

## **SoftRail by Binary System**

THE MOST ADVANCED SPECIALIST  
RAIL TECHNOLOGY SOLUTION

## Get to know us

In a complex sector such as railways, Binary System was founded in 2012 with a clear vision: to simplify railway operations management through modern and customer-oriented solutions.

More than a technology provider, Binary System acts as a trusted partner, combining deep railway business knowledge with continuous collaboration to keep evolving alongside our customers, always focused on their goals.

Operating individually or as an integrated suite, SoftRail modules ensure fully optimised operations to maximise cost savings, while prioritising and amplifying safety standards.

SoftRail enables railway companies to face and overcome the challenges of their business: transport and shift planning, enablements and trainings, documentation, fleet management and maintenance, and train composition.

## Why SoftRail?

- **International compliance**

Pinpoint risk identification and mitigation that meets safety standards in every country.

- **Operational savings**

Automation frees your team for strategic activities and cuts operating costs.

- **Proven at scale**

More than a decade of rail projects delivered, running daily operations across Europe.

**83%**

of rail operators in Italy  
use our solutions

**-87%**

Planning effort reduction  
thanks to automation

**400+**

Projects delivered

**65,000+**

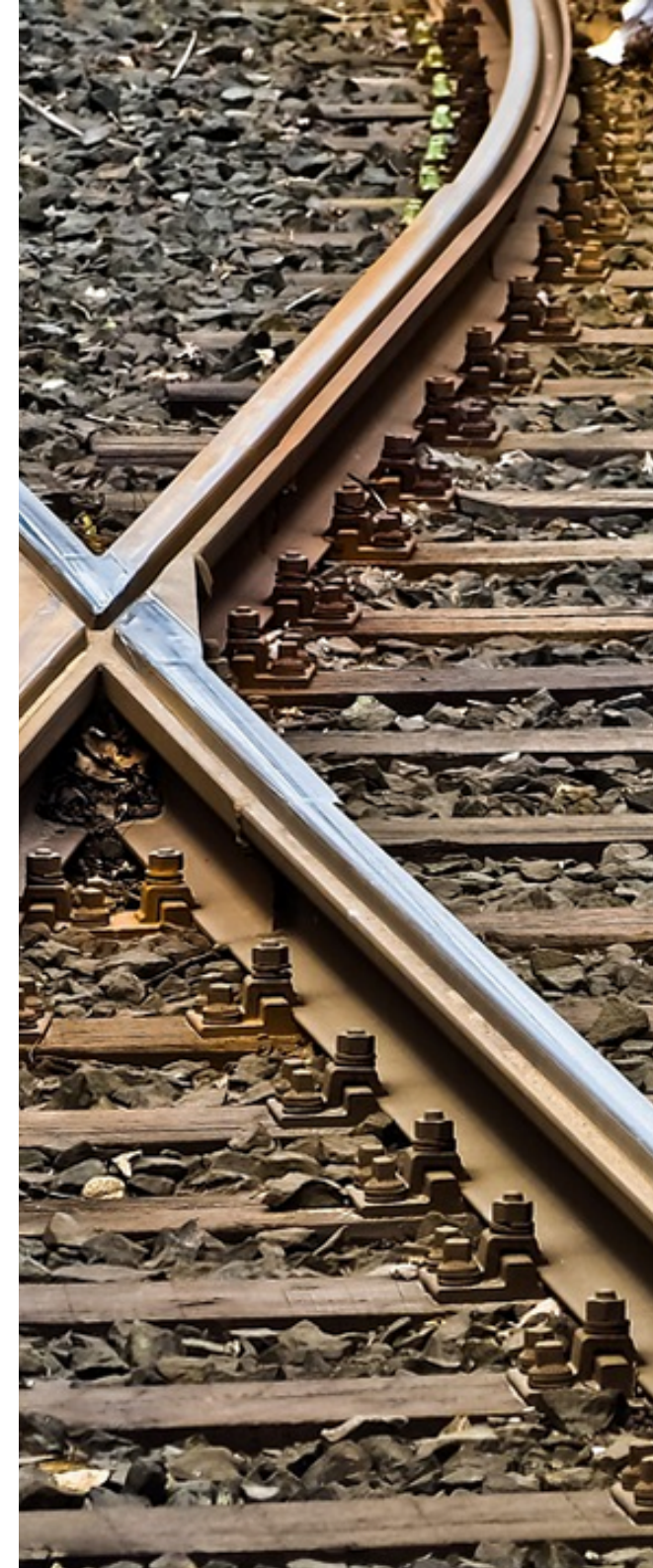
Users across 10 EU  
countries

**-30%**

Shift cost by minimising  
undertime and overtime

**330,000**

Trains managed / year





The most advanced specialist  
rail technology solution

### **Railway operations planning**

#### **LogiShift**

Coordinated scheduling, planning and dispatching of employees and vehicles.

