

# SIPROTEC Dashboard Package

## Product Sheet and Specific Terms



SIPROTEC Dashboard is a cloud-based application which enables power grid operators to monitor the operational status of their protection device fleet and optimize maintenance activities.

The SIPROTEC Dashboard Package consists of the MindSphere application SIPROTEC Dashboard 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 data sources can be used to supply data to SIPROTEC Dashboard application:

- SIPROTEC 5 devices with any firmware version. IEC 61850 on the integrated Ethernet port J or on an equipped Ethernet communication module, either in the base module (port E or port F) or for modular devices with communication extension module CB202 (port N or port P) can be used.
- SIPROTEC 4 / Compact devices with minimum firmware version V4.60. IEC 61850 on the EN100 communication module can be used. All hardware versions of the EN100 module with support of IEC 61850 can be used.

In order to connect one of the compatible data sources listed above, SICAM GridEdge with a minimum firmware version V2.4 is required.

Please note that one additional IEC 61850 client connection must be available in the protection relay.

The configuration and onboarding of such SIPROTEC devices is not part of our Services. It is your responsibility to select, procure, configure, onboard and operate the SICAM GridEdge and SIPROTEC devices.

In the SICAM GridEdge the "Siemens Grid Diagnostic Suite Profile" shall be used.

#### Software

The installation of a certificate manager application (e.g., SICAM GridPass Essential) is required on your machine to create, sign and renew certificates that are used for authentication and secure communication between the SICAM GridEdge and your Account. SICAM GridPass is available for download at [www.siemens.com/sicam-gridpass](http://www.siemens.com/sicam-gridpass) at separate terms and conditions that shall apply when you install the software.

Web browser and operating systems	SIPROTEC Dashboard is a web-based application specifically optimized for use on Desktop PCs running Windows 10, mobile phones or tablets running Google Android or Apple iOS/iPadOS operating systems. The recommended screen resolution is 1920x1080px or higher. The application requires at least a recent version of Android or iOS/iPadOS and a recent version of Google Chrome 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 SIPROTEC Dashboard Application

General	The SIPROTEC Dashboard application allows you to monitor the operational status of your protection device fleet and optimize maintenance activities. The following views are provided as part of this application and are described in more detail below: <ul style="list-style-type: none"> <li>• Map with alarm list</li> <li>• Faults</li> <li>• Measurements</li> <li>• Firmware</li> <li>• Station</li> <li>• Events</li> <li>• Device</li> <li>• Condition Monitoring</li> </ul>
Map	Shows all 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.
Faults	Shows a filterable list of all fault records in the grid. The fault records can be visualized and downloaded.
Measurements	Shows the User selected measurement data of the connected SIPROTEC devices in a timeline diagram. Measurement data from different SIPROTEC devices can be displayed in the same diagram for comparison. The displayed time range can be selected.
Firmware	Shows a filterable list of firmware versions of a protection relay in the grid. The firmware version of the mainboard and the communication module(s) of a SIPROTEC device will be shown.
Station	Shows all protection relays of the selected station. Every device is shown in a colored card indicating the device health state.
Events	Shows a list of events for the selected station.
Device	Shows device related information of the categories: <ul style="list-style-type: none"> <li>• Device status / information: shows the functions status with more details, the IEC 61850 / MindSphere communication status and device relevant information like manufacturer, device type, firmware versions, serial number, product code and hardware details. Additionally, all relevant information can be downloaded in one ZIP-file for customer support requests. This file includes</li> </ul>

