



## **CAPACITY PLANNING TOOL**

### **USER MANUAL**

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▪



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## 1 Introduction

The User Manual contains all essential information required to test the already implemented functionalities of the Capacity Planning Tool.

It provides a comprehensive description of the system's modules, including their specific functions and capabilities, as well as step-by-step instructions for accessing and using the system.

Functionalities that are designed within the tool but not yet implemented are clearly marked in the document.

### 1.1 Purpose of the manual

**This User Manual has been created to guide the users through the usage of the Capacity Planning Tool.**

While the manual explains how to use the currently available functionalities, it is important to note that some functions and entire modules are still under design or development.

Users involved in testing and exploring the tool are kindly asked to keep in mind that, although additional design elements, buttons, or menu items may be visible in the user interface, **only the functionalities explicitly described in this document are currently available for use**. All other elements are still under development or planning.

As the Capacity Planning Tool is an evolving product, it may contain known issues, limitations, and areas requiring further improvement. We highly appreciate any feedback, observations, or suggestions, as these are essential for improving the tool during its development phase.

### 1.2 Scope of the application

The system covers three main modules:

- **TCR Module**
- **Capacity Model module – *Not yet implemented!*** (Available from October 2026!)
- **Capacity Supply Module**

## 2 Access to the system

The system supports the Single Sign-On (SSO) authentication.

Users can access the following environments:

- Production environment - ***Not yet implemented!*** (Available from June 2026)
- Stage environment: <https://cpt-staging.rne.eu/fusion/>

## 2.1 Registration

Registration is needed. Please send your request including name, company, role, e-mail address and the modules you need to access (TCR,CS ,CM) to [support.cpt@rne.eu](mailto:support.cpt@rne.eu).

## 2.2 Log In

The Log In feature allows registered users to securely access the application via Single Sign-On (SSO).

Successful authentication grants access to the system dashboard and authorized features.

### The login landing page contains:

Link to the SSO login

EU logo used as a link - [https://transport.ec.europa.eu/index\\_en](https://transport.ec.europa.eu/index_en)

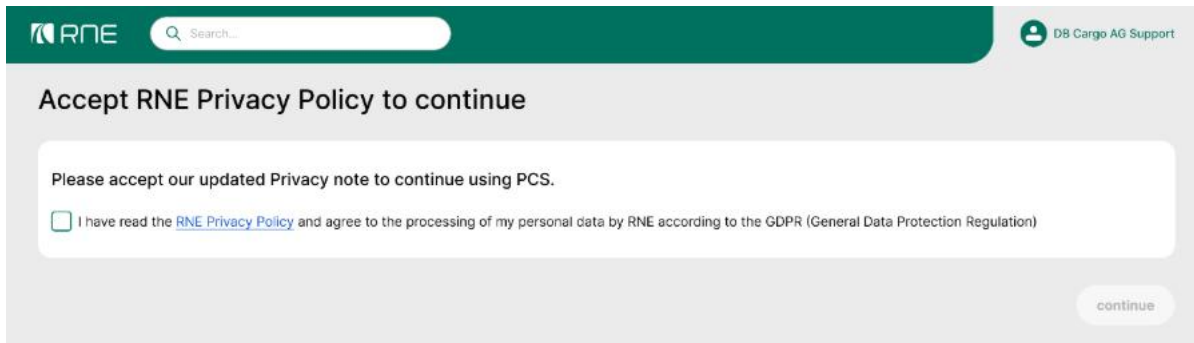
Link to CPT Documentation – [CPT CCB SharePoint link](#)

Contact details to RNE CPT Support - [support.cpt@rne.eu](mailto:support.cpt@rne.eu)

Link to the RNE privacy policy - <https://rne.eu/legal-notice/>



On first login, the RNE privacy policy must be accepted before the user can continue using the application.



### Log in Screen Overview

**1. SSO (Single Sign-On):** Users can log in directly using SSO by clicking on the “log in with Active Directory” button.

