SIEMENS

Drivetrain Analyzer Cloud Product Sheet

The cloud application Drivetrain Analyzer Cloud allows you to access all relevant drivetrain equipment and asset data of your installed equipment via your Tenant[1].

The application includes a variety of functions which assist you in managing drive train equipment's health and energy related KPIs. Drivetrain Analyzer Cloud provides you aggregated statistics and localization of your fleet, as well as individual KPIs, logbook, drive train equipment profile and product documentation. By using Drivetrain Analyzer Cloud you can optimize your fleet maintenance tasks, reduce unscheduled downtime, and increase your plant availability. The Drivetrain Analyzer Cloud Package consists of the application Drivetrain Analyzer Cloud and selected resources which are required to access the Platform and to utilize the application.

[1] Tenant can be provided by Base Environment or user can use their existing tenants.

Prerequisites

Hardware	This application is compatible with data provided through SIMOTICS CONNECT 400 (SC400) and Connection Module IOT[1] (CM IOT) for motors and other equipment which use SC400 or device as generic vibration sensor. In addition, gateways such as Mindconnect devices can be used to connect frequency converters. **The commissioning of the SC400 or CM IOT devices (onboarding to the Insights Hub) falls under the responsibility of the buyer.** To select, procure, configure, onboard and operate the SC400, CM IOT or devices, you can use the free mobile app Connection SIDRIVE IQ Config which is available under separate terms and conditions. This application requires additional gateways (such as Mindconnect devices) to bring the frequency converter data into Drivetrain Analyzer. [1] Connection Module IOT will be released July 2024.
Web browser	An HTML5 capable Internet browser is required (e.g. Mozilla Firefox, Google Chrome or Microsoft Internet Explorer/Edge). The recommended screen resolution is 1024x768 or higher. This application can be used on any mobile device that comes with an HTML5 capable web browser.
Data access	To access and use the application, data stored in your existing tenant (e.g. Base Environment or Insights Hub Capability Package tenant) may be accessed by the application. Drivetrain Analyzer Cloud application does not fully support - SDS feature.

Description of Drivetrain Analyzer Cloud application

Main functionalities[1]	The Drivetrain Analyzer Cloud application offers a range of digital maintenance and energy functions for drivetrain equipment. Here are the key features: • Get detailed statistics about the health of your equipment, including operating time, energy consumption, and potential energy savings.

- Visualize data with graphs and curves, showing time series data such as speed, torque, and vibration.
- Receive recommendations for vibration limits based on your equipment usage and condition.
- Monitor the condition of assets, including specific failure types like bearing failures.
- View a history of events, including status updates, alarms, and faults.
- Access important information about your connected drivetrain equipment, including rating plates with mechanical and electrical data.
- Find product documentation, Siemens Customer Service platforms, service contacts, and links to spare part information and support resources.
- Activate mail notifications and manage SC400 or CM IOT settings and status visualization.
- Customize signal thresholds for your equipment.
- Easily export asset information and data into CSV files.
- Utilize motor-specific maintenance counters or create custom counters.

The application is divided into several sections:
- Home Page: Get a general overview of all connected assets through customizable widgets, including fleet and plant overviews, a global logbook, a map view, and energy consumption insights.
- Asset List: Easily search, filter, and sort assets based on their types.
- Hierarchy: Build a hierarchy tree for your facility, consisting of six levels: plant level, process area level, machine level, drive train level, asset level, and sensor level.
- Map: Visualize your assets on a map for easy location tracking.
- Global Logbook: Review historical events, including status updates, alarms, and faults.
- Dashy: Create a personalized dashboard with configurable widgets.

Main functionalities are listed according to motor asset type. Functionalities can be different for different asset types (e.g. Drives, General Vibration sensors, etc) For detailed info please check the Drivetrain Analyzer Cloud Operating manual https://support.industry.siemens.com/cs/ww/en/view/109769880

Description of Insights Hub Resources

The following Insights Hub resources ("Insights Hub Resources") are included in the Drivetrain Analyzer Cloud Package or its extensions. These have been selected to ensure proper operation of Drivetrain Analyzer Cloud application.