	<p>depending on the availability the latest log files, fault records, setting changes and the device relevant information.</p> <ul style="list-style-type: none"> <li>• Log files: shows a filterable list of all available log files of the SIPROTEC 5 device with a minimum firmware version V7.90. The available log file types like fault, ground-fault, operational, setting-history, user, etc. are depending on the SIPROTEC 5 configuration and availability of the log file in the COMFEDE file via IEC 61850.</li> <li>• Setting changes: shows a list of settings changed during runtime of the SIPROTEC 5 device. Each entry includes all changed settings within a specific time frame with the old and the new value. The visibility of settings in IEC 61850 needs to be activated in the device via the Engineering tool DIGSI 5.</li> </ul>
Condition Monitoring	<ul style="list-style-type: none"> <li>• Circuit Breaker Statistics Shows the operation counter, the sum of breaking primary currents, and the inactivity of a circuit breaker in correlation with the configured values for the circuit breaker type and the warning and alarm levels.</li> <li>• Circuit Breaker Wear Monitoring Shows several wear monitoring values of a circuit breaker in correlation with the configured values for the circuit breaker type and the warning and alarm levels.</li> <li>• Switch Statistics Shows the operation counter and the inactivity of a switch in correlation with the configured values for the switch type and the warning and alarm levels. Circuit breaker and switch typicals can be created, updated, and assigned to primary assets.</li> </ul>
Settings	Shows a set of changed settings monitored via IEC 61850 and in case of SIPROTEC 4 and Compact monitored via DIGSI 4.
E-mail notifications	<p>The User can register an e-mail address for receiving e-mail notifications in case of an event. This e-mail includes:</p> <ul style="list-style-type: none"> <li>• The name of the station and the device,</li> <li>• The name and the time stamp of the event,</li> <li>• A link to the station in Google maps,</li> <li>• A link to the SIPROTEC Dashboard application.</li> </ul>
SMS notifications	<p>The User can register a phone number for receiving SMS notifications in case of an event. This SMS includes:</p> <ul style="list-style-type: none"> <li>• The time stamp of the event,</li> <li>• The name of the station and the device,</li> <li>• The type of event,</li> <li>• A link to the SIPROTEC Dashboard application.</li> </ul>
Application permissions	<p>SIPROTEC Dashboard application is operated in data centers in the Area European Union and processes the following data:</p> <ul style="list-style-type: none"> <li>• Time series data which includes the variables received from an asset within defined continuous time cycles.</li> <li>• Asset configuration data which describes the asset (e.g. asset name, location).</li> <li>• Event data which includes the variables received from an asset.</li> <li>• File data which includes the files received from an asset.</li> </ul> <p>The application performs the following activities which modifies or amends Your Content in your Account on your behalf:</p> <ul style="list-style-type: none"> <li>• Evaluate and process information presented in different views within this application and modifying event data.</li> <li>• Update asset configuration data in order to use the functionalities of this application.</li> </ul>

- Store file data containing application settings.

## Description of MindSphere Resources

The following MindSphere resources (“MindSphere Resources”) are included in the SIPROTEC Dashboard Package.

Base Tenant	<p>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.</p> <p>Base Tenant includes 1 Admin User and provides you with the following administration tools available on the MindSphere Launchpad:</p> <ul style="list-style-type: none"> <li>• Usage Transparency: provides information regarding your consumption of MindSphere Resources.</li> <li>• 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.</li> <li>• Asset Manager: use Asset Manager to onboard &amp; 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.</li> <li>• 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).</li> </ul>
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. SICAM GridEdge and SIPROTEC 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	<p>Asset type describes the type of an asset (e.g. a measured value measured by a SIPROTEC 5) 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.</p> <p>An asset type is a grouping of assets with common characteristics that distinguish those assets as a group or class.</p>
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 SIPROTEC 5).
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 SIPROTEC 5). 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 SIPROTEC 5) ingested and stored in the Platform for an Account.
IoT File Storage	IoT File storage represents the total volume of files (e.g. COMTRADE and Log files) uploaded and stored in the Platform for an Account.
Event	An event documents the occurrence of a defined situation (e.g. relay trip events).
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 <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a> 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	<p>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.</p> <p>Subtenants can be ordered by activating the SIPROTEC Dashboard Package Subtenant Upgrade within SIPROTEC Dashboard application and can be used by you to provide your customers with the SIPROTEC Dashboard Package as part of OEM Services as described in the <i>Specific Terms for MindAccess IoT Value Plan</i> available on <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a>. If you provide your customers with OEM Services, the <i>Specific Terms for MindAccess IoT Value Plan</i> available on <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a> 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).</p>

## SIPROTEC Dashboard Package Overview

Base subscription	SIPROTEC Dashboard Package Starter
The MindSphere Resources included in the SIPROTEC Dashboard Package Starter are suitable to connect 1 SICAM GridEdge with 1 SIPROTEC device (including 1 current- and 1 voltage-measuring point) to the Platform with a maximum of 20 Data Points.	
SIPROTEC Dashboard application	✓
Base Tenant <sup>1</sup>	✓
Users	5
Agents	2
Asset Types	3
Asset Instances	25
Time Series Data Ingest Rate	0.08 kB/s
Time Series Data Storage	3.0 GB
IoT File Storage	0.5 GB
Events	2000

