RailSys®

RailSys® Workflow

1 → 2 → 3 → 4 → 5 → 6

Database

Infrastructure I Rolling stock I Timetable and operational data I Dispatching rules

1 Infrastructure

- Existing assets
  - Lines
  - Signalling systems
  - Overhead wiring

2 Running time

- Rolling stock
- Insertion of train paths with origin and destination
- Consideration of stopping patterns
- Track occupation
- Each element can be set individually

3 Timetable construction Path management

- Shifting of train paths
- Additional stops
- Extension and shortening of stopping times
- Turn around and waiting times
- Coupling and splitting of trains
- Strengths and weaknesse
- Connections

4 Capacity planning

- Assessment of require-ments
- Capacity consumption
- Remaining capacity

5 Timetable simulation Operational simulation

- Synchronous simulation
- Timetable simulation with evaluation and solution of conflicted timetables
- Operational simulation with evaluation of robustness and quality of timetables planned
- Comparison of variants

Construction

- Restricted utilisations on a daily basis
  - Speed restrictions
  - Blockings
  - Shutdown of overhead wiring
- Future infrastructure
  - New construction
  - Reconstruction
  - Dismantling

Construction management

- Operation during construction work
- Rerouting
  - Track section
  - Blockings
- Operational cost increase
- Report of possession planning

Construction simulation

- Consideration of works planned in the actual operation
- Rerouting
- Feasibility study

6 Documents

- Position plan
- Working timetable
- Platform working
- Transport map
- Paths per orderer
- TSR booklet

Evaluation

- Points usage report
- Tabular timetable statistics
- Track statistics
- Graphical timetable statistics
- Statistics of level crossings
- Statistics of obstructions

Data export

Graphics and tables, e.g. in RailSys®XML, XML, TAF/TAP, TSI, Excel

RailSys® enables the technical as well as operational planning for railway transport. The workflow of our software is demonstrated on these two pages. It directly corresponds to actual planning and process steps that are known from the railway business so that each action in the system follows your processes and is transparent to you. The intuitive and clearly organized appearance of the graphical user interface further accentuates this as its design supports the workflow.

During all of your planning steps, we can respond to your individual solution finding as the parameters are adapted.

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