SICAM Navigator Package

Product Sheet and Specific Terms

SICAM Navigator is a cloud-based application which enables power grid operators to monitor the operational status of transformer stations (cable networks) using station gateway devices to optimize maintenance activities and reduce operational expenditure (OPEX).

The SICAM Navigator Package consists of the MindSphere application SICAM Navigator and selected MindSphere Resources which are required to access the Platform and to utilize the application.

Prerequisites	
Data sources	As of the date of release of this Product Sheet and Specific Terms only the following station gateways can be used to supply data to SICAM Navigator application: • For SICAM A8000 CP-8050/CP8031 the required minimum protocol firmware version of "OPUPI0 AMQP/MQTT (IOT)" is V0301. • For SICAM A8000 CP-8000/CP-8021/CP-8022 the required minimum protocol firmware version of "OPUPT0 AMQP/MQTT (IOT)" is V0301. • For SIMARIS control gateway the required minimum software version is v1.0 The following SICAM A8000 engineering software can be used for the configuration of the IoT communication protocol: • SICAM TOOLBOX II v6.02 or higher • SICAM Device Manager v2.10 or higher • SICAM Web v5.10 or higher The configuration and onboarding of such station gateway devices is not part of our Services. It is your responsibility to select, procure, configure, onboard, and operate the station gateway devices. The measured value cycle of the station gateway devices shall be set to 30 seconds.
Software	The installation of a certificate manager application (e.g., SICAM GridPass) is required on your machine to create, sign, and renew certificates that are used for authentication and secure communication between the station gateway devices and your Account. SICAM GridPass is available for download at www.siemens.com/sicam-gridpass at separate terms and conditions that shall apply when you install the software.

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Web browser and operating systems	SICAM Navigator is a web-based application specifically optimized for use on Desktop PCs running Windows 10 or tablets running Google Android or Apple iPadOS operating systems. The recommended screen resolution is 1920x1080px or higher. The application requires at least a recent version of Android or iPadOS and a recent version of Google Chrome, Microsoft Edge, or Apple Safari.
Internet connection	A secure, firewalled Internet connection between your process LAN and the MindSphere MQTT Broker is required. The firewall must allow outgoing TCP-connections to port 8883. If your Internet router does not act as a DNS proxy or a DNS server, additionally the firewall must allow outgoing UDP connections to port 53. The bandwidth of your Internet connection will determine your experience of the performance of the Services.

Description of SICAM Navigator application

Map	Shows all digitalized transformer stations in a map view with the corresponding station status indicated by accordingly colored station icon. Additionally, latest unacknowledged alarms are shown in a list. The User can select an alarm from the list and the map will zoom to all stations belonging to that alarm. Additionally, non-digitalized stations can also be added to the map as "incoming feeder" or "normal station". The User can configure the power grid topology by connecting the stations to each other in the map.
Events	Shows a list of events for the selected station.
Single-line diagram	Shows a user configurable single line chart with the actual switch positions and measurement values.
Measurements	Shows the User selected measurement data of the connected station gateway devices in a timeline diagram. Measurement data from different station gateway devices can be displayed in the same diagram for comparison. The displayed time range can be selected.
Limit supervision	Shows the User upper and lower limits for warnings and alarms with colored plot lines in the measurements view. Up to four limits can be configured by the User for each data point.
Commands[1]	Allows a User with respective rights to control the status of connected assets. To use this feature, the station gateway devices need to be connected to the platform via MindConnect MQTT.
Load profile	Shows the User the load profile of a selected branch in a heatmap, load profile and timeline diagram. The displayed time range can be selected.
E-mail notifications	The User can register an e-mail address for receiving e-mail notifications in case of an alarm. This e-mail includes: • The name and the location of the station, • The name of the alarm, • A link to the station in Google Maps, • A link to the SICAM Navigator application.
SMS notifications[2]	The User can register a phone number for receiving SMS notifications in case of an event. This SMS includes: • The time stamp of the event, • The name of the station, • The name of the alarm, • A link to the SICAM Navigator application.

Application permissions	SICAM Navigator application is operated in data centers in the Area European Union and processes the following data:
	• Time series data which includes the variables received from an asset within defined continuous time cycles.
	• Asset configuration data which describes the asset (e.g., asset name, location).
	• Event data which includes the variables received from an asset.
	This application performs the following activities which modify or amend Your Content in your Account on your behalf:
	• Read uploaded device data from your data repository to evaluate and process certain information presented in different views in this application itself. This data will be stored to show the processed values in the different application views.
	• Update asset configuration data in order to use the functionalities of this application.
	• The device location will be stored in the device configuration section of your data repository if set via the SICAM Navigator application.
	• Store file data containing application settings.

