RECOGIZER analytics

graphicx.io Free Trial
Industrial IoT Platform

PRODUCT OVERVIEW

RECOGIZER analytics

graphicx.io
High Performance IIoT Platform

Self-service machine data connection, asset structuring, processing, calculating KPI and visualization

graphicx.io is a web-based application (Software-as-a-Service) that allows you to connect, register and manage your technical installations, industrial machines and devices. It allows you to comprehensively evaluate the transmitted data of your IoT devices and visualize them in a meaningful way. Alarms and reports can be generated and issued automatically in order to provide the assigned employee with the necessary information. Your machine data is thus always available in almost real time or according to the selected query interval.

Smart features for smart processes:

- graphicx.io provides provisioning, registration, authentication, monitoring and management of your IoT devices without any programming effort (any machine, plant component or equipment that sends data into the cloud is called an IoT device)

- Consolidate all your data streams, regardless of the manufacturer

- Integrate virtual data points as well

- Automatically record, monitor, pre-process and analyze incoming data streams and events from your IoT devices

- Structure the incoming data and meta-data in a highly flexible and individual way according to the specifics of your organization, your assets and your business logic

- Calculate your production-relevant key figures (KPIs) with a graphical user interface

- Use the graphical visualization of data, events and KPIs

- Provide the right employees with the information they need: Configure flexible alarms based on all data and KPIs and transmit them via ticket or e-mail

Most modern software architecture and design available for you.

The IIoT platform graphicx.io is based on the latest design principles for highly scalable cloud applications and thus offers you maximum flexibility. Your new project can be implemented with only minimal adapta-

tion effort. Graphicx.io is based on the advanced microservices of MS Azure and can be dimensioned and extended according to your requirements.

Unique in the IIoT sector: tailor-made from the ground up.

Graphicx.io sets a milestone in the IIoT world. Instead of continuing to rely on a rigid hierarchical tree structure by squeezing all your assets, plants, machinery, resources and established company structures into one corset, we are taking a new path. Our IIoT platform is based on an intelligent combination of containers and filters.

As a comprehensive organizational element, containers digitally map your various real existing objects. With filters you have a powerful tool at your fingertips to determine what should be contained in a container. Select from all available resources (e.g. plants, components, machines, devices, sensors and other containers) those which you want to analyze together. Double assignments, automatic updates and the ability to view completely new contextual relationships (e.g. all machines of the same type, no matter from which plant) are no longer an obstacle.

Test the core modules of graphicx.io in detail

ASSET MANAGER

In Asset Manager you can map organizational structures that best match the real existing objects in your organization. Of course, you can use our hyper-flexible containers for this purpose. For example, you can define which metadata and properties you want to record for your factory work floor and then deposit all these informations.

DEVICE MANAGER

Device Manager lets you manage the devices that capture your measurement data and send it to the cloud. Register them without programming effort and assign them to your assets. You can also use a graphical interface to define which information and data streams you want to transmit from your devices to the platform. With stored templates, these settings are immediately available and reusable at any time (Device Types). This is the basis for monitoring your devices.

USER MANAGER

The User Manager allows you to manage user accounts, access rights and roles. New users are created in the platform via an e-mail invitation and must be confirmed via a link. As administrator you are free to assign roles and rights. You can assign read, write and ownership rights.

DASHBOARD MANAGER

The Dashboard Manager allows you to graphically visualize real-time data as well as recorded data from your sensors and KPIs. A wide range of visualization types and layouts are available. Create individual templates, so-called Dashboard Templates, with just a few clicks.

KPI MANAGER

Use the KPI Manager to generate exactly the analyses and aggregations from your data that you need for your production and processes. With the graphical user interface, you can independently perform and save automated calculations with any data series (e.g. torque measurement curve) or parameter.

Rules and triggers for alarms can be flexibly configured so that the right people in your team are provided with the information they need. Triggered alarms are sent by e-mail or the integrated ticket system. Of course, tickets can also be created manually. For a structured way of working, tickets can be provided with different processing stages, descriptions and urgencies and assigned to the responsible persons.

REPORT MANAGER

Do you regularly need a prepared presentation of your data? With the Report Manager you can do just that efficiently. Configurable templates help you to output recurring and consistent reports. The PDF reports are then output by graphicx.io at the desired regular intervals for the right user. The monitoring and benchmarking of your plants and machines thus becomes easily accessible and usable.

