

Körber Supply Chain Consulting

# SAP Digital Supply Chain

Körber and SAP



# Körber - Your SAP Implementation partner



**IT + Prozess  
Know-how**



**Long-term partnership  
cooperation**



**IT and system  
technology**



**Economically  
strong partner**



**Everything from a  
single source**



**Cloud**



**More than 250  
experts**



**First-class  
advice + service**



**Industry solution**

# Content

---

<b>SAP Supply Chain Experts</b>	<b>04–05</b>
<b>Digital Transformation</b>	<b>06–07</b>

---

<b>SAP Extended Warehouse Management</b>	<b>08–09</b>
<b>SAP Transportation Management</b>	<b>10–11</b>
<b>SAP Yard Logistics</b>	<b>12–13</b>

---

<b>SAP Business Network for Logistics</b>	<b>14–15</b>
<b>K.Motion SAP Supply Chain Add-ons</b>	<b>16–17</b>

---

<b>Körber Best Practices</b>	<b>18–19</b>
<b>SAP Technologies</b>	<b>20–22</b>
<b>IT Technology with Körber</b>	<b>23</b>
<b>Your strong partner</b>	<b>24</b>
<b>References</b>	<b>25</b>

# SAP Supply Chain Experts

**With Körber you have a strong partner by your side who keeps an eye on the whole Supply Chain Execution.**



## **About us**

Körber Supply Chain Consulting advises and supports companies in the implementation of SAP Digital Supply Chain solutions, such as SAP EWM / SAP TM / SAP YL among others. As an SAP PartnerEdge Gold Partner for supply chain applications, Körber Supply Chain Consulting provides not only project and implementation expertise, but also SAP-based add-ons which meaningfully complement and enhance the available standard solutions. Together with its sister companies, Körber offers comprehensive supply chain solutions which encompass material transport systems and automation solutions in addition to the SAP solutions.

„Conquer supply chain complexity“ – with Körber.

The Körber experts also help you with:

- Technology advice (e.g. interface development, order picking technology, devices)
- IT technology and IT infrastructure advice (e.g. site survey, WLAN design, mobile devices, server design)
- Feasibility studies (e.g. comparison between SAP LE-TRA and SAP TM)
- Integration of your ERP processes such as Production (SAP PP), Materials Management (SAP MM), Sales and Distribution (SD) and Quality Management (SAP QM)

When it comes to SAP services, Körber is one of the biggest independent SAP partners for logistics IT solutions. The company is also certified as an SAP Recognized Expertise Partner for Supply Chain Management/Extended Warehouse Management – recognition from SAP which marks Körber out as a qualified service partner for the realization of logistics solutions.

### **Seamless process integration as a challenge in logistics:**

In today's digitally-driven world, staying in control of your entire supply chain is essential for success. Körber's consultants offer our customers the rare mix of SAP consulting expertise, extensive know-how of logistics processes and expertise in logistics automation, which enables solutions tailored to your specific logistics challenges. This combination, coupled with many years of project experience, sets our consulting service apart. This allows you to take control of your supply chain and to turn it into a competitive advantage.

### **Körber offers you the following benefits:**

- Extensive experience in customizing of SAP systems, not limited to just logistics modules, but also including typically related modules
- Established logistics expertise in a wide range of industries, with understanding of the specific challenges in these environments
- Very good knowledge of the integration of and interaction with automated technical systems, innovative order picking support (voice, light, robotics), and a very wide selection of periphery equipment
- Seamless integration of the SAP Supply Chain Logistics Suite into SAP S/4HANA or SAP ERP

### **Implementation in the SAP Digital Supply Chain**

Our implementations fully leverage SAP's industry-leading "single platform" approach, resulting in seamlessly integrated, end-to-end supply chain processes. In addition to the traditional customizing, with its own namespace Körber can integrate customer-specific, release-ready add-ons into the systems and use them to optimize the customer processes.

We also offer SAP-based add-ons in order to meet customer requirements beyond the standard functions. These will further enhance your solution's end-to-end performance. Training, project management, test support and other components of traditional, but also agile project management round off the portfolio.