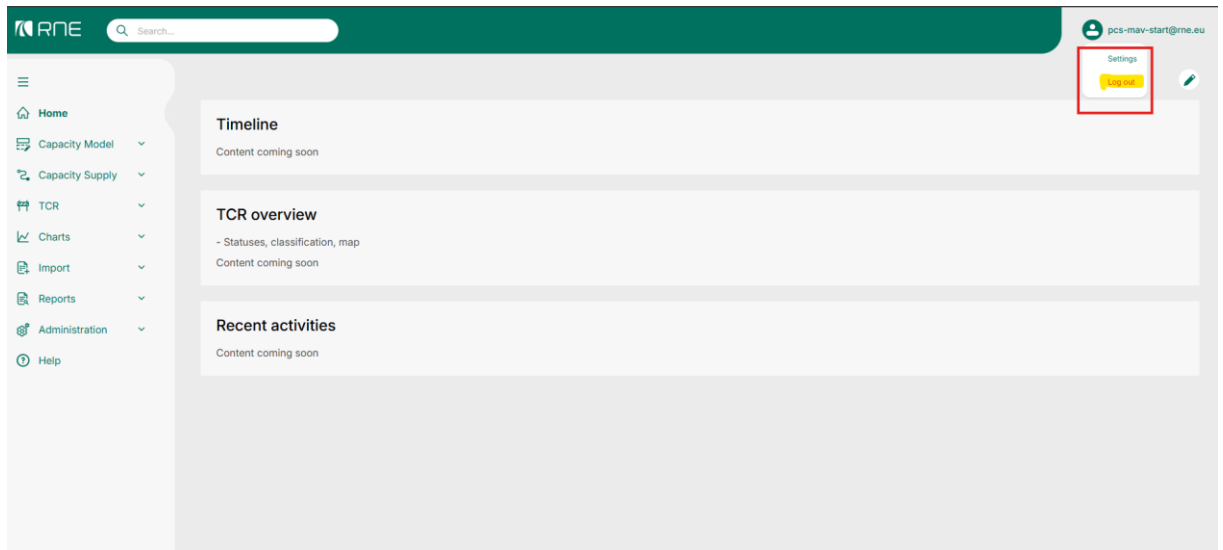
It may happen that a user is registered in RNE’s Active Directory but is not an active Fusion user. In this case, after a successful SSO log in, only the email address used for SSO is displayed. The user can only log out.

#### Steps to Log In:

- **Logins (Single Sign-On – SSO)**
  - Users can log in using Single Sign-On (SSO).
  - Authenticate using the configured SSO provider to access the application.

### 2.3 Log Out:

- Locate the user email at the **top-right corner** of the screen.
- Click on the user email to open the menu.
- Select **Log Out**, which appears below the Settings option.
- After clicking **Log Out**, the “**Pick an account**” window is displayed.
- If multiple accounts are available, select the appropriate account.
- Once an account is selected, the user is redirected to the **login landing page of the CPT**.



## 2.4 User Profile and personal settings

Users can access and manage their profile settings by clicking their account name in the top-right corner of the screen and choosing Settings.



The profile displays core information such as name, company assignment, email, and contact details.

**Profile Details**

First name *	Last name *	Username *
<input type="text" value="MAV"/>	<input type="text" value="Admin"/>	<input type="text" value="pcs-mav-start@rne.eu"/>
Email *	Phone	Company *
<input type="text" value="pcs-mav-start@rne.eu"/>	<input type="text"/>	<input type="text" value="MAV Infrastructure Co. Ltd"/>

The user settings are organized in a tabbed layout with the following sections: **Profile**, **Permissions** and **Notifications**.

### Settings

**Profile Details**

<small>First name *</small> MAV	<small>Last name *</small> Admin	<small>Username *</small> pcs-mav-start@rne.eu
<small>Email *</small> pcs-mav-start@rne.eu	<small>Phone</small>	<small>Company *</small> MAV Infrastructure Co. Ltd

**Permissions**

User group \*  
Company admin

<b>Admin</b>	<input type="checkbox"/> Administrator	<input type="checkbox"/> Company admin
<b>TCR objects</b>	<input type="checkbox"/> View chart	<input type="checkbox"/> Read <input type="checkbox"/> Comment <input type="checkbox"/> Workflow manager <input type="checkbox"/> Write
<b>CM objects</b>	<input type="checkbox"/> Read	<input type="checkbox"/> Comment <input type="checkbox"/> Workflow manager <input type="checkbox"/> Write
<b>CNA objects</b>	<input type="checkbox"/> Read	<input type="checkbox"/> Comment <input type="checkbox"/> Workflow manager <input type="checkbox"/> Write
<b>ICL</b>	<input type="checkbox"/> Read	<input type="checkbox"/> Comment <input type="checkbox"/> Workflow manager <input type="checkbox"/> Write
<b>PA objects</b>	<input type="checkbox"/> Read	<input type="checkbox"/> Comment <input type="checkbox"/> Workflow manager <input type="checkbox"/> Write
<b>CP objects</b>	<input type="checkbox"/> Read	<input type="checkbox"/> Comment <input type="checkbox"/> Workflow manager <input type="checkbox"/> Write

