BinarYsYstem®

Binary System SoftRail

THE MOST ADVANCED SPECIALIST RAIL SOLUTION

Binary System's SoftRail solution enables railway companies to face and overcome the challenges of their business, from transport and shift planning to employee skills management and communications, safety documentation, fleet management and train composition. With SoftRail, you have one simple cloud-based application to manage all your activities.

This document outlines why more than 60 customers across Europe trust Binary System to manage more than 60,000 rail employees and deliver 330,000 train journeys each year.

WHY SOFTRAIL?

- **Unparalleled Efficiency:** AI-driven automation unshackles your team for strategic activities.

- **Operational Savings:** Minimise costs through the most streamlined operations.

- **Safety Assured:** Prioritise and amplify safety standards with pinpoint risk identification and mitigation.

THE COMPLETE SOLUTION. DESIGNED FOR YOU

Binary System's SoftRail is the most complete specialist AI-driven rail software suite available today. Developed in collaboration with over 60 customers across Europe with safety and flexibility in mind, the system has been designed from the ground up to meet the requirements of rail operators and local public transport providers.

Through a single platform suite, SoftRail empowers your teams to easily plan, manage and organise all operational personnel, fleet, rolling stock and safety activities. The solution is divided into several modules, each with its own native mobile application, specifically designed to meet the requirements of each customer and type of user.

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

LogiShift
AI-Driven efficient, reliable and coordinated planning/scheduling of employees and vehicles

MainTrack
Planning and monitoring preventive and corrective maintenance

RailMobile
Real-time digital communications portal for all driver documentation

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

TrainShunt
Management and control over all railway shunting operations

VerForm
Real-time data covering inspections and verification activities

TOTAL EFFICIENCY: IT'S ALL IN YOUR POCKET!

Specifically developed to take advantage of modern web and mobile technologies, SoftRail mobilises all aspects of your operation – including preparation and verification of resources, training, and personnel coordination – in order to maximise efficiency and minimise costs.

Each SoftRail module is completely independent, yet also perfectly integrated with all other applications. In this way, SoftRail speeds up the transmission of information, reduces environmental impact of printing, increases accuracy of information, and ultimately ensures the most profitable operations.

LOGISHIFT

AI-Driven efficient, reliable and coordinated planning/scheduling of employees and vehicles

LogiShift is a simple to use – yet powerful – system that enables coordinated programming of human and fleet resources. Visual tools empower planning staff to quickly and easily undertake resource programming, from long and short term planning through to daily operational management. Crucially, LogiShift 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 costly planning errors.

Key Benefits:

- **Efficiency and productivity:** Visual tools, streamlined data entry/flow, integration with infrastructure managers and mobile-ready applications all combine to 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

MAINTRACK

Planning and monitoring preventive and corrective maintenance

MainTrack enables users to record, plan and monitor both preventative 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.

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

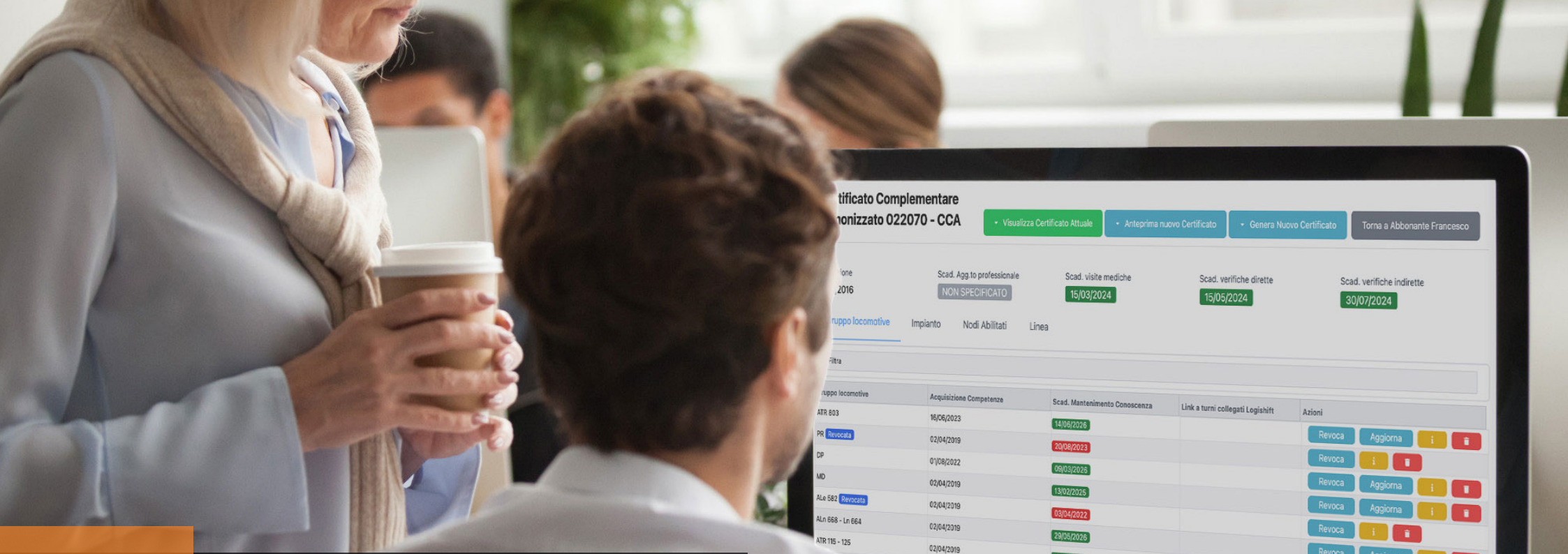- **Reliable:** Manage preventative maintenance plans based on actual KMs travelled

