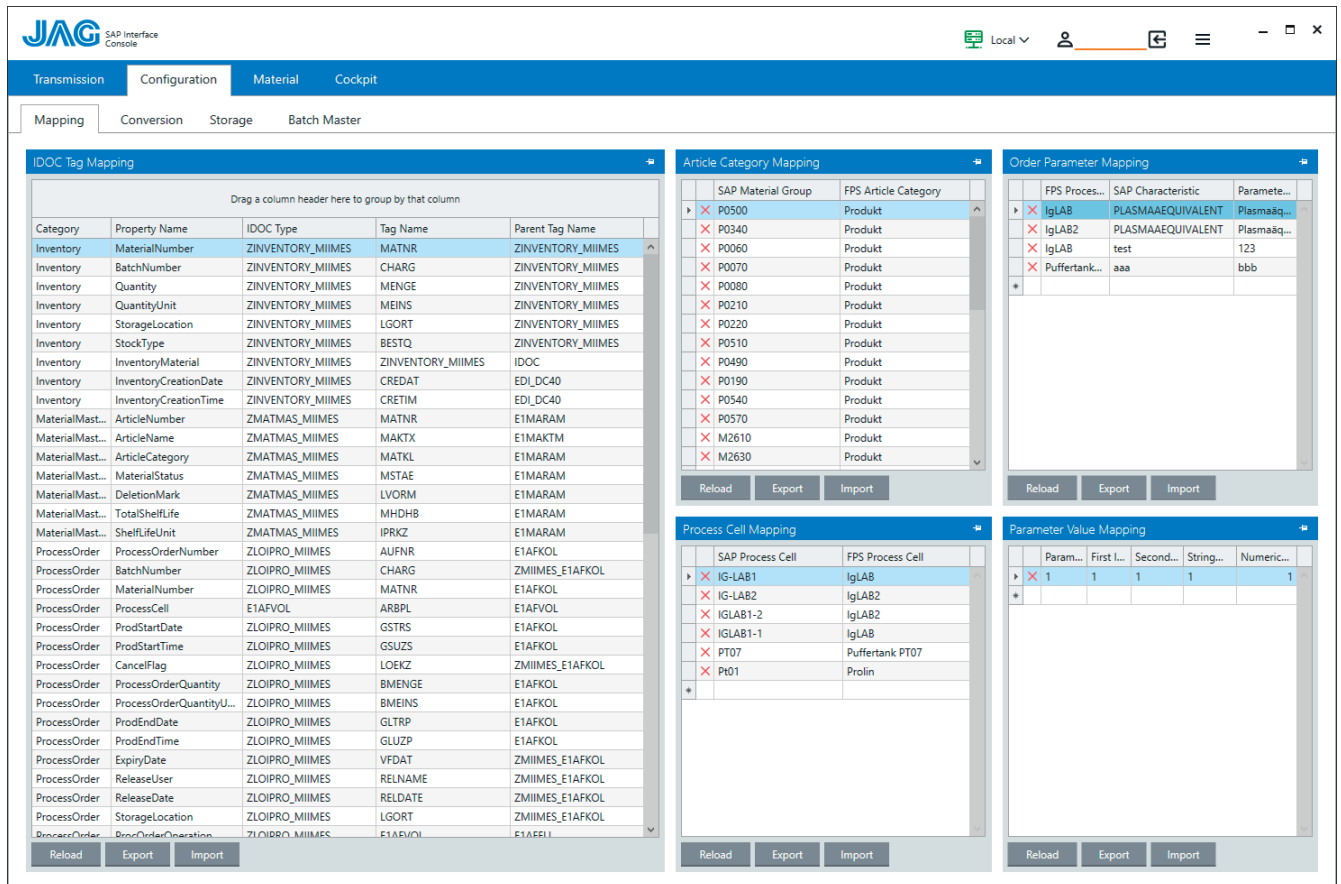


# JAG SAP Interface



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

- Navigation Bar:** Transmission, Configuration, Material, Cockpit. Sub-tabs include Mapping, Conversion, Storage, and Batch Master.
- IDOC Tag Mapping:** A table for mapping SAP IDOC tags to JAG properties.
 

