

SITRANS Smart Condition Monitor IQ Package

Product Sheet and Specific Terms



The SITRANS Smart Condition Monitor (SCM) IQ Package in combination with the Siemens Measurement Intelligence devices (SITRANS MS200 and the SITRANS CC220) and Other Devices connected to MindSphere offers an online solution to monitor the condition of your equipment. This assists in the optimization of maintenance tasks by reducing unplanned downtimes. SITRANS SCM IQ Package provides proper structuring, notification, visualization functionality and modelling capabilities with pre-defined machine learning algorithms. The SITRANS SCM IQ Package consist of the MindSphere applications SITRANS SCM IQ and SITRANS Anomaly IQ as well as selected MindSphere Resources which are required to access the Platform and to utilize these applications.

Prerequisites	
Connectivity	In order to use the SITRANS SCM IQ application, your Siemens Measurement Intelligence devices (formerly known as Siemens Process Instrumentation devices) and Other Devices must be connected to the Internet. The Siemens Process Instrumentation devices are using TLS (Transport Layer Security) encrypted data transfer over MQTT (Message Queuing Telemetry Transport). Other Devices need to be properly connected to the Platform. Connectivity is not part of our Services. It is your responsibility to select, procure, configure, onboard and operate connectivity solutions.
Web browser	An HTML5 capable Internet browser with a screen resolution of 1920x1080 or higher is required (e.g. Google Chrome or Microsoft Edge). Google Chrome is recommended. Mobile devices are supported as well by using HTML5 capable Internet browsers.
Siemens Measurement Intelligence devices	The applications SITRANS SCM IQ and SITRANS Anomaly IQ support the following Siemens Measurement Intelligence devices: the Industrial Internet of Things (IIoT) multisensor SITRANS MS200 and the Bluetooth® data collector SITRANS CC220. Both devices must be in place to properly use the application. The SITRANS MS200 data will be processed and down sampled. The peak-to-peak values of the vibration measurements will be available as time series data in your MindSphere Tenant as Your Content. You are solely responsible for the selection, configuration, and onboarding of your Siemens Measurement Intelligence devices to the Platform.

Other Devices	If the use of Other Devices is intended in SITRANS SCM IQ you need to connect them to your MindSphere Tenant, make the data available as time series data and map the data to a MindSphere asset. You are solely responsible for the selection, configuration, and onboarding of Other Devices to your MindSphere Tenant.
---------------	---

Description of SITRANS SCM IQ and SITRANS Anomaly IQ Applications

SITRANS SCM IQ application	<p>The major functionalities of the SITRANS SCM IQ application included in the SITRANS SCM IQ Package Base are:</p> <ul style="list-style-type: none"> • Automatic creation of asset type SITRANS MS and agent SITRANS MS Connector to be used with Siemens Measurement Intelligence devices. • Automatic creation of the aspect type generic_scmiq_anomalydetection to be used with MindSphere assets of Other Devices. • Establishing connection to SITRANS MS200 and SITRANS CC220 devices. • Add or delete STRANS MS200 and SITRANS CC220 devices. • Mapping of SITRANS MS200 devices to MindSphere assets. • Configuration of Users and User groups which will receive notifications. • Set and change the type of notification to email or SMS. • View the SITRANS MS200 data connected to the Platform: <ul style="list-style-type: none"> ▪ Temperature ▪ X, Y, Z vibration data as peak-to-peak values • Training of Prediction Models which will then be available for activation. <p>The major functionalities of the SITRANS SCM IQ application included in the SITRANS SCM IQ Package Prediction Upgrade are:</p> <ul style="list-style-type: none"> • Activate and manage the Prediction Models to detect anomalies of the equipment monitored by SITRANS MS200 or Other Devices (regarding reliability of the Prediction Models, see "Prediction Models" below). • Trigger notifications when anomalies are detected by the Prediction Models.
SITRANS Anomaly IQ application	<p>The SITRANS Anomaly IQ application can be properly used only when Prediction Models are activated. Activation of Prediction Models can be done by activating the SITRANS SCM Package Prediction Upgrade within the SITRANS SCM IQ application.</p> <p>The major functionalities of the SITRANS Anomaly IQ application are:</p> <ul style="list-style-type: none"> • View detected anomalies and assign them to specific Users, if needed. • Enter information for documentation of the detected anomalies which describe the incidence and the solution of the incidence. • Label the anomalies to take advantage of continuous classification of the detected anomalies. • Add labels for classification and approve them by an assigned reviewer.

