



**INDUSTRIAL  
APPLICATION  
OBJECTS (IAO)**





# Independent

# CREATE MORE FLEXIBILITY

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Experience agility in a new way.  
Through environment-independent  
objects with canias4.0 technologies.

Environment independent and strong

# What exactly is IAO?

- ✓ More freedom through environment-independent objects
- ✓ Integratability of existing resources with new elements
- ✓ Optimal compatibility of IoT and ERP - system-independent

The basis of Industrial Application Objects (IAO) is the idea of Module as Service or Module as Object. This means that all modules of the ERP system as well as IoT components become independent and environment-independent objects. These are individually functional - for example, the sales module can be used without any dependency on other objects. At the same time, each object has the ability to fully integrate and interact with the ERP system. Integration of other software also becomes possible without any problems. Above all, this structure offers great benefits for the Industry

4.0 sector, so that the necessary components can be tailored precisely to the company's needs and at the same time work together without any problems. Versioning and updates also take place on an object-based level.

Agility rethought

# What advantages do I have?

- ✓ Interaction of objects where it is necessary
- ✓ New developer tools for real-time transactions
- ✓ Full organizational flexibility

The use of IAO opens up new possibilities for all specific business needs: Since objects are individually functional, performance within them can be significantly increased. There is also unlimited integration capacity with other modules and systems. New technologies on the development side simplify the work for programmers - among others, it is possible to use developer tools can even be used in real-time transactions. Further advantages are the platform independence already known from caniasERP as well as environment independence, with which each object can run on premise, cloud, private

or public and simultaneously interact with objects in other environments. This is advantageous, for example, in order to take into account country regulations of different locations and at the same time to enable cross-communication.

## **IAO also offers organizational advantages:**

Leadership of flatter organizational management of flatter organizational teams around the world, ease of managing multiple sites and customers, and higher levels of performance.

Simple and fast

# How do I use IAO?

- ✓ Simple deployment, quickly configured
- ✓ Own configuration per object
- ✓ Adaptable to new requirements at any time

The idea of environment-independent and autonomous use of objects that can communicate with each other at the same time without any problems has added value especially for future developments such as Industry 4.0 as well as AI, since it results in new fields of action.

In this context, the use of IAO is simple and comparable, for example, to the definition of various configuration settings. All integrations are already available by default.

In total, there are four methods for integrating objects: Application server, web service (xml), web service (json) and file export/import. The methods can be executed in both real-time or batch mode and allow the customer various scaling options, such as running large amounts of data within a bulk process. Again, each IAO object can have its own configuration.

Infinite possibilities

# Advantages at a glance



## Independent

Take advantage of independent and flexibly combinable objects.



## Powerful:

Higher performance through the use of an object-based layer.



## Develop more efficiently:

Improved developer tools reduce your effective working time.



## Individual:

Combine objects and their environments according to your needs.



## Future-proof:

Best conditions for developments in the field of AI and Industry4.0

# Exemplary use





Get started with Industrie4.0

# As a technology provider we supply everything from a single source

Powerful base

## The iasDB

- ✓ A simple and fast installation process
- ✓ Highly efficient and compatible with all canias4.0 products
- ✓ Security levels for all database objects

### Intelligent enterprises

In nearly all manufacturing industries, IoT is a real advantage. Redesign processes to unlock the true potential of your industry while promoting sustainable development. promote. Homes, buildings, offices, retail. Connect people, machines and information using Big Data to drive business efficiency in a secure environment.

The iasDB is an advanced database management system optimized for Big Data and ERP processing. It also supports the handling of object-oriented data. Therefore, it is optimal as a basis for the use of our Industrial Application Objects (IAO). An enhanced version of the well-known, proven, and widely used PostgreSQL database engine is used at the core of iasDB.

iasDB offers many advanced features for canias4.0 and the other applications. This gives companies the resources and expertise to securely deliver large and highly available enterprise information systems. provide. The iasDB database is highly efficient and fully compatible with all canias4.0 products. The database management system is fully adapted to future developments of canias4.0 in the areas of Artificial Intelligence and Big Data and has an architecture that supports the development of canias4.0 technology in line with the latest developments in the ERP world.

Smart and efficient

# IoT

- ✓ Increased productivity through reduced downtime
- ✓ Real-time data for better decision-making
- ✓ Proactive and effective way of working

Our IoT solution is easy to install, configure, compatible with current technologies and therefore ready to use in a few steps. Communication is done with simple basic settings without complicated configurations. Due to these innovative and flexible conditions, even different machines and production lines as well as constantly changing requirements of the machines are no problem.

We come from the industry Business and know the requirements exactly. Thanks to the high flexibility and simplicity of the connection, we can offer different options for the implementation. Cost-efficiently and entirely according to the needs of the customer. Thanks to our self-developed IoT devices, we can also support the retrofitting of existing production lines and thus offer everything from a single source.

Infinite possibilities. One goal.

# ERP

- ✓ Adaptable to the specific needs of the company
- ✓ Open, fully integrated and flexible
- ✓ Maintaining competitiveness through technological advances

With caniasERP, all business processes can be controlled and managed, workflows optimized and productivity and efficiency improved. Thanks to the wide range of modules, processes in planning, procurement, materials management, production, sales, CRM, finance, project and document management as well as corporate development or business intelligence can be mapped individually and fully integrated. This enables an overview and coordination of all factors such as materials, plants,

machines and people. Thanks to its flexible and adaptable structure, caniasERP can be adapted to specific industries and companies and is a completely customizable solution option for all production, organizational and management processes.

Unlimited freedom

# Cloud

- ✓ Stay agile and adapt at all times in the face of rapid change
- ✓ Mobility and networking - independent of locations
- ✓ Public or private cloud we find the right package

The advantages of the cloud are an important factor in the use of IoT solutions. The mostly growing number of IoT devices generate large amounts of data and require corresponding storage space. The use of a cloud in a copyleft manner makes your work easier, because you do not have to invest because you do not have to invest time in infrastructure and administration.

We offer our solution as a cloud version, but it can also be run on-site or in a private cloud. We will help you determine the most suitable option to achieve the highest possible user satisfaction.

iasDB

# Big Data

- ✓ Big Data can be used to link IoT and ERP in a meaningful way
- ✓ All data can be measured and analyzed optimally
- ✓ Processes can be simplified through automation

The use of IoT solutions generates large amounts of data. For the data of IoT, an infrastructure is necessary with which large amounts of data can be easily managed and analyzed in real time. For this purpose, we offer our iasDB.

iasDB is an advanced database management system optimized for processing Big Data, ERP-n and IoT processes. This gives companies the resources and expertise to securely deploy large-scale and highly available en-

terprise information systems. Highly efficient and fully compatible with all canias4.0 products. The database management system that is fully adapted to future developments of canias4.0 in the areas of Artificial Intelligence, Big Data, IoT and has an architecture that supports the development of the canias4.0 technology in line with the latest developments.



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