

# NXpower Monitor

## Product Sheet and Specific Terms



**SIEMENS**

This MindSphere application NXpower Monitor enables you to visualize and monitor electrical Assets within a substation continuously from anywhere in the world, e.g. medium and low-voltage switchgears. NXpower Monitor is an application configurable for system and solution type of business, which involves more than one component and system.

Thanks to increased transparency, organizations can optimize their Operating Expenses (OPEX) and simultaneously achieve better risk management.

Prerequisites	
Subscription	A valid MindAccess IoT Value Plan (Small/Medium/Large) subscription is required.
Hardware	This application is only compatible with data provided through SICAM A8000 device series including CP-8031 and CP-8050 with support to SIAPP function (NXpower Monitor specific).
Software	<p>To enable communication with your MindAccess Account, the SICAM A8000 device needs to be equipped with the IoT protocol driver:</p> <ul style="list-style-type: none"> <li>• "OPUPIO AMQP/MQTT (IOT) and SIAPP (NXpower Monitor specific)" for SICAM A8000 CP-8050, CP-8031.</li> </ul> <p>The minimum protocol firmware version required is v03 or higher.</p> <p>The following SICAM A8000 engineering software can be used for the configuration of the IoT communication protocol (MindConnect Lib):</p> <ul style="list-style-type: none"> <li>• SICAM TOOLBOX II v6.02 or higher</li> <li>• SICAM Device Manager v2.10 or higher</li> <li>• SICAM Web v5.10 or higher</li> </ul> <p>SICAM A800 devices and their configuration and onboarding are not part of our Services.</p>
Web browser	An HTML5 capable Internet browser with latest version is required (e.g. Google Chrome). The recommended screen resolution is 1024x768 or higher.
Internet connection	<p>A secured, firewalled Internet connection (Port: 9400) between your process LAN and SICAM A8000 device is required to establish a connection to the NXpower Monitor application in MindSphere, in compliance with cybersecurity regulations.</p> <p>The settings shall be implemented in consultation with local IT expert and may vary based on the IT Infrastructure.</p>

The bandwidth of your Internet connection will determine your experience of the performance of the Services.

Description	
General	<p>NXpower Monitor supports Key Performance Indicator (KPI) calculation and monitoring of your time series and alarm data from electrical distribution Assets. Different views provide you with an overview of your substation Assets on different hierarchy levels.</p> <p>In addition to Asset Transparency included in the base subscription, two additional options (Maintenance View, Condition Monitoring) are available.</p>
Asset Transparency	<p>Asset Transparency consists of the geographic, management and operational view. This enables you to visualize and monitor electrical Assets within a substation continuously from anywhere in the world. Get an overview representation of all connected substations in a map view and select a substation to get a summary including high-level KPIs about connected Assets. You can deep dive into an Asset and all relevant data about different feeders and operational data of switchgear will be shown (operational view). You can monitor Asset performance through KPIs. The available data can be visualized in different charts with configurable time frame.</p> <p>In addition, Asset Transparency also provides a central repository system for documentation related to the connected Assets and substations, e.g. single line diagram, bill of material, dimensional drawings, maintenance reports, operational reports etc. as well as user manuals.</p> <p>Furthermore, Asset Transparency allows you to make comparisons between connected substations and Assets to find correlation and root causes in energy consumption data.</p>
Maintenance View	<p>Maintenance View provides deeper information about the alarms triggered from connected Assets, e.g. from protection relays, in addition with statistical analysis and trends of the alarms.</p> <p>You can register an email address for receiving email notifications in case of an alarm. This email includes:</p> <ul style="list-style-type: none"> <li>• The name and location of substation and/ or switchgear</li> <li>• The name of the alarm</li> </ul>
Condition Monitoring	<p>You get detailed information along with indications about the health status of the Asset based on condition monitoring such as temperature, humidity, circuit breaker and partial discharge monitoring based on the availability of the respective sensors. The information provided on the health status of the Assets is merely indicative and not binding to you. However, this can be used as guidance in assessing the risk associated with Assets. This might help customers in scheduling the maintenance as well as taking decisions regarding replacing the parts/components/Assets itself.</p>
Application permissions	<p>NXpower Monitor 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,</li> <li>• Event data received from an Asset,</li> <li>• Asset configuration data which describes the Asset (e.g. Name, location, energy budget),</li> <li>• User data (Username, email address, user rights granted, user role and language).</li> </ul>

	<p>The application performs the following activities which modify or amend Your Content in your MindAccess Account on your behalf: Read and write access on your time series and event data:</p> <ul style="list-style-type: none"> <li>• This application reads uploaded data from your data repository to evaluate and process certain information presented in different views,</li> <li>• This application requires read and write access on Asset configuration data,</li> <li>• This application uses your data to calculate KPIs, which are written back to your data repository.</li> </ul>
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## Pricing Model

