

## SCM\_GIA / SAP\_BDE (Plant Data Collection)



To be successful on the market today against fellow competitors, the product as well as the use of resources must be perfectly planned, implemented and monitored.

Current operating data with the  
integrated SAP solution

Unfortunately, the prerequisite for an efficient acquisition of the current data is frequently not given. GIA developed an operational data recording solution that is directly integrated in SAP – a solution that is 30–50% more cost efficient during the introduction as well as during operation than a coupled PDC (Betriebsdatenerfassung) system from a third party.

### The most important deficiencies of the pass-through control without PDC

- Order progress reports are often too late, imprecise and incomplete.
- Scheduled processing times, such as setup and machine time, have been included in the work schedule at some time and then never adapted again since the actual values are unknown.
- The pre- and post-calculation is generally not meaningful since target = actual is often used for the feedback.
- The company costs are unfairly distributed to the articles because of incorrect values.
- Additional load for employees through complex monitoring effort.
- Interruption and standstill times are not known.
- Prerequisite for a correct performance-based remuneration is missing.

Our solution requires no additional PDC system. The required PDC functions are implemented within the existing SAP system.

The solution from GIA is designed for companies that use SAP and is suitable for a new installation, but also as a replacement of an outdated PDC solution. The operating data recording builds on the existing standard feedback functions of SAP. Together with additional in-house developments, the result is a well-rounded package of functions that covers the requirements of operating data recording for manufacturing industries. Our solution provides the following advantages:

- Interfaces to other products can be forgone.
- No additional software evaluation and purchase.
- Commercially available PCs can be used as input terminals.
- The feedback for multi-machine operation, which is often a problem with coupled PDC, is covered in its entirety.
- Problem-free change from «local» to «remote» for procedures that have already been started.
- Immediate data availability for production and cost controlling.
- More purposeful pass-through control is possible

| Features   | Advantage / Benefit  |
|--|--|
| No additional interfaces required  | Lower expenditures in implementation and maintenance thanks to a solution without interface.   |
| No manual interface monitoring required  | Minimization of errors and cost reduction during operation   |
| Use of a familiar application environment  | Motivation of employees and no additional training effort required   |
| No difficulties in case of a release change given different SAP/PDC release states                       | 100% release-ready – because the PDC module is an integrated component of SAP. The additional release change for the PDC module from a third-party provider is omitted |
| Plausibility checks are already in place   | No separate plausibility checks  |
| Data consistency is ensured  | The existing data are available in real time, no delay from canceled data transfers. Hence, information transparency is ensured  |
| Authorization concept can be implemented with existing tools   | Know-how exists. No additional training effort required  |
| ALV functions (such as export to Excel, subtotals, hide/show columns) are available                      | Broad user knowledge can be implemented directly. Faster and more efficient introduction   |
| Required individuality can be implemented thanks to the expansion concept of SAP                         | More flexible in-house further development possible without depending on another product manufacturer  |
| System availability ensured in the same scope as before  | No loss of production due to malfunctions during the data exchange   |
| Investment protection  | Further development is ensured since a strong software manufacturer (SAP) is responsible for the overall application.  |
| One contact person   | Everything from a single source. Responsibility with one partner reduces unnecessary questions concerning respective competence  |
| Multilingual, German and French available, additional languages in accordance with SAP translation logic | Acceptance by users  |
| Touchscreen operation  | Easy data recording by the user (without keyboard)   |

### Scope of Functions

- User feedback function
- Administrator feedback function (variable reporting time)
- Start, interruption and end message with different interruption reasons, individual pause message
- Multi-machine operation
- Optional quantity and scrap message
- Partial end / end message possible based on individual work center control
- Touchscreen control



Touchscreen

### Evaluations:

- Overview of occupied work centers
- Feedback after production order or feedback no. with branching to cancellation function
- Performances for work centers and employees

Customer-specific expansions are possible at any time. The use of hardware, such as monitors, keyboard, scanner, Legic, etc., depends on the emissions in the respective work environment. Under consideration of the existing infrastructure, the hardware can be procured by GIA or the customer

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