Localizer Package consists of the MindSphere application SICAM Localizer and selected MindSphere Resources which are required to access the Platform and to utilize the application.

Prerequisites	
Data Sources	<p>As of the date of release of this Product Sheet only the following Data Sources can be used to supply data to SICAM Localizer:</p> <ul style="list-style-type: none"> • SICAM FSI 6MD2314x via SICAM FCG (MLFB: 6MD2340-3JM71-8AA2) with minimum firmware version V2.30 • The SICAM FCG device is equipped with the IoT protocol driver" MCL Library"-Version 3.0. SICAM FCG has a built-in web-based UI which allows you to configure the parameters, display error and event log, upgrade firmware and download the configuration. <p>The configuration and onboarding of such SICAM FSI and FCG devices is not part of our Services. It is your responsibility to select, procure, configure, onboard and operate the SICAM FCG and SICAM FSI devices.</p>
Web browser and operating systems	<p>SICAM Localizer is a web-based application specifically optimized for use on Desktop PCs (Linux, Mac, Windows Operating systems) or smart phones that operate on Android OS (at least Android 7.0 or higher) that support Google Chrome web browser. The recommended screen resolution is 1920x1080 or higher. The application requires a recent version of Google Chrome, Mozilla Firefox or Opera. The use of Google Chrome is recommended.</p>
Internet connection	<p>A secure, stable internet connection is required to enable the SICAM FCG to connect and exchange data with MindSphere. The bandwidth of your Internet connection will determine your experience of the performance of the Services.</p>
Data access	<p>To access and use the application, data stored in your existing Account (e.g. Base Environment or MindSphere Capability Package Account) may be accessed by the application.</p>

Description of the SICAM Localizer application

General	<p>The SICAM Localizer application allows you to visualize and evaluate load currents at various points of your overhead line distribution grid feeder. The following views are provided as part of this application and are described in more detail below:</p> <ul style="list-style-type: none"> • Grid • Load Analysis • Fault • Event • Asset Configuration • Firmware Configuration
Grid	<p>In the Grid view, SICAM FCG locations are depicted geographically with an integrated Google Maps view. All locations with an active event (e.g. a fault) are highlighted in the map. On selection of any asset on grid page, you can view the asset details and all the associated active event list from the right-side panel. Alternately, you can select an active event from the right-side panel and the map will zoom to the respective device location belonging to that event. You can also visualize the section of the feeder line which is more prone to faults in Fault prone zone view by clicking on the Fault view icon. Additionally, you can acknowledge the alarm giving an indication to other Users that someone is taking care of the faulted section.</p>
Load Analysis	<p>In the Load Analysis view, you can analyze the performance of a selected feeder or a phase of the feeder in a configurable time frame. You can perform Load analysis using the following measured values: average current, maximum current, minimum current or instantaneous current. Graphical representation of current for the phases A, B, C [y-axis] in respective group and the date and time [x-axis] can be visualized on the PC/smartphone screen. Additionally, you can download a trend report in Excel format for your records / use.</p>
Faults	<p>In the Fault view, you can perform an easy analysis of temporary/permanent phase faults and di/dt faults which have occurred in the feeder. You can see the fault records associated with the fault event via the graphical representation (under the Trends tab of the Faults section) and in the tabular format (under the Reports tab of the Faults section). The duration of the Faults can be filtered by the date range. Additionally, you can also download a trend report in Excel format for your records / use.</p>
Events	<p>In the Events view, you can visualize a report of events which have occurred on phases A, B, C of the selected feeder (other than fault events) like voltage presence / absence, FSI Battery status. The duration of the Event Log can be set by a date range.</p>
Asset Configuration	<p>The Asset configuration functionality enables you to create Assets in SICAM Localizer that will receive, and report data associated with the devices (SICAM FCG/SICAM FSI). The creation of Assets is done by entering asset-related details and scanning the QR code on SICAM FCG/SICAM FSI via QR Code scanner /Mobile Camera connected to device running SICAM Localizer.</p>
Firmware Configuration	<p>With the Firmware Configuration functionality, you can remotely upgrade the firmware of the SICAM FSI and FCG devices. The SICAM FCG and FSI firmware is not part of the Services and you may download from the Siemens Internet page https://support.industry.siemens.com/cs/start?lc=en-WW or is distributed by the Siemens customer care representative or via sales channels.</p>
E-mail notifications	<p>Upon enabling the e-mail notifications, the User will receive periodic reports to the registered e-mail address. This e-mail includes:</p> <ul style="list-style-type: none"> • Fault Prone Zone report • Transformer overload report

SMS notifications	<p>The User can register a phone number for receiving SMS notifications in case of a fault. This SMS includes:</p> <ul style="list-style-type: none"> • The time stamp of the fault • The name of the Asset • Brief information about fault • A link to the FCG location in SICAM Localizer application.
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Description of MindSphere Resources

The following MindSphere resources (“MindSphere Resources”) are included in the SICAM Localizer Package or its extensions.

