TRAFFIC AND TRANSPORT

RAILWAY TRAFFIC MANAGEMENT SYSTEMS

More than 1 million man-hours invested in R&D. 4 million lines of java code

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Introduction

Fully developed on the basis of new technologies to boost the performance of railway management.

In the backbone of the system is the railway service bus that acts as a middleware for all the subsystems. The core of the system is a Unified Information model built around the operational plan. In the heart of the system is the iTracker, an intelligent train tracking service that integrates information from different subsystems to make a real train tracking.

The brain of the systems is the iRouter, the advanced forecasting and the intelligent conflict detection modules. With DaVinci real operation management, from the planning time to the real time execution of the plan, is possible.

Spanish high speed management platform
Easy integration of third party systems
Enabled for ETCS integration

DaVinci, a fully integrated railway management system proven successfully in High Speed, Conventional Speed, Narrow Track Traffic and Metropolitan Environments

Enabled for GSM-R integration
Includes safety detectors management platform
Real scalable, from single lines to complex networks
Enabled for EU division between infrastructure managers and commercial operators
ADIF has installed this system in all of Spain's high-speed lines (Madrid-Barcelona, Madrid-Valladolid, Córdoba-Málaga...), and it will also be installed in every new Spanish high-speed line when their construction is finished. “The International Rail System DaVinci” is one of the most advanced traffic management systems in the world, able to adapt to all kinds of railway traffic: conventional lines, underground, low traffic density railways and so on. At present, this system is being implemented in narrow track traffic management centres (FEVE), in Medellin’s subway (Colombia)...