**Email notifications**

Object updates

- Object status returned to previous
- New response on your CNA in harmonization from responsible applicant
- New response on your TCR object in coordination from affected IM
- Your object was edited
- Object you edited was changed

### Profile Tab

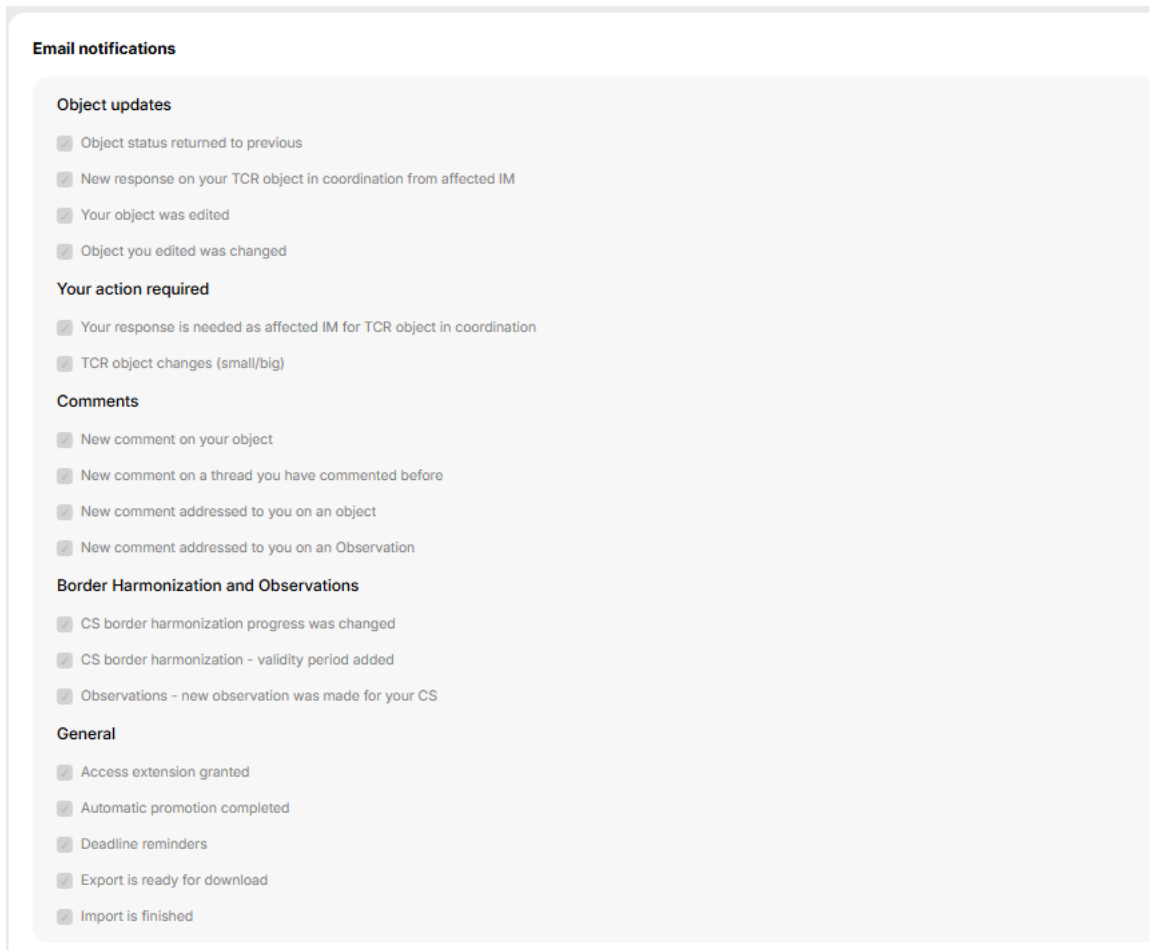
- **Personal Information:** Displays username, first name, last name, contact email, and phone number.
- The **username** is fixed and cannot be edited by the user.
- **Agency Assignment:** Administrators can assign the user to an agency. The user’s country is automatically inherited from the selected agency.
- **User Status:** Administrators can set the user status as **Active** or **Inactive**.

