

JAG SAP Interface

The screenshot displays the JAG SAP Interface Console with the following components:

- Navigation Bar:** Transmission, Configuration, Material, Cockpit.
- Sub-Menu:** Mapping, Conversion, Storage, Batch Master.
- IDOC Tag Mapping:** A table for mapping IDOC tags with columns: Category, Property Name, IDOC Type, Tag Name, Parent Tag Name. It includes a 'Drag a column header here to group by that column' instruction.
- Article Category Mapping:** A table mapping SAP Material Groups to FPS Article Categories. Columns: SAP Material Group, FPS Article Category.
- Order Parameter Mapping:** A table mapping FPS Process, SAP Characteristic, and Parameter values. Columns: FPS Process..., SAP Characteristic, Paramete....
- Process Cell Mapping:** A table mapping SAP Process Cells to FPS Process Cells. Columns: SAP Process Cell, FPS Process Cell.
- Parameter Value Mapping:** A table for mapping parameter values. Columns: Param..., First I..., Second..., String..., Numeric....

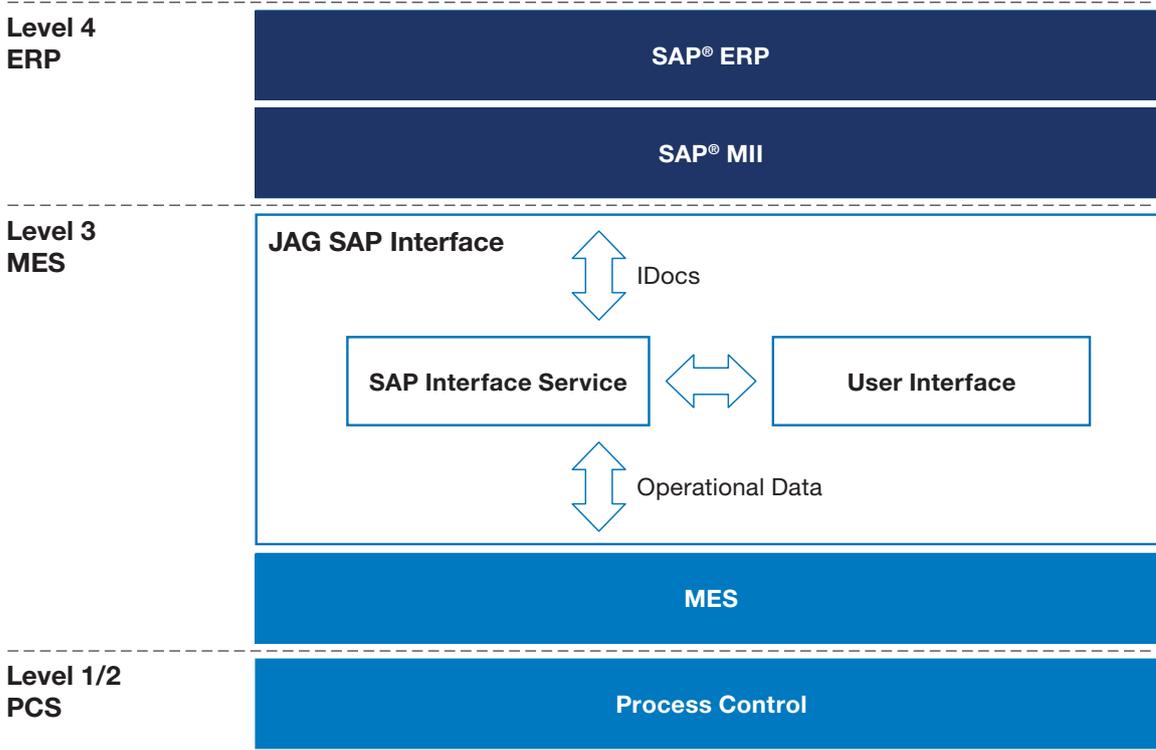
Seamlessly integrate JAG MES with SAP® ERP

- SAP® ERP is the leading Enterprise Resource Planning system in medium-sized and large companies. The vertical integration between the ERP system and the production facilities is becoming a widespread standard in the manufacturing and process industries.
- JAG started early implementing interfaces for automatic data exchange with SAP® ERP and gathered by now long-standing experience. Based on this experience we developed the JAG SAP Interface, a configurable standard solution. It reduces project-specific software development, and thus project risks and costs, to a minimum.

Features and benefits of the JAG SAP Interface

- Highly configurable, bidirectional data exchange
- Event-driven transmission and processing of IDocs
- Automatic, configuration-based data exchange with the JAG automation solution
- Audit trail
- Modern, clean and user friendly user interface for configuration and monitoring

System overview



Highly configurable, bidirectional data exchange

SAP® ERP offers different methods for the data exchange with third party applications. For production facilities and their Manufacturing Execution Systems (MES), the data exchange is usually implemented by exchanging data asynchronously (transactional).

The JAG SAP Interface comes with its own user interface, which allows configuring the mapping of data contained in IDocs to operational data and vice versa. The data exchange can therefore flexibly be adapted to the user requirements by configuration.

Typical examples of data being exchanged:

- Material Master (Articles)
- Process Order
- Transport Order
- Inventory Reconciliation (of local stock)
- Goods Issue (consumption feedback by Cost Center, Process Order or Scrapping)
- Goods Receipt Process Order (finished goods)
- Process Order Confirmations (status, phases)
- Batch Master Data

The focus of projects that implement an automated data exchange with SAP® ERP is on defining in detail the workflow, the events that lead to a data exchange and the data to be exchanged. A close collaboration between the owner, JAG and the SAP integrator is required.

Architecture

The classical three tier architecture consists of a Service, a separate application for the User Interface and an SQL database.

The Service is the heart of the JAG SAP Interface. It offers the following services:

- Event-driven transmission and processing of IDocs
- Configuration-based, automatic data mapping and data exchange with the JAG automation solution
- Monitoring
- Audit trail
- Data exchange with the User Interface for configuration and monitoring

The JAG SAP Interface allows a wide range of automatic data exchange applications based on IDoc, tRFC and BAPI.

System requirements

Component	Requirements
Server for SAP Interface Service	Windows 7/8/10 machine
Client PC with User Interface	Windows 7/8/10 machine
SQL Server	MS SQL Server 2014 or later