



# WE HAVE THE KEY FOR IOT

## Programming-free IoT Platform



**t-matix**  
IoT at the next level

# t-matix IoT Device, Platform and App Builder

## YOUR IOT SOLUTION AS A MODULAR KIT

The system consists of a t-matix IoT Device, the t-matix IoT platform and the App Builder. With this kit, any IoT solution can be implemented, flexibly adapted and changed at any time through the configurable IoT platform.



t-matix  
IoT Device

Together with you, we select a suitable transmission unit. Alternatively, you can use the t-matix SDK Software Development KIT to develop your own customized hardware solution. The TCUs transmit and receive data and commands.



t-matix  
IoT Platform

Profit from the multitude of different functions. With the t-matix IoT platform, individual IoT web applications can be created and flexibly adapted and changed at any time.



t-matix  
App Builder

With the built-in app builder, applications tailored to the specific use case can be created to best support your business process. Each user can be assigned individual functions and possibilities in the app.

Simply smart

# OUR SOLUTIONS FOR DIFFERENT SECTORS



Extensive modules of the t-matix IoT platform

# INTEGRATION MADE EASY

On the t-matix IoT platform, the t-matix Portal Designer is the flexible tool for creating IoT applications for your company and your product. There are also a multitude of interfaces available that allow you to easily integrate or extend your existing structures and systems.

## LAYOUT DESIGNER

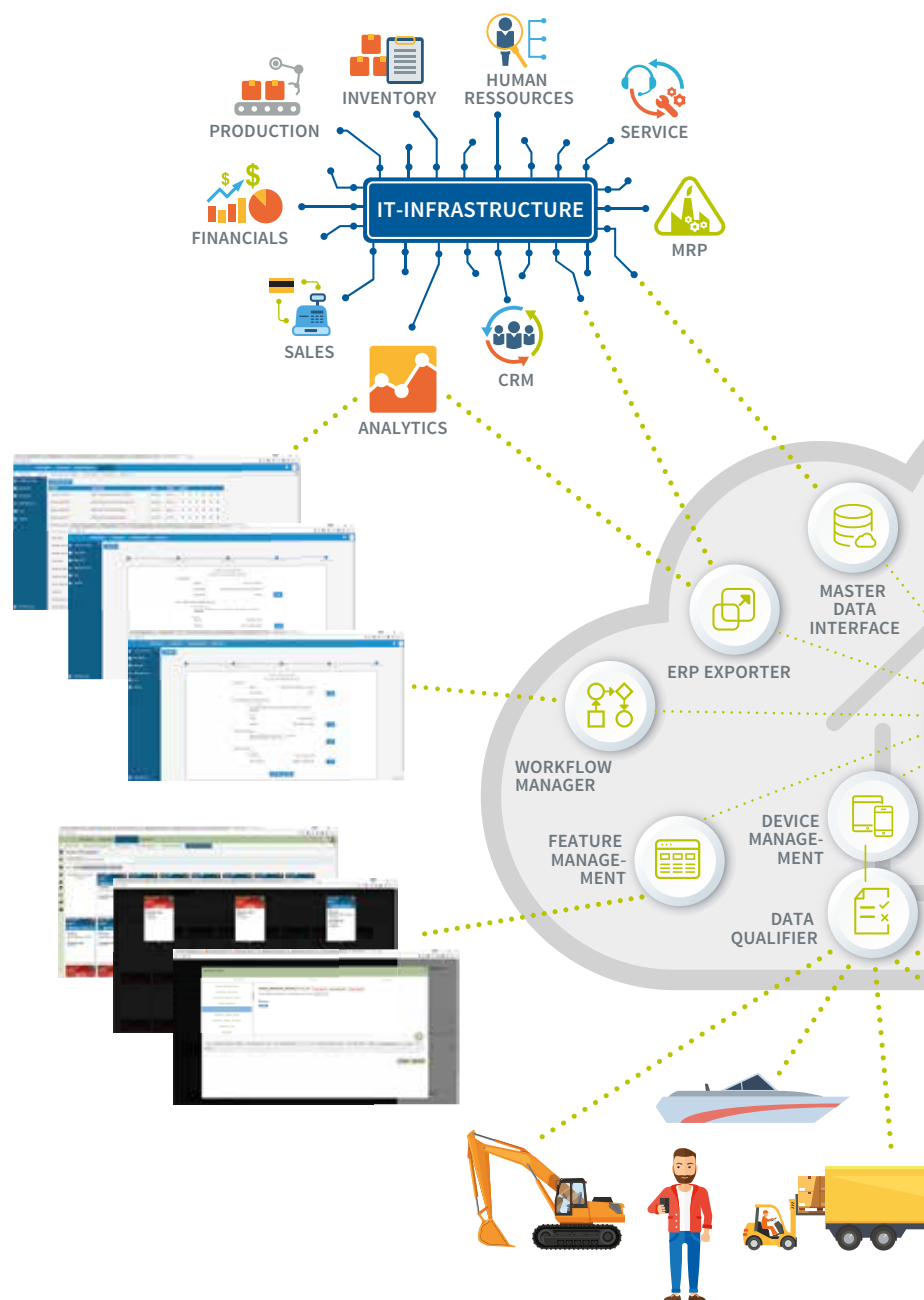
The **Layout Designer** allows the working environment of the IoT portal to be designed according to the customer's request and to be based on corporate identity.