### Permissions Tab

- Users can view their own permissions, which are determined by their assigned **agency**, **role**, and individual **permissions**.
- Permissions cannot be modified by the user. Administrators can update permissions through the **User Management** function.

### E-mail Notifications Tab

Users can specify after which actions they would like to receive notifications.



## 2.5 Navigating the interface

### 2.5.1 Layout and icons

Navigation through the platform is done using the header and sidebar, which are always visible. In addition to these high-level navigation elements, each module may include its own navigation methods, such as the stepper used during object creation.

Header Functions:


- RNE Logo: Clicking the RNE logo returns the user to the home page.
- Global Search Bar – Searching for any existing object in the tool
- User Profile: Users can view and manage their profile settings.

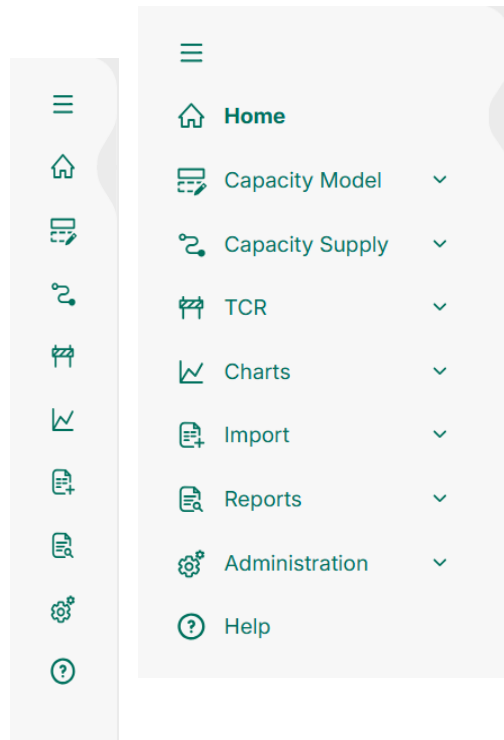


Sidebar

The sidebar is visible throughout the application and allows quick access to all functions. By default, the sidebar is collapsed, showing only icons for each menu item.

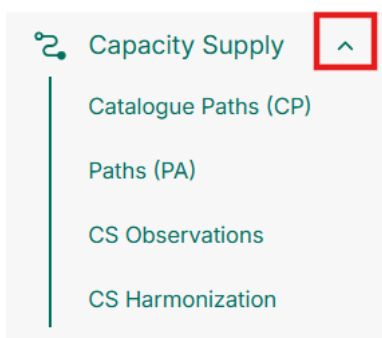
Navigation:

Clicking the hamburger icon  expands the sidebar to display labels for the navigation icons.



In the expanded sidebar, menu items are collapsible and contain sub-menu items.










Clicking on the arrow next to the main menu item opens its sub-menu. Selecting a sub-menu item navigates the user to the corresponding screen.




This design ensures that users can efficiently navigate both high-level and module-specific functions while maximizing screen space.

### 2.5.2 Main and sub-Menus

The platform’s main menu contains several primary modules, each with its own sub-menus and functions. The availability of these menus and sub-menus depends on the user’s role and permissions.

