

## ERTMS integration in RailSys®

**No matter if infrastructure owner or train operator:  
ETCS is the future.**

Specified by the European Deployment Plan (EDP) the ETCS programme is expedited and railway undertakings are committed to implement ETCS in their networks in the upcoming years.

The political decision causes a high pressure on the railway industry as key questions have yet to be answered. It is essential to know the impact of ETCS on the network capacity and performance as it directly affects turnover and customer satisfaction of railway undertakings.

Finding answers to these questions requires highly developed software tools that handle railway infrastructure and timetables while considering very detailed specifics of ETCS and the existing train protection and signalling system.

The RailSys® Software Suite provides these features and enables the rail industry to answer its key questions. RailSys® delivers and compares performance indicators, capacity needs, travel times, headways and much more.

RailSys® breaks down the complexity and visualises results clearly.

Verify your personal ETCS strategy with RailSys® now. Save investment costs and get your railway ready for the future.

We are happy to get in touch with you.

## Modernisation of infrastructure European Deployment Plan One great foundation for Europe Integrating system upgrade More capacity

# ETCS

### Challenge

- ETCS still under development
- Little experience
- High complexity
- Establishing know-how
- ETCS competes with existing highly developed systems:
  - Capacity
  - Performance
  - Safety & Cost

### Strategy

- Analysis of baseline documentation
- Definition of requirements
- Conversion of requirements in specifications
- Development of application
- Testing
- Deployment
- Training

### Results

RailSys® answers your questions on:

- Capacity
- Performance
- Travel times
- System design

## RailSys®

With RailSys® we can offer software off the shelf for a fair price, which you can start working with right away to optimise your planning. RailSys® constantly follows the idea of an integrated planning system for rail transport, but also provides a very flexible use for the integration and functionality to consider all of your requirements and needs. Hence, we appreciate your wishes and develop new functions or customise them accordingly.



Record your network infrastructure in a detailed infrastructure model that is accurate to the meter. Adjustments are possible at any time and are transferred into all other systems. The size of the track network is unlimited due to the flexible and resource friendly data model. If you would like to go into detail, you can navigate through either a schematic or a GIS-based display of the infrastructure.



All of your changes are tested by the integrated running time calculation and conflict detection, supporting you to create a successful and reliable solution. Checking the use of alternative rolling stock provides you immediately with fresh and updated running times. You can verify the quality and robustness of your planning directly with the simulation.



Statistics show how well your planning works and enable you and your colleagues to communicate the results with your stakeholders. Our Evaluation Manager offers printable graphic results of your planning that can easily be integrated in your reports and presentations. Maps of the entire investigation area give you information about punctuality and bottlenecks.