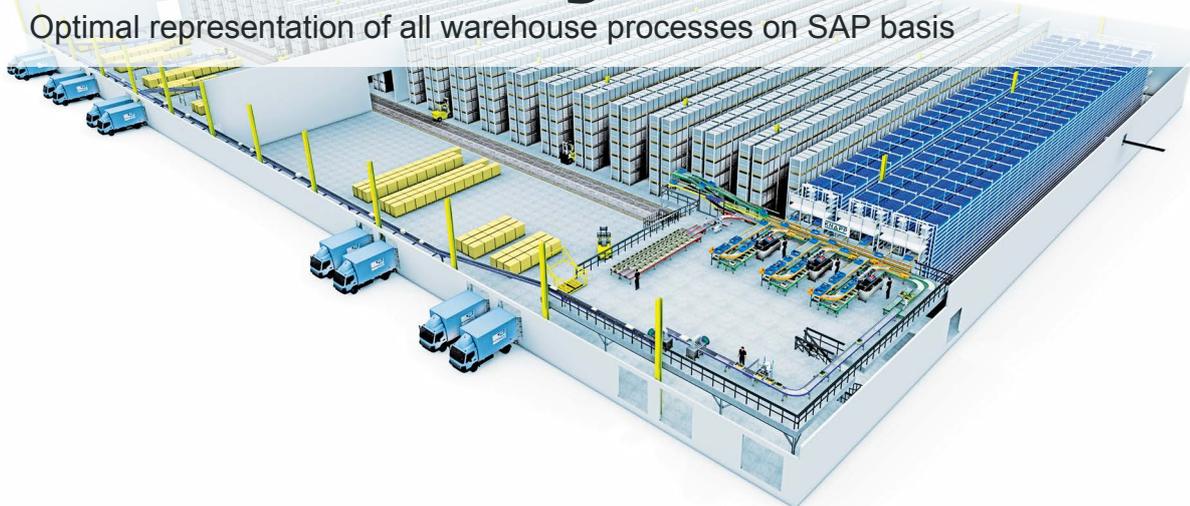


SAP EWM by KNAPP

Optimal representation of all warehouse processes on SAP basis



Best practice: rapid success!

KNAPP's 1,500 installed solutions worldwide shows the one of a kind experience and competency in selected target sectors – our experience is proof: More than 80 percent of the warehouse processes in one sector are identical. KNAPP has already preconfigured these best practice solutions in the SAP EWM, so that, in a project, we can concentrate on realizing the customized processes in the most optimal way for each customer. Within just five days, we can prepare an EWM basis installation for you, with which you can already carry out the core processes on the system, such as goods-in, storage, replenishment, picking or dispatch. KNAPP customers therefore not only profit from quick transit times but also from the fact that the use of proven processes minimizes the project risk.



Solutions for every degree of automation end-to-end in SAP

With the integrated MFS (Material Flow System), SAP EWM offers the option of directly coupling SAP to the control system. KNAPP offers compatible drivers for the automation solution SAP EWM that covers real time control. Pallet as well as container conveyors can be controlled through SAP MFS. High-performance KNAPP technologies, such as the OSR Shuttle™ or the Central Belt System with autopickers such as the fast-mover autopicker SDA can also be controlled through SAP MFS.



Efficient operation for work stations and RF terminals

KNAPP optimizes the SAP EWM dialogues for ease of operation; for example, unnecessary information is hidden and several transactions are combined. The operation of the user interfaces through touch screens simplifies the workflow even more. The project is realized with 100 percent standard SAP resources.

Customers profit from the efficient warehouse processes, simple maintenance and releases. Through the integration of innovative KNAPP technologies such as image analysis and image processing, the user is reliably guided through complex environments and work processes, for clear improvements in quality and efficiency.



SAP IT strategy end-to-end across the warehouse

For a few years now, SAP EWM has made it possible to use end-to-end SAP processes even in complex warehouses: while the standard ERP warehouse functionalities (WM/LES) only realize simple warehouses and make comprehensive custom programming at a medium requirement level necessary or require additional modules. SAP EWM is THE strategic warehouse solution and offers customers with a clear SAP IT strategy all the advantages of a SAP solution, especially the unified server and base technology, the optimal integration with other SAP modules, such as production supply, ASN (Advanced Shipping Note), dangerous goods (Environmental, Health and Safety Management), and customs (Global Trade Services, etc.).



Supply Chain Execution – in the warehouse and beyond

SAP is a best of suite supplier and covers not only the mid-level and high-level requirements with EWM and KNAPP know-how, but also requirements that go beyond the warehouse. With the EWM integrated labour management, planned times can be determined, where the walking times are calculated to simulate the work load, staff allocation planning and bonuses. Yard Management and Dock Appointment Scheduling are used to manage the doors and the yards. Integration with SAP TM (Transport Management) and SAP EM (Event Management) makes it possible for optimization to extend beyond the warehouse: optimization of incoming and outgoing streams of goods, carriers and freight cost management, track and trace, etc.



Future-oriented, releasable and easy to maintain

Standard or individual software? The answer to the question which solution fits best, always depends on the customer requirements. With SAP EWM, KNAPP supplies an individual standard WMS, tailored to the customer requirements. Customizing provides most of the settings without requiring additional programming. Numerous BADs (Business Add Ins) offer the chance to expand the system through ABAP programme. KNAPP exclusively uses the SAP standard for EWM projects (making releases possible) and trains the customer, when desired, with respect to maintenance and the further development of the delivered system.