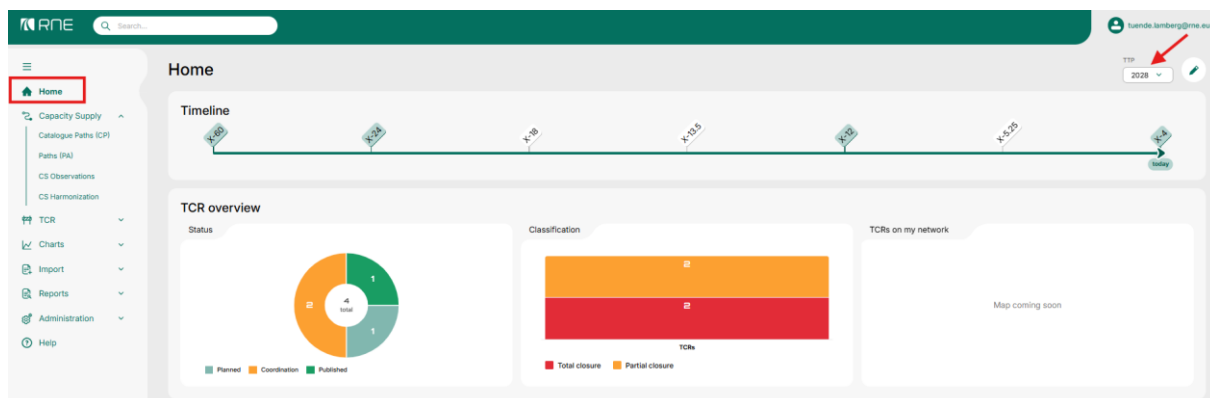
-  Home: This main menu leads to the post-login home screen, which features the user's dashboard.
-  Capacity Model Module: This module includes sub-menus for Capacity Needs Announcements (CNA), Capacity Models (CM), Intended Capacity Line (ICL) Manager, and Variant Manager. **Not implemented yet!**
-  Capacity Supply Module: This module contains functions and object lists related to Catalogue Paths (CP) and Paths (PA). Additional sub-menus such as CS Observations and CS Harmonization are also accessible here.
-  TCR Module: This module provides access to the TCR List and related TCR functions, as well as the TCR Map View.
-  Charts: This menu contains visualisation tools to support different modules. Under Capacity Model, users can access the Line, Segment, and Network Overview charts- **Not implemented yet.** The Capacity Supply Chart (CS Chart) is linked to the Capacity Supply module, while the TCR Gantt Chart is associated with the TCR module.
-  Import: This menu includes sub-menus for importing various objects. Sample files are also provided to assist with imports.
-  Reports: This menu contains reports and statistical overviews. - **Not implemented yet!**
-  Administration: This menu provides functions related to User Management, Accesses, Timetable, Reference Data, and Export.
-  Help: Access to user support, documentation, and FAQs. - **Not available yet!**

 Note: Not all menu items are visible to every user. Visibility depends on the user's assigned role and access permissions.

### 3 Dashboard

The Dashboard provides users with a central overview of relevant activities, objects, statistics, and tasks within the application. It is accessible from the main page by clicking the **Home** menu.

The displayed dashboard content depends on the user's roles and permissions. All dashboard widgets display information for the selected TTP.



### 3.1 Dashboard Features

The dashboard contains different types of widgets, including:

- Timelines
- KPI cards
- Charts and overviews
- Maps
- Object lists
- Recent activity tables

Many dashboard widgets are interactive. Clicking on charts, KPI cards, or list entries opens the related filtered object list or object details page.

#### Lists and Navigation

Dashboard lists display the most relevant objects and recent activities. Objects can be opened directly from the dashboard.

The “See all” option opens the corresponding list view with predefined filters applied.

#### Recent Activities

The Recent Activities section provides an overview of:

- Recently added objects
- Recently modified objects
- Status changes
- Recent comments

Only objects accessible to the user are displayed.

### 3.1.1 Dashboard Customisation – *Not yet implemented!*

Users can customise the dashboard layout from the three-dot menu in the top-right corner of the page.

The following actions are supported:

- Show or hide dashboard sections
- Reorder dashboard blocks

The selected layout is automatically saved for the user.

## 3.2 Role-based Dashboard

### 3.2.1 IM Dashboard

Infrastructure Manager (IM) users can access the following dashboard sections depending on their permissions:

- Timeline showing timetable milestones and important dates
- TCR Overview, including:
  - Status overview
  - Classification overview
  - Network map
- TCR KPIs, including:
  - TCRs waiting for you
  - TCRs waiting for others
  - Rejected TCRs
- Object Overview
- Network Overview
- Recent Activities
- Border Harmonisation overview and related object lists
- Observations overview and related object lists
- Your TCRs overview and task lists
- Affected TCRs overview and task lists

### 3.2.2 Applicant Dashboard

Applicant users see dashboard widgets related to Capacity Needs Announcements (CNAs), including:

- CNA overviews and statistics
- CNA task lists
- Recent activities
- Capacity Supply observation overviews

## 4 General Functionalities

This section describes system-wide features that are available across modules.

### 4.1 Searching and filtering

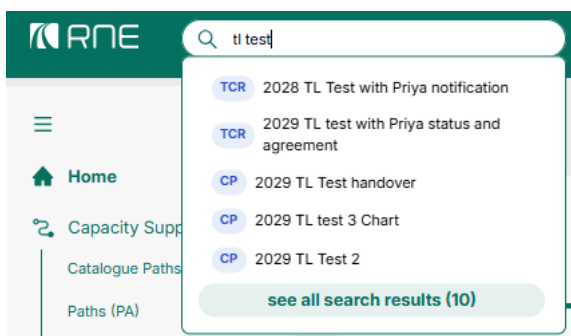
#### 4.1.1 Global Search

The Global Search allows users to search for objects across all accessible modules using a free-text search bar located in the header.