How can you connect your systems, machines and devices?

Graphicx.io is a IIoT platform that supports and will support the industry's most important connectivity standards. We are constantly expanding our connectors. So far, the following standards are available to connect your machines and devices with graphicx.io:

- MQTT
- REST API
- OPC-UA coming soon

If you want to connect your devices with MQTT to our IIoT platform, you need to provide the following for each of your devices:

- Make sure that your device is connected to the Internet
- Install a MQTT Client on your device
- Generate the necessary topics
- Connect the MQTT Client to the MQTT Broker

- Serialize the data to be transmitted in JSON format or with protocol buffers

If you want to connect your devices with REST API to our IIoT platform, you must provide the following for each of your devices:

- Make sure that your device is connected to the Internet

- Provide the data to be transmitted in JSON format or with protocol buffers

- Make sure that your device can call a rest API over HTTPS

- Initiate the transfer via POST

Further help and detailed programming examples for the individual connection types can be found in our online documentation. Furthermore, it is also possible for the test version to import simulated sensor data from a PC into the IIoT platform via MQTT.

What exactly can you use in the trial version of graphicx.io?

Basically, you can use all listed modules and features to their full extent. There are only restrictions regarding the amount of usable systems, machines and devices. We distinguish between IoT devices. Every device that sends data into the cloud is an IoT device. In the trial version you can test graphicx.io on a large scale:

- You can connect 100 data sending devices (IoT device)

- You can use up to 10 different types of devices

- Up to 1000 channels (data points) can be transferred from your devices. A channel represents e.g. the measurement series or time series with the rotational speed of a servo motor in your plant.

- Test graphicx.io with a max. of 3 different users and user roles

Please note that this is a test version. It is designed to give you an easy and good insight into our IIoT solution. Please do not use it for extensive production data. Your data will be deleted at the end of the trial period.

What requirements do you have to meet?

Except for the aforementioned assurance of the connectivity of your machines and devices to the cloud, you do not need to meet any further requirements. Your Trial Access gives you full access to graphicx.io and allows you to try out the platform to the full extent as described.

Designed for the industry

We have developed and tailored graphicx.io especially for industrial applications. Being Well versed in the needs and requirements of industry, we have designed a particularly slim, very flexible and easily adaptable IIoT platform, which, in view of its high performance, has a low cost. It can be used in a wide range of industrial sectors, including

- Plastics processing industry
- Plastics production, plastics processing and plastics machinery
- Industrial process air, extraction and air cleaning
- Process and sterile filtration
- Metalworking industry
- Process automation and plant engineering

Made in Germany

Behind graphicx.io stands an agile team at Recogizer Analytics GmbH based in Bonn (Germany). Recogizer Analytics aims to develop easy to use technically highly sophisticated AIoT solutions for industry. Our team consists of machine learning experts, data scientists, mathematicians, computer scientists, control technology experts and AIoT engineers.
We want to give you today what will be possible tomorrow to take your business to the next level. We are sure that industrial processes will experience previously undreamed-of improvements through Artificial Intelligence, will save further resources and will behave much more stable despite changing process parameters. Because we breathe life into your industrial processes: they remember, think along and act with foresight.

Pricing and conditions

The trial version of graphicx.io is free of charge for one month. After completion of the trial phase there are no automatic costs or subscriptions. If you decide to buy graphicx.io after the trial period, you will receive a new Access in a powerful production environment.

The following costs will be charged:

PLATFORM TYPE / FEES	TRIAL	STARTER	PROFESSIONAL	ENTERPRISE
Monthly fees	0 €	100 €	250 €	1.250 €
Monthly fees per active device	10 Cent	10 Cent	10 Cent	inclusive
Fees per 1000 IO values	1 Cent	1 Cent	0,75 Cent	inclusive
Fees per 1000 AI values*	10 Cent	10 Cent	7,5 Cent	inclusive
Other consumption fees				Actual Azure fees
DevOps Effort	-	-	-	25% of the Azure fees
Inclusive hours for service & support per month	-	2	4	4
Costs per add. hours	160 €	160 €	120 €	120 €
Inclusive developer or consulting day per month	-	-	-	1
Costs per add. developer or consulting day	-	1.000 €	900 €	800 €

* as soon as available

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