Base Environment	The Base Environment provides you with a dedicated tenant (also referred to as" Environment") on Insights Hub. It enables you to login to your tenant via the respective URL provided by us and is required for use of the application and Insights Hub Resources. The Base Environment includes 1 Admin User and provides you with the following administration tools available on the Insights Hub Launchpad: • Usage Transparency: provides information regarding your consumption of Insights Hub Resources. • Agent Diagnostic: allows you to activate and deactivate agent logfiles and to access them. • Settings: allow managing Users, permissions, rights, roles, groups, Collaborations, and environment provider information. For every User, an individual login is required. Access policies are available only upon request. Insights Hub sales representative or Insights Hub Support to be contacted to enable use of access policies. • Asset Manager: use Asset Manager to onboard & offboard agents to your tenant; to configure assets, asset types and aspect types; to manage the Sharing of assets under a Collaboration between tenants using Cross-Tenancy.

	• Upgrade: can be used to order available upgrades (incl. add-ons) to already Offerings; to get an overview of requested and completed upgrades; to manage pending upgrade requests (authorized Users only). The Base Environment provides you with the following connectivity "Connect your Things" capabilities as well: • To connect assets using own PC as a gateway with MindConnect Software Agent. • To connect individual hardware using MindConnect API services, MindConnect MQTT Services, MindConnect OPC UA PubSub Services and MindConnect Library. • To use MindConnect Hardware e.g. MindConnect Nano, MindConnect IoT2040, MindConnect IoT2050. • Zero touch onboarding using MindConnect OPC UA PubSub Services and MindConnect MQTT Services. • To maintain connected devices by using MindConnect Device Management Services. For more information regarding Connect your Things capabilities, please refer to the Product Sheet for Insights Hub and Industrial Iot capabilities available at https://documentation.mindsphere.io/MindSphere/index.html
Additional Resources	In addition to the Base Environment, the following Insights Hub Resources are included in the Drivetrain Analyzer Cloud Package and its extensions: • Asset Attributes • Events • File Storage • Notifications E-Mail • Time Series Data Ingest Rate • Time Series Data Storage For general descriptions of the Insights Hub Resources listed above, please refer to the Glossary.

Drivetrain Analyzer Cloud Package Overview	
Application subscription	**Drivetrain Analyzer Cloud Starter**
Fee	See Order[1]
Drivetrain Analyzer Cloud Starter contains the following Resources to be able to onboard and host 1 SC400 (CM IOT) device in the application	
Drivetrain Analyzer Cloud application	✔
Base Environment[2]	✔
User	5
Asset Attributes	70
Time Series Data Ingest Rate	0.01 KB/s
Time Series Data Storage	1 GB
Notifications E-mail module[3]	1
Events module[4]	1
File Storage	1 GB
Extensions (for application and Resources)	**Drivetrain Analyzer Cloud 1/20/35/200 Assets**

Drivetrain Analyzer Cloud 1/20/35/200 Assets contains the following Resources and depending on the selected Drivetrain Analyzer Cloud Asset size, you are able to onboard and host 1 / 10 / 35 / 200 SC400 or CM IOT devices in the application..