[1] Available only with SIMARIS control gateway; [2] Please verify with your sales representative if SMS Notification Service is available for your region.

Description of MindSphere Resources

The following MindSphere resources ("MindSphere Resources") are included in the SICAM Navigator Package.

Base Tenant	The Base Tenant provides you with a dedicated Account (also referred to as "Tenant") 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.
	Base Tenant includes 1 Admin User and provides you with the following administration tools available on the MindSphere Launchpad:
	• Usage Transparency: provides information regarding your consumption of MindSphere Resources.
	• Settings: allow managing Users, permissions, rights, roles, groups, Collaborations, subtenants, and tenant provider information. For every User, an individual login is required. Users are also permitted to access and utilize the user management for the purpose of receiving a service from you. However, a user that receives a service from you shall not be granted with administration rights, except for administration rights that are offered by the user management of a subtenant.
	• Asset Manager: use Asset Manager to onboard & offboard agents to your Account; configure assets, asset types and aspect types; manage the Sharing of assets under a Collaboration between Accounts using Cross-Tenancy. The User that is entitled to administrate the Asset Manager may permit users of a subtenant who receive a service from you to directly access the Asset Manager in relation to the respective subtenant.
	• Upgrade: use Upgrade to order available upgrades to your subscribed and additionally available MindSphere Resources (e.g., increase Users or agents); get an overview of your requested and completed upgrades; manage pending upgrade requests (authorized Users only).
User	It allows a defined number of Users to access your Account and use the application.

Agent	An agent is a software as part of a hardware device (e.g., a station gateway device) or in the form of an application provided by Siemens or a Third Party which you connect to your Account and which can ingest data into your Account and send data to one or more asset instances.
Asset Type	Asset type describes the type of an asset (e.g., a measured value measured by a station gateway device) including one or several attributes. An asset type is a template that describes the attributes of a homogenous group of physical or logical assets, which is used for asset modeling. An asset type is a grouping of assets with common characteristics that distinguish those assets as a group or class.
Asset Instance	Asset instance reflects a physical and/or logical device within your Account, e.g., a specific silo within a plant would be an asset instance. Each instance belongs to an asset type (e.g., a measured value measured by a station gateway device).
Time Series Data Ingest Rate	Time series data ingest rate represents the rate at which the sensor data is ingested into the Platform (e.g., measured values from a station gateway device). Data ingest is based on number of assets, number of variables per asset, size per variable including overhead, read cycle interval and sending frequency. This depends on the size of the requests containing time series sent from the customer to the Platform. Time series data ingest rate is restricted to a maximum of 100 KB/s per asset.
Time Series Data Storage	Time series data storage represents the total volume of time series data (e.g., measured values from a station gateway device) ingested and stored in the Platform for an Account.
Notification	Sending SMS and/or e-mail leverages the MindSphere Notification Service. The terms and conditions set out in the MindSphere Supplemental Terms for Notification Service available on www.mindsphere.io/terms also apply to your use of notifications. With respect to SMS notification the number of notifications added to the Package determines how many SMS notifications you can trigger in total each month.
Subtenants	A subtenant is a certain limited resource of a tenant and represents a subpart of your own real-world organization or the real-world organization of a third party that receives a service from you. It is also used to assign applications and access to applications. Subtenants can be ordered by activating the SICAM Navigator Package Subtenant Upgrade within SICAM Navigator application and can be used by you to provide your customers with the SICAM Navigator as part of OEM Services as described in the *Specific Terms for MindAccess IoT Value Plan* available on www.mindsphere.io/terms. If you provide your customers with OEM Services, the *Specific Terms for MindAccess IoT Value Plan* available on www.mindsphere.io/terms shall apply accordingly as if you had subscribed to a MindAccess IoT Value Plan. In particular, your customer contract must, at a minimum, contain the full substance of the Minimum Terms (including the Acceptable Use Policy).