### **The Körber benefits**

- **The right solution:**  
With our extensive experience in logistics and supply chain management, we can help you on the way to your optimal solution
- **Future-proof:**  
With the robust, modern SAP S/4HANA platform, SAP provides the basis for the future, and we show you the way there
- **Wide module knowledge:**  
For the integration into your SAP landscape, we also help you to make the necessary adaptations to the other modules used
- **Extensive experience:**  
With our unique combination of SAP consulting experience, technical knowledge and many years of experience in logistics, we can help your project succeed

### **The Körber difference**

We are one of the biggest independent SAP partners for IT solutions across the entire supply chain. As a strong and respected SAP partner, for more than 15 years we have received multiple awards for partnerships and have been awarded the status SAP PartnerEdge Gold Partner. Due to our status as a ramp-up partner of SAP, we test new versions and product improvements before their release and can also implement these at selected customers. Due to this advantage, we – and as a result our customers – are always one step ahead.

# Digital Transformation

## The path to digital transformation with Körber.

Digitalization affects all areas of life, shopping over the internet has long been a firm part of our lives. In the supply chain, there are marked differences between the industries concerning the degree of digitalization. In the automotive industry, call-offs have been allocated and activated digitally across the various supply stages for decades, while in other industries much of the process is still heavily paper-based.

The SAP Digital Supply Chain products provide the technical foundation for the full digitalization of logistics for a wide range of industries. With the seamless networking of process across the parties involved, entire processes can be digitalized and therefore automated. Digitalization is not an end in itself, its purpose is always to prevent errors or to improve effectiveness in the supply chain.

Körber has been supporting its customers for many years in the implementation of SAP Digital Supply Chain solutions. Due to their decades of experience, our experts know the challenges and how to handle them. Our experience will lead to the success of your project. Small adjustments to the process can have a serious impact and be the difference between success and failure. Benefit from the experience of our motivated staff.

Digitalization is more than a mega trend, it is a major change in economic life and society. We will gladly take the next step on this path with our customers in order to reduce some of the complexity in the supply chain through digitalization.



# SAP Extended Warehouse Management

SAP Extended Warehouse Management (SAP EWM) is an integrated, highly flexible Warehouse Management System for all industries. SAP EWM supports all common processes in your warehouse – from simple, manual processes to complex, highly automated processes.

SAP EWM enables full transparency of and control over your inventory and at the same time optimizes processes in order to maximize efficiency. It can be integrated seamlessly into SAP S/4HANA, SAP ERP and the other applications of the SAP Digital Supply Chain. These include the modules SAP TM (Transportation Management), SAP YL (Yard Logistics) and SAP BN4L (Business Network for Logistics).

## **Challenges in the warehouse for SAP users**

SAP EWM was developed specifically for companies which use SAP S/4HANA or SAP ERP in order to integrate logistics functions with the traditional ERP functions, to maintain the flow of documentation throughout the logistics process as well and to optimize the warehouse management and related business processes. Körber will help you to use the functions of SAP EWM optimally and to overcome the following challenges:

- Optimized implementation, regardless of the size of company or the underlying business process requirements
- “Seamless” integration of SAP EWM into the SAP S/4HANA or SAP ERP system landscape
- Full transparency of inventory and warehouse processes
- Integration of logistics and industry-specific automation hardware, based on the standard interfaces and process integration functions of SA
- Effective support of multi-client environments





### **SAP EWM for your warehouse logistics**

SAP EWM provides a future-proof system with comprehensive support of logistics processes and full transparency of inventories and business processes.

Körber has extensive experience of highly complex and highly automated warehouses. Our consultants can use the full flexibility of SAP EWM in order to ensure that the system is adapted perfectly to meet the needs of every customer. Due to our many years of experience in the market, we can support and advise you in the implementation of SAP solutions in greenfield projects as well as in the impending migration from SAP WM / SAP LES to SAP EWM.

