

MindSphere Start for Free

Product Sheet, Specific Terms and Data Privacy Notice



MindSphere Start for Free allows you to implement simple IoT use cases, take the first steps towards digitalization, and it helps you to understand the value of IoT for your business:

- Connect your things, quick and simple.
- Analyse data in near real-time by creating flows and dashboards.
- Make your own applications to create new business and add value.
- Join the MindSphere community and ecosystem of IoT innovators.

MindSphere Start for Free uses predefined resources, applications and Services via MindSphere APIs which are required to access the MindSphere Platform and to utilize the Services provided.

Prerequisites

Connectivity: Onboarding of assets

In order to collect data and send it to the Platform, an initial connectivity setup is required. Supported assets such as mobile phone, Raspberry Pi, or industrial assets (via MindConnect Software Agent or Raspberry Pi) can be onboarded using Asset Manager available on the MindSphere Launchpad. After accessing Asset Manager, a guided tour will show you how to onboard your assets.

If you onboard a mobile phone, the following hardware and software is required:

- Smartphone running Android (min. 8.0 and 9.0) or iOS (iPhone 7 & Plus, iPhone 8 & Plus and iPhone X, XR, XS) operating systems.
- Installation of MindSphere Mobile Connect application (available in the respective app stores under separate terms and conditions) on your compatible mobile phone.

If you onboard a Raspberry Pi¹, the following hardware and software is required:

- Raspberry Pi3 Modell B hardware device
- Micro SD-Card
- Installation of the Raspberry Pi Imager freeware tool (available under <https://www.raspberrypi.org/downloads/raspbian/>).

The Third Party Terms for the Raspberry Pi Imager freeware tool, and connectivity software (image) provided by us are made available via the following web link: https://sie.ag/MindSphere-ThirdParty_RaspberryPiImager_ConnectivitySoftware.

If you onboard an industrial asset via MindConnect Software Agent, a PC with

	<p>Windows 10 Professional is required.</p> <p>For additional information as to which connectivity hardware, software and field protocols are currently or will be supported, please refer to the user documentation available on https://documentation.mindsphere.io/resources/html/start-for-free/en-US/index.html.</p> <p>Neither connectivity hardware nor the Raspberry Pi Imager freeware tool are part of our Services. It is your responsibility to procure, onboard and operate such connectivity hardware and download and install the Raspberry Pi Imager freeware tool.</p>
Web browser	<p>An HTML5 capable Internet browser is required (e.g. Mozilla Firefox or Google Chrome). The recommended screen resolution is 1024x768 or higher. Mobile devices are supported through the use of HTML5 capable Internet browsers. Screen size of the mobile device should be minimum 10".</p>
<p>¹⁾ Raspberry Pi is a trademark of the Raspberry Pi Foundation.</p>	

Description of Services

When subscribing to MindSphere Start for Free you will be provided with different MindSphere resources ("MindSphere Resources"), applications and other Services which allow you to:

- Connect your first assets (mobile phone, Raspberry Pi, or industrial asset (via MindConnect Software Agent or Raspberry Pi) to the Platform using Asset Manager.
- Analyze data in near real-time, generate Key Performance Indicators (KPIs) and create dashboards using Operations Insight.
- Visualize KPIs creating analytic flows and dashboards with Visual Flow Creator, gaining insights that can help to improve efficiency and profitability.

Make your own applications and combine them with our Services to experience how you could create new business models and add value: you can develop an application e.g. using Mendix and its low code capabilities and register it to your Account on MindSphere. Please note that you will have to agree to separate Mendix terms and conditions in order to create your own applications using Mendix and its low code capabilities.

The following Services are included in your MindSphere Start for Free subscription. Please note that certain limits apply as per the table below.