Base Environment	<p>The Base Environment provides you with a dedicated Account (also referred to as “Environment”) on MindSphere. It enables you to login to your Account via the respective URL provided by us and is required for use of the application and MindSphere Resources.</p> <p>The Base Environment includes 1 Admin User and provides you with the following administration tools available on the MindSphere Launchpad:</p> <ul style="list-style-type: none"> • Usage Transparency: provides information regarding your consumption of MindSphere Resources. • Agent Diagnostic: allows you to activate and deactivate agent logfiles and to access them. • Settings: allow managing Users, permissions, rights, roles, groups, Collaborations, and environment provider information. For every User, an individual login is required. Access policies are available only upon request. MindSphere sales representative or MindSphere Support to be contacted to enable use of access policies. • Asset Manager: use Asset Manager to onboard & offboard agents to your Account; to configure assets, asset types and aspect types; to manage the Sharing of assets under a Collaboration between Accounts using Cross-Tenancy. • Upgrade: can be used to order available upgrades (incl. add-ons) to already Offerings; to get an overview of requested and completed upgrades; to manage pending upgrade requests (authorized Users only). <p>The Base Environment provides you with the following connectivity “Connect your Things” capabilities as well:</p> <ul style="list-style-type: none"> • To connect assets using own PC as a gateway with MindConnect Software Agent. • To connect individual hardware using MindConnect API services, MindConnect MQTT Services, MindConnect OPC UA PubSub Services and MindConnect Library. • To use MindConnect Hardware e.g. MindConnect Nano, MindConnect IoT2040, MindConnect IoT2050. • Zero touch onboarding using MindConnect OPC UA PubSub Services and MindConnect MQTT Services. • To maintain connected devices by using MindConnect Device Management Services. <p>For more information regarding Connect your Things capabilities, please refer to the Product Sheet for MindSphere Capability Packages available at https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/MindSphere-Product-Sheets.</p>
Additional MindSphere Resources	<p>In addition to the Base Environment, the following MindSphere Resources are included on the SICAM Localizer Package and its extensions:</p> <ul style="list-style-type: none"> • Asset Attributes • File Storage • Notifications Email

- Notifications SMS
- Time Series Data Ingest Rate
- Time Series Data Storage

For general descriptions of the MindSphere Resources listed above, please refer to the MindSphere [Glossary](#).

SICAM Localizer Package Size Overview

Application subscription	SICAM Localizer Package Starter
Fee	See Order ¹
Billing cycle	Full amount in advance
The MindSphere Resources included in SICAM Localizer Package Starter are suitable to connect 5 SICAM FCG devices (each FCG connects with up to 3x FSIs) to the Platform.	
SICAM Localizer application	✓
Base Environment ²	✓
Asset Attributes	325
Time Series Data Ingest Rate	0.05 KB/s
Time Series Data Storage	5 GB
File Storage	1 GB
Notifications Email per month	1 000
Extension (for MindSphere Resources) (optional)	SICAM Localizer Package Device Extension 1
	Usage-based
Fee	See usage-based list ³
Billing cycle	Monthly in arrears
The SICAM Localizer Package Station Extension 1 contains the following additional MindSphere Resources and is suitable to connect 1 additional SICAM FCG with up to 3 x FSIs to the Platform. This extension can only be activated within the SICAM Localizer application.	
Asset Attributes	65 additional Asset Attributes
Time Series Data Ingest Rate	0.01KB/s additional Time Series Data Ingest Rate
Time Series Data Storage	1 GB additional Times Series Data Storage
Extension (for MindSphere Resources) (optional)	SICAM Localizer Package Device Extension 2
	Usage-based
Fee	See usage-based list ³
Billing cycle	Monthly in arrears
The SICAM Localizer Package Station Extension 2 contains the following additional MindSphere Resources and is suitable to connect 3 x FSIs to the Platform. This extension can only be activated within the SICAM Localizer application.	
Asset Attributes	36 additional Asset Attributes
Time Series Data Ingest Rate	0.01 KB/s additional Time Series Data Ingest Rate
Time Series Data Storage	1 GB additional Times Series Data Storage
Extension (for MindSphere Resources) (optional)	SICAM Localizer Package SMS Notifications Extension
	Usage-based
Fee	See usage-based list ³
Billing cycle	Monthly in arrears