	1 Asset	10 Assets	35 Assets	200 Assets
Fee	See Order[1]	See Order[1]	See Order[1]	See Order[1]
Asset Attributes	70	700	2450	14000 l
Time Series Data Ingest Rate	0.01 KB/s	0.1 KB/s	0.35 KB/s	2 KB/s
Time Series Data Storage	1 GB	5 GB	18 GB	100 GB
Events module[4]	1	10	35	20
File Storage[5]	1 GB	1 GB	8 GB	40 GB
Extensions (for Drive)	**Drivetrain Analyzer Cloud Drive Asset**			
Drivetrain Analyzer Cloud Drive Asset contains the following Resources and you are able to onboard and 1 drive asset to Drivetrain Analyzer Cloud Application				
Fee	See Order[1]			
Asset Attributes	30			
Time Series Data Ingest Rate	0.03 KB/s			
Time Series Data Storage	2 GB			
Events Module[4]	1			
File Storage[5]	1 GB			
Extension (for Resources)	**Drivetrain Analyzer Cloud E-mail**			
Fee	See Order[1]			
Notification Email module [3]	1			
Extension (for Resources)	**Drivetrain Analyzer Cloud File**			
Fee	See Order[1]			
File Storage	1 GB			
Extension (for Resources)	**Drivetrain Analyzer Cloud Events**			
Fee	See Order[1]			
Events module	1			
Extension (for Resources)	**Drivetrain Analyzer Cloud Subtenant**			
Fee	See Order[1]			
Subtenant module	1 subtenant module			
Extension (for Resources)	**Drivetrain Analyzer Cloud User**			
Fee	See Order[1]			
User module	5 user			

[1] Subscription-based pricing is set forth in the Order; [2] Base Environment can be created and provisioned to you as part of your Drivetrain Analyzer Cloud Starter subscription or the Drivetrain Analyzer Cloud Starter (without a Base Environment) shall be added to an existing tenants (e.g Insights Hub Capability Package tenantat). A Package can only be added to an existing tenant if the tenant and Package are hosted in the same data center location. If you decide to add various Packages to one existing tenant, please note the following: The Resources included in the various Packages will be combined under one tenant; it is

your responsibility to allocate the Resources to the various Packages according to your needs. The combination of Resources under one tenant may lead to technical limitations in their accessibility and should therefore not exceed the limits set out under https://documentation.mindsphere.io/MindSphere/index.html 3) Notification module includes 1000 email notification/ month. Notifications in form of emails included in the Packages are limited.If the actual usage of notifications exceed the applicable limits above, the User will not receive emails anymore; 4) Events module includes 1000events/ month. Events included in the Packages are limited. If the actual usage of events exceed the applicable limits above, no more events (logs) will be generated. Additional events can be ordered with an additional fee; 5) File storage differs according to package size

General

Subscription Term	The standard Subscription Term for the application is 12 or 36 months, and extensions are 12 months. The Subscription Term shall automatically renew if stated in the Order.
Co-term (renewal and termination)	The Subscription Term for extensions will be co-termed with the Subscription Term of the application and therefore can be shorter than the standard Subscription Term. If an application subscription is terminated, the associated extensions will also be terminated at the same time.
Payment terms	The fee for Drivetrain Analyzer Cloud Stater and all extensions described herein is charged in advance for the entire Subscription Term.
Trial	Drivetrain Analyzer Cloud Starter is available as a "Trial" version. The Trial term and conditions are defined in the Insights Hub Supplemental Terms available on www.siemens.com/sw-terms/supplements.
Service Level Agreement	The monthly Availability for this application is at least 95%. Monthly Availability is defined in the Cloud Services Support and Service Level Framework available at https://www.siemens.com/sw-terms/sla.
Third-Party Terms	The Third-Party Terms for SIDRIVE IQ Fleet application are made available via the following web link: https://www.sw.siemens.com/en-US/sw-terms/mindsphere-third-party-terms/ .
Support	Support may be contacted via web with following link: https://siemens.com/supportrequest/ Support is available in English and German.

Export Control Regulations

Applicable for SIDRIVE IQ Fleet application and Insights Hub Resources.	
AL	N
ECCN	N

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.
Encryption standard	TLS 1.2 for communication between asset and Account is used.
Access credentials	Authentication and authorization on User level based on username and password. Multi-factor authentication is recommended to be enabled in your Account for improved security.

Definitions

General	Unless otherwise indicated, capitalized terms used in this document shall have the meaning given to them in this Product Sheet or elsewhere in the Agreement. You may also want to check our Glossary.