Notifications per month	0 SMS notifications
<b>MindSphere Resources upgrade (optional)</b>	<b>SIPROTEC Dashboard Package Station Upgrade</b>
Fee	40 €/month
The SIPROTEC Dashboard Package Station Upgrade contains the following additional MindSphere Resources and is suitable to connect 1 additional SICAM GridEdge and 1 additional SIPROTEC device (including 1 current- and 1 voltage-measuring point) to the Platform with a maximum of 20 Data Points. This upgrade can only be activated within the SIPROTEC Dashboard application.	
Agents	2 additional Agents
Asset Instances	25 additional Asset Instances
Time Series Data Ingest Rate	0.08 kB/s additional Time Series Data Ingest Rate
Time Series Data Storage	3.0 GB additional Time Series Data Storage
IoT File Storage	0.5 GB additional IoT File Storage
Events	2000 additional Events
<b>MindSphere Resources upgrade (optional)</b>	<b>SIPROTEC Dashboard Package Device Upgrade</b>
Fee	10 €/month
The SIPROTEC Dashboard Package Device Upgrade contains the following additional MindSphere Resources and is suitable to connect 1 additional SIPROTEC device (including 1 current- and 1 voltage-measuring point) to the Platform with a maximum of 20 Data Points. This upgrade can only be activated within the SIPROTEC Dashboard application.	
Agents	1 additional Agent
Asset Instances	25 additional Asset Instances
Time Series Data Ingest Rate	0.08 kB/s additional Time Series Data Ingest Rate
Time Series Data Storage	3.0 GB additional Time Series Data Storage
IoT File Storage	0.5 GB additional IoT File Storage
Events	2000 additional Events
<b>MindSphere Resources upgrade (optional)</b>	<b>SIPROTEC Dashboard Package Data Points Upgrade</b>
Fee	9 €/month
The SIPROTEC Dashboard Package Data Points Upgrade contains the following additional MindSphere Resources and is suitable to send 50 additional Data Points for any SIPROTEC device to the Platform. This upgrade can only be activated within the SIPROTEC Dashboard application.	
Asset Instances	55 additional Asset Instances
Time Series Data Ingest Rate	0.17 KB/s additional Time Series Data Ingest Rate
Time Series Data Storage	6.0 GB additional Time Series Data Storage
<b>MindSphere Resources upgrade (optional)</b>	<b>SIPROTEC Dashboard Package Notifications Upgrade</b>
Fee	1 €/month
The SIPROTEC Dashboard 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 SIPROTEC Dashboard application.	
Notifications per month	50 additional SMS notifications (corresponds to 25 Notification Modules)

MindSphere Resources upgrade (optional)	SIPROTEC Dashboard Package Subtenant Upgrade
Fee	9 €/month <sup>2)</sup>
The SIPROTEC Dashboard 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 SIPROTEC Dashboard application.	
Subtenants	1 Subtenant
<p><sup>1)</sup>You can decide if a Base Tenant shall be created and provisioned to you as part of your SIPROTEC Dashboard Package Starter or if the SIPROTEC Dashboard 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. 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 <a href="https://sie.ag/MindSphere_TechnicalLimitationsforUsageofMindSphereServices">https://sie.ag/MindSphere_TechnicalLimitationsforUsageofMindSphereServices</a>; <sup>2)</sup>If a fee is displayed in a different currency on the <a href="#">product detail page for SIPROTEC Dashboard Package Starter</a> on <a href="http://www.mindsphere.io/store">http://www.mindsphere.io/store</a> in your country of residence at the date of activating any of the upgrades described herein, such displayed fee will be charged.</p>	

Specific Terms	
Subscription Term for base subscription, termination	The initial Subscription Term for SIPROTEC Dashboard Package Starter 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 <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a> , 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 SIPROTEC Dashboard Package Starter 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 SIPROTEC Dashboard Package Starter.
Payment terms	The subscription fee for SIPROTEC Dashboard Package Starter 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 <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a> .
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 SIPROTEC Dashboard Package is 90%. Monthly Uptime Percentage is defined in the MindSphere Supplemental Terms available on <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a> .

<p>Data use rights</p>	<p>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.</p> <p>“Collected Data” means the following data collected by this application:</p> <ul style="list-style-type: none"> <li>• Asset configuration data (asset name, location).</li> <li>• Time series data relating to device operation and configuration.</li> <li>• Event data relating to device operation.</li> <li>• File data relating to device operation and configuration.</li> <li>• Processed data (KPIs, histograms, events, comments, plans).</li> <li>• Logs without personal data (app log, system log).</li> </ul> <p>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 &amp; Specific Terms.</p>
<p>Third Party Terms</p>	<p>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”).</p> <p>The Third Party Terms are made available via the following web link:  <a href="https://sie.ag/MindSphere-ThirdParty_SIPROTECDashboard">https://sie.ag/MindSphere-ThirdParty_SIPROTECDashboard</a>.</p> <p>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 SIPROTEC Dashboard 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  <a href="https://www.google.com/policies/privacy">https://www.google.com/policies/privacy</a>.</p>
<p>Changes to the Product Sheet and Specific Terms</p>	<p>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 <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a>.</p>
<p>Support</p>	<p>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  <a href="https://new.siemens.com/global/en/products/energy/contact.html">https://new.siemens.com/global/en/products/energy/contact.html</a>.</p>



## Export Control Regulations

Applicable for SIPROTEC Dashboard 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 measurand or counter value of SIPROTEC device sent to the Platform via SICAM GridEdge.
MindSphere Launchpad	After the login into your Account, the Launchpad appears. Similar to 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.
SICAM GridEdge	SICAM GridEdge acts as an IoT gateway for IEC 61850 enabled protection relays. It communicates to MindSphere via OPC UA PubSub protocol (MQTT). Through the usage of IEC 61850 in the process LAN no firmware, configuration and hardware changes are required in protection relays.
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.