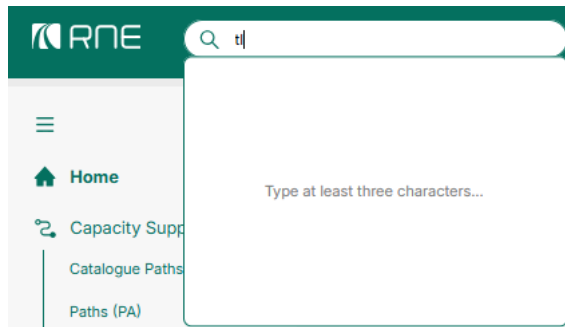


To perform a search:

- Click inside the global search bar.
- Enter at least **three characters** to start the search.
- Suggested search results are displayed automatically while typing.



If fewer than three characters are entered, no search results are shown.



The Global Search can search for objects based on the following fields:

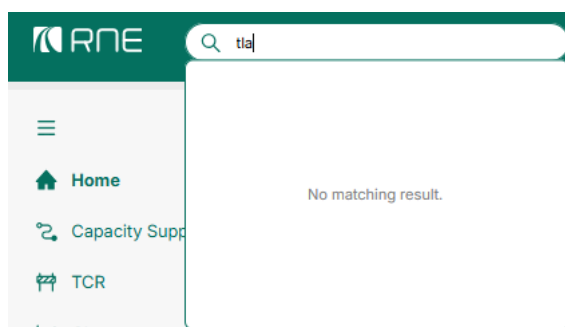
- Title
- TSI ID Core
- Project ID (TCR only)
- Train Number (Path, CMO, CNA only)

The quick search displays up to **three results per object type**. Each result includes:

- Object type
- TTP
- Title

Results are grouped by object type and sorted by **Last change date (descending)**.

If no matching objects are found, a “no results” message is displayed.



Users can:

- Select one of the suggested results directly, or
- Continue typing and press **Enter**, or
- Click **See all search results**

The **See all search results** option is available whenever at least one result exists.

All search results are displayed on a dedicated results page in a **tabular list view**.

Search results for "tl test"

TCRs CPs

Title	ID	Status	Train type	Start location	End location	From time	Calendar	To time	Circulation day	Valid from	Valid to	Last change date	Language
TL Test handover	CP-0080-WNGK7YGP8A0I-00-2029	Planned	Passenger	Frankfurt (Main) Ost Gbf	Aachen Hbf	02:00	5, 9	06:00	Fr, Sa	2028-12-10	2029-12-08	2026-05-08T	DE
TL test 3 Chart	CP-0080-6GSJH7KL2HAR-00-2029	Published	Freight	Frankfurt (Main) Ost	Aachen Wes	17:30	1, 7	22:00	Mo, Tu, We, Th	2028-12-10	2029-12-08	2026-05-08T	DE
TL Test 2	CP-0080-ZFBXVRSNUJIG-00-2029	Published	Freight	Frankfurt (Main) Ost	Aachen Wes	10:00	1, 7	15:00	Mo, Tu, We, Th	2028-12-10	2029-12-08	2026-05-08T	DE
TL Test 1 chart	CP-0080-45927QD2KORF-00-2029	Published	Freight	Frankfurt (Main) Ost	Aachen Wes	08:00	1, 7	13:00	Mo, Tu, We, Th	2028-12-10	2029-12-08	2026-05-08T	DE
TL test 1	CP-0080-MHTGAZLJ63WG-00-2028	Planned	Freight	Frankfurt (Main) Ost	Aachen Wes	08:00	4, 5	13:00	Th, Fr	2027-12-12	2028-12-09	2026-05-05T	DE
Copy 2 of TL Test object creation	CP-0080-HE+SNYEXBRA-00-2028	Planned	Freight	Mannheim Hbf	Köln Hbf	08:09	6	13:07	Sa	2027-12-12	2028-12-09	2026-04-29T	DE
TL Test object creation	CP-0080-3FIQ+A2820IX-00-2028	Coordination	Freight	Mannheim Hbf	Köln Hbf	08:09	6	13:07	Sa	2027-12-12	2028-12-09	2026-04-29T	DE
Copy of TL Test object creation	CP-0080-GA-MPIXIBU2-00-2028	Planned	Freight	Mannheim Hbf	Köln Hbf	08:09	6	13:07	Sa	2027-12-12	2028-12-09	2026-04-29T	DE

Items per page: 10 | 1 - 8 of 8

The column configuration from the corresponding object list views is also applied to the search results.

