Automotive Consulting Solution

Interface SAP ERP JIS - MES
Agenda

1. Benefit for the Customer
2. Description of the Function
3. The Function in the System
4. Technical Information
Customer Benefit

Solution

- Proven solutions/services of SAP Automotive Consulting
- Solutions already running productive at several customers
- Solutions and documentation are available in German and English

Cost

- Exact calculation of implementation cost. Implementation for fixed price
- 6 months of free follow up care operations for bug corrections starting at the date of installation within the development landscape. Afterwards chargeable consulting support starts
- No additional ongoing costs (i.e. maintenance cost)

Time

- Prompt implementation possible
- Defined timeframe for implementation
Agenda

1. Benefit for the Customer
2. Description of the Function
3. The Function in the System
4. Technical Information
Motivation

- Sequenced (JIS) calls are received in the SAP ERP System
- Production should be controlled by a Manufacturing Execution System (MES)
- SAP is the leading ERP and master data system and transfers the relevant master data to the MES (no double maintenance of master data necessary)
- JIS calls are also transferred from the SAP ERP System to the MES
- MES reports the production stage to the SAP ERP System at predefined points in time
- Based on the reported production progress, additional actions can be performed in the SAP ERP System (e.g. backflushing via standard JIT action BFLU)
Concept – Data from SAP ERP to MES

- Master data are transferred in the respective standard format via IDoc
- Examples for transferred master data:
  - Material master
  - Classification
  - Bill of material
  - Etc.
- JIS calls are transferred to the MES via the new JIS action ZMES in the form of a SEQJIT-IDoc
- In the same way changes to the JIT call are transmitted
- Within the action matrix the processing state (production progress), up to which changes to the JIS call are possible, is defined
- Within an additional table it can be defined, which JIS supplementary texts (from table JITTE) are transferred into the IDoc for the MES
Concept – Data from MES to SAP ERP

- MES logs into the SAP ERP System via an RFC interface
- BAPI to call JIS actions in SAP ERP
- MES performs predefined actions in the SAP ERP depending on the processing state
- Examples:
  - ZSOP: Production started (no more changes to the JIS call allowed)
  - ZEOP: Production finished (as trigger for the backflush via action BFLU)
  - ZLIT: Load call onto truck (as trigger for the delivery)
  - Etc.
- Z-actions can be freely defined, also Standard JIS actions can be called
- Recommendation: If actions like BFLU or DELI should be performed by MES, the corresponding authorities for the RFC-User are necessary. Thus it is advisable that the MES only performs Z-actions without logic and that the actual posting is done by a standard action per job
Agenda

1. Benefit for the Customer
2. Description of the Function
3. The Function in the System
4. Technical Information
SEQJIT-IDoc from SAP to MES
Definition of JIT supplementary text for SEQJIT-IDoc

- For each JIT customer different fields can be selected
- Assignment to header segment respectively position segment is freely selectable
- For texts that are available in multiple JITTE levels, it can be defined which level should be transferred into the SEQJIT-IDoc
BAPI for action performance by MES

- The JIT part group is unambiguously identified by POSID
- The JIT action that should be performed is transferred in field action
- Additional transfer fields can be defined (in this example container and truck number)
- The information from the transfer fields are saved in the JIT call
Integration in JIT action matrix

ZMES: Transfer SEQUIT to MES

ZSOP: MES: Start of production

ZEOL: MES: End of Production

ZLIT: MES: Loaded in Truck

ACS Z-action for transfer to MES

Freely defined ACS Z-action for the status message MES to SAP ERP

Any desired integration of the ACS Z-action into the action matrix is possible
Agenda

1. Benefit for the Customer
2. Description of the Function
3. The Function in the System
4. Technical Information
Technical Information

Available for SAP ERP ECC 6.0

Activation of automotive industrialized solution in SAP ERP System necessary

Technical installation is possible remotely

Modification-free

Delivery in Z-namespace
Source of Information

Internet
Overview-, Detail- and Customer presentations

- http://www.sap.com/acs

Email - distribution list
Signing up through mario.rebitzer@sap.com

OSS-System
Notes  (Search term: Automotive Consulting Solutions)
Thank you!

Mario Rebitzer
Platinum Consultant
Industry Area Automotive

SAP Deutschland SE & Co. KG
Hasso-Plattner-Ring 7
69190 Walldorf, Germany

M +49/ 170 22 00 287
S +49/ 6227 7 44674
E mario.rebitzer@sap.com