SICAM Navigator Package Overview

Base subscription	SICAM Navigator Package Starter
The MindSphere Resources included in the SICAM Navigator Package Starter are suitable to connect 1 station gateway device to the Platform with a maximum of 50 Data Points.	
SICAM Navigator application	✓

Base Tenant[1]	✔
Users	5
Agents	1
Asset Types	7
Asset Instances	58
Time Series Data Ingest Rate	0.09 KB/s
Time Series Data Storage	0.5 GB
Notifications per month	0 SMS notifications
MindSphere Resources upgrade (optional)	**SICAM Navigator Package Station Upgrade**
Fee	37 €[2]/month

The SICAM Navigator Package Station Upgrade contains the following additional MindSphere Resources and is suitable to connect 1 additional station gateway device to the Platform with a maximum of 50 Data Points. This upgrade can only be activated within the SICAM Navigator application.

Agents	1 additional Agent
Asset Instances	58 additional Asset Instances
Time Series Data Ingest Rate	0.09 KB/s additional Time Series Data Ingest Rate
Time Series Data Storage	0.5 GB additional Time Series Data Storage
MindSphere Resources upgrade (optional)	**SICAM Navigator Package 50 Stations Upgrade**
Fee	1 700 €[2]/month

The SICAM Navigator Package Station Upgrade contains the following additional MindSphere Resources and is suitable to connect 50 additional station gateway devices to the Platform with a maximum of 50 Data Points for each device. This upgrade can only be activated within the SICAM Navigator application.

Agents	50 additional Agents
Asset Instances	2 900 additional Asset Instances
Time Series Data Ingest Rate	4.5 KB/s additional Time Series Data Ingest Rate
Time Series Data Storage	25.0 GB additional Time Series Data Storage
MindSphere Resources upgrade (optional)	**SICAM Navigator Package 200 Stations Upgrade**
Fee	6 400 €[2]/month

The SICAM Navigator Package Station Upgrade contains the following additional MindSphere Resources and is suitable to connect 200 additional station gateway devices to the Platform with a maximum of 50 Data Points for each device. This upgrade can only be activated within the SICAM Navigator application.

Agents	200 additional Agent
Asset Instances	10 000 additional Asset Instances
Time Series Data Ingest Rate	18.0 KB/s additional Time Series Data Ingest Rate
Time Series Data Storage	100 GB additional Time Series Data Storage
MindSphere Resources upgrade (optional)	**SICAM Navigator Package Data Points Upgrade**
Fee	25 €[2]/month

The SICAM Navigator Package Data Points Upgrade contains the following additional MindSphere Resources and is suitable to send 50 additional Data Points for any station gateway device. This upgrade can only be activated within the SICAM Navigator application.

Asset Instances	55 additional Asset Instances
Time Series Data Ingest Rate	0.09 KB/s additional Time Series Data Ingest Rate
Time Series Data Storage	0.5 GB additional Time Series Data Storage
MindSphere Resources upgrade (optional)	**SICAM Navigator Package Notifications Upgrade**
Fee	12 €²/month

The SICAM Navigator Package Notifications Upgrade contains the following (additional) MindSphere Resources and is suitable to send 50 (additional) SMS Notifications. This upgrade can only be activated within the SICAM Navigator application.

Notifications per month	50 additional SMS notifications (corresponds to 25 Notification Modules)
MindSphere Resources upgrade (optional)	**SICAM Navigator Package Subtenant Upgrade**
Fee	9 €²/month

The SICAM Navigator Package Subtenant Upgrade contains the following MindSphere Resources and is suitable to add 1 Subtenant to your Tenant. This upgrade can only be activated within the SICAM Navigator application.

Subtenants	1 Subtenant

[1]You can decide if a Base Tenant shall be created and provisioned to you as part of your SICAM Navigator Package Starter or if the SICAM Navigator Package Starter (without a Base Tenant) shall be added to an existing Account (Base Tenant or MindAccess IoT Value Plan 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; [2]If a fee is displayed in a different currency on the product detail page for SICAM Navigator Package Starter on http://www.mindsphere.io/store in your country of residence at the date of activating any of the upgrades described herein, such displayed fee will be charged.