## DATA QUALIFIER AND DATA VALIDATION

The **Data Qualifier** and **Data Validation** module qualifies incoming sensor data. This means that they are labelled and included in the IoT platform as relevant records. The system is extremely flexible as it allows processing from a variety of data sources as well as actually capturing and manipulating incoming data. A special feature here is the many validation options to create a solid database for all future applications. On top of that, the business logic within the IoT platform will always remain in place when changing or replacing devices because they are independent and therefore do not affect the process.

## DEVICE MANAGEMENT

In the **Device Management**, devices or master data are managed. This means that permissions are assigned here, certain features are assigned to specific device classes, and commands are directly stored or sent to devices. In addition, devices can be grouped together, which in turn elegantly controls other parts of the t-matix IoT platform, for example, automated processes for device groups can be created in the Workflow Module.



## BUSINESS LOGIC

In the **Business Logic** module it is possible to develop business logic as well as business processes and map them directly in the portal. With the aid of graphical tools, data-worthy information is provided, for example, GPS positions provide information about routes traveled, and KPIs are calculated and visualized from sensor data.

## DATA MANAGEMENT AND DATA AGGREGATION

With **Data Management** and **Data Aggregation**, collected data can be precalculated at runtime. This feature allows flexible scaling and ensures a high performance in any application, even when dealing with huge amounts of data.

## ERP-EXPORTER

The **ERP Exporter** transmits validated data to a large number of third-party systems. Depending on the requirement, tasks are configured such as intervals, pre-aggregation, retry attempts and validity periods. At the same time it is determined in which format the data should be transmitted to the external system.

## WORKFLOW MANAGER

The **Workflow Manager** creates events with IF THEN logic or with complex workflow chains, that trigger the sending of notifications or commands to machines, which in turn start new workflows.

## MASTER DATA INTERFACE

With the **Master Data Interface**, master data from external systems can be imported automatically via interfaces or also manually. In addition, machine data can be merged with external master data.

## DATA VIEWS

The **Data Views** module enables the creation of individual web applications and the processing of the data with different graphic elements such as linecharts, barcharts, KPI widgets, pivot tables, map displays as well as the presentation of simple tables etc.

## APP BUILDER

With the **App Builder**, custom native apps for Android and IOS can be created via drag & drop. These are then available in real time on your mobile phone. The different functional elements offer maximum flexibility in order to be able to implement even complex requirements with a professional „look & feel“.



# The perfect transmitter for your data

## T-MATIX IOT DEVICE

For every application, we offer you the correct transmitter unit for mapping your processes.



### Tracker

Trackers are used to record GPS position data and can be processed individually using the t-matix IoT Designer. Trackers are available with or without external power supply, e.g. container trackers.



### Telematic device for vehicles and construction machinery

The telematics units offer one or more sensors according to TCU type, which can be read out and are therefore very versatile. They are suitable for cars (CanBus), motorcycles, machinery, boats, equipment, and much more. These do not only record position data and values, but also receive and process commands.



### IoT Edge Device for the industry

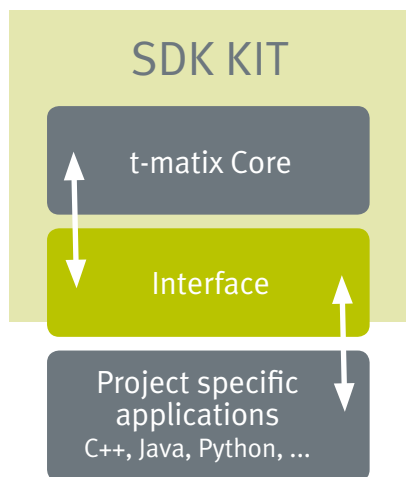
Data is processed locally with the IoT Edge Device instead of being sent to data centers or cloud services. The generated data is transmitted to a local device, which performs data processing, storage, and connectivity in small quantities and redirects the processed information to a central hub. This allows for the processing of data in real time.



For your individual hardware solution

# SOFTWARE DEVELOPMENT KIT

The Software Development KIT by t-matix develops yours ideas into powerful prototypes and subsequently successful products.



The individual software solution is implemented on the IoT Edge device and enables you to realize your individual applications and solutions. Ideal for energy-efficient, battery-powered IoT applications that send IoT sensor data to the IoT platform.

The t-matix SDK ensures secure communication between the hardware and the IoT platform and ensures data security through

automatic storage even during a communication failure.

The open source software is extremely flexible and is individually tailored to the requirements of the IoT solution.

The specially developed tmCore, a special t-matix interface, provides a seamless connection between hardware, software and IoT platform. With the intelligent interface, additional software

modules can be integrated and project-specific applications can be developed. This is how your idea becomes a high-performance product!



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