Category	Property Name	IDOC Type	Tag Name	Parent Tag Name
Inventory	MaterialNumber	ZINVENTORY_MIIMES	MATNR	ZINVENTORY_MIIMES
Inventory	BatchNumber	ZINVENTORY_MIIMES	CHARG	ZINVENTORY_MIIMES
Inventory	Quantity	ZINVENTORY_MIIMES	MENGE	ZINVENTORY_MIIMES
Inventory	QuantityUnit	ZINVENTORY_MIIMES	MEINS	ZINVENTORY_MIIMES
Inventory	StorageLocation	ZINVENTORY_MIIMES	LGORT	ZINVENTORY_MIIMES
Inventory	StockType	ZINVENTORY_MIIMES	BESTQ	ZINVENTORY_MIIMES
Inventory	InventoryMaterial	ZINVENTORY_MIIMES	ZINVENTORY_MIIMES	IDOC
Inventory	InventoryCreationDate	ZINVENTORY_MIIMES	CREDAT	EDI_DC40
Inventory	InventoryCreationTime	ZINVENTORY_MIIMES	CRETIM	EDI_DC40
MaterialMast...	ArticleNumber	ZMATMAS_MIIMES	MATNR	E1MARAM
MaterialMast...	ArticleName	ZMATMAS_MIIMES	MAKTX	E1MAKTM
MaterialMast...	ArticleCategory	ZMATMAS_MIIMES	MATKL	E1MARAM
MaterialMast...	MaterialStatus	ZMATMAS_MIIMES	MSTAE	E1MARAM
MaterialMast...	DeletionMark	ZMATMAS_MIIMES	LVORM	E1MARAM
MaterialMast...	TotalShelfLife	ZMATMAS_MIIMES	MHDHB	E1MARAM
MaterialMast...	ShelfLifeUnit	ZMATMAS_MIIMES	IPRKZ	E1MARAM
ProcessOrder	ProcessOrderNumber	ZLOIPRO_MIIMES	AUFNR	E1AFKOL
ProcessOrder	BatchNumber	ZLOIPRO_MIIMES	CHARG	ZMIIMES_E1AFKOL
ProcessOrder	MaterialNumber	ZLOIPRO_MIIMES	MATNR	E1AFKOL
ProcessOrder	ProcessCell	E1AFVOL	ARBPL	E1AFVOL
ProcessOrder	ProdStartDate	ZLOIPRO_MIIMES	GSTRS	E1AFKOL
ProcessOrder	ProdStartTime	ZLOIPRO_MIIMES	GSUZS	E1AFKOL
ProcessOrder	CancelFlag	ZLOIPRO_MIIMES	LOEKZ	ZMIIMES_E1AFKOL
ProcessOrder	ProcessOrderQuantity	ZLOIPRO_MIIMES	BMENGE	E1AFKOL
ProcessOrder	ProcessOrderQuantityU...	ZLOIPRO_MIIMES	BMEINS	E1AFKOL
ProcessOrder	ProdEndDate	ZLOIPRO_MIIMES	GLTRP	E1AFKOL
ProcessOrder	ProdEndTime	ZLOIPRO_MIIMES	GLUZP	E1AFKOL
ProcessOrder	ExpiryDate	ZLOIPRO_MIIMES	VFDAT	ZMIIMES_E1AFKOL
ProcessOrder	ReleaseUser	ZLOIPRO_MIIMES	RELNAME	ZMIIMES_E1AFKOL
ProcessOrder	ReleaseDate	ZLOIPRO_MIIMES	RELDATE	ZMIIMES_E1AFKOL
ProcessOrder	StorageLocation	ZLOIPRO_MIIMES	LGORT	ZMIIMES_E1AFKOL
ProcessOrder	ProcOrderOperation	ZLOIPRO_MIIMES	E1AFVOL	E1AFELI
- Article Category Mapping:** A table mapping SAP Material Groups to FPS Article Categories.
 