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### **Fleet maintenance**

#### **MainTrack**

Planning and monitoring preventive and corrective maintenance of the fleet.

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### **Document management**

#### **RailMobile**

Real-time digital communications portal for all driver documentation.

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### **Railway shunting operations**

#### **TrainShunt**

Management and control over all railway shunting operations.

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### **Enablements and trainings**

#### **SkillPlan**

Plan, monitor and manage all training, refreshing and employee auditing activities.

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### **Inspection and composition**

#### **VerForm**

Real-time data for train preparation and inspections activities.

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### **Operational intelligence**

#### **SoftRail BI tool and optimiser**

Dashboards, KPIs and automation across the whole suite.

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### **Our references**

#### **A trusted partner**

More than 60 rail operators across Europe run SoftRail every day.

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# LogiShift

Coordinated scheduling, planning and dispatching of employees and vehicles

LogiShift organises human resources and rolling stock, from long-term planning to daily management. Crucially, it serves as a planning safety valve, processing huge volumes of data in the background (work shifts, use of vehicles, choice of tracks, staff qualifications and contractual constraints) to ensure compliance and avoid planning errors.

## MAIN FEATURES

- **Long-term planning**  
Manual, automatic or hybrid staff and fleet planning
- **Short-term planning**  
Graphic calendar view with automatic coverage checks
- **Accounting**  
Integrated reporting of all system elements
- **Communications to staff**  
Shifts sent to the mobile app, with receipt control
- **Interfaces with the infrastructure**  
Path synchronisation with the reference rail network
- **Production management and commercial services**  
Real-time production control of train progress and delays

## KEY BENEFITS

### Efficiency and improved productivity

Visual tools and mobile-ready applications significantly reduce manual effort for planning teams.

### Compliance

Serves as a safety valve to avoid costly planning errors.

### Environmental

By optimising services and eliminating empty trips, LogiShift saves hundreds of tonnes of CO2 each year.

## USED BY

Planning office

Operations room

Administration

Drivers

# MainTrack

Planning and monitoring preventive and corrective maintenance of the fleet

MainTrack enables users to record, plan and monitor both preventive and corrective maintenance of the vehicle fleet, and to manage all information in electronic format. In this way it enables the most efficient management of vehicles and maintenance activities.

## MAIN FEATURES

- **Preventive maintenance**  
Maintenance schedules per vehicle and spare part, with deadline alerts
- **Corrective maintenance**  
Anomaly reporting with usage restrictions, troubleshooting and execution
- **Auxiliary activities**  
Technical checks, washing, modifications and safety recalls
- **Tools and warehouse**  
Tools, spare parts, warehouse and orders management
- **Fleet status**  
Real-time fleet status, fleet and maintenance history
- **Output**  
Advanced deadline control, ad hoc printouts, reports and KPIs

## KEY BENEFITS

### Efficiency and productivity

Minimise the effort required to monitor, plan and undertake all maintenance activities.

### Cost

Minimise locomotive unavailability due to maintenance activities.

### Environmental

Manage preventive maintenance plans based on actual kilometres travelled.

## USED BY

Fleet management office

Workshop

Drivers and train crew

# RailMobile

Real-time digital communications portal  
for all driver documentation

A two-way communications platform that collects, organises, distributes and manages all personnel documentation, including shift information and verification/updating of training and qualifications. The system digitally controls the flow of documents, enabling operators to monitor and manage distribution to staff based on skills and document type.

## MAIN FEATURES

- **Documents and data collection**  
Dynamic folder structure, revisions and customisable forms
- **Distribution**  
A distribution rule associated with each document, sent via mobile app
- **Configurations**  
Web whitelists and blacklists, user permissions per document type
- **Monitoring and control**  
Distribution and acceptance status, with anomaly reasons on missed deadlines
- **Devices**  
iOS and Android phones and tablets, Windows, macOS and Linux

## KEY BENEFITS

### Efficiency and productivity

Real-time access to documentation frees employees to prioritise operating trains or performing maintenance.

### Safety and regularity

Staff can track document acceptance against validity periods.

### Environmental

Digitising documents reduces paper use — in Italy alone, Binary System has saved 1.2 billion printed pages.

## USED BY

All operational personnel

Document managers

Instructors

# TrainShunt

Management and control over all railway shunting operations

With TrainShunt, rail operators can create a registry of service locations in which the company operates shuntings, and configure the schema of tracks for each location, characterising each track with an identifier and maximum length, used to warn users if the wagon composition is too long.