The SAP EWM MFS (Material Flow System) that is included integrates and optimizes your warehouse automation: from automatic storage and conveyor technology systems to transport routes, interleaving and to dynamic transport destination allocation. All of this helps to ensure that equipment is fully utilized, resulting in maximum performance and return on capital.

Complex intralogistics equipment can also be linked directly to the SAP system without additional control computers, which reduces the complexity of the system landscape and increases the transparency and efficiency of the system.

SAP provides an industry-leading platform, a homogenous system landscape which enables full and seamless integration of SAP EWM and ERP (SAP S/4 HANA or SAP ERP). The standard solution is highly adaptable and can be adapted to meet precisely the needs of every single company.

#### **The main benefits of SAP EWM**

- **Full integration:**  
SAP EWM and industry-specific automation with MFS are integrated fully into SAP S/4HANA or SAP ERP and into the other applications of the SAP Supply Chain Logistics Suite
- **Process optimization:**  
Complete design and implementation of the resulting optimized warehouse and supply chain processes, on the integrated SAP platform
- **Flexibel modelling:**  
The comprehensive modelling of both the physical layout and the warehouse processes enables the fine-tuning and optimization of the overall system performance



# SAP Transportation Management

**SAP Transportation Management (SAP TM) is a complete, integrated system which covers the entire transport chain. It can be integrated seamlessly into SAP S/4HANA, SAP ERP or the other applications of the SAP Digital Supply Chain such as SAP EWM (Extended Warehouse Management), SAP BN4L (Business Network for Logistics) and SAP YL (Yard Logistics).**

## **The challenges of modern transport logistics**

SAP TM is designed specifically for companies which use SAP S/4HANA or SAP ERP to optimize your internal business processes and to increase our output. In an end-to-end supply chain, transport processes become increasingly important. These are some of the challenges:

- Higher shipment volume
- More and more vehicles
- Narrow time windows and complex transport chains
- Generally higher traffic volume
- Shortage of qualified personnel

## **A performant transportation management solution**

In SAP Transportation Management (TM) you have available a performant software solution with which you can manage all of the tasks of service-oriented and cost-optimized transport logistics.

From order management to transport planning and scheduling, operational transport monitoring and invoicing, to the provision of key performance indicators for the analysis and control of your processes. The result is a self-learning network which can even schedule orders automatically.

The system is suitable for the management of both single-stage and large, multi-stage transport networks - from the first to the last mile. Shipments using the company's own fleet, the use of freight forwarders, full-load shipments, groupage shipments or bulk shipments are all supported.

The modular and individually configurable Transport Management solution can be easily integrated into existing SAP landscapes. With regular system updates and the possibility of customizing, SAP TM already meets today the dynamic requirements of tomorrow, such as supporting autonomous vehicles or digital freight matching.

## **Highlights:**

- **Time and cost reductions**
- **Complete process visualization**
- **Seamless integration**

# SAP Yard Logistics

## A good choice with Körber.

### **Challenges of modern yard management systems**

The separation of planning and execution as well as paper-based processing result in mistakes, high costs and a lack of transparency. Körber's SAP consultants will help you in the planning and implementation of a smooth yard operation in which the following points are taken into account:

- Ramps and gates have equal throughput
- Orders are ready to load when the truck arrives and the means of transport is ready at the right gate
- Container locations are available as needed
- The correct documents are presented on arrival
- The movements in the yard are monitored closely and in real time
- Necessary repairs and cleaning are logged and planned correctly

### **A complete, SAP-integrated solution for yard management**

SAP YL provides an integrated, complete yard management solution: It includes planning, execution and billing functions. It optimizes your yard processes, makes them transparent and maximizes the efficiency of your yard.

Planned and unplanned movements are displayed in the system in real time. The system even displays future workloads and enables dangerous goods checks.

SAP YL also provides a joint role-based work area with an intuitive user interface which makes work easier for everyone in the yard, from the foreman to the planner and to the gate worker.

