

# MindSphere Add-ons Product Sheet



MindSphere Add-ons enhance MindSphere Capability Packages according to your use case by adding capabilities on demand.

## Prerequisites

Subscription	A valid subscription to a MindSphere Capability Package (Basic/Standard/Premium) is required.
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## Asset Health & Service Hub Application

Prerequisites	For the use of this Offering, a valid subscription to Remote Service and Edge Analytics is required.
Description	Asset Health & Service Hub Application enables you to remotely track, detect, analyze and repair issues in the field before they harm machines or disrupt operations.
Third-Party Terms	The Third-Party Terms for Asset Health & Service Hub Application are made available via the following web link: <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms</a> .

## Cloud Foundry Hosting

Description	We offer a managed runtime environment powered by Cloud Foundry to run your own applications. Cloud Foundry is a platform as a service (PaaS) providing a development and production environment within MindSphere. Cloud Foundry Hosting enables you to create and host practically everything from simple cloud-based IoT dashboards to sophisticated enterprise applications. Your subscription to Cloud Foundry Hosting includes access to 2 so-called Cloud Foundry Orgs (one for your Production Environment and one for your Development Environment). Every Org provides a dedicated login to a Cloud
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	<p>Foundry environment that an individual or multiple collaborators can use. Each Cloud Foundry Org comes with 2 GB of RAM per default (can be upgraded for additional fees).</p> <p>Your subscription to Cloud Foundry Hosting allows you also to utilize any available size (e.g. XS or M) of Backing Services. The size relates to available memory, storage space and additional properties such as high availability. A usage-based fee will be charged depending on the size of Backing Services in use as set forth in the Price List for Offerings with Usage-based Fees available at <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/usage-based">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/usage-based</a>.</p> <p>Backing Services include any service which an application utilizes over the network as part of its normal operation. You can utilize Backing Services e.g. for storage, caching, messaging etc. Available service types are: ElasticSearch, LogMe, PostgreSQL, RabbitMQ, Redis.</p>
Documentation	<p>For further details about Cloud Foundry Hosting please see MindSphere Documentation available via the following weblink: <a href="https://developer.mindsphere.io/paas/index.html">https://developer.mindsphere.io/paas/index.html</a>.</p>

## Edge Analytics

Description	<p>Edge Analytics allows you to collect high frequency data, pre-process raw data and use an analytic edge functionality to calculate your KPIs. These KPIs allow condition monitoring (e.g. vibration analysis) of your asset. Your subscription to Edge Analytics comprises (i) a subscription license to the Edge Analytics Engine software for use on your connectivity hardware in the field to collect data and perform edge analytics of the data to calculate KPIs and send the calculated KPIs to the Platform, and (ii) a subscription to the application Edge Analytics on the Platform that allows you to configure your data points and KPIs on your Account. The Edge Analytics Engine software will be made available for download on the Platform and must only be used on supported connectivity hardware. The MindConnect Nano and MindConnect Software Agent from Siemens are currently supported connectivity hardware. For further information as to which connectivity hardware is currently or will be supported, please verify with your MindSphere sales representative.</p> <p>This Offering is available in three different sizes. Depending on the size ordered, the subscription includes 5, 50 or 300 external data points and can be used for 1 connectivity hardware device, e.g., MindConnect Nano.</p>
Documentation	<p>For further details about Edge Analytics please see MindSphere Documentation available via the following weblink: <a href="https://documentation.mindsphere.io/resources/html/mindconnect-edge-analytics/en-US/index.html">https://documentation.mindsphere.io/resources/html/mindconnect-edge-analytics/en-US/index.html</a>.</p>

## MindConnect Advanced Driver Extension

Description	<p>MindConnect Advanced Driver Extension is an optional extension to the MindConnect Software Agent. A subscription to this extension allows you to use additional adapters within the supported hardware devices and to enable various additional supported field protocols such as S7+, IEC61850, or SINUMERIK PL.</p>
Limitations	<p>With your subscription to this extension, we grant you the non-transferable, non-sublicensable, and revocable right to use, and permit Third Parties to use,</p>

	the extension for using one adapter within one supported hardware device during the Subscription Term.
Documentation	For further details about MindConnect Advanced Driver Extension see MindSphere Documentation available via the following weblink: <a href="https://documentation.mindsphere.io/resources/html/getting-connected/en-US/146436770955.html">https://documentation.mindsphere.io/resources/html/getting-connected/en-US/146436770955.html</a> .