Description of MindSphere Resources

<p>The following MindSphere resources ("MindSphere Resources") are included in the SITRANS SCM IQ Package. These have been selected to ensure proper operation of SITRANS SCM IQ and SITRANS Anomaly IQ applications.</p>	
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 use of the applications and MindSphere Resources.</p> <p>The Base Tenant includes 1 Admin User and provides you with the following administration tools available on the MindSphere Launchpad:</p>

	<ul style="list-style-type: none"> • Usage Transparency: provides information regarding your consumption of MindSphere Resources. • Agent Diagnostic: allows you to activate and deactivate agent logfiles and to access them. • Settings: allow managing Users, permissions, rights, roles, groups, Collaborations, subtenants¹ and tenant provider information. For every User, an individual login is required. Users are also permitted to access and utilize the user management for the purpose of receiving a service from you. However, a user that receives a service from you shall not be granted with administration rights, except for administration rights that are offered by the user management of a subtenant¹. • Asset Manager: use Asset Manager to onboard & offboard agents to your Account; configure assets, asset types and aspect types; manage the Sharing of assets under a Collaboration between Accounts using Cross-Tenancy. The User that is entitled to administrate the Asset Manager may permit users of a subtenant¹ who receive a service from you to directly access the Asset Manager in relation to the respective subtenant¹. • Upgrade: use Upgrade to order available upgrades to your subscribed and additionally available MindSphere Resources (e.g. increase Users or agents); get an overview of your requested and completed upgrades; manage pending upgrade requests (authorized Users only).
User	It allows a defined number of Users to access your Account and use the application.
Agent	An agent is a software as part of a hardware device (e.g. MindConnect Nano) or in the form of an application provided by Siemens or a Third Party which you connect to your Account and which can ingest data into your Account and send data to one or more asset instances.
Asset Type	Asset type describes the type of an asset (e.g. a generic pump, gear box or components of a drive train) 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. An asset type is a grouping of assets with common characteristics that distinguish those assets as a group or class.
Asset Instance	Asset instance reflects a physical and/or logical device within your Account, e.g. production machine or production equipment 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 ingest rate is restricted to a maximum of 100 KB/s per asset.
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.
IoT File Storage	IoT file storage represents the total volume of files uploaded and stored on the Platform for an Account.
<p>¹⁾ Please note that subtenants are not part of the SITRANS SCM IQ Package. Subtenants can be ordered separately for additional fees and can be used for OEM Services as described in the Specific Terms for MindAccess IoT Value Plan available on www.mindsphere.io/terms. If you provide your customers with OEM Services, the Specific Terms for MindAccess IoT Value Plan available on www.mindsphere.io/terms shall apply accordingly as if you had subscribed to a MindAccess IoT Value Plan.</p>	