### **Highlights:**

- **Intuitive user interface**
- **Full visualization**
- **Seamless integration**



# SAP Business Network for Logistics

SAP Business Network for Logistics (SAP BN4L) provides you with an open, secure network which connects you with your business partners and optimizes logistical cooperation between companies. It provides a central platform which enables logistics transactions to be managed jointly, documents to be shared with important business partners and the entire logistics network to be transparent.

## **Challenges in the global supply chain**

SAP BN4L was developed for companies which use the SAP Supply Chain Logistics Suite. It augments the functions and enables end-to-end transparency and the optimization of logistics processes. This is becoming increasingly important in the modern, complex supply chain network. Thanks to our consulting and implementation expertise, we can use SAP BN4L to meet the challenges of our customers in logistics. These include:

- Inadequate integration of supply chain processes with customers and partners
- Higher freight costs due to suboptimal selection
- Delays and waiting time due to poor route planning
- Fragmented traceability of goods and as a result additional manual work
- More exacting customer requirements which, if not met, result in complaints and loss of income
- Double handling due to wrong deliveries

## **Cooperation in the supply chain network**

While the SAP Supply Chain Logistics Suite enables comprehensive planning and control of supply chain processes, SAP BN4L complements and augments these functions and processes and ensures cooperation in freight logistics, shipment tracking (SAP GTT) and material traceability (SAP GBT) across the network.

It provides a networked platform with a single business partner directory which enables holistic planning processes, end-to-end transparency and control of logistics processes, based on real-time information.

The resulting transparency enables companies to optimize internal logistics processes in your warehouses and plants and to plan, manage and communicate continuously with your external partners, including logistics service providers and freight forwarders.

We recommend SAP BN4L for customers which have implemented SAP Extended Warehouse Management (SAP EWM) or SAP Transport Management (SAP TM). Our experience in the implementation of SAP Supply Chain systems in operational logistics helps in the setting up of your logistics network. With SAP BN4L you come much closer to an end-to-end view in the network and can therefore provide your customers with the added value which will set you apart from the competition.

# The Körber added value

## Transparency across the network

---

The overview across all steps and stations of operational activity in the supply chain network makes it possible for you to manage holistically.

## Increased efficiency

---

Our implementation expertise ensures seamless integration with the applications of the SAP Supply Chain Logistics Suite. Improved communication increases integration with your customers and partners.

## Seamless integration

---

Our implementation expertise ensures seamless integration with the applications of the SAP Supply Chain Logistics Suite. Improved communication increases integration with your customers and partners.

## Digitalization and cooperation

---

The recording of precise data throughout the network enables interactive cooperation in real time, improves decision-making and provides the knowledge needed for planning.



## K.Motion SAP Supply Chain Add-ons

Do you need solutions which augment the SAP standard functions? Here you can take advantage of the many years of logistics and software expertise of the Körber experts. Individual and specific requirements do not mean that you need to decide against SAP systems.



### Courier, Express and Parcel Services

#### K.Motion S/CEP

The cockpit optimizes your shipping processing for various CEP service providers (courier, express and parcel services). Among the SAP-based add-on's basic functions are the management of the routing and shipping provider master data, calculation of a shipping provider, shipping processing with shipping label printing as well as the creation and transfer of the daily closing via EDI. The integration of the add-on into the SAP landscape results in smooth shipping processing.



### Transport Control System

#### K.Motion S/TCS

Unlike many solutions available on the market, the SAP-based Transport Control System enables the planning and control of cross-system, internal transport! No matter if it is forklift or trolley traffic – the add-on creates transparency in materials tracking and ensures that the objects to be moved reach the right places at the right times with minimal resource consumption. The effects are the optimal use of resources, reduced stocks and stabilized production supply and disposal processes.



### Dock & Yard Management

#### K.Motion S/DYM

Whether simple time window bookings or complex transport: Dock & Yard Management is the perfect solution for efficiently planning and controlling transport in yards. Locations and routes can be displayed in a site layout or an integrated, interactive map – location assignments are displayed in a table format or as a Gantt chart. Transport resources for moving non-mobile transport containers and load media are planned and controlled via a transport control system. Yard Management processes can be supported through technical components such as terminals or cameras.