The SICAM Localizer Package SMS Notifications Extension contains the following (additional) MindSphere Resources and is suitable to send 25 SMS Notifications. This extension can only be activated within the SICAM Localizer application.		
Notifications SMS per month	25 SMS notifications	
Extension (for Third-Party Resources) (optional)	SICAM Localizer Package Voice Call Notifications	
	Extension 1	Extension 2
	Subscription	
Fee	See Order ¹	
Billing cycle	Yearly in advance	
The SICAM Localizer Package Voice call Notifications extensions contain the following Third-Party Resources and are suitable to send 300 Voice Call Notifications (each extension). Dependent on the country of your Tenant (for more details see https://support.industry.siemens.com/cs/us/en/view/109817237), Extension 1 or Extension 2 will be available for you for purchase. Sending Voice Call Notifications leverages the Twilio Programmable Voice Service.		
Voice Call Notifications	300 Voice Call Notifications	300 Voice Call Notifications
¹⁾ Subscription-based pricing is set forth in the Order; ²⁾ You can decide if a Base Environment shall be created and provisioned to you as part of your SICAM Localizer Package Starter or if the SICAM Localizer Package Starter (without a Base Environment) shall be added to an existing Account (Base Environment or MindSphere Capability Package Account). A Package can only be added to an existing Account if the Account and Package are hosted in the same data center location. If you decide to add various Packages to one existing Account, please note the following: The MindSphere Resources included in the various Packages will be combined under one Account; it is your responsibility to allocate the MindSphere Resources to the various Packages according to your needs. The combination of MindSphere Resources under one Account may lead to technical limitations in their accessibility and should therefore not exceed the limits set out under https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/technical-limitations ; ³⁾ Usage-based fees are set forth in the Price List for Offerings with Usage-based Fees available at https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/usage-based .		

General	
Subscription Term for application	The standard Subscription Term for SICAM Localizer Package Starter is 12 or 36 months. The Subscription Term shall automatically renew if stated in the Order. Upon expiration of the Subscription Term for SICAM Localizer Package Starter without renewal, any upgraded MindSphere Resources will also be deactivated and cannot be used any longer.
Co-term (renewal and termination)	The Subscription Term for extensions (excluding usage-based extensions) will be co-termed with the Subscription Term of the application and therefore can be shorter than the standard Subscription Term. If an application subscription is terminated, the associated extensions will be terminated at the same time.
MindSphere Resources extension, activation and deactivation	Any of the usage-based extensions described herein may be activated or deactivated within the application at any time during a valid Subscription Term for SICAM Localizer Package Starter.
Extensions (usage-based)	Upon activation and until deactivation of the SICAM Localizer Package Device Extension 1 and Extension 2 and/or the SICAM Localizer Package SMS Notifications Extension within the application, the fee for the relevant extension is charged on a daily basis monthly in arrears. For further details about calculation of usage-based fees please refer to Usage-based Calculation Methods for MindSphere Applications available at https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/app-usage-based-calculation .
Payment Terms	The subscription fee for SICAM Localizer Package Starter is charged yearly in advance. The fee for usage-based extensions is charged monthly in arrears, if the cumulated fee exceeds the threshold of EUR 200 equivalent. If the cumulated fee for the usage-based extension does not exceed the threshold of EUR 200 equivalent, the fee will not be charged.
Service Level Agreement	The Monthly Availability for the SICAM Localizer Package is 95%. Monthly Availability is defined in the Cloud Services Support and Service Level Framework available on https://www.siemens.com/sw-terms/sla .

Third-Party Terms	The Third-Party Terms are made available via the following web link: https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms .
Support	Support is available 24 hours a day in English and German. Support requests can be addressed to the Customer Support Center (CSC) of Siemens: Phone: +49 911 2155 4466 For more information, refer to https://new.siemens.com/global/en/products/energy/contact.html .

Export Control Regulations

Applicable for SICAM Localizer application and MindSphere Resources.

AL	N
ECCN	N

Security Information

General	In order to protect plants, systems, machines and networks against cyber threats, it is necessary that you implement and continuously maintain a holistic, state-of-the-art industrial security concept.
Access credentials	Authentication and authorization on User level based on username and password.

Definitions

SICAM FSI	SICAM FSI is an overhead line sensor that clamps onto the overhead line distribution grids and measures the load currents where it is mounted. It also has user configurable thresholds settings beyond which it communicates anomalies out of turn. Additionally, the sensors communicate periodic load profile values to the SICAM FCG enabling the utilities to have the last-mile visibility of their overhead line feeders.
SICAM FCG	SICAM FCG is a pole mounted remote terminal unit that collects data from over short-range wireless radio communication from SICAM FSI units. The SICAM FCG is also equipped with an on-board GPRS modem which connects to the SICAM Localizer MindSphere application via the embedded MindConnect Library IoT Driver.
Voice Call Notifications	During an instance of a permanent fault or fault severity event at site, the User will receive voice calls on the subscribed mobile number as an intimation/ notification to the user to take necessary actions. The voice over in the voice call notification will mention the following details: date and time of the event, type and state of the event and name of the asset in the SICAM Localizer application.
General	Unless otherwise indicated, capitalized terms used in this document shall have the meaning given to them in this document or elsewhere in the Agreement. You may also want to check our Glossary .