

End-to-end processing with SAP DSC at Roche

Roche: Introduction of the Logistics Application Landscape at the Basel/Kaiseraugst site logistics on the basis of SAP S/4HANA



Roche is one of the world's largest biotechnology companies and has two divisions under one roof: Diagnostics and Pharmaceuticals.

Roche has 20 production sites and 27 R&D (research and development) sites worldwide. The head office with more than 10,000 employees is located in Basel and Kaiseraugst. The "LAL" (Logistics Application Landscape) project involves the introduction of an SAP-based software solution for site logistics in Basel and Kaiseraugst.

The project

The site development in Basel & Kaiseraugst, including various structural changes and new buildings, provided the impetus for the „LAL“ (Logistics Application Landscape) project. The aim was to harmonize the site logistics processes and standardize the systems in order to be optimally positioned for the future. By using standard SAP solutions, the Group strategy of a future SAP S/4HANA environment was also to be taken into account.

At a glance

Project goals

- Harmonization and standardization of logistics processes using SAP systems that function in the future SAP S/4HANA environment
- Background: site development (in particular construction measures and changes) in Basel and Kaiseraugst creates a specific need for action

Solution

- SAP S/4HANA with the SAP EWM, SAP TM and SAP YL modules
- Service portal (including order entry for end users) based on SAPUI5
- Use of Körber add-ons K.Motion S/CEP for connecting CEP providers and K.Motion S/TCS for mapping internal transports

Main benefits for the customer

- Central logistics platform with homogeneous processes in an integrated SAP solution
- Simple and easy access via user-friendly SAPUI5 dialogs



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Before the project, there were 270 heterogeneous processes spread across 13 applications. There were only a few „standard“ solutions and, for the most part, many individual, „customized“ or manual solutions.

This has changed with the LAL project, in which eleven main processes now run integrated in an SAP solution, thus also ensuring the degree of coverage for future requirements. The focus of site logistics here is to allow internal customers to concentrate on their main business and for site logistics to handle the end-to-end logistics process.

The solution

Site Logistics offers its internal customers end-to-end end-to-end logistics solutions for Roche's internal customers services can be configured from seven central modules. can be configured. The core includes services in the areas of warehouse management internal & external transport management, yard management management and customs clearance, which in SAP S/4HANA mainly via the modules EWM (Extended Warehouse Management) (Extended Warehouse Management), TM (Transport Management) and YL (Yard Logistics) modules. modules. Together with the different transport directions (Internal -> Internal, Internal -> External, External -> Internal, External -> External), there are more than 50 possible configurations that can be offered to internal offered to internal site logistics customers.

In addition to the use of the standard modules TM, EWM and YL, the SAP solution architecture consists of the SAPUI5-based „Service Portal“ developed for Roche, which serves as a central access point for order entry and monitoring for all internal customers (i.e. employees at the Basel & Kaiseraugst site). In addition, the Körber add-ons S/CEP were used to connect the CEP providers and S/TCS to map the internal transports on the Basel & Kaiseraugst site.

The SAP standard document „Forwarding Order“ from SAP TM is used for the so-called end-to-end order, which serves as a central, comprehensive document in order entry and processing. This enables automated and system-supported order processing. It also provides a comprehensive, transparent order status with regard to compliance and the work progress of the various service providers. A special feature here is that it is possible to work without material master records. This means that with SAPUI5-based order entry, the user is guided clearly and ergonomically to enter the necessary attributes and properties of the order in just a few steps. These are stored in the end-to-end order and the corresponding goods or documents can be identified via handling units. Using appropriate mobile devices, pick-ups or deliveries at the workplace or to the mailbox or even warehouse movements & packing/unpacking - especially in the logistics hub - as well as loading and unloading are easily recorded and booked in the system. Incoming and outgoing shipments can be monitored and planned by booking time slots in SAP YL. All of this is integrated into the processes in the logistics hub, so that efficient and targeted work is possible. The external service providers can gain access to the registration and booking of transports via a self-registration process that meets all the necessary security requirements.

The first phase of the LAL project went live in February 2022. The subsequent optimization phase went live in February 2023, and work is currently underway on further phases of LAL. With the construction of the new pRED research center, LAL will be the central platform for the logistical supply of the pRED center in the future and thus take over the control of all material flows. In addition, another warehouse system is currently being replaced and will be mapped with the LAL solution's SAP EWM in the future.

„The collaboration with Körber was very positive and based on partnership. It quickly became clear that there was a cultural fit between us and that we had similar views and values. So the project went very well!“

Andreas Decker

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