On the contrary! With the release-ready add-ons that integrate seamlessly into SAP, you will improve the efficiency and quality of your warehouse and transport management systems significantly.



## **Dangerous Goods Management**

### **K.Motion S/DGM**

---

When storing and transporting hazardous materials, many rules and laws must be adhered to, safety and rule-relevant master data must be maintained and kept up-to-date. No problem with the SAP-based Dangerous Goods Management: The streamlined and user-friendly add-on assures that hazardous substances are stored, packed and loaded according to regulations. This software solution considers transport facilitations (special regulations, small quantity rules, etc.) and enables the automated printing of accompanying dangerous goods documents. Dangerous Goods Management can be used to create operating instructions for dangerous goods and workstations and save them to a document registry in order to ensure work safety. It supports the work of the Health and Safety Officer by, among other things, tracking upcoming appointments (such as workstation inspections).

# Körper Best Practices

**Augment the standard functions.**

## **Process and Material Flow Emulation**

The Process and Material Flow Emulation ensures smooth software implementations even when the project duration is short and the system complex. Through early interface and performance tests under real conditions, the add-on ensures that only fully tested and optimally running systems go live. A test environment maps exactly the planned, complete system without the necessity for conveyor and warehouse technology. Your new software can already be verified in the test phase – this reduces test effort and implementation time and project costs decrease. Tests can be repeated any time and can be carried out parallel to ongoing operation in your warehouse.

## **Amplify Packages for SAP EWM and SAP TM**

Fast response to fluctuations in demand can often only be achieved with short-term warehouse extensions. Project Amplify is an SAP initiative which was developed, particularly with the new requirements under COVID-19 in mind, to provide predefined packages and give customers added value:

- Accelerated service offerings
- Solve challenges simply and quickly
- Manageable investment with quick results
- Quick deployment of warehouses

Körper offers you with the help of SAP EWM Amplify Packages for distribution, production supply/waste and oversupply warehouses the fast implementation of a preconfigured SAP EWM solution in order to meet the challenges with a manageable investment.

## **Highlights:**

- **Quick implementation**
- **Manageable investment**
- **Experienced SAP partner with expertise in multiple industries**
- **Stable and tried-and-tested processes based on Best Practices**
- **Versatile, extendable solution**
- **Investment security with future-proof solution**





# SAP Technologies

**The overall package is the key to success. With Körber, you most definitely make the right choice for your supply chain processes.**

#### **The future of IT in modern companies**

The IT, the digital core of the company and its supporting infrastructure are key for the success of the company and will become increasingly important. IT systems, in particular in production and distribution organizations, need to meet requirements of advancements in digitalization and the resulting demand for Big Data platforms and the Internet of Things.

#### **Challenges for the next generation of supply chain IT systems**

The complexity of the business and logistics networks of today places great demands on the supply chain and the associated IT systems. The system architectures of tomorrow will differ fundamentally from those of today, in order to cope with the increasing complexity of supply chain processes and the exponential growth of events, transactions and data.

In order to meet these challenges, future supply chain IT systems need to be highly scalable, process huge volumes of data almost in real time and use Big Data technologies to support the transfer of data across platforms and advanced analyses.

#### **SAP HANA and SAP S/4HANA**

In order to meet these challenges, SAP has redesigned its system architecture, starting with the database – one of the most important basic technologies for IT systems in companies. SAP HANA (High-Performance Analytic Appliance) is an application which uses in-memory database technology in order to make it possible to process huge volumes of data almost in real time. This makes it possible for the application to provide immediate results and data-driven insights across the company.

The ERP Business Suite SAP S/4HANA uses this advanced database technology and in doing so will become the new digital core of your company. The suite's range of functions go far beyond the traditional ERP functions and provides at the same time advance analysis functions and simplified data structures which further improve performance.