SITRANS SCM IQ Package Overview

Base subscription	SITRANS SCM IQ Package Base
<p>The base subscription allows access to the functionalities of the SITRANS SCM IQ application and the SITRANS Anomaly IQ application (if activated) as described above. The MindSphere Resources included in the SITRANS SCM IQ Package Base are suitable to establish maximum 3 connections between the SITRANS MS200 device and the Platform, to start 3 Prediction Models and to use 3 months of Training Time for Prediction Models.</p>	
SITRANS SCM IQ application (incl. connectivity of 3 MS200 and 3 Prediction Models)	✓
SITRANS Anomaly IQ application	✓
Base Tenant ¹	✓
Users	5
Agent	1
Asset Type	1
Asset Instances	6
Time Series Data Ingest Rate	0.05 KB/s
Time Series Data Storage	5 GB
IoT File Storage	0.5 GB
Application upgrade (optional)	SITRANS SCM IQ Package Prediction Upgrade
Fee	20 € / month ²
<p>This upgrade can only be activated within the SITRANS SCM IQ application and allows you to use the functionalities of the SITRANS SCM IQ and SITRANS Anomaly IQ applications as described above. The SITRANS SCM IQ Package Prediction Upgrade includes the activation of 1 additional Prediction Model.</p>	
Application and MindSphere Resources upgrade (optional)	SITRANS SCM IQ Package Sensor Upgrade
Fee	12 € / month ²
<p>The SITRANS SCM IQ Package Sensor Upgrade contains the following additional MindSphere Resources and is suitable to establish 1 additional connection between the SITRANS MS200 device and the Platform. The SITRANS SCM IQ Package Sensor Upgrade includes 1 additional month of Training Time for Prediction Models (if activated). This upgrade can only be activated within the SITRANS SCM IQ application.</p>	
Asset Instance	1 additional Asset Instance
Time Series Data Ingest Rate	0.01 KB/s additional Time Series Data Ingest Rate
<p>¹⁾ You can decide if a Base Tenant shall be created and provisioned to you as part of your SITRANS SCM IQ Package Base subscription or if the SITRANS SCM IQ Package Base (without a Base Tenant) shall be added to an existing Account (Base Tenant or MindAccess IoT Value Plan Account). A Package can only be added to an existing Account if the Account and Package are hosted in the same data center location. If you decide to add various Packages to one existing Account, please note the following: The MindSphere Resources included in the various Packages will be combined under one Account; it is your responsibility to allocate the MindSphere Resources to the various Packages according to your needs. The combination of MindSphere Resources under one Account may lead to technical limitations in their accessibility and should therefore not exceed the limits set out under https://sie.ag/MindSphere_TechnicalLimitationsforUsageofMindSphereServices; ²⁾ If a fee is displayed in a different currency on the product detail page of SITRANS SCM IQ Package Base on http://www.mindsphere.io/store in your country of residence at the date of activating any of the upgrades described herein, such displayed fee will be charged.</p>	

Specific Terms

Subscription Term	<p>The initial Subscription Term for SITRANS SCM IQ Package 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 www.mindsphere.io/terms, 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.</p> <p>Upon expiration of the Subscription Term for SITRANS SCM IQ Package Base without renewal, any upgrades described herein will also be deactivated and cannot be used any longer.</p>
Activation and deactivation of SITRANS SCM IQ Package Prediction Upgrade	<p>During the Subscription Term of the base subscription you may activate or deactivate the SITRANS SCM IQ Package Prediction Upgrade at any time. The deactivation can be done by deselecting the Prediction Model functionalities from the selected asset in the SITRANS SCM IQ application. The deactivation shall become effective at the end of the month in which the deselection was conducted.</p>
Activation and deactivation of SITRANS SCM IQ Package Sensor Upgrade	<p>During the Subscription Term of the base subscription you may activate the SITRANS SCM IQ Package Sensor Upgrade at any time. The deactivation of the SITRANS SCM IQ Package Sensor Upgrade can be done by you at any time if not in use with a SITRANS MS200 (disconnected). The deactivation shall become effective at the end of the month in which the deselection was conducted.</p>
Payment terms	<p>The fee for SITRANS SCM IQ Package Base is charged yearly in advance. Upon activation and until deactivation of the SITRANS SCM IQ Package Sensor Upgrade and SITRANS SCM IQ Prediction Upgrade, the fee for SITRANS SCM IQ Package Sensor Upgrade and SITRANS SCM IQ Prediction Upgrade will be charged monthly in arrears (calculated on daily basis).</p>
Data center location	<p>Your Content processed by the MindSphere Resources is stored at rest in the Area European Union as set out in the MindSphere Supplemental Terms available on www.mindsphere.io/terms.</p>
Adaptation of fees	<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. 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 in procurement costs due to price changes made by our suppliers, 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>
Service Level Agreement	<p>The Monthly Uptime Percentage for the SITRANS SCM IQ and SITRANS Anomaly IQ applications is at least 90%. Monthly Uptime Percentage is defined in the MindSphere Supplemental Terms available on www.mindsphere.io/terms.</p>
Data use rights	<p>“Collected Data” means the following data collected by the applications SITRANS SCM IQ and SITRANS Anomaly IQ:</p> <ul style="list-style-type: none"> • Any device data collected from the asset (raw data), • Processed data (KPIs, histograms, events, comments, plans).

