

MindSphere Cloud Resources Product Sheet



MindSphere cloud resources (“MindSphere Cloud Resources”) empower you to use MindSphere capabilities. MindSphere Cloud Resources Packages provide the resources required to use the various capabilities and functionalities provided either in a MindSphere Capability Package or as a MindSphere Add-on Offering.

Prerequisites

Subscription

A valid subscription to a MindSphere Capability Package (Basic/Standard/Premium) is required.

Description

General

MindSphere Cloud Resources are offered as either mandatory or optional MindSphere Cloud Resources Package. Mandatory MindSphere Cloud Resources (also referred to as “IIoT Data Package”) contain the necessary resources for the utilization of the MindSphere Capability Packages and are available in five different sizes (XS/S/M/L/XL), from starting simple use cases (XS) towards high end resource requirements in XL size. Optional MindSphere Cloud Resources Packages are needed for specific use cases and are required to consume/use the respective capabilities. They are available in three different sizes (S/M/L). You select the best fitting MindSphere Resources Package for your use cases and demands.

Limitations and usage-based fees

You are only authorized to utilize the MindSphere Cloud Resources Package size to which you hold a valid subscription. Only one size of MindSphere Cloud Resource Package can be subscribed to for one MindSphere Capability Package. The resources included in the MindSphere Cloud Resources Packages have certain limits as outlined in the table below. The table indicates if limits are either monthly recurring or apply for the entire Subscription Term. Should the actual usage of your MindSphere Cloud Resources Package size exceed the applicable limits below, usage-based fees will be charged on a monthly basis as set forth in the Price List for Offerings with Usage-based Fees available at <https://siemens.mindsphere.io/en/docs/Product-Descriptions->

	<p>Overview/usage-based. An exception applies to the following limits of MindSphere Cloud Resources which you may not exceed:</p> <ul style="list-style-type: none"> • Data Registries included in the optional Semantic Data Interconnect Resources Package (see table below). Data Registries can be upgraded for additional fees. • Events included in the mandatory IIoT Data Package (see table below). To clarify whether such limitations can be increased please contact MindSphere Support. • Event Types included in the mandatory IIoT Data Package (see table below). To clarify whether such limitations can be increased please contact MindSphere Support. • Forecast Executions included in the mandatory IIoT Data Package (see table below). Forecast Executions can be upgraded for additional fees. • Anomaly Detection Executions included in the mandatory IIoT Data Package (see table below). Anomaly Detection Executions can be upgraded for additional fees. <p>Please note that depending on your usage certain technical limitations may apply in addition to the limits set out in the tables below. For more information, please refer to https://siemens.mindsphere.io/en/docs/Product-Descriptions-Overview/technical-limitations. To clarify whether such technical limitations can be increased please contact MindSphere Support.</p>
Payment Terms	<p>The subscription fee for mandatory and optional MindSphere Cloud Resources Packages is charged yearly in advance. If your usage exceeds the authorized limits, we will charge you for the excess usage monthly in arrears.</p>
Calculation of usage-based fees	<p>The following calculation methods apply to usage-based fees of:</p> <ul style="list-style-type: none"> • MindSphere Cloud Resources included in (i) IIoT Data Package (Analytics API Calls, Notification Emails/Mobile Push/SMS, Operations Insight Analytics – Processed Data (using IDL), Visual Flow Creator Compute Hours), (ii) Integrated Data Lake (maximum volume of read data, maximum volume of write data, maximum number of read operations, maximum number of write operations, maximum number of search operations) and (iii) Semantic Data Interconnect (SDI Outbound Traffic, SDI Query Executions): the calculation is based on cumulative usage over a month in the same Account. • MindSphere Cloud Resources included in (i) IIoT Data Package (File Storage, Operations Insight Analytics - KPIs (using aggregated time series data), Operations Insight Rules, Operations Insight simple KPIs, Time Series Data Ingest Rate, Time Series Data Storage) and (ii) Integrated Data Lake (total number of objects stored, maximum data storage): the calculation is based on the average of maximum daily usage over a month in the same Account. <p>For clarity, please note the following examples for the two different calculation methods:</p> <ul style="list-style-type: none"> • Example No.1 (cumulative usage): You have subscribed to the IIoT Data Package XS size which allows you to use e.g. 3 Visual Flow Creator Compute Hours per month. If you use 15 hours in a month, a usage-based fee for a total number of 12 hours would be charged for that month. • Example No. 2 (average of maximum daily usage): You have subscribed to the IIoT Data Package S size which allows you to use e.g. 20 Operations Insight Rules during the entire Subscription Term of 12 months. In the first month of the Subscription Term your usage is as follows: on each of the first 15 days you have reached a maximum daily usage of 10 rules. On each day during the