Compared to the dedicated object type screens, the Global Search results page does not support bulk editing or additional filtering.

#### 4.1.2 Quick Search

The CPT tool provides Quick Search for simple, free-text searches.

The **Quick Search field** is available on all list view screens and charts. Each object type has different searchable parameters, which are indicated in the search field's placeholder text.



Users can start typing directly into the field. A minimum of **three characters** is required.

As the user types, the list of objects is **dynamically filtered** in real-time.

The Quick Search checks the following fields:

- **Title**
- **TSI ID core**
- **Project ID** (TCR only)
- **Train number** (Path only)

**Interaction:**

- Clicking on a list item opens its detailed view.
- **Bulk actions** are available for objects filtered using Quick Search.
- On the search results screen, clicking the search field allows users to start a new search or remove the current term. These actions **do not modify the existing results table**.

### 4.1.3 Query Builder (filtering)

The **Query Builder** (filtering) allows users to define **custom filter criteria** for each object type.

#### Apply filter(s):

- Set up filter criteria in the **Filters bar** (TTP is mandatory).
- Add new filters using the **+ button**.
- Click on **Search** to apply your filter on the list.

#### Query Builder Rules:

- The **TTP filter criterion is mandatory** and cannot be removed. Only one TTP can be added per filter.
- Objects (e.g., TCRs) are returned if they are valid in the selected TTP, even if they overlap with other TTPs.
- All other criteria can be added multiple times, except TTP.
- Filter criteria are combined using a **logical AND**, while multi-select values are combined using **OR** (except Company Pair and Location, which are combined).
- Column-based filters remain active even if the corresponding column is hidden.
- The search is executed **only when the search button is clicked**. Editing filter criteria alone does not trigger a search.

#### Save Filter(s):

**Users can create and save custom filters for different object types and views. Saved filters allow users to quickly reuse frequently used search criteria. Filters are stored separately for each object type and view, meaning a filter created for one object type is not available for others.**

#### To create a new saved filter:

- Configure the desired filter criteria in the Filters bar.
- Click **Search** to apply the filter.
- Click the **Create Filter** button.
- Enter a name for the filter.
- Confirm by clicking **Create Filter** again.

**The new filter is then added to the list of available filters for the selected object type or view.**

#### **Managing Saved Filters:**

**Users can manage existing filters by clicking the edit icon next to the filter name and selecting Manage saved filters.**

#### **The following actions are available:**

- Rename filters
- Update existing filters
- Delete filters

**When a saved filter is modified, the system indicates unsaved changes with an asterisk (\*).**

#### **Users can either:**

- Update the existing filter, or
- Save the modified criteria as a new filter

**At least one saved filter must always remain available.**

#### **Future Enhancements:**

- **Filter sharing** is planned for Phase II.

## **4.2 Sorting, Column Customization & Pagination**

The list view and result list for all object types (CP, PA, TCR) follow the same design principles and offer the same visualization and customization options. This chapter provides a general overview of the common list layout and the available user actions.

### **Sorting**

Sorting is available directly from the column headers.

- The default sorting is the last date change, descending.
- Columns that support sorting display a sort of arrow indicator in the header.
- Clicking the arrows on the column header toggles the column data to ascending or descending order.
- Two types of sorting are available, depending on the column type, and the sortable columns vary by object type:
  - Alphabetical sorting – for text-based columns (A–Z and Z–A).
  - Numeric sorting – for number-based columns (ascending and descending).
- The active sort of column and direction are visually indicated by the arrow state.
- Only one column can be actively sorted at a time.

Sorting allows users to quickly organize results based on priority, name, value, or other key attributes.

