

SUCCESS STORY



Automotive | ORBIS TSS and Veolia Industrial Services | HAY | GROUP



HAY | GROUP: ORBIS TSS and reorganization bring more efficiency to intralogistics and transport management

The HAY | GROUP (Hay) used ORBIS-developed transport management system (ORBIS TSS) and a mobile frontend, both of which are seamlessly integrated in the SAP Business Suite, to create a prompted data and document flow and can now manage internal shipments end-to-end and with transparency. This has seen deployment, capacity utilization and route planning for forklifts optimized, with shipping orders now worked through depending on their urgency. What's more, the outsourcing of intralogistics to Veolia Industrial Services and the close collaboration between Hay, ORBIS and Veolia have led to a significant increase in efficiency. The project partners enjoyed successful collaboration under the leadership of Hay.

In cooperation with  **VEOLIA**



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For Hay, a leading manufacturer of components for engines, gear transmissions, axles, and bearings for the automotive and capital goods industry, it is essential that intralogistics processes run smoothly and with the utmost efficiency. In order to achieve this, the company has launched the user-friendly ORBIS Transport Management System (ORBIS TSS), which has a template-based mobile frontend based on the ORBIS Multi-Process Suite (ORBIS MPS). ORBIS MPS technology links production and logistics workflows bidirectionally with SAP processes, providing prompting and visual mapping for these – regardless of the device used.

“Real-time” communication with the forklifts enables efficient reactions to process shifts. For the launch of the tried-and-tested add-on ORBIS TSS, the component manufacturer placed its trust in the expertise of ORBIS AG, which had already run several SAP projects for and in partnership with it. The ORBIS MPS delivered an outstanding performance as a technological basis for integrating all kinds of processes in the SAP software used, above all in relation to Industry 4.0.

HAY | GROUP

Head office: Bad Sobernheim

Products: components for drive and chassis technology

Sites: 10 production sites worldwide

Employees: 2,800 worldwide

<http://www.hay-group.com>

Holistic concept optimizes intralogistics

The holistic logistics concept pursued by Hay, whereby all containers have an individual number (SAP HU no.), are assigned a storage location in warehouse management and forklifts can only be prompted to move goods via SAP transport requests, was made more efficient using the ORBIS TSS.

On initiation of the ORBIS TSS, all intralogistics were assumed by Veolia Industrieservice GmbH Deutschland. Among other things, this saw the diesel forklifts replaced with energy-saving, emission-free electric forklifts and each new forklift equipped with a scanning unit and a touchscreen terminal for operating the ORBIS TSS.

28 forklift trucks instead of the previous 32

“As well as increasing efficiency, flexibility and transparency in intralogistics, the holistic solution concept achieved using ORBIS and Veolia ensures a smooth production supply and plays a crucial role in avoiding supply bottlenecks,” explains Natalie Braun, Logistics Team Leader at the Hay plant in Bockenau.



Natalie Braun, Logistics Team Leader at the Hay plant in Bockenau

The optimization of in-house logistics and transport management using the ORBIS TSS led to a reduction in the number of forklift trucks from 32 to 28 and a considerable improvement in working conditions for employees in manufacturing.

Optimum management and deployment of forklifts

Thanks to the prompted mobile data entry with paperless information flow enabled by the ORBIS TSS, all transport operations in the plant, as well as the current location of the goods for transportation, are automatically transmitted to the SAP system and booked virtually in real-time while the goods are being moved. *“Thanks to seamless and transparent documentation we can track all transport movements in SAP ERP and manage the deployment and utilization of the forklifts optimally,”* explains Karlheinz Neurohr, Head of Job Scheduling at the Hay plant in Bad Sobernheim.

Thanks to the successful collaboration of everyone involved in this project, some additional key features were able to be added to the ORBIS TSS too. Most worth mentioning here is the GPS-level precision tracking of vehicles. This in turn has led to a significantly improved data basis, enabling a wide range of highly accurate KPI analyses.

Optimum assignment of transport requests

Unnecessary – and generally costly – empty runs have been eliminated too ever since the add-on optimized the assignment of transport requests to forklift drivers. Not only does it direct the driver to the correct storage location, but then, after loading the required container, it guides the driver to the target location. This ensures optimum capacity utilization for forklifts and smooth supply and removal of goods from the various production and storage areas.

In the course of this the software calculates the priority of each individual transport request based on the factors distance, time, and business process. The ORBIS solution assigns the driver their transport orders automatically via the touchscreen terminal, i.e. in “real-time”. As soon as an order has been completed, the Transport Management System determines the subsequent order. All of this ensures flexibility when scheduling forklift deployment, meaning that order peaks and special unscheduled transport orders can be dealt with without issue.



Further development using in-house expertise

Even the IT department has benefited from the ORBIS Transport Management System, which is seamlessly embedded in SAP ECC 6.0 and unaffected by releases. In contrast to the third-party provider proprietary solution used previously, the ORBIS TSS eliminates the need for interface programming and maintenance and the costs associated with this.

This ensures that the IT landscape and the IT infrastructure can be kept streamlined. Another advantage according to Alexander Schmidt, IT Logistics Developer for SAP at Hay, is that *“the SAP-based add-on developed in ABAP can be adapted with our in-house SAP know-how and further developed in line with our needs.”*



Given the positive experience with the Transport Management System, which is currently in use at the company headquarters in Bad Sobernheim and at the production site in Bockenau, there are plans to review the rollout to additional locations.



ABOUT ORBIS AND VEOLIA'S COLLABORATION

Consultancy and software company ORBIS AG and Veolia Industrieservice GmbH Germany have pooled their intralogistics expertise as part of a strategic partnership. This has allowed ORBIS and Veolia to provide customers with a holistic service portfolio from a single source for the optimization of their in-house logistics processes in the context of Industry 4.0, offering them genuine added value in the process. This makes them ideal partners for companies that want to start the journey towards a smart future.



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