next 5 days you have reached a maximum daily usage of 25 rules. On each day during the next 3 days you have reached a maximum daily usage of 10 rules. And on each day during the last 7 days of the month, you have reached a maximum daily usage of 50 rules. In this case the average of maximum daily usage over a month would be $(15*10+5*25+3*10+7*50)/30= 21,8$. Since 20 rules are already included in your subscription, a usage-based fee for 1,8 rules would be charged for the first month. The same calculation (based on the average of maximum daily usage over a month) will be applied in the remaining 11 months of the Subscription Term.

Mandatory MindSphere Cloud Resources Package - Overview

The MindSphere Cloud Resources included in the mandatory MindSphere Cloud Resources Packages in the table below have limits which apply for the entire Subscription Term, unless expressly indicated as 'monthly' limit.

For general description of the MindSphere Cloud Resources listed below, please refer to the MindSphere [Glossary](#).

For clarity, please note the following example: If you have subscribed to IIoT Data Package size M for the Subscription Term of 12 months, you are allowed to ingest and store in total 240 GB time series data into the Platform during the whole Subscription Term. If you use your total purchased 240 GB before the end of your Subscription Term and continue to ingest and store data to the Platform during the Subscription Term, you will be charged for the excess usage monthly in arrears. For Operations Insight Analytics – Processed Data (using IDL) you can incrementally query 20 TB size of files from IDL every month. In case you exceeded this limit in a certain month, you will be charged for the excess usage for that month. In the next month your authorized limit will be reverted to 20 TB.

IIoT Data Package	XS	S	M	L	XL
Analytics API Calls (monthly)	500	500	500	500	500
Events	50 000	150 000	500 000	1 250 000	2 500 000
Event Types	10	25	50	100	150
File Storage	12.5 GB	50 GB	200 GB	800 GB	3 200 GB
Forecast Executions	20	20	20	20	20
Anomaly Detection Executions	20	20	20	20	20
Notification Emails (monthly)	1 000	4 000	16 000	64 000	256 000
Notification Mobile Push (monthly)	1 000	4 000	16 000	64 000	256 000
Notification SMS (monthly)	0	0	25	100	400
Operations Insight Analytics - KPIs (using aggregated time series data)	0	0	5	20	80
Operations Insight Analytics – Processed Data (using IDL) (monthly)	0	0	20 TB	80 TB	320 TB
Operations Insight Rules	5	20	80	320	320
Operations Insight simple KPIs	5	20	80	320	320

Time Series Data Ingest Rate	0.5 KB/s	2 KB/s	8 KB/s	32 KB/s	128 KB/s
Time Series Data Storage	15 GB	60 GB	240 GB	960 GB	3 840 GB
Visual Flow Creator Compute Hours (monthly)	3 hours	12 hours	48 hours	192 hours	768 hours

Optional MindSphere Cloud Resources Packages - Overview

The resources included in the optional MindSphere Cloud Resources Packages in the table below have limits which apply for the entire Subscription Term, unless expressly indicated as 'monthly' limit.

For general description of the MindSphere Cloud Resources listed below, please refer to the MindSphere [Glossary](#).

Integrated Data Lake (IDL)	S	M	L
Maximum volume of read data (monthly)	10 GB	40 GB	160 GB
Maximum volume of write data (monthly)	10 GB	40 GB	160 GB
Maximum number of read operations (monthly)	100 000	400 000	1 600 000
Maximum number of write operations (monthly)	100 000	400 000	1 600 000
Maximum number of search operations (monthly)	10 000	40 000	160 000
Total number of objects stored	250 000	1 000 000	4 000 000
Maximum data storage	100 GB	400 GB	1 600 GB
Semantic Data Interconnect (SDI)	S	M	L
SDI Data Registries	4	4	4
SDI Outbound Traffic (monthly)	10 GB	40 GB	1 60GB
SDI Query Executions (monthly)	500	2 000	8 000

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.

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 [Glossary](#).