Administration Tools

Asset Manager	<p>You can use the Asset Manager tool to:</p> <ul style="list-style-type: none"> • Onboard and offboard agents to your Account. • Configure assets, asset types and aspect types.
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Developer Cockpit	<p>You can use the Developer Cockpit tool to:</p> <ul style="list-style-type: none"> • Register up to 3 Self-hosted Applications in your Account. • Generate access tokens to access available MindSphere APIs from your local environment. • Manage the authorization of Self-hosted Applications. <p>Self-hosted Applications (except Mendix applications) can be integrated into the Platform as follows:</p> <ul style="list-style-type: none"> • Using MindSphere APIs without registering a Self-hosted Application: Developer Cockpit allows you to generate access tokens. Access tokens consist of a client ID and client secret. With the client ID and the client secret you can trigger MindSphere APIs on your Account and use them in your locally hosted applications or other services. The generation of the access tokens is provided by the Token Manager Service and is limited as per the table below. • Using MindSphere APIs registering a Self-hosted Application: Developer Cockpit allows you to register a Self-hosted Application on your Account. After registration your Self-hosted Application will be accessible via the MindSphere Launchpad. <p>To integrate a Mendix application into the Platform, an automated registration process has been created for you.</p> <p>For additional information on how to integrate Self-hosted Applications (including Mendix applications) into the Platform, please refer to the user documentation available on https://documentation.mindsphere.io/resources/html/start-for-free/en-US/index.html.</p> <p>Third Party Terms for Developer Cockpit are available via the following web link: https://sie.ag/MindSphere-ThirdParty_DeveloperCockpit.</p>
Upgrade	<p>Use Upgrade tool to upgrade your Start for Free Account into a productive one. When subscribing to Basic Starter Package the existing Account and all the assets which have already been configured will be remained.</p> <p>After this, use Upgrade tool to further extend your Account on demand:</p> <ul style="list-style-type: none"> • Order available upgrades to your subscribed Services (e.g. increase Users or Agents). • Get an overview of your requested and completed upgrades. • Manage pending upgrade requests (authorized Users only).
MindSphere Resources	
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 your use of the Services provided by us as part of your MindSphere Start for Free subscription.</p>
User	<p>It allows you to access your Account as User and use the Services provided by us as part of your MindSphere Start for Free subscription.</p>
Agent	<p>An agent is a software as part of a hardware device (e.g. mobile device) or in the form of an application provided by Siemens which you connect to your Account and which can ingest data into your Account and send data to one or more asset instances.</p>
Asset Type	<p>Asset type describes the type of an asset 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.
Time Series Data Ingest Rate	Time series data ingest rate represents the rate at which the sensor data is ingested into the Platform. 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 you to the Platform.
Time Series Data Storage	Time series data storage represents the total volume of time series data ingested and stored in the Platform for an Account. Time series data is deleted 30 days after data ingest.
IoT File Storage	IoT File Storage is used to read, write, delete, upload and update files associated to assets, store metadata information, and search for files by metadata. Since files are always related to an asset, the instance of an asset must have been created by you beforehand. IoT files are deleted 30 days after data ingest.
Forecast Executions	Forecasting refers to a functionality within Operations Insight based on our Artificial Intelligence (AI) for Everyone framework. Forecast Executions is the number of executed forecasts to generate prediction results on target variable via machine learning technologies in AI for Everyone. Third-Party Terms for Forecast Executions based on AI for Everyone are available via the following web link: https://sie.ag/MindSphere-ThirdParty_AlforEveryone .
Rules	Rules refer to the functionality within Operations Insight and Fleet Manager to create and configure rules that monitor parameters of an asset. The terms and conditions for "Operations Insight" set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of rules with the following deviations: <ul style="list-style-type: none"> • Users of Third Parties are not permitted to access and use this Service also for the purpose of receiving a service from you. • The maximum number of active concurrent rules per asset is limited as per the table below.
Visual Flow Creator Compute Hours	Computing hours represent the available execution time for workflows created in the Visual Flow Creator. This MindSphere Resource can only be used in connection with the Visual Flow Creator. Third Party Terms for Visual Flow Creator are available via the following web link: http://sie.ag/MindSphere-ThirdParty_VisualFlowCreator .
MindSphere Applications and Mobile Application	
Fleet Manager	Fleet Manager allows you to display and monitor measured data and information from your assets at one central point. The terms and conditions for "Fleet Manager and Rules in Fleet Manager" set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of Fleet Manager with the following deviations: <ul style="list-style-type: none"> • Users of Third Parties are not permitted to access and use this Service also for the purpose of receiving a service from you. • The maximum number of active concurrent rules per asset is limited as per the table below. Fleet Manager leverages our Notification Service for the sending of emails. The terms and conditions for "Notification Service" set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of this Service for the sending of emails.

