COSMO CONSULT

Business-Software für Menschen

Business Software for People

cc|object tracker app

REAL-TIME TRACKING (MANUFACTURING & INSTALLATION)

OBJECT TRACKING AT YOUR FINGERTIPS   DISPLAYING OBJECT DETAILS

VARIOUS WAYS OF TRACKING   OBJECT LOCATION

OBJECT SEARCH   NAVIGATION ALONG HIERARCHICAL OBJECT RELATIONS

DISPLAYING INDIVIDUAL WORK TASKS

NAVIGATION BY MAP/SITE PLAN

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COMPANY PORTRAIT

**Business software
for people**

COSMO CONSULT is specialized in the implementation and system management of industry and business solutions on the basis of advanced software technologies. We create industry-oriented comprehensive solutions for medium-sized companies in the manufacturing, services and trading sectors, and we provide an extensive range of **industry and special solutions** based on Microsoft Dynamics and QlikView for them.

Since 1996, we have been supporting our customers with the implementation of national and international projects concerning the introduction of the ERP Solutions **Microsoft Dynamics NAV** (formerly Navision) and **Microsoft Dynamics AX** (formerly Axapta). In addition, we complement our range of services with the customer relationship management system **Microsoft Dynamics CRM** and document management and portal system, **Microsoft SharePoint**, which integrate seamlessly into the system environment of the ERP solution. We thus create fully integrated software systems that are deployed and used in all areas of the company. With the help of the **business intelligence solutions QlikView/Qlik Sense and Microsoft Power BI**, our customers always have all their company data available in a structured and meaningful form.

An **introduction method** appropriate to the project is a prerequisite for successful implementation of the software. Since 1999, we have relied on proven implementation methods in the implementation of our software projects, such as **SureStep** for successful introduction of ERP projects and the **Agile implementation methodology** for fast results in the implementation of business intelligence projects.
COSMO CONSULT focuses on people. People are the deciding factor in terms of efficiency or inefficiency, strength or weakness, joy or frustration, and ultimately success.
Therefore we deliver:

Business software for people

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Online tracking and location of objects with the mobile app from COSMO CONSULT

WHERE IS MY OBJECT?

Today, location tracking for "homogeneous" objects such as a company's fleet of cars or individual tools is possible. But what if several components need to interact with each other? COSMO CONSULT's "Object Tracker" focuses on exactly this question. It highlights "heterogeneous" systems, such as the various objects of a huge construction site. In such a setting, a variety of object types interact with each other:
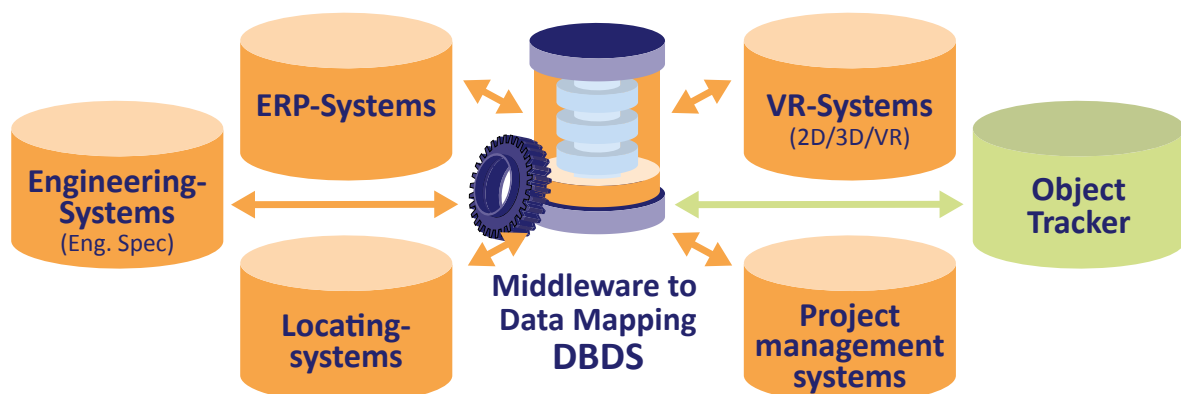
▶ Machinery and installations
▶ Equipment
    ▶ Apparatuses
    ▶ Aids
    ▶ Tools
    ▶ Cranes
▶ Resources
    ▶ Fitters
    ▶ Contractors
▶ Locations
    ▶ Streets
    ▶ Areas
    ▶ Halls
    ▶ Workshops
▶ Storage
▶ Vehicles
▶ …

Due to the diversity and heterogeneity of the objects in different application scenarios, simply recording location data is no longer sufficient. The Object Tracker is able to provide location data and display relationships between objects (of the same or different type) in a common data structure. For this purpose, the Tracker assigns a location and time stamp to the types to be tracked. These can later be evaluated through external reporting.

THE OBJECT TRACKER COMBINES HIERARCHICAL OBJECT RELATIONS AND THE LOCATION TO

▶ gather real-time information,
▶ track objects and
▶ process all objects.

