

Product Datasheet for WIAM Software Products

Product: WIAM® ICE



Scope of Application

WIAM® ICE is initially a freely configurable **data management system** without predefined data objects, tables and parameters.

The product is used for data management in technical areas such as used in test laboratories, in research and in product and material design.

With WIAM® ICE, the customer can **quickly** and clearly **structure** and digitize complex issues.

Customer Benefit

WIAM® ICE is used to **check, release and retrace** technical data, which can be compared, calculated, evaluated and processed. Because this data forms the basis for **digital processes** - for IoT, Big Data, AI -, **automation** and well-informed decisions.

The product enables individual configuration by the customer and additional modules for **product liability** and **quality assurance**.

Functionalities

Unlimited number of any data objects (objects, characteristic values, parameters, values, text, links, numbers, sources/ references, data areas, and much more)

Structuring of data objects in trees with a hierarchical structure and inheritance of information from top to bottom

Any number of data containers (tables) on each data object

Any number of data types or parameters in each table

Unlimited creation of **references** between the data objects and representation of connections via a **network graph**

Document indexing, references to internal and external documents

Search: **Keyword search** and search for properties and combinations of properties (**parameter search**)

Clear UIs for experts and standard users on **desktop / laptop, tablet and mobile**

Evaluation of data within the datasheet: Overview of any information of one or more objects

Comparison of data: tabular and graphical

Import & export functionalities for csv, Excel, xml, json



Product name: Expert User Interface of WIAM® ICE

Creation of **individual evaluations** from attachments and datasheets by applying formulas within the integrated formula engine (internal or external via JavaScript and Python)

Creation of any **masks** for processing / creating information in a clear and simplified form

Dashboard functionality: Manage any overview, results and tasks

Evaluation and comparison of **large amounts of data** with statistical analysis

Integrated **user management**: users, roles and authorizations with / without SSO integration

Configuration interface for **easy administration** of the software

Interface integration and use of data via REST API

Contact

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Digitization and Automation

WIAM® ICE is based on the server on the **JavaEE stack** and can therefore be used across platforms on **Windows and Linux**. It can be operated as a stand-alone solution, but also in a distributed environment with several parallel instances (on the AppServer or with Docker).

The software is **cloud-compatible** and is used productively in company-specific cloud environments as well as with public cloud providers (e.g. AWS).

For the integration in digitization and automation processes, WIAM® ICE has a **generally valid data format** (Excel, XML or JSON) with which the entire database or any sub-aspects (structure, transaction data, objects) can be mapped for data exchange (import / export) port). An associated mass data interface enables data transfer via a REST-API, considering the integrated rights management.

The product supports various **single-sign-on** concepts for integration into the corporate environment but can also be adapted to company-specific solutions. The connection to an Active Directory is configurable.

The frontend based on **HTML5 / Javascript** can thus be called up in modern browsers. No additional software is required on the clients.

WIAM® ICE has a scripting engine, WIAM® Formula Service, which, depending on the rights management, can be used to store and execute **algorithms** in Python and Javascript **for data processing** at runtime. Consequently, WIAM® ICE can be expanded by administrators or key users **at runtime** without having to update the application in the backend. In conjunction with the WIAM® **CRON** service, these algorithms can be **executed automatically in a time- or action-controlled manner**, which means that automated workflows can be designed.

Technical Requirements

Operating System: Windows 10+, Windows Server 2012+ Linux

Application Server: GlassFish 4, Apache Tomcat 8+, further on request

Database Server: MSSQL 2005+, MySQL 5+, Oracle 9+, PostgreSQL 9.3+

Hardware Requirements: Intel Core i5+ or Xeon E3+, 8GB+ Free Main Memory (RAM), 200GB+ Free Disk Space (HDD, SSD)

Operation, Maintenance & Support of application as **SaaS**

Secure Access by VPN, https, user rights

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