

ManDos and SAP integrated

Manual weighing fully integrated into the IT infrastructure

Aims and applications

The last few years have been shaped by the constantly increasing link between production and commercial systems.

There is a need to link production systems directly to the planning and commercial level (Enterprise Resource Planning – ERP).

In the ERP sector will be applied for example SAP, Baan, Navision, as well as AS400 based system. All of these systems provide interfaces for linking

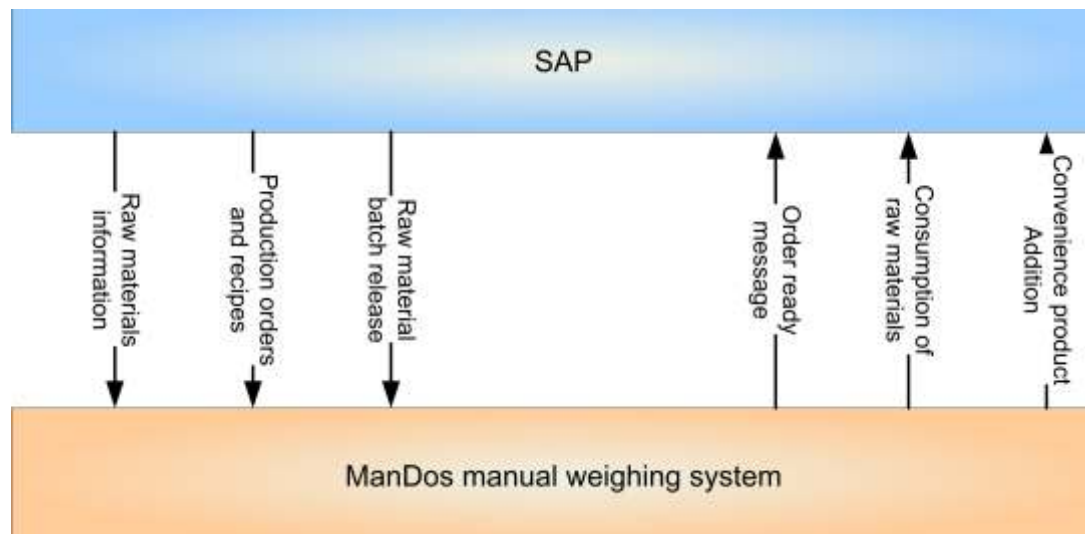
production systems directly to the ERP systems.

The ManDos manual weighing system has an interface for communicating directly with SAP. The production specifications should generally be transmitted automatically to ManDos and the results fed back accordingly.

Benefits and advantages for customers

- ✎ Avoidance of duplicate data management
- ✎ Reduction in the work involved in production preparation and documentation
- ✎ Avoidance of error sources caused by manual data transfer
- ✎ Use of existing SAP planning and tracing functions

THE INNOVATION



The interface

ManDos provides an interface directly into SAP.

The interface is an optional function and can either be installed at the outset or alternatively retrofitted. A variety of different coupling paths can be used depending on the SAP configuration in place.

The coupling paths

- ✎ PP PI PCS process interface
- ✎ RFC/IDOC interface
- ✎ Database interface
- ✎ ASCII file interface

