Asset Performance Monitoring
Product Sheet and Specific Terms

Asset Performance Monitoring is a MindSphere application that allows you to track key operating parameters of industrial assets to detect and alert about deviations from normal operation conditions. Through Asset Performance Monitoring, you can use your machines' data to maximize up-time and availability of your machines as well as to increase operational transparency.

Prerequisites	
Subscription	A valid MindAccess IoT Value Plan (Small/Medium/Large) subscription with a MindAccess Account on the MindSphere infrastructure provider Amazon Web Services is required.
Web browser	An HTML5 capable Internet browser is required (e.g. Firefox, Edge, and Google Chrome). The recommended screen resolution is 1024x768 or higher. Mobile devices are supported through the use of HTML5 capable Internet browser.

Asset Performance Monitoring Overview	
Base subscription	
Sites	5
Active Rules[1]	100
High Value Assets	20
KPI Asset	20
Upgrade subscriptions (optional)	
Sites	2 additional Sites
Active Rules[1]	20 additional Active Rules
High Value Assets	20 additional High Value Assets
KPI Asset	20 additional KPI Assets

Trial (optional)	
Sites	2
Active Rules[1]	10
High Value Assets	10
KPI Asset	2

[1] Number of Active Rules is exclusive for the application.

Authorized limits	Should the actual usage of your application repeatedly exceed one or more of the applicable limits above (e.g. the number of Sites) and should you not order the appropriate upgrade for an additional fee, we reserve the right to suspend the Service. Other contractual rights and remedies remain unaffected.
Trial	"Trial" refers to an application that has been designated as a "trial" offering in the product description in the applicable Order Form. Any application delivered as a Trial is a "Free of Charge Service" as that term is defined in the MMA. We will notify you by email of the exact start and end date of the Subscription Term for the Trial ("Free Trial Period"). You may terminate the Trial at any time during the Free Trial Period by providing written notice to trial@mindsphere.io no later than 14 days prior to the end date of the Free Trial Period. We may terminate your access to the Trial at any time after receipt of your written termination notice. Termination of the Trial shall also result in termination of the respective corresponding paid subscription ordered. During the Free Trial Period, our standard support and service level obligations do not apply. We may however, at our sole discretion, make certain free of charge support services available to you. Upon expiration of the Free Trial Period, the Subscription Term for the respective corresponding paid subscription will begin, and you will be invoiced accordingly.

Asset Performance Monitoring - Modules	
Site(s) dashboard	Configurable intuitive Site(s) dashboard to enable remote monitoring of Assets. This enables you to: • Increase operational transparency across machines, systems and Sites. • Monitor warning signs from connected Assets based on occurrence of multiple operating conditions and their sequences. • Quickly identify frequently occurring events on Site.
Rule(s)	Define, activate and manage *Single Condition Rule* and *Multiple Condition Rule* based on IoT time series data from Assets. This enables you to: • Detect a pattern of anomalies from normal operating conditions from multiple Assets. • Change from reactive to proactive maintenance practices that lead to reduction in cost of repairs or replacement.
High Value Assets	Configure and monitor High Value Assets' status for business and operational reasons. This enables you to: • Monitor health status of High Value Assets on the dashboard. • Maximize up-time and availability of High Value Assets.
Events	Event management includes event workflow, event views with filter and sort capabilities. This enables you to: • View events from multiple Sites on the dashboard. • Use event workflow to make operations of maintenance service transparent and traceable.

KPI Asset	Configure Assets to view pre-defined *KPI Values-Hours and KPI Values-Factors* on the dashboard. This enables you to: • View out of the box *KPI Calculation* on the dashboard • Outline industrial procurement (reliability, availability and maintainability) and operating characteristics of an Asset.
Application permissions	This application is operated in data centers in Germany and processes the following data: Site, Asset, Asset type, Asset maintenance schedule, Asset states, aspect, aspect type, Asset variable, time series data, multiple condition rules, event, event life cycle information, Asset KPI, rules, and notification information like email ID or User name. The application performs the following activities which modify or amend Your Content in your MindAccess Account on your behalf: • Read access to uploaded time series data, Asset configuration data, identity management data, KPI calculation data and notification data. • Read/write access to event management data.

Specific Terms	
Subscription Term	The minimum initial Subscription Term for the base subscription is1 year. The Subscription Term for any upgrade subscription is also 1 year and co-terminates with the Subscription Term for the base subscription of Asset Performance Monitoring. Following expiration of the preceding Subscription Term, the subscription automatically renews with a Subscription Term of one month until terminated by you or us for convenience with at least 30 days advance notice. The termination shall become effective at the end of the month.
Service Level Agreement	The Monthly Uptime Percentage for this application is at least 99,5%. Monthly Uptime Percentage is defined in the MindSphere Supplemental Terms available on www.mindsphere.io/terms.
Application use rights	This application can be used as part of OEM Services as described in the Specific Terms for MindAccess IoT Value Plan published on www.mindsphere.io/terms. Under the Account of your MindAccess IoT Value Plan, you may permit Users of Third Parties to access and use this application for the purpose of receiving a service from you.
Notification Services	Sending of emails leverages MindSphere's Notification Services. The terms and conditions set out in the MindSphere Supplemental Terms for Notification Services available on www.mindsphere.io/terms apply.
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 are made available via the following web link: http://sie.ag/MindSphere-ThirdParty_AssetPerformanceMonitoring.
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 imposed by our subcontractors (including changes in open source software license terms) or when we introduce new 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 of this document on www.mindsphere.io/terms.

| Support | For this application Support is provided in accordance with Chapter F of the MindSphere Supplemental Terms available on www.mindsphere.io/terms. |

Export Control Regulations

AL	N
ECCN	EAR99

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 user name and password.
Secure communication	Communication between Browser and MindAccess Account secured using HTTPS protocol.

Definitions

Asset	An Asset is the logical representation of a thing which can be a machine or an automation system with a single unit e.g. PLC or CNC - Controller or even a factory site. Assets are defined using an Asset type.
High Value Assets	High Value Assets are those Assets the operation of which is critical for your business.
Site	A Site is a single logical grouping of one or more than one building and/or factory.
Additional definitions	All other capitalized terms in this document shall have the meaning given to them in the MindSphere Agreement.

www.mindsphere.io/terms