Visual Analyzer	<p>Visual Analyzer is an extension of Fleet Manager to set up root cause analysis and mashup historical time series data.</p> <p>The terms and conditions for “Visual Analyzer” set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of this Service with the following deviations:</p> <ul style="list-style-type: none"> • Drilling down, searching or filtering of your data can be done to get more insight into your connected assets and their performance. • Customized views of your online data cannot be shared with colleagues or customers via virtual aspects. • Users of Third Parties are not permitted to access and use this Service also for the purpose of receiving a service from you.
Visual Flow Creator (incl. Dashboardviewer)	<p>Visual Flow Creator enables you to design your own workflows via a drag and drop functionality to develop graphic depiction of workflows.</p> <p>The terms and conditions for “Visual Flow Creator” set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of this Service with the following deviations:</p> <ul style="list-style-type: none"> • You will not be charged based on execution time. • Execution time for all nodes for a single Account is limited as per the table below. • Your created workflows cannot be viewed by other Users.
Operations Insight	<p>With Operations Insight it is possible to explore the performance and condition of assets, products, or lines in real time, get full and harmonized transparency and root causes from the data of your connected assets, calculate KPIs, drill-down analysis, assign work orders within your team and automatically receive notifications when thresholds are exceeded.</p> <p>The terms and conditions for “Operations Insight” set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of this Service with the following deviations:</p> <ul style="list-style-type: none"> • Number of simple KPIs and rules is limited as per the table below. • The User has rights to create dashboards & KPIs. • The User has rights to execute forecasting. • Users of Third Parties are not permitted to access and use this Service also for the purpose of receiving a service from you.
MindSphere Mobile Connect application	<p>You can use your mobile phone to ingest IoT data to your Account. To be able to onboard your mobile phone, you must download the MindSphere Mobile Connect application from the respective app stores at separate terms and conditions and install it on your mobile phone.</p> <p>The onboarding of the MindSphere Mobile Connect application to your mobile device will be done via QR code using the Asset Manager tool on the MindSphere Launchpad.</p> <p>MindSphere Mobile Connect is a native mobile application which collects aggregated data coming from the acceleration sensor of your mobile phone; this data will be uploaded to the Platform. You can use Asset Manager on the MindSphere Launchpad to visualize the ingested data. With the MindSphere Mobile Connect application, you can:</p> <ul style="list-style-type: none"> • Onboard your mobile phone as an asset to the Platform. • Send acceleration sensor data as IoT data to the Platform. • Offboard your mobile phone from the Platform.

Services via MindSphere APIs

Services via MindSphere APIs	<p>The following Services via MindSphere APIs are included:</p> <ul style="list-style-type: none"> • Agent Management • Asset Management • Event Management • IoT and Storage Services • Token Manager Service <p>The terms and conditions for these Services (except Token Manager Service) set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of these Services with the following deviations:</p> <ul style="list-style-type: none"> • The limits set out in the table below apply instead of the limits set out in the MindSphere Supplemental Terms.
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MindSphere Start for Free – Authorized Limits

The authorization levels shown in the table below set out the overall limits of authorizations for the respective metrics regardless if the Service is exposed via MindSphere APIs or via a user interface accessible from the MindSphere Launchpad. For clarity, if your subscription to MindSphere Start for Free includes 5 connected agents, such 5 agents may for instance be 3 agents connected via the Asset Manager tool on the MindSphere Launchpad and 2 assets connected via the respective API of Agent Management.

MindSphere Administration Tools, Resources and Applications	Authorization level	
Base Tenant		✓
Asset Manager		✓
Developer Cockpit		✓
User		1
Agents ¹		3
Asset Types ²		10
Asset Instances ³		10
Time Series Data Ingest Rate		0.1 KB/s
Time Series Data Storage		1 GB
IoT File Storage		2 GB
Visual Flow Creator Compute Hours		2 hours /month
Fleet Manager, Visual Analyzer		✓
Visual Flow Creator (incl. Dashboardviewer)		✓
Operations Insight		✓
Operations Insight / Fleet Manager: Rules ⁴		5
Operations Insight (simple) KPIs ⁵		5
Operations Insight Forecast Executions		20 / month
MindSphere Mobile Connect application		✓
Services via MindSphere APIs	Metric	Authorization level
Agent Management	Connected agents ²	3

Asset Management	Asset instances	10
	Asset types	10
Event Management	Event instances	3 500 /month
	Event types	2
IoT and Storage Services		
Time Series Service	Time series data storage volume	1 GB
Time Series Bulk Service	Time series data ingest rate	0.1 KB/s
Aggregate Service		
File Service	File storage	2 GB
Token Manager Service	Number of API calls ⁶ per month	150
<small>¹⁾MindSphere Mobile Connect application and Raspberry Pi are counted as agents; ²⁾ 2 agents are predefined for mobile phone and Raspberry Pi³⁾ Each connected agent leads to one used asset instance; ⁴⁾ Active concurrent rules; ⁵⁾ Number of active concurrent KPIs, calculation frequency of KPI every 5 minutes or longer, KPI calculation will be paused after 24h; ⁶⁾ An API call is defined as a token refresh to enable backend processing without user interaction.</small>		