Körber is strategically oriented to SAP S/4HANA. We have many years of experience in the implementation of the SAP Supply Chain Logistics Suite, including SAP EWM and SAP TM, and with the seamless integration in S/4HANA. We can also support you in the changeover of your current logistics solution to SAP S/4HANA.

# SAP Fiori

## Next-generation user experience.

SAP Fiori was developed in order to enable developers to create an intuitive, lean and consistent user experience (UX) for SAP solutions. For this purpose, SAP Fiori offers a range of applications which support the most common SAP business functions, e.g. workflow approval and information search.

**With SAP Fiori, our SAP consultants can:**

- Provide an adapted, optimized user interface for your SAP Supply Chain applications
- Prepare role-based user experiences in every application, in order to maximize the relevance for all users
- Develop additional functions for Fiori applications, in order to meet customer-specific requirements

SAP Fiori is also device-independent and ensures a uniform user experience on most makes and models of laptops, tablets and smartphones. This makes your SAP Supply Chain solution more user friendly and more efficient.

### Main benefits

- **Future-proof:**  
We are strategically oriented to SAP S/4HANA – the new industry standard for today and tomorrow
- **Next-generation UX:**  
With SAP Fiori and our implementation expertise, we can develop a tailored, intuitive user experience for all devices
- **Implement the SAP technologies of tomorrow, today:**  
Due to our status as a ramp-up partner of SAP, we have acquired extensive experience in working with S/4HANA and SAP Fiori

# IT Technology with Körber

## 24/7 Support with Körber.

### **Customer Support: Part of a complete supply chain management solution**

Constant availability of data and systems is becoming increasingly important in supply chain management. This is why fastest response and help when faults occur are a critical success factor.

In the complex environment of the involved IT equipment consisting of application software, computer systems, networks, databases and periphery equipment, determining the responsibilities of the partners involved can quickly become a problem. Körber's Customer Support concept solves this problem with a complete service from a single source and clear, central responsibility for the whole solution.

### **Complexity in the support of complete supply chain solutions**

While many companies have extensive IT knowledge, they may struggle with various challenges when it comes to the support for complete supply chain solutions:

- Ensuring constant availability of supply chain solutions around the clock
- Ensuring fast restoration of functionality of all components
- Identifying and preventing foreseeable malfunctions in advance
- Continual development of technology results in employee know-how quickly becoming outdated
- It is very difficult for employees in Support to work in the day-to-day business, therefore dedicated Support personnel are needed

# Your strong partner

## Comprehensive support for supply chain solutions

---

Körber offers a complete range of Customer Support services which ensure the constant availability of your supply chain solution.

## Helpdesk and subsequent application support

---

The Körber Hotline and the Service Desk can be contacted 24 hours a day, 7 days a week. The Service Desk provides first-level support, and includes if necessary the subsequent support stages for the application software and the IT systems concerned. Issues which cannot be resolved quickly by the Service Desk are transferred to Körber's application support, where experienced software experts are ready to provide the 2nd and 3rd-level troubleshooting support. The Service Desk coordinates the troubleshooting until the solution is found.

## Predictive support for IT systems

---

This service includes predictive maintenance of for example services, high-availability clusters, the operating system and databases. The Körber experts monitor the operational systems of customers during operation and in doing so often detect potential problems before they actually occur. As a result, system availability is increased significantly by preventive measures.

### Main benefits

- **Full service from a single source:**  
Software and infrastructure IT support from a single source ensures fast response when there is a fault and optimizes the availability of the whole solution
- **Support for all service levels from the manufacturer:**  
Whether 1st, 2nd or 3rd-level support, Körber's experts are available with a direct link to Product Development
- **Flexibly adaptable SLAs:**  
With tailored SLAs, you can also adapt flexibly to seasonal changes in your needs, e.g. over public holidays and holiday periods



# Some of our references



B/S/H/



BONITA



KALDEWEI

KLINGEL

Beiersdorf



DOUGLAS



DAIMLER TRUCK  
Daimler Buses



greiner bio-one



CATERPILLAR



SCHÜCO



AMANN  
GROUP



VIESSMANN



