

Digitalisation in rail transport



duisport rail is now taking the first significant steps towards digitalisation in rail freight services at the port of Duisburg and has introduced the zedas[®] cargo 3.0 logistics software which is specially designed for use by railway companies in rail freight services.

(lw) The Duisburg logistics centre is an interface for intermodal transport and is the number one railway hub in Europe. Every relevant industrial region can be reached from here – and the extensive network is still constantly being extended. The rail transport partner at the port of Duisburg is duisport rail GmbH (dpr). Here too, the digitalisation of processes in the interests of optimisation of workflows will play a role in the future, which is why duisport rail has introduced a digital process management system, which is adapted to the new circumstances.

duisport rail GmbH (dpr) is a subsidiary of Duisburger Hafen AG and was established in 2001 as a public railway company within the duisport Group. As a public railway company, dpr ensures optimal connectivity on around 200 kilometres of rail network at the port of Duisburg

and guarantees timely provisioning of the terminal. duisport rail also works with local and regional transport providers to improve travel to and from the port for customers at the site and cooperates with national and international railway operators. Consequently, duisport rail has expanded its previous German approval for railway companies to the European approval.

Around 30 rail service providers and operators are already active on the site. Whether for containers, bulk goods such as coal and steel or chemical products, whether it's exclusive offers or those in collaboration with partners: high flexibility, short communication channels and professional employees guarantee solutions in line with the market and timely rail transport and traction services.



With the software, shunting and wagon load freight services can also be represented alongside long-distance transport for the first time.

As a result of rising customer expectations, a high level of safety requirements and intense competition in rail freight services, efficient planning, implementation and documentation of international rail shipments is indispensable and requires modern, integrated IT support. For this reason, duisport rail proactively took the first major steps towards digitalisation of rail freight services at the port of Duisburg three years ago. All thanks to the zedas®cargo 3.0 logistics software, specially designed for the requirements of railway companies in rail freight services.

The **made-to-measure zedas®cargo logistics software** offers users an improved way of working as well as quicker access to relevant and up-to-date information. With the use of the application, it is possible for train drivers, wagon technicians and dispatchers to access the necessary information in any location and use it for their work processes. Reduced arrangements and records simplify the high workload and automatically provide exact data for the invoicing of services. In order to make the software more efficient for duisport rail, a customised extension was developed with rail experts from the duisport Group in collaboration with Zedas. Thus, the significantly more elaborate

shunting and wagonload freight services, as well as wagon technician services, can also be represented alongside long-distance transport for the first time. This means that dpr is perfectly prepared today for the future requirements of the European TAF-TSI (telematics applications for freight - technical specification for interoperability) Regulation.

Rail processes managed intelligently thanks to consistent digital processes, beginning from order entry right through to invoicing of the service, can fulfil the requirement for paperless processing of shipments and allows for optimised planning of the rail processes. Mobile tablets are now used for communication with scheduling

and recording of services in real time. At the same time, information regarding the progress of shunting operations can be forwarded directly to the customer as required. These processes are therefore also Cloud-compatible in the future.

Thanks to the potential of the digital world which is now used in rail logistics, duisport rail is creating transparency throughout the handling of railway and shunting traffic, as well as wagon technician services. This offers the key conditions for increasing the attractiveness of transport by rail and optimisation of logistics on the factory, port or terminal premises – step by step throughout the value chain



Modern process management, step by step throughout the value chain.