## MindConnect Integration

**Description**

MindConnect Integration allows you to connect third party on-premise systems and third party cloud-based services to your Account on the Platform, for which we make an adaptor on the Platform available via MindConnect Integration. An "Integration" is a link established by you between the Platform and an interface of (i) an "On-Premise System", i.e. a software system running on-premise in your private data center, or (ii) a "Cloud-Based Service", i.e. a service running on a public cloud infrastructure other than the Platform. Installation assistance and consulting regarding MindConnect Integration are offered for an additional fee in the form of Professional Services.

**Limitations**

On-Premise Systems and Cloud-Based Services are not part of our Offering. It is your responsibility to procure and maintain appropriate licenses for such On-Premise Systems and Cloud-Based Services and their integrations with the Platform. On-Premise Systems, Cloud-Based Services and their integrations are solely operated by you. On-Premise Systems and Cloud-Based Services currently supported are listed below (subject to change and for informational purposes only; please verify with your MindSphere sales representative):

Supported On-Premise Systems	Ariba, OnRamp, LotusNotes, OFTP, Oracle, PeopleSoft, Remedy, SAP, SAP XI, Siebel, ASI/400, JavaBeans, JDBC, Apache HIVE, MongoDB, Cassandra, HDFS, Apache Impala, Apache WebSphereMO, Tuxedo, MSMQ, Apache Kafka
Supported Cloud-Based Services	FTP(S), SOAP, REST, OData 2.0, OData 4.0, Alfabet, Cumulocity, Apps, BigQuery, Calendar, Cloud Storage, Contacts, Drive, Cloud Pub/Sub, Sheets,S3, SNS, SQS, Apache Solr, AvaTax, Concur, Coupa, Magento, Marketo, Microsoft Dynamics, NetSuite, SAP Cloud, SAP Hana Marketing Cloud, Salesforce, Salesforce CRM, ServiceNow, Slack, Strikelron, SuccesFactors, SugarCRM, Zendesk

**Integration Software.** To connect an On-Premise System to the Platform, certain third party software must be installed on a server on-premise in your data center ("**Integration Software**"). You can only onboard your On-Premise System if the Integration Software has a connection to the internet.

Integration Software is not part of our Offering and is solely operated by you. It is your responsibility to procure and maintain appropriate licenses for such Integration Software. We will direct you to the website of a third party vendor, where Integration Software is available for your download via the internet. Separate terms and conditions apply to the download and installation of Integration Software. We will provide you with third party license keys for such Integration Software to enable your use of the Integration Software in connection with the Offering, limited to bi-directional communication of data between Integration Software and your Account. Integration Software may contain a mechanism to disable its use after the end of the Subscription Term to MindConnect Integration and you will not interfere with the date and time of

	such disabling mechanism. We may, at our sole discretion, make available software updates or security patches for Integration Software and will provide reasonable notice when such updates or security patches are available. You shall update the Integration Software without undue delay after the publication of any updates and patches. Please note that data collected during an update procedure may be lost. Separate terms and conditions may apply to the download or installation of such updates or security patches. Integration Software with older firmware may not be able to be updated to the current version. An outdated version of Integration Software may not be able to transmit data to the Platform.
Third-Party Terms	Third-Party Terms for MindConnect Integration are available via the following web link: <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms</a> .
Documentation	For further details about MindConnect Integration please see user and/or developer documentation available via the following weblink: <a href="https://documentation.mindsphere.io/resources/html/mindconnect-integration-gs/en-US/index.html">https://documentation.mindsphere.io/resources/html/mindconnect-integration-gs/en-US/index.html</a> .

