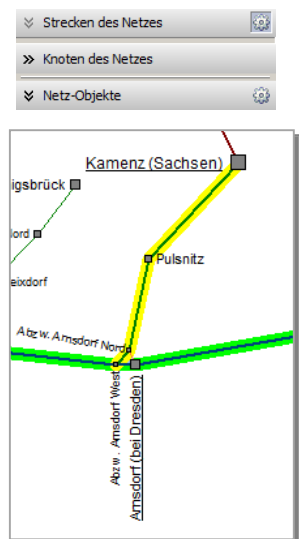# News

Issue: April 2017

Main display, route map and user interface in general

- Color highlighting of lines and network objects in the route map
- The elements of the networks toolbar were split into a toolbar of the route map, of the line list and of the object list. The new toolbars can be faded in and out individually with gear buttons right above in the map and the lists.

- The display settings from the toolbar were moved left downwards to the status bar. Now zooming in and out of the route map is also possible with *Ctrl+mouse wheel*.

- The menu items, which deal with the topology of the network, are summarized under "edit route map".

- The menu items „open graphic timetable of the current line" and "edit infrastructure data of the current line" now are also available with the right click menu.

- A double click in the route map effects various standard actions depending on the current display.

- By now the sorting of the object list is possible with a double click on the column header.

Train overview with or without change of operating days

- Under network → evaluation → *overview trains* → *trains parts* and *direct connections* the displayed connections can be either shown with or without a change of operating days. This facilitates the control of the entry and their interpretation of train parts especially in more complex cases of changes of operating days, construction phases and secondary runs.

Central renaming of train parts

- In the overview of the train parts of the network now a renaming of trainparts is possible.

Warning to unclear train part numbers

- Train part numbers („12345a") must be explicite per operating day. That means on every operating day every train part number may occur only once. If this shouldn't be accidentally given, a warning sign will appear on the register site „train parts"; with clicking on the warning sign the unclear numbers and days of run are listed.

Assumption of trains between networks

- It is now possible to assume trains from other FBS-networks. For that the depiction of the infrastructure doesn't need to be 100% identical.

- The trains, which shall be assumed can be selected separately or multiple.

Customer's timetable: Sorting and change of operating days per column

There were numerous improvements implemented in the last update, e.g.:

- Optional change of operating days in one column,

- Improvement of the sorting algorithm to prevent the forming of „steps",

- No redundant indication of operating days at „part-time tables",

- Automated labels of e.g. combined trains, overhauls, connections,

- Clear symbolism for labelling of operating days regulations, which lead over midnight, with „in the nights after" (the preset text can be changed in the standard legend as usual),

- Optimized insertion of trains, which run after midnight, at a suitable point,

- Insertion of new trains at the temporal suitable point at the comparison.

Circulation plan

- Preparation of a „turning matrix" per junction station in the network: It can be configurized, in which relation trains reverse or are extended without a change of direction. The turning matrix can be edited:

 * in the network main display at „*editing*" → „edit *through running* " for every "real" junction station in the network,

 * in a circulation plan at „general circulation data" for every turning station of the circulation plan

- For the evaluation of the train part sequence the programme remembers also the train numbers of all trains of carriers of every circulation train part in relation to the position in the train. The train numbers are displayed additionally in the yellow notification window (shift key).

- The train (part) number can now be entered directly in the window „assign forced transitions": If you begin with typing of digits in an input field, it is switched to direct input; the products disappear, the entries are resorted by train numbers.

- Correction at the insertion of special services in the Sunday-Monday transition (that means after the last run on Sunday and before the following first run on Monday) – dependant from the time Sunday (evening) or Monday (Morning) is set.

- New stationed special service type „stoppage"

Arrival and departure posters

- The arrival and departure posters can process changes of operating days within a train run (shown by font change).

- Mere amplifier train parts aren't displayed any more.

- At trains, which run over midnight, the indication of operating days is dependant on whether the arrival and departure poster is created for a location spot before or after midnight and whether it is an arrival or a departure plan.

- Adaptation of the symbol „so far indicate all intermediate halts"

- The programme remembers the last entered arrival and departure poster settings individually for every location spot.

Interval graphics: Support of FBS-special characters

- Texts in interval graphics now also support FBS-special characters. Therefore the text input in interval graphics was redesigned and now also contains an own button to enter special characters.

Station timetable

- Search for time in track occupation plans and tabular station timetables
- in remote controlled station timetable indent rules of the track occupation plan can be configured individually for every location spot
- Titles of track occupation plans and tabular station timetable support macros
- The indication of the header information belonging to a track occupation plan is configurable
- Operating day filters of track occupation plan and tabular station timetable consider midnight transitions
- Optional indication of the platform height in the track occupation plan
- Line widths of train, track and background frame in the track occupation plan can be configured individually
- when dividing lines are configured between tracks, these are also shown in the head of the track occupation plan

Graphic timetable, train data, wagon list

- When taking over the load out of the wagon list up to now it was rounded to 5 t. In practice this doesn't seem to be customary anymore; that's why the rounding now is made to whole tons.

Facilitations and extensions of editing the infrastructure

- When adding new lines to the network all intermediate stations are automatically preset as junctions of the route map, if they already appear on other lines or they have important characteristics.

- Now in both lists of the window „determine junction of the route map" (up to now: „select junction stations") in both lists a multiple selection is possible.

- The positioning of junctions in the route map was converted to Drag&Drop: To drag a junction hold down the left mouse button. A preview of the shift is displayed.

- To ease enabeling the positioning of junctions, which don't already have coordinates, these junctions are displayed with a virtual invented coordinates like on a string of pearls (in the positioning mode or as long as there aren't any coordinates in the net).

iRFP

- When renaming the location spots (abbreviations) under „edit route data" the abbreviation is renamed automatically at every further appearance in the network.

- Support of more than 16 tariff and coverage zones

Correction: When calling up a graphic timetable for a train with a multiple train run index over the window *new graphic timetable by train run* the H1-train was marked.

RailML-Export

- The option „limit period of time" limits the exported operating days effectively and causes therewith quasi a „cut" of the period, as if you would limit the period of the network manually before the export.

RailML-Import

- Conversion of the user interface to an „assistant"

- Improved consideration of train coupling and sharing, direct through-coaches and through-runnings

- optional manual/semi-automatic allocation of multiple train run indices at train number conflicts with already existing trains in the FBS network

Fplo-Import

- filtering of the indication of the train-Fplo-entries by columns possible

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FBS

So macht man Fahrpläne!

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