	<p>You acknowledge that Collected Data may include copies made by the application from certain parts of Your Content for use in accordance with this Product Sheet and Specific Terms.</p> <p>During and after the Subscription Term, Siemens and its business partners may use Collected Data to improve the applications SITRANS SCM IQ and SITRANS Anomaly IQ. Should Siemens divest substantially all of its assets of a business or should an Affiliate cease to be an Affiliate of Siemens AG, the purchaser of the divested business or the former Affiliate, respectively, may use the Collected Data received by Siemens before divestment as permitted in this Product Sheet and Specific Terms. Use of Collected Data in accordance with this Section will be at Siemens' risk.</p>
Third Party Terms	<p>The applications SITRANS SCM IQ and SITRANS Anomaly IQ contain 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 SITRANS SCM IQ and SITRANS Anomaly IQ applications are made available via the following web links: http://sie.ag/MindSphere-ThirdParty_SITRANSSCMIQ_SITRANSAnomalyIQ.</p>
Changes to the Product Sheet and Specific Terms	<p>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 MindSphere Resources, 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.</p>
Notification Services	<p>The application leverages MindSphere's Notification Service for the sending of emails or other types of messages. The terms and conditions set out in the Supplemental Terms for Notification Services available on www.mindsphere.io/terms also apply to your use of the SITRANS SCM IQ and SITRANS Anomaly IQ applications.</p>
Support	<p>Support is available in German and English via email (scm.support.industry@siemens.com). Hours of operation are Monday through Friday, 8:00 am to 5:00 pm CET – excluding national and local holidays.</p>

Export Control Regulations

Applicable for SITRANS SCM IQ and SITRANS Anomaly IQ applications and MindSphere Resources.

AL	N
ECCN	N

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>
---------	---

Definitions

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. If you provide services to your customers, you must replace the Siemens service and support information provided in the MindSphere Launchpad with your companies' service and support information.								
Prediction Models	The Prediction Models are machine learning models applied to the raw data of the SITRANS MS200 or Other Devices. The machine learning model will predict anomalies of a specific asset while continuously monitoring the data of the SITRANS MS200 device. Even if the algorithms for the machine learning model are carefully selected, false positive and false negative anomalies can be detected, resulting in less reliable anomaly detection and notification. The result is also influenced by the input to the model that the User defines when applying data to train a machine learning model.								
Siemens Measurement Intelligence devices	The Siemens Measurement Intelligence devices allow you to generate values as vibration in the x, y, and z axes, and temperature. The values are delivered from the IIoT multisensor SITRANS MS200 and will be transferred to the Platform with the Bluetooth® data collector SITRANS CC220 .								
Other Devices	Other Devices are any device connected to the Platform where data is mapped to a MindSphere asset. Other Devices mapped to MindSphere assets are compatible with SITRANS SCM IQ within the following specifications: <table border="1" data-bbox="612 985 1469 1264"> <tr> <td>Min. sampling period for prediction and training</td> <td>1 second</td> </tr> <tr> <td>Min. period between consecutive predictions</td> <td>1 minute</td> </tr> <tr> <td>Max. number of aspect variables per model</td> <td>20</td> </tr> <tr> <td>Supported datatypes for aspect variables used in anomaly detection</td> <td>Boolean, int, long, double</td> </tr> </table>	Min. sampling period for prediction and training	1 second	Min. period between consecutive predictions	1 minute	Max. number of aspect variables per model	20	Supported datatypes for aspect variables used in anomaly detection	Boolean, int, long, double
Min. sampling period for prediction and training	1 second								
Min. period between consecutive predictions	1 minute								
Max. number of aspect variables per model	20								
Supported datatypes for aspect variables used in anomaly detection	Boolean, int, long, double								
Training Time for Prediction Model	The Training Time for Prediction Models is to select the data input for the machine learning model which usually represents an asset in its normal operation condition. The time selection is made in the SITRANS SCM IQ application but is limited to the available Training Time as per your subscription.								
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.								