## Predictive Learning

Description	<p>Predictive Learning allows you to build predictive models through machine learning techniques, enabling companies to optimize product quality as well as reduce potential field failures and performance issues. You can employ machine learning algorithms including Naive Bayes, Random Forest, Logistic Regression, Decision Trees, Gradient Boosting, Support Vector Machines and others. It also allows you to build and execute predictive models in Python.</p> <p>You can import data to Predictive Learning from an AWS S3 storage, or from Integrated Data Lake. Asset-related time series data can also be imported to Predictive Learning from the Platform.</p> <p>Predictive Learning is available as:</p> <ul style="list-style-type: none"> <li>• Predictive Learning Essentials: Your subscription to Predictive Learning Essentials enables you to create and use machine learning solutions written in Python and includes 1 000 Predictive Learning Compute Hours. Additional Compute Hours can be upgraded for additional fees.</li> </ul>
Third-Party Terms	Pre-installed open source libraries are listed in the <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms">Third-Party Terms</a> available via the following web link: <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms</a> . Further libraries can be procured by you under separate terms via download from external repositories, i.e. pip ( <a href="https://pypi.org/project/pip/">https://pypi.org/project/pip/</a> ) for Python. Such libraries are not part of our Offering and solely operated by you.
Documentation	For further details about Predictive Learning please see user and/or developer documentation available via the following weblink: <a href="https://documentation.mindsphere.io/resources/html/predictive-learning/en-US/Welcome.htm#t=Welcome_1.htm">https://documentation.mindsphere.io/resources/html/predictive-learning/en-US/Welcome.htm#t=Welcome_1.htm</a> .

## Remote Service

Description	Remote Service (RS) provides you with remote access to on-site assets that are registered within RS for the purpose of fast remote service and maintenance ("Service Assets"). This reduces the need for on-site service tasks such as incident handling and alleviates maintenance such as transfer of production-related data or delivery of updates or improving the configuration of Service Assets. MRS
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	<p>applies additional security by routing its service connections through protective generic tunnels, which can also aggregate several such service connections. This may support compliance with regulatory constraints.</p> <p>RS comes with two user interfaces:</p> <ul style="list-style-type: none"> <li>• RS v1 providing a functional approach allowing fast switching between all MRS functionalities;</li> <li>• RS v2 providing a workflow-driven approach for everyday service tasks.</li> </ul> <p>RS is available as:</p> <ul style="list-style-type: none"> <li>• <b>RS:</b> Your subscription to RS enables you to service and maintain Service Assets via native or browser-based remote login. Fine-grained access control ensures that Users have access only to those Service Assets which are assigned to them by a RS administrator. Users may transfer Service Data such as production-related data or deliver Service Data such as configurations by means of file transfer. "Service Data" means all RS-related data for administration and usage of RS functionalities. Your subscription to RS comprises access to 1 Service Asset, 0.01 GB of monthly Service Data transfer and 1 Service Tunnel. "Service Tunnel" means hosting of one asset-specific communication protocol in a generic tunnel, which connects a service personnel's operator PC to a particular Service Asset. Additional Service Assets, Service Data volume and Service Tunnels can be upgraded for additional fees. Generic remote service support functions such as monitoring and audit, download of client software as well as self-service onboarding and administration of Service Assets, Users and access rights are included as well.</li> <li>• <b>RS (Engineering Option):</b> Your subscription to RS (Engineering Option) adds remote engineering support capabilities to RS. It enables the use of certain engineering tools procured and operated by you from remote, which may alleviate service and maintenance tasks such as commissioning or improvement of Service Assets. Besides pre-configured Service Tunnel connectivity there is the option for custom Service Tunnel connectivity to adapt to an engineering tool's specific communication protocol demands.</li> </ul>
Limitations	<p><u>Client Software.</u> RS requires installation of, and we grant you a Perpetual license to, (i) a device client for terminating tunnel connections in the serviced remote network and which may also be used as a gateway for accessing Service Assets in sub-networks, and (ii) an operator client for establishing underlying Service Tunnels originating in the remote service personnel's operator PC to a serviced site. Both clients will be made available for download from the Platform. Installation of the operator client is not required for browser-based remote login. For details regarding validated hardware and software configurations for operator and device clients, please see the MindSphere Release Notes available via the following weblink:</p> <p><a href="https://documentation.mindsphere.io/resources/html/release-notes/en-US/index.html">https://documentation.mindsphere.io/resources/html/release-notes/en-US/index.html</a>.</p>
Third-Party Terms	<p>Third-Party Terms for RS v1, RS v2 and operator and device clients are available under "Remote Service" via the following web link:</p> <p><a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms</a>.</p>
Documentation	<p>For further details about Remote Service please see user and/or developer documentation available via the following weblink:</p> <p><a href="https://siemens.mindsphere.io/en/docs/MRS-Getting-Started">https://siemens.mindsphere.io/en/docs/MRS-Getting-Started</a>.</p>