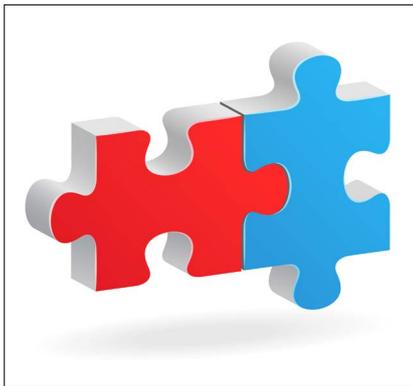


Supply Chain Execution Platform



Successful execution of critical projects

Within a few days, KNAPP installs a completely functional EWM system at the customer site, in which the blueprint phase is used to evaluate processes early on in the system, and to ensure the critical factors for success in a proof of concept. The detailed planning of the tests (integration and mass tests), migration and ramp-up phases ensure a successful startup. Support according to need (on site and remote) represents optimal assistance and ensures project success. Corresponding checklists ensure the necessary participation of the customer for a successful project from the preparations to the training and the successful operation of the system.



Innovative solution applying the optimal technology

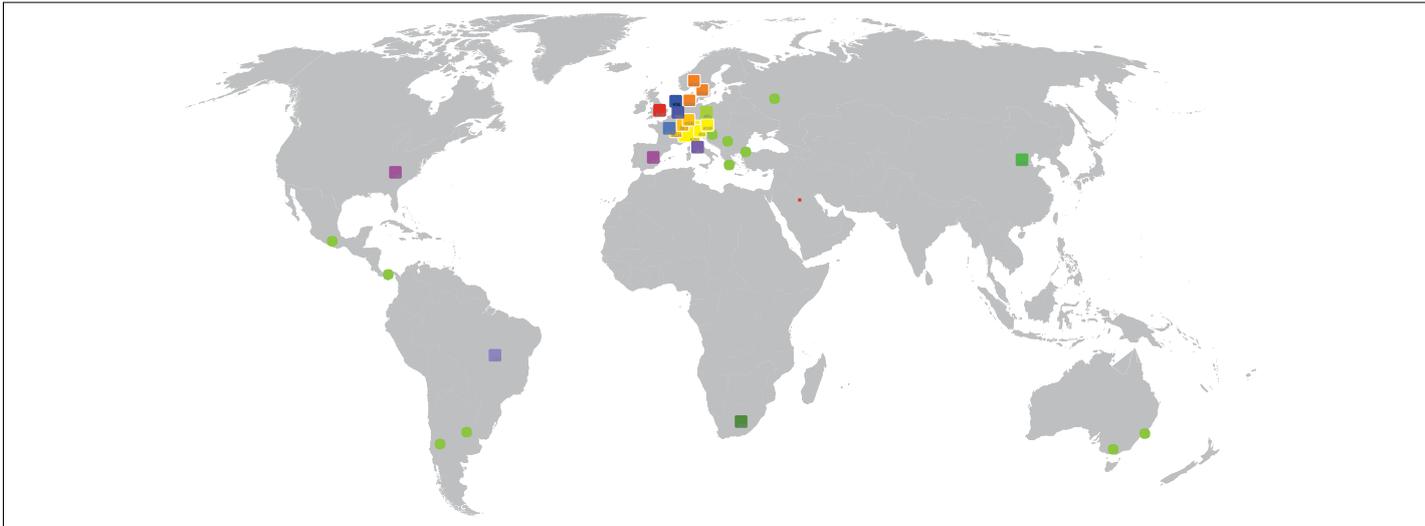
In modern distribution centres, processes are often optimized over years: In order to further increase productivity and at the same time reduce error rates, innovative solutions and optimal technology are called for.

To this extent KNAPP, in combination with SAP EWM, offers optimal technologies for manual areas with RF technology, KiSoft Voice and KiSoft Vision and also has trendsetting key technologies for semi- and fully-automatic applications with the OSR Shuttle™, the Central Belt System, packing arrangement calculation and load carrier optimization. Image recognition technology makes it possible to automatically identify goods and storage locations and to determine the location of resources such as forklift trucks in real time.



Well-equipped for the future

During the preparations for introducing EWM, all processes are checked for their optimization potential, and are optimized during the introduction phase. The increase in productivity after such an introduction of the EWM system typically ranges between 10 and 30 percent, depending on the size of the warehouse and the complexity of processes. Due to the extensive possibilities for parametrization, the clear strategic focus of SAP lies on the Supply Chain Execution and KNAPP's expertise as innovative leader in all-in-one intralogistics solutions, customers with KNAPP SAP EWM are perfectly equipped for future challenges.



Worldwide: 1,500 installations + 200 SAP logistics experts

KNAPP ranks among the world market leaders of suppliers of intralogistics software and complete solutions for manual, semi- and fully-automatic warehouses. Benefit from our experience from over 1,500 KNAPP solutions and more than 600 software experts (of which around 200 are SAP logistics experts) in Austria, Brazil, Germany and USA. The KNAPP experts have project experience in more than 50 countries, including the corresponding language skills and socio-cultural competence.



7/24 support – contact in any case of emergency

The key factor of modern warehouse logistics is optimal availability. We are committed to giving you that decisive competitive advantage with KNAPP technicians as reliable service partners providing expert customer service round the clock, 365 days a year. Fast and professional help in error cases based on ITIL® standards guarantees high-quality service in six languages. No matter how complex the problem, we always find a solution and take over incident management for you. We deliver remote diagnosis and solutions, proactive system monitoring and mobilize technicians to provide on-site support.



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