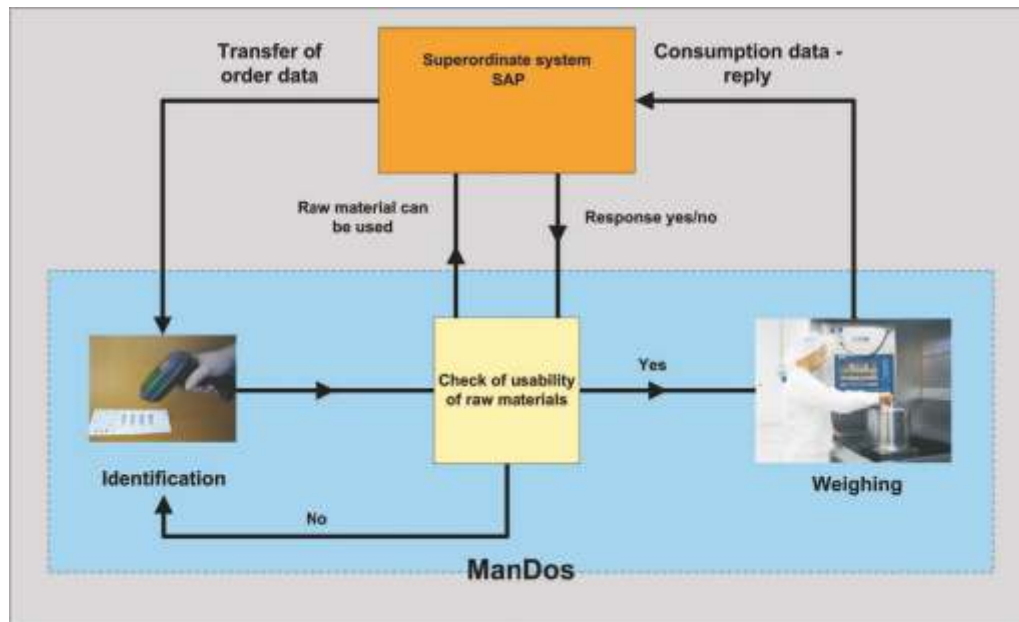
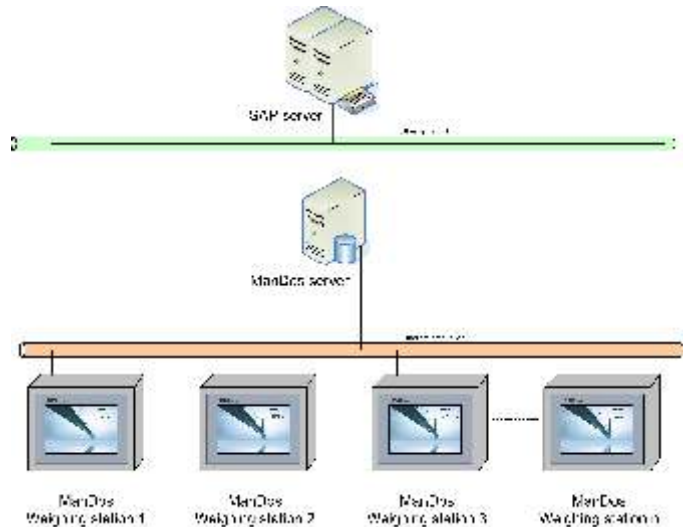
The selection of coupling paths depends on the SAP installation in place, on the available customer-specific interfaces programmed in SAP and the scope of the data exchange. Several coupling paths can also be used to utilise the existing SAP configuration as best as possible.

Possible application

A customer has several manual weighing stations for the recipe-managed weighing of small components. These are to be linked to the existing SAP system. Orders and recipes have been transmitted by SAP and consumption data, including the raw material batches used, is to be fed back, as SAP is often the central element in batch tracing.

The system has been equipped with a central server and several weighing stations, each of which has an industrial PC and barcode readers to identify the raw material batches.

The central server provided the interface to SAP and the data pool of existing production orders to the workstations.



Online raw material batching monitoring

Of key importance is the real-time monitoring of raw material batches. This means that it is possible to check before every use and, therefore before every manual weighing process, whether the raw material batch has been released and whether there are still sufficient supplies. This prevents inconsistencies in stock management of raw materials within SAP. In addition quality-related modifications, such as the blocking of a raw material batch, can be immediately conveyed right up to production level. Expensive reworking or recalls are thus avoided from the outset.

Conclusion

ManDos offers:

- ✓ Fully documented production with direct specification from the ERP system (SAP)
- ✓ Automatic data transfer – avoidance of manual data transfer errors
- ✓ Fast transmission of recipe changes or quality-related information
- ✓ Direct data transmission for

documenting raw materials used as a basis for the scheduling of raw materials and as a source of data for batch tracing

- ✓ Immediate preparation of production results for the further production planning of subsequent processes

Linking manual weighing processes to SAP will ensure more efficient and reliable production despite the purely manual nature of the process. It will provide a host of benefits to customers, which will ultimately result in cost-savings and thus contribute to more effective production.