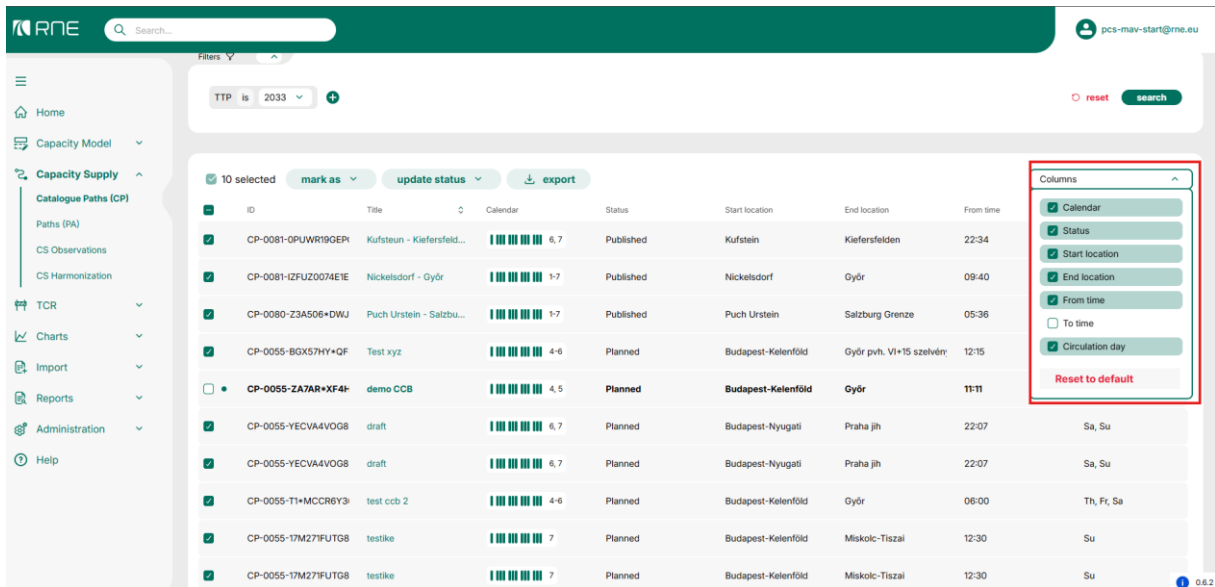
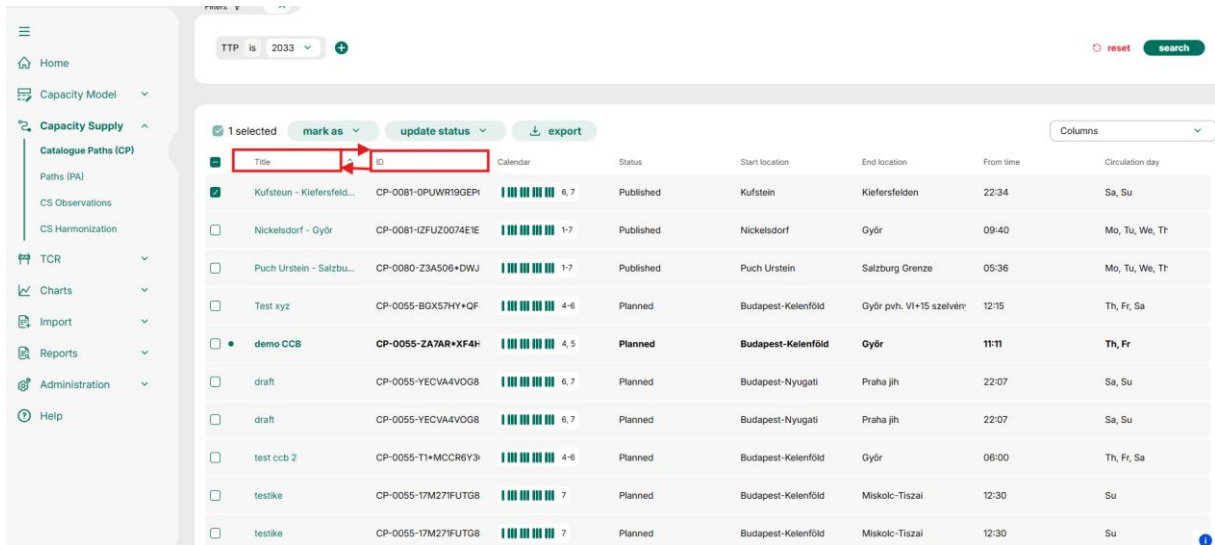
## Columns and Layout

**Column Customization:** The results table supports flexible column customization, allowing users to tailor the layout to their needs for each object type.

Users can:

- Adjust column width by dragging the column borders.
- Rearrange columns by dragging the column header and dropping them into the desired order.
- Enable or disable columns, controlling which data fields are visible in the table.
- Persist column settings per object type, so changes made for one object do not affect others.

