

Ab Ovo

Advancing Sustainable and Efficient Rail Cargo Operations with Innovative IT Solutions

The Eco Logic Platform: Pioneering Sustainable IT Solutions

The Importance of Green IT

Green IT is becoming increasingly crucial as every part of the value chain must adapt to support sustainability goals, including IT applications. IT solutions need to be carbon-efficient and adaptable to future regulations to meet these challenges effectively.

Ab Ovo's Eco Logic Platform

The Eco Logic Platform is a groundbreaking solution designed to address these sustainability challenges. It is built using one of the most energy-efficient programming languages, and allows for the measurement of energy consumption for each software functionality in CO2 equivalents. The Eco Logic

Platform is ideal for modernising legacy systems and creating maintainable, energy-friendly software.

Eco Logic Platform – Rail Cargo ERP Modules

- **Train Requests** – registration, planning, executing, follow up, reporting and invoicing the request from a customer to run a train
- **Offering** – register the RFQ, assigning a logistical plan, adding additional services, calculating costs and creating the offer
- **Contracts** – contains the agreements and pricing of the orders
- **Orders** – contain all data about the transport, including consignment note; automatically validated against contracts and apply correct



The Eco Logic Platform
Your Sustainable IT solution

- commitments; invoiced after execution
- **Planning** – order, train, shunting and activities planning, including validations
- **Execution** – running the trains including all relevant documentation; validations for safety, ensures real-time visibility and precise management of approved orders
- **Wagon defect handling** – registration, handling reporting and used in the execution of the transports
- **Financials** – calculation of revenue, creation of invoices, credit notes; mapping of supplier invoices
- **Administration** – manages user access, permissions and system configurations securely
- **Master data** - maintains essential data for seamless operation and consistency
- **Reporting** – dashboards, overviews and exports of data
- **Mobile** – handling of production activities via mobile applications directly connected to the main system

The fully integrated nature of the modules ensures that data flows seamlessly across the platform, providing real-time visibility and control over all aspects of rail cargo operations. This integration eliminates the need for custom integrations, reducing costs and implementation time. The Eco Logic Platform supports companies in fully replacing their ERP, updating parts of it or implementing an ERP system for the first time.

Rail Cargo Planning and Optimisation: Enhancing Efficiency and Competitiveness

Rail Cargo Planning Based on DELMIA Quintiq from Dassault Systèmes

Rail Cargo Planning (RCP) is an advanced planning and optimisation solution designed specifically for the rail cargo industry. RCP integrates all planning horizons – long-term, short-term and day-of-operation – along with rolling stock and the workforce. The system features an intuitive user interface with drag-and-drop functionality and numerous decision-support tools to help planners create feasible and efficient plans. By enhancing planning efficiency, reducing costs, improving quality and increasing revenue, RCP helps cargo operators maintain a competitive edge

in a challenging market and lastly improve on the sustainability goals.

Key Features:

- **Fleet planning:** supports planning of trains, locomotives and rail cars across all time horizons
- **Workforce management:** creates and maintains shifts for drivers and ground staff, considering business rules and skill checks
- **Labour rule compliance:** automatically checks and issues warnings for labour rule violations

Benefits of RCP

Planning optimisation: RCP allows planners to see the consequences of decisions or disruptions, resulting in higher utilisation of locomotives and railcars/wagons. It provides a clear overview of paths, optimising timetable costs and improving planning by considering all constraints.

Reduced costs: Enhanced information in the planning process leads to improvements measured by key performance indicators (KPIs). This includes reduced overtime costs, penalties for delayed shipments, and increased efficiency. The empty wagon repositioning optimiser reduces empty mileage and improves wagon turnaround.

Quality improvement: RCP offers stronger insights into the actual process, leading to more feasible planning with fewer last-minute disruptions.

Higher revenue: RCP identifies opportunities to include more wagons in a train, increasing revenue. The real-time traffic interface guarantees estimated time of arrival (ETA) to customers, enabling premium services and charging extra costs for loading delays to the responsible party.

If you would like to know more visit www.ab-ovo.com



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