Specific Terms	
Free of Charge Service	The Services provided by us as part of your MindSphere Start for Free subscription constitute "Free of Charge Services" as that term is defined in the MindSphere Master Agreement.
Subscription Term, termination	The Subscription Term for MindSphere Start for Free is 1 month. Following expiration of the preceding Subscription Term, the subscription automatically renews with a Subscription Term of 1 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. Our right to change, limit and discontinue a Free of Charge Service at any time in our sole discretion remains unaffected.
Data center location	On your Account of your MindSphere Start for Free subscription, Your Content at rest will be stored in the Area European Union. We do not control or limit the regions from which you may access or move Your Content.
Changes to the Product Sheet and Specific Terms	We may update this document from time to time during a Subscription Term. Changes shall become binding upon release of a new version of this document on http://sie.ag/MindSphere-ProductSheet_StartforFree .
Data use rights	<p>"Collected Data" means any information, code in any form, or data (e.g. time series data from a mobile phone) collected by the Services provided by us as part of your MindSphere Start for Free subscription. You acknowledge that Collected Data may include copies made by the Services from certain parts of Your Content for use in accordance with this Product Sheet, Specific Terms and Data Privacy Notice.</p> <p>During and after the Subscription Term, Siemens and its business partners may use Collected Data for Siemens' internal purposes (e.g. development or improvement of products or services). On an aggregated basis with other data and in a form that does not identify you and your Users, Siemens shall own and be free to make Collected Data publicly available to you and others (e.g. for information and industry trends, benchmarking data). Use of Collected Data in accordance with this Section will be at Siemens' risk.</p>
Data Privacy Notice	You are not permitted to upload and store personal data of Third Parties on the Platform. The processing of your personal data is governed by the Siemens Privacy Notice available at: www.siemens.com/privacy .

Onboarding of Raspberry Pi or industrial assets via Raspberry Pi / connectivity software provided by us	<p>In addition to the hardware and software to be procured by you as a prerequisite, we provide you with connectivity software (image) to onboard a Raspberry Pi. The software will be made available for download on the Platform. After download and correct installation of the "Raspberry Pi Imager" freeware tool you will be able to copy the connectivity software provided by us to the Micro-SD card. Afterwards the Raspberry Pi3 Modell B will be ready to be connected to the Platform.</p> <p>For each asset (Raspberry Pi) on which connectivity software provided by us shall be used, we grant you a separate license to the connectivity software. Each license grants you the non-transferable, non-sublicensable, and revocable right to use the connectivity software during your MindSphere Start for Free subscription on a single supported asset that interfaces with the software on a one-to-one basis. You are solely responsible for (i) properly installing, configuring and using the connectivity software made available by us, (ii) properly connecting it to the Platform, and (iii) regularly monitoring the content of the data transmission.</p>
Onboarding of industrial assets via MindConnect Software Agent	<p>In addition to the hardware and software to be to be procured by you, we will provide you with the MindConnect Software Agent software that allows you to connect supported assets to your Account on the Platform. It also allows you to collect data from industrial devices using supported field protocols such as S7, OPC-UA, EtherNet/IP and Modbus TCP and to transfer the collected data to your Account via an established connection. The software will be made available for download on the Platform.</p> <p>The terms and conditions for "MindConnect Software Agent" set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms apply to your use of this Service.</p>
Update of connectivity hardware and/or software	<p>You shall always keep any connectivity hardware and/or software up to date by installing updates and patches as they become available. Data collected during an update procedure may be lost. We disclaim all warranty and liability for such data loss. Outdated connectivity software may not be able to (i) be updated to the current version and (ii) transmit data to the Platform.</p>

Security Information

General	<p>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.</p>
Secure communication	<p>Data transmission will be done via HTTPS protocol from asset to your Account.</p>

Export Control Regulations

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ECCN	N

Definitions

Asset	<p>An asset is a digital representation of a thing which can be e.g. your mobile phone, a Raspberry Pi or an industrial asset like an industrial machine.</p>
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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.
Self-hosted Application	A Self-hosted Application is an application that is hosted by you in your own responsibility outside the wide area network of the Platform. From a Self-hosted Application, you can access MindSphere Services that are made available to you in the Account via respective MindSphere APIs. You are solely responsible to procure and maintain appropriate licenses for all Third Party software or services that you use in relation to your Self-hosted Application (including for the hosting and operation).
General	Unless otherwise indicated, capitalized terms used in this document shall have the meaning given to them in this document or elsewhere in the MindSphere Agreement.