Fee for	Base subscription (incl. Asset Transparency)	Maintenance View	Condition Monitoring
Price	300€ <sup>1)</sup> /month	100€ <sup>1)</sup> /month	200€ <sup>1)</sup> /month
Billing cycle	Yearly in advance	Monthly in arrears	
<sup>1)</sup> If a price is displayed in a different currency on the <a href="http://www.mindsphere.io/store">product detail page of NXpower Monitor</a> on <a href="http://www.mindsphere.io/store">http://www.mindsphere.io/store</a> in your country of residence at the date of buying the base subscription or activating a Maintenance View and/or Condition Monitoring, such displayed price will be charged.			
Base subscription fee	The base subscription allows access to the application and usage of Asset Transparency.		
Used-based fees for Maintenance View and Condition Monitoring	Additional fees will be applied on a monthly basis for activated Maintenance View and/or Condition Monitoring. These options can only be activated within the NXpower Monitor application.		
Payment terms	The subscription fee for the base subscription is charged yearly in advance. The usage-based fees for Maintenance View and Condition Monitoring are charged monthly in arrears based on the remaining number of days in the month. Example: Maintenance View is activated on the 20 <sup>th</sup> July. For the month July 12 days/31 days = 12/31 of the fee for Maintenance View is charged.		
Subscription Term for the base subscription, termination	The initial Subscription Term for the base subscription 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.		
Subscription Term for Maintenance View and Condition Monitoring, termination	<p>The Subscription Term for Maintenance View and/or Condition Monitoring is 1 month (rest of the month for first activation). Following expiration of the preceding Subscription Term, the subscription automatically renews with a Subscription Term of 1 month.</p> <p>You may terminate the subscription for Maintenance View and/or Condition Monitoring at any time by deactivating the option(s) in the application. In this case, the Subscription Term for Maintenance View and/or Condition Monitoring will not automatically be extended after it has expired, and the termination will become effective at the end of the month.</p> <p>Administrator of the NXpower Monitor application can activate or deactivate the Maintenance View and/or Condition Monitoring option(s).</p>		
Adaptation of fees	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 on procurement costs due to price changes made by our		

	<p>supplier, 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.</p> <p>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.</p>
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## Specific Terms

Service Level Agreement	The Monthly Uptime Percentage for this application is at least 90%. Monthly Uptime Percentage is defined in the MindSphere Supplemental Terms available on <a href="https://siemens.mindsphere.io/en/terms">https://siemens.mindsphere.io/en/terms</a> .
Data use rights	“Collected Data” means any information and data processed and monitored by NXpower Monitor in order to fulfil its functionality. You acknowledge that Collected Data may include copies made by the application from certain part of Your Content for use in accordance with this Product Sheet and Specific Terms. 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.
Third Party Terms	The application contains Third Party services, including open source software, commercial software, or software-related managed services, which are subject to additional or different terms, license rights, or require certain notices by their licensors, 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 for NXpower Monitor are made available via the following web link: <a href="https://sie.ag/MindSphere-ThirdParty_NXpowerMonitor">https://sie.ag/MindSphere-ThirdParty_NXpowerMonitor</a> .
Changes to Product Sheet & Specific Terms	We may update this document from time to time during a Subscription Term in order to reflect any changes agreed with or imposed by our subcontractors (including changes in open source license terms) or we introduce new features, supplements, enhancements or capabilities (e.g. that were not previously included with the subscription but added for no additional fee). These changes shall become binding upon release of a new version of this document on <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a> .
Notification Services	This application leverages MindSphere’s Notification Service for the sending emails. The terms and conditions set out in the Supplemental Terms for Notification Services available on <a href="http://www.mindsphere.io/terms">www.mindsphere.io/terms</a> also apply to your use of email notifications.
Support	Support may be contacted via the following email address: <a href="mailto:nxpowersupport@siemens.com">nxpowersupport@siemens.com</a> . Support is available in English.

## Export Control Regulations

AL	N
ECCN	EAR99

## Security Information

General	In order to protect substations, plant, systems, machines and networks against cyber threats, it is necessary that you implement and continuously maintain a holistic, state-of-the-art substation security concept.
Secure communication	Data transmission will be done via HTTPS protocol from Asset to your MindAccess Account.
Encryption standard	TLS 1.2 for communication between Asset and MindAccess Account is used.

## Definitions

Asset	An Asset is the logical representation of a thing which for the purposes of this application is e.g. a medium and low-voltage switchgear, transformer.
Variable	Data point of a configured Asset.
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.