Specific Terms

Subscription Term for base subscription, termination	The initial Subscription Term for SICAM Navigator Package is 12 months. Following expiration of the preceding Subscription Term, the subscription automatically renews with a Subscription Term of 12 months at the then-current terms made available under www.mindsphere.io/terms, unless either Party notifies the other Party at least 60 days prior to the then-current expiration date that it has elected not to renew. Upon expiration of the Subscription Term for SICAM Navigator Package without renewal, any upgraded MindSphere Resources will also be deactivated and cannot be used any longer.
MindSphere Resources upgrade, activation and deactivation	Any of the upgrades described herein may be activated or deactivated within the application at any time during a valid Subscription Term for SICAM Navigator Package.
Payment terms	The subscription fee for SICAM Navigator Package is charged yearly in advance. Upon activation and until deactivation of an upgrade described herein, the fee for the relevant upgrade is charged on a daily basis monthly in arrears.
Data center location	Your Content processed by the MindSphere Resources is stored at rest in the Area European Union as set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms.

Adaptation of fees	The fees during any renewed Subscription Term will be the same as during the immediately prior Subscription Term, unless we notify you of a Fee Change at least 90 days prior to the end of the then-current Subscription Term, in which case the communicated Fee Change will be effective upon subscription renewal. During the Subscription Term, we may change or add new fees (collectively referred to as "Fee Change") due to and to the extent required to reflect: (i) changes in the quality or functionalities of the Service; (ii) material changes in market conditions; (iii) general increases in wages or other employment costs; and/or (iv) changes in procurement costs due to price changes made by our suppliers, in each case to the extent that the changes affect our provision of the agreed Service. We will notify you of any Fee Change at least 60 days in advance of the effective date of the Fee Change.
Service Level Agreement	The Monthly Uptime Percentage for the SICAM Navigator Package is 95%. Monthly Uptime Percentage is defined in the MindSphere Supplemental Terms available on www.mindsphere.io/terms.
Data use rights	During and after the Subscription Term, Siemens and its business partners may use Collected Data for Siemens' internal purposes, e.g., development and improvement of products and services. Use of Collected Data in accordance with this Section will be at Siemens' risk. Should Siemens divest substantially all of its assets of a business or should an Affiliate cease to be an Affiliate of Siemens AG, the purchaser of the divested business or the former Affiliate, respectively, may use the Collected Data received by such business or Affiliate before divestment, only as permitted in this Product Sheet and Specific Terms. "Collected Data" means the following data collected by this application: • Asset configuration data (asset name, location). • Time series data relating to device operation and configuration. • Processed data (KPIs, histograms, events, comments, plans). • Logs without personal data (app log, system log). You acknowledge that Collected Data may include copies made by the application from certain parts of Your Content for use in accordance with this Product Sheet & Specific Terms.
Third Party Terms	The application contains Third Party services, including open source software, or software-related managed services, which are subject to additional or different terms, license rights, or require certain notices by their licensor, which we are obliged to pass on to you as your licensor and to which you agree to abide ("Third Party Terms"). The Third Party Terms are made available via the following web link: https://sie.ag/MindSphere-ThirdParty_SICAMNavigator. In order to offer you certain location-based functions, we may use "Google Maps" (e.g., to display the asset's position or to let you obtain directions to your local Siemens point of contact). When you use Google Maps in a country of the European Economic Area or Switzerland, your personal data will be processed by Google Ireland Ltd., Gordon House, Barrow Street, Dublin 4, Ireland, otherwise by Google LLC, 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA (each referred to as "Google"). The processed personal data may include, inter alia, your device's IP address and your location. Location data can only be processed if you granted permission to access, or actively provided your location data within the SICAM Navigator application. The data controller responsible for the processing of your personal data in connection with Google Maps is Google; Google's privacy notice can be found at https://www.google.com/policies/privacy.

Changes to the Product Sheet and Specific Terms	We may update this document from time to time during a Subscription Term in order to reflect any changes agreed with or imposing by our subcontractors (including changes in open software license terms) or when we introduce new MindSphere Resources, features, supplements, enhancements or capabilities (e.g., that were not previously included with the subscription, but added for no additional fee). Changes shall become binding upon release of a new version for this document on www.mindsphere.io/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 Navigator 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

Data Point	Each signal configured on the IoT interface of the station gateway, e.g., measured values, alarms, switch positions or fault indications.
MindSphere Launchpad	After the login into your Account, the Launchpad appears. Similar like a desktop on any common operating system (OS), the MindSphere Launchpad facilitates starting various assigned applications. If you provide services to your customers, you must replace the Siemens service and support information provided in the MindSphere Launchpad with your companies' service and support information.
General	Unless otherwise indicated, capitalized terms used in this document shall have the meaning given to them in this Product Sheet and Specific Terms or elsewhere in the MindSphere Agreement.

www.mindsphere.io/terms