



Planning infrastructure in accordance with the latest requirements.

The world of railway traffic is in a constant process of change. Influenced by new technical innovations as well as new regulations and guidelines that are intended to ensure safe and effective operating processes, the requirements for reliable traffic planning software are accordingly increasing at the same time. In this sense, the **balance between manageability and transparency** of information is essential and at the heart of the **Infrastructure Manager in RailSys®**. With a clear and detailed **display of railway infrastructures** (both individual routes or entire networks) with all signals, balises, speeds, inclines, switches, level crossings, structures, and much more, the foundation for complete control of the traffic processes and flow is guaranteed with RailSys®. Meanwhile, the latest security components as well as **ETCS** are also taken into account.

With the Infrastructure Manager, the RailSys® Suite provides a powerful tool which enables **all elements of railway operations** to be displayed in a redundancy-free data model according to individual or national requirements. A **microscopically accurate schematic view** facilitates the work process, whereby the actual location of the infrastructure in **reference to GIS applications** is always guaranteed without redundancy. Meanwhile, the **graphically interactive interface** enables the user to work intuitively, while a **tabular overview** is provided in direct interaction. In addition to versatile **network view** options, **position plans** with individually adjustable labeling, legends and further plan data can also be created. These are not only displayed, but also stored in the system along with a wide range of functionalities.

In order to be able to comfortably use the advantages of the integrated data management of the Infrastructure Manager over several time sections, a **copy & paste function** is also part of the manager's range of functions. This makes it possible to combine different infrastructure areas from different views in a single data base. Accordingly, this means, for example, that various possible infrastructure scenarios are fully functional in just one environment. Alternatively, **changing infrastructure systems can be displayed with pinpoint accuracy** through different, chronologically sequential construction stages. Despite the constantly changing framework conditions of the railway infrastructure, the RailSys® Infrastructure Manager always adapts to the **latest requirements** to ensure reliable and effective planning in railway traffic.



All relevant results of your timetable simulations quick, clear and reliable.

In order to ensure that train traffic planning can also be executed and put into reality, infrastructure projects and timetables can be checked in advance with RailSys® using simulations with regard to their **operational quality and the effects on clients**. On the basis of detailed infrastructure and timetable data, **conclusions can be drawn about the capacity of rail infrastructures** by simulating train operations. Additionally, **timetable and infrastructure variants can also be qualitatively assessed**. Questions such as "Is it possible to increase the set of patterns of this route without a loss of operational quality?", "What are the benefits of expanding the railway junction?" or "Can the timetable be run despite ongoing construction work?" can be answered quickly, effectively and clearly this way.

With the **Evaluation Manager**, the RailSys® Suite offers a comprehensive tool for the **tabular and graphical evaluation of operational simulations**. Various attributes, such as average delays, additional delays, perturbations, and much more can be displayed in **bar and line diagrams**. In this context, the **spatial dispersi- on of punctualities** can be visualized and route or network-related **bottlenecks** can be identified on the basis of operationally necessary unscheduled stops. In connection with a wide variety of **statistical evaluations of timetables**, the Evaluation Manager offers a big selection of various options to graphically prepare the examination results, differentiated in terms of spatial, temporal and train-specific attributes, and to underpin the according interpretation.

With its intuitive user interface the Evaluation Manager enables a more flexible, clearer and faster creation of evaluations. A clear **workflow** guides the user through the necessary settings for the generation of evaluation sheets, whereby double input of data is now a thing of the past. **Train and station selections** that have already been created are offered for reselection directly on the user interface. Additionally, **box-plot diagrams** offer a better classification of the results in terms of their simulation quality. All test results can also be created with **new evaluation folders and sheets** so that they can be output and presented immediately. Thus, all questions relevant to the planning process can be answered in the shortest amount time.

RailSys® Accounting Manager



A main hub for all accounting matters.

Rail infrastructure companies aim to provide their clients with a **transparent cost breakdown**, making a cost preview for bookable items indispensable. Oftentimes, the process which starts with a train path request through the actual train operation to the billing is not fully digitized within a rail infrastructure company. With the RailSys® Web Train Path Manager, the RailSys® Operations Control Center, and the RailSys® Accounting Manager, all interfaces between systems are digitized.

The **RailSys® Accounting Manager** provides rail infrastructure companies with a centralized hub and tool for creating and managing their invoices and accounting. **Cost components of a train journey**, such as order costs, cancellation fees, costs per kilometer, and the route costs, are managed within the client-specific pricing model. The basis for this is the request and registration of a train path or facility. In the RailSys® Web Train Path Manager, **prices are transparently communicated** already during the registration phase. After the train journey is completed, the registration data is compared with the actual data in the RailSys® Accounting Manager, and an invoice is generated based on this comparison. The **invoices are made available to the clients** in the RailSys® Accounting Manager and are sent out.

With the **RailSys® Accounting Manager** the **central process for creating and managing train path invoices** is transparently displayed and managed. Manual steps outside the RailSys® Suite can be eliminated, simplifying the workflow for both rail infrastructure companies and clients, as there now exists **a central hub for the creation and examination of billing documents**. Additionally, the detailed itemized bill lists services rendered for each train journey.