## Subscription Based Notifications for Time Series Data & Events

Description	This feature facilitates MindSphere to send notifications to the subscribing Environments when new Time Series data or Events arrive. Apps can be configured to listen to these notifications for polling the subscribed data more efficiently. Thus, eliminating the need for cyclic polling.
Pre-requisites	For existing applications, this feature needs modifications in the app by the app developer. For new applications, the use of Subscription Based Notifications must be planned beforehand during design phase.
Limitations	The notifications work with a minimum window of 1 minute. Currently the apps outside the MindSphere ecosystem are not supported. Works only with latest Message Broker Service Version.
Documentation	How to Receive Notifications (App Development/Publish): <a href="https://developer.mindsphere.io/howto/howto-receive-notifications.html">https://developer.mindsphere.io/howto/howto-receive-notifications.html</a> Message Broker API: <a href="https://developer.mindsphere.io/apis/core-messagebroker/api-messagebroker-api.html">https://developer.mindsphere.io/apis/core-messagebroker/api-messagebroker-api.html</a>

## Visual Explorer

Description	<p>Visual Explorer enables you to visualize certain parts of Customer Content. Such visualizations can be combined into dashboards, which may be used to analyze the performance of connected assets. Your subscription to Visual Explorer includes 5 GB of storage volume to save your data sources and visualizations. Visual Explorer can be subscribed to in different types (Creator/ Viewer) of Authorized Users.</p> <p>A <i>Creator</i> can access the Visual Explorer application, which is built on Tableau®, and the supplemental tool <i>Visual Explorer – Connector</i> from the MindSphere Launchpad. Visual Explorer – Connector can be used to select Assets and Aspects and transform those into data sources, which can later be used to create visualizations with the Visual Explorer main application. The Visual Explorer main application further enables you to create or publish a workbook (i.e. a combination of visualizations and dashboards), modify an existing workbook or create subscriptions, alerts or comments on a published workbook.</p> <p>A <i>Viewer</i> gets access to a subset of features and functionalities via the Visual Explorer application. A <i>Viewer</i> may interact with or export an existing visualization but may not use <i>Visual Explorer – Connector</i>.</p> <p>Your subscription to Visual Explorer includes 5 <i>Creators</i>; additional upgrade subscriptions to upgrade the number of <i>Creators</i> or to subscribe to Visual Explorer as <i>Viewer</i> are available separately.</p>
Third-Party Terms	Third-Party Terms for the Visual Explorer main application and Visual Explorer – Connector are available under “Visual Explorer” via the following web link: <a href="https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms">https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/Third-Party-Terms</a> .
Documentation	For further details about Visual Explorer please see user and/or developer documentation available via the following weblink: <a href="https://siemens.mindsphere.io/en/docs/Visual-Explorer">https://siemens.mindsphere.io/en/docs/Visual-Explorer</a> .

## Export Control Regulations

The Offerings described in this MindSphere Add-ons Product Sheet have the following classification, unless expressly set out otherwise herein:

AL	N
ECCN	N/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.
Secure communication	Data transmission will be done via HTTPS protocol from Asset to your Account.

## Definitions

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 <a href="#">Glossary</a> .
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