## MAIN FEATURES

- **Planning**  
Shunting programmes and orders scheduled and grouped by yard
- **Shunting facilities**  
Each yard on a graphical schema, operated directly by drag and drop
- **Shunting orders management**  
Scheduled orders with timetables, periodicity and billing information
- **Coordination phase**  
Planned requirements actualised into daily orders, plus extraordinary ones
- **Auxiliary activities**  
Bracket management and tracking of manoeuvring activities
- **Output**  
Reports on yard situation, wagon position and shunting order status

## KEY BENEFITS

### Efficiency and productivity

Streamlines shunting activities by automatically calculating requirements and managing communications.

### Failsafe

Alerts users if they attempt to allocate a train that is too long for the track, avoiding costly issues in the yard.

### Visibility

Third parties such as MTOs and terminals see, in real time, only the information relevant to them.

## USED BY

Team coordinators

Team leaders

External viewers (MTO, terminals)

# SkillPlan

Plan, monitor and manage all training, refreshing and employee auditing activities

SkillPlan enables training and HR teams to manage all aspects of staff skills management, including management and monitoring of all training qualifications. With SkillPlan, staff are able to manage training activities (exams, refresher courses, internships) and also any health criteria (required checks based on age and health status, and the monitoring of hours worked).

## MAIN FEATURES

- **Employee register**  
Qualifications with monitored deadlines, mandatory training, skills and PPE
- **Complementary certificate**  
Workflow for generating, formalising and printing certificates to standard
- **Medical check-up schedule**  
The next check-up due is generated automatically from the rules and settings
- **Training activities**  
Planning by objective, duration, participants and location, guided by activity type
- **Reporting and alerts**  
Automatic emails sent in advance with all expiring items to distribution lists

## KEY BENEFITS

### Safety

Ensures all employees are fit and hold the training and qualifications required for their duties.

### Efficiency and productivity

Streamlines monitoring of training and health documents across large groups of employees.

### Compliance

Automatic alerts on expiring qualifications, sessions and medical checks across large groups of employees.

## USED BY

Training and HR teams

Instructors

All employees

# VerForm

Real-time data for train preparation  
and inspection activities

VerForm is a dedicated solution for freight rail, supporting complex train composition. It collects and processes all data relating to technical verification activities, and transport and handling of dangerous goods. All documents are provided in an electronic format, and data can be entered directly or imported through H30 and/or TAF/TSI interfaces.

## MAIN FEATURES

- **Composition and inspection**  
Fleet revision status, vehicle location and technical data kept up to date
- **Calculations**  
Load and braking calculations produced automatically
- **Freight**  
Freight movements and load details, including dangerous goods (RID)
- **Integrations**  
Composition imported from H30 and custom xls/csv, shared via H30 and TAF/TSI
- **Global scenario**  
All activities managed through an intuitive calendar interface
- **Output**  
Automatic generation of technical and commercial train documents

## KEY BENEFITS

### Efficiency and productivity

Automation reduces admin workload and avoids costly mistakes.

### Compliance assured

Train composition confirmed before departure and verified at destination.

### Tracking

Real-time tracking of every verification, preparation and technical data change to the fleet.

## USED BY

Train preparation staff

Inspectors

Operations staff

## Business intelligence tool

Binary System offers a fully integrated Business Intelligence tool, designed to simplify all aspects of reporting, and to provide you with the informed insights you need – presented in whatever way you want.

### KEY BENEFITS

- **Insights**  
Obtain the data that you need for your operation
- **Fast decision making**  
With accurate data at the right time, you can address issues or exploit opportunities without delay
- **Data-driven decisions**  
Decisions based on fact, not feel

## Resource optimiser

Developed in collaboration with Decision Science specialists, Qampo, Resource Optimisation blends Binary System's expertise in rail technology with the latest AI tools, resulting in a solution that optimises your resources for the most efficient possible operation. The process couldn't be simpler: you choose the data to optimise; we deliver the savings.

### KEY BENEFITS

- **Reduce effort**  
Huge reduction in workload: one customer saw rail planning effort reduced by 87% – from 4 days to 4 hours.
- **Reduce cost**  
Customers can achieve over 30% shift cost reduction by minimising employee undertime and overtime



## Our references

Our goal is to be a partner to every rail operator we work with, not just a software provider. We are incredibly proud to support more than 60 rail operators across Europe this way, and the strength of those partnerships is clearest in our home country, Italy, where 83% of rail operators now rely on SoftRail to deliver efficient, reliable and safe services. Here are some of our international customers.



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**With SoftRail, nothing is lost and nothing is forgotten: it is a powerful solution for complying with railway safety regulations.**

**Diego Miglioranzi**  
CEO, EVM Rail



**Success stories**

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