

TAKEOVER OF CHANGES AND EVALUATION REPORTS FROM PRODUCTION SITES

Smart Solution for SAP

Staff in manufacturing departments often note important changes directly on the drawing. But how can this handwritten information on production documents and evaluation reports automatically be transferred into the SAP system? SEAL Systems has the right solution for this.



During the production and assembly process, beside the usual SAP production order, often technical drawings are needed. The ideal case would be that these drawings contain all information, which is needed at the production site. But in practice it happens that some parts cannot be produced as it was originally designed by the constructor, or that the drawing contains errors. In many cases the required changes are noticed by the staff members directly on the drawing by handwritten annotations. A similar situation can happen if external evaluators write down their notifications on the checked drawings. After the assembly of the equipment or the evaluation is finished, usually the changed drawings have to circulate as papers to several departments in order to enter the changes into the SAP system. In this process, some errors can happen, for example, the accidental assignment of changed drawings to the wrong material or equipment. The manual, paper-based return flow process causes also time

delays. In the worst case, the same faulty technical papers are used during the next parts production cycle.

Enterprises can completely avoid all these disadvantages by adding some smart extensions to the SAP system. The automatic process starts with the distribution or output of the documents and ends with the scanning and storage and further processing. This method avoids not only errors, but reduces the cycle time of the whole production process chain.

Document Output with Barcodes

With an extension all production relevant drawings and the required meta data, like status, document key or production order number, can be retrieved besides the SAP production papers. This also enables the quick and efficient creation and distribution of document lists, for example, to an auditor. A special server starts the preparations of the

output job, for example:

- Printout of SAP forms
- Output of attached drawings
- Stamping of barcodes and other distribution information

The software stamped barcode contains all information for later further on processing, like document key, production order number or status. According to the industrial branch and application scenario, the barcode should still be readable also, in case of pollution, which could happen in production environments. In practice 2D barcodes are the best choice compared with 1D barcodes, because information is redundantly coded.

In addition, further information can be stamped as clear text for document control, for example, production order number, Technical Place, print data etc.

According to the requirements, the output is done on an Office printer or a large format plotter directly in the production site, in the assembly preparation or with email and web portal. With large production lines documents can also be separately output and sorted at each work place.

After the documents have passed the process and changes were made in the single drawings, the returned documents are collected at a central place and separated in two piles:

- Paper without changes (without hand-written additions)
- Revision necessary (there were hand-written notes for changes on the drawing)