There are several ways to identify each object. These can be tracked, for example, directly via smartphone and scanners for bar codes and QR codes. Other options are long range WiFi (LoRa) radio tags and RFID scanning devices.

ERP-Systems · **VR-Systems** (2D/3D/VR) · **Engineering-Systems** (Eng. Spec) · **Object Tracker** · **Locating-systems** · **Middleware to Data Mapping DBDS** · **Project management systems**

INTEGRATION OF THE OBJECT TRACKER DATABASE INTO EXISTING ARCHITECTURES The database is used less as a standalone data source, but is rather aggregates basic data from disparate IT systems via various interfaces.

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THE DATABASE HUB

Pieces of technical equipment are presented hierarchically as "technical location" structures. They are mapped to the physical machines as equipment or apparatuses. In similar fashion machines are mapped as item lists, as are the organizational structures of the employees in a company. For this purpose, a simple relational database is structured in such a way that the basic information of all objects (consisting at least of an identification number, name, and type) is filed in a database regardless of their type.

THE OBJECT TRACKER APPLICATION

The Object Tracker application is based on the database structure described. It facilitates easy navigation from object to object via the details of the relationship and can be used as an entry point

OBJECT TRACKER

▸ for **object search** (use the location data in a map, user-specific preferences), or
▸ various **object type hierarchies** in the form of tree structures
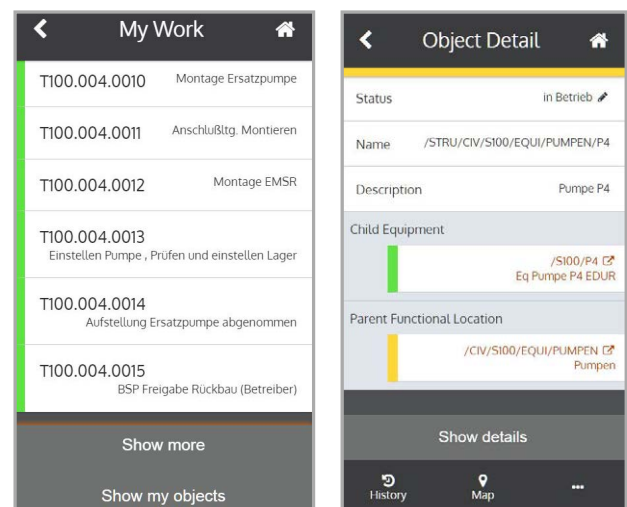
The result is that the selected object is represented in connection with a representation of all other objects that are in relationship to the selected object or are located in its vicinity.

These are in turn freely selectable.
The things displayed are:

▸ The **technical structure** (technical locations with location data)
   ▸ the attribution of pieces of equipment to the installation
▸ **spare parts**
   ▸ their structures and attribution to the different pieces of equipment
▸ **Location information** (Streets, building, safety areas)
▸ **People** (workers) and their organizational structures attribution to technical locations
   ▸ Pieces of equipment
   ▸ Activities
   ▸ Tools
▸ **Tools** and their attribution to
   ▸ Activities
   ▸ Pieces of equipment
   ▸ People
▸ **(Maintenance) activities** and their attribution to
   ▸ Apparatuses
   ▸ People
   ▸ Tools
▸ and much more

WORKING WITH THE OBJECT TRACKER

DETAILED VIEW OF THE WORK STEPS

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After the individual, role-based log-in, in the main menu the staff can view (see figure Object Tracker) the objects they have been assigned to via the 'My work' entry point. Tapping a row calls up the appropriate details (see figure detailed view of the work steps)
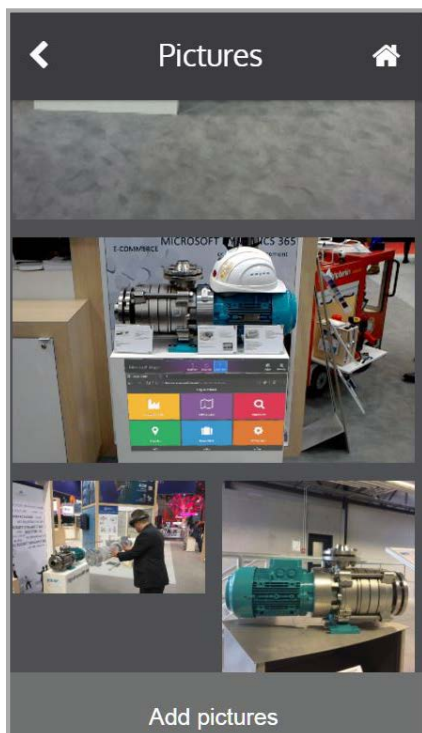
Via the app you can also attach or access images (see figure object images) and documents - in this case the machine technical data sheet (see figure data sheet representation) related to the object.