SAP Material Group	FPS Article Category
P0500	Produkt
P0340	Produkt
P0060	Produkt
P0070	Produkt
P0080	Produkt
P0210	Produkt
P0220	Produkt
P0510	Produkt
P0490	Produkt
P0190	Produkt
P0540	Produkt
P0570	Produkt
M2610	Produkt
M2630	Produkt
- Order Parameter Mapping:** A table mapping FPS Process, SAP Characteristic, and Parameter values.
 

FPS Process...	SAP Characteristic	Paramete...
IgLAB	PLASMAAEQUIVALENT	Plasmaäq...
IgLAB2	PLASMAAEQUIVALENT	Plasmaäq...
IgLAB	test	123
Puffertank...	aaa	bbb
- Process Cell Mapping:** A table mapping SAP Process Cells to FPS Process Cells.
 

SAP Process Cell	FPS Process Cell
IG-LAB1	IgLAB
IG-LAB2	IgLAB2
IGLAB1-2	IgLAB2
IGLAB1-1	IgLAB
PT07	Puffertank PT07
PH01	Prolin
- Parameter Value Mapping:** A table mapping parameter values across different categories.
 

Param...	First I...	Second...	String...	Numeric...
1	1	1	1	1

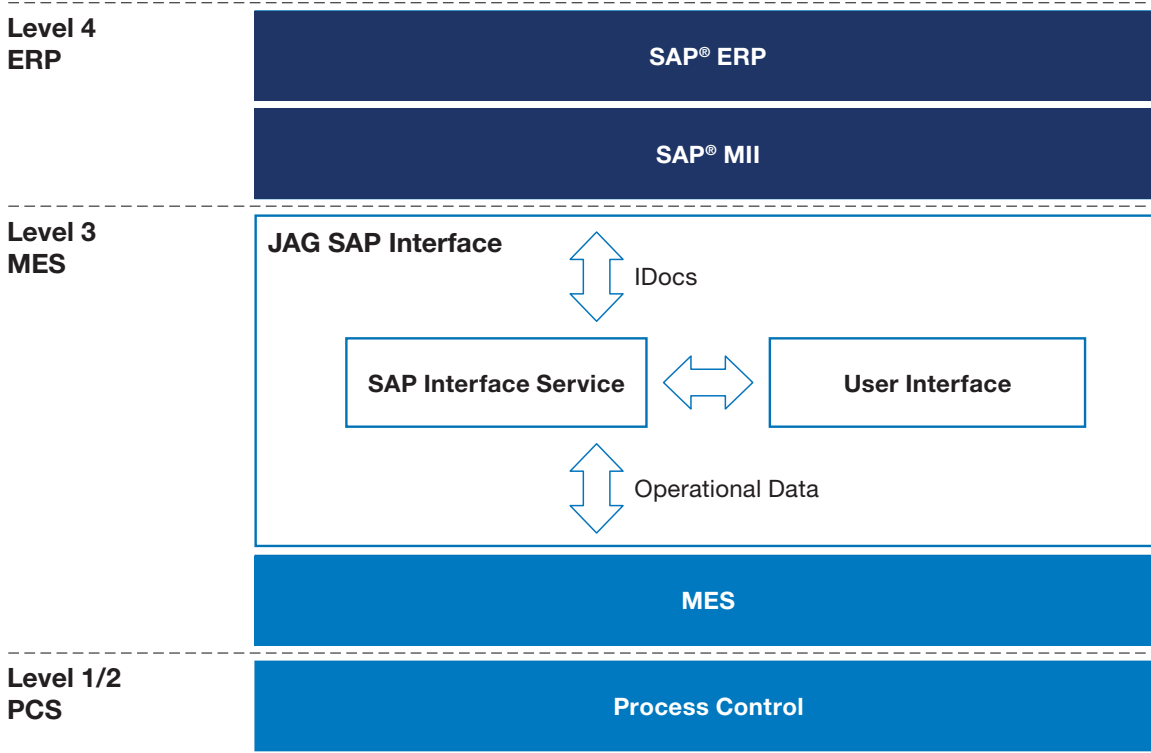
## Seamlessly integrate JAG MES with SAP® ERP

- 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