RAILMOBILE

Real-time digital communications portal for all documentation

RailMobile is 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. RailMobile centrally manages the delivery of technical documents on staff devices, including the distribution of updates and registration of acceptance and delivery

Key Benefits:

- **Efficiency and productivity:** Automation of personnel document management and providing employees with real-time access to their information frees employees to prioritise important tasks, e.g., operating trains or performing maintenance

- **Safety and regularity:** Staff responsible for document distribution can track document acceptance in relation to validity periods

- **Communication and collaboration:** Data forms make it possible to ask employees for feedback, or request assistance from other departments

- **Employee satisfaction:** Continuous access to documentation at all times – both online and offline

- **Environmental:** Digitising rail processes, documents and train cards reduces use of paper. In Italy alone Binary System has saved 1.2 billion printed pages – more than 150,000 trees

SKILLPLAN

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

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).

Key Benefits:

- **Safety:** Processes and controls serve as a safety valve, ensuring that all employees are fit and have the required training and qualifications to undertake duties assigned to them

- **Efficiency and productivity:** SkillPlan streamlines the process of monitoring and managing complex training and health documents and training across large groups of employees – reducing the workload on busy staff, and avoiding costly and damaging mistakes

TRAINSHUNT

Management and control over all railway shunting operations

TrainShunt is the simplest and most controlled way to manage all railway shunting activities. With a single tool, staff can plan all programmed shunting activities, and also manage the coordination, assignment and execution of any daily orders.

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.

Key Benefits:

- **Efficiency and productivity:** Streamline all shunting activities by automatically calculating requirements and managing resulting communications

- **Failsafe:** TrainShunt alerts users if they attempt to allocate a train that is too long for the track – avoiding costly issues in the yard

VERFORM

Real-time data covering inspections and verification 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 training and handling of dangerous goods. All documents are provided in an electronic format, and data can be entered directly by users or imported through H30 and/or TAF/TSI interfaces.

With VerForm, all documentation is stored directly within a system and can easily be provided in real time to any interested organisations, or to personnel using the application in the field.

Key Benefits:

- **Efficiency and Productivity:** Ensure maximum efficiency in relation to inspections and verification activities. Automation reduces admin workload and avoids costly mistakes, ensuring information flows wherever needed, both within the company and externally to partner organisations.

- **Compliance Assured:** Train composition confirmed before departure and verified at destination to ensure compliance and meet requirements for transported goods.

- **Automation:** It speeds up calculation, checks, and data entry, reducing processing time by more than 90 per cent compared to paper or Excel, providing real-time feedback to the user to ensure human error is minimised.

- **Tracking:** Real-time tracking of every verification, train preparation and technical data change to the fleet, as well as a history of failures detected in the fleet and freight transported.

RESOURCE OPTIMISATION

The latest Decision Science technology for the absolute maximum efficiency

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 reduce by 87% - from 4 days to 4 hours!

- **Reduce Cost:** Customer can save over 30% shift cost reduction by minimising employee undertime and overtime

BUSINESS INTELLIGENCE

Unleash the power within your data

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 it.

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

CUSTOMER TESTIMONIALS

What just some of our customers say about SoftRail:

"We can plan and prevent all operative processes, making easily our daily work... SoftRail is central to achieving many of our KPIs."

Alejandro Sanchez, Responsable de Sistemas Operativos, OUIGO Spain

"Nothing is lost and nothing is forgotten: it is a powerful solution for complying with railway safety regulations."

Diego Miglioranzi, CEO, EVM Rail

"With MainTrack we work more quickly, which means we require fewer people. One person manages rolling stock... Without MainTrack we would need at least one more."

Enzo Talarico, Rolling Stock Director, Captrain Italia & CEO Tiber.Co

Read more customer testimonials online at binarysystem.eu.

FIND OUT MORE

Softrail is the premier solution crafted specifically for railway companies, proven to deliver **cost savings** through smart resource allocation, **enhanced safety** measures via predictive risk analysis, and a workforce empowered with **actionable, real-time insights.**

Visit us at binarysystem.eu to find out more – and get in touch today to arrange a demo!

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