Furthermore, there you have ability to define additional fields for each object type in addition to the standard fields and assign them to the individual objects.
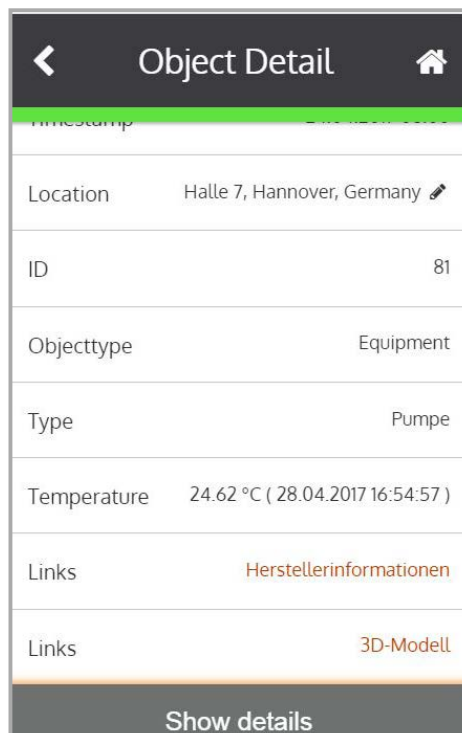
The location data can be visualized on a map (see figure visualized map). All objects are given a location and time stamp. In addition, the location data of individual objects (using the positioning function of the mobile device being used) can be changed via the app.
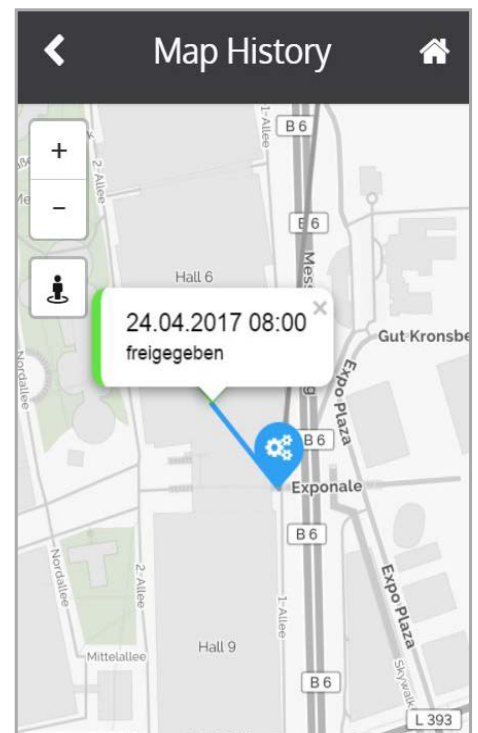
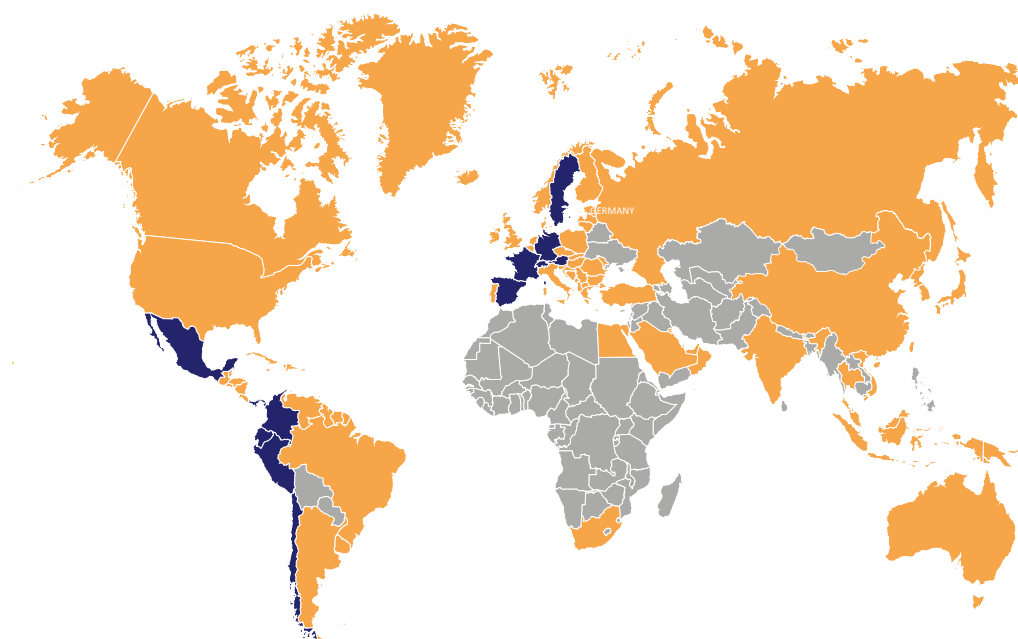A simple role-based user concept ensures the confidentiality of the data.

PICTURES

OBJECT IMAGES

VISUALIZED MAP

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For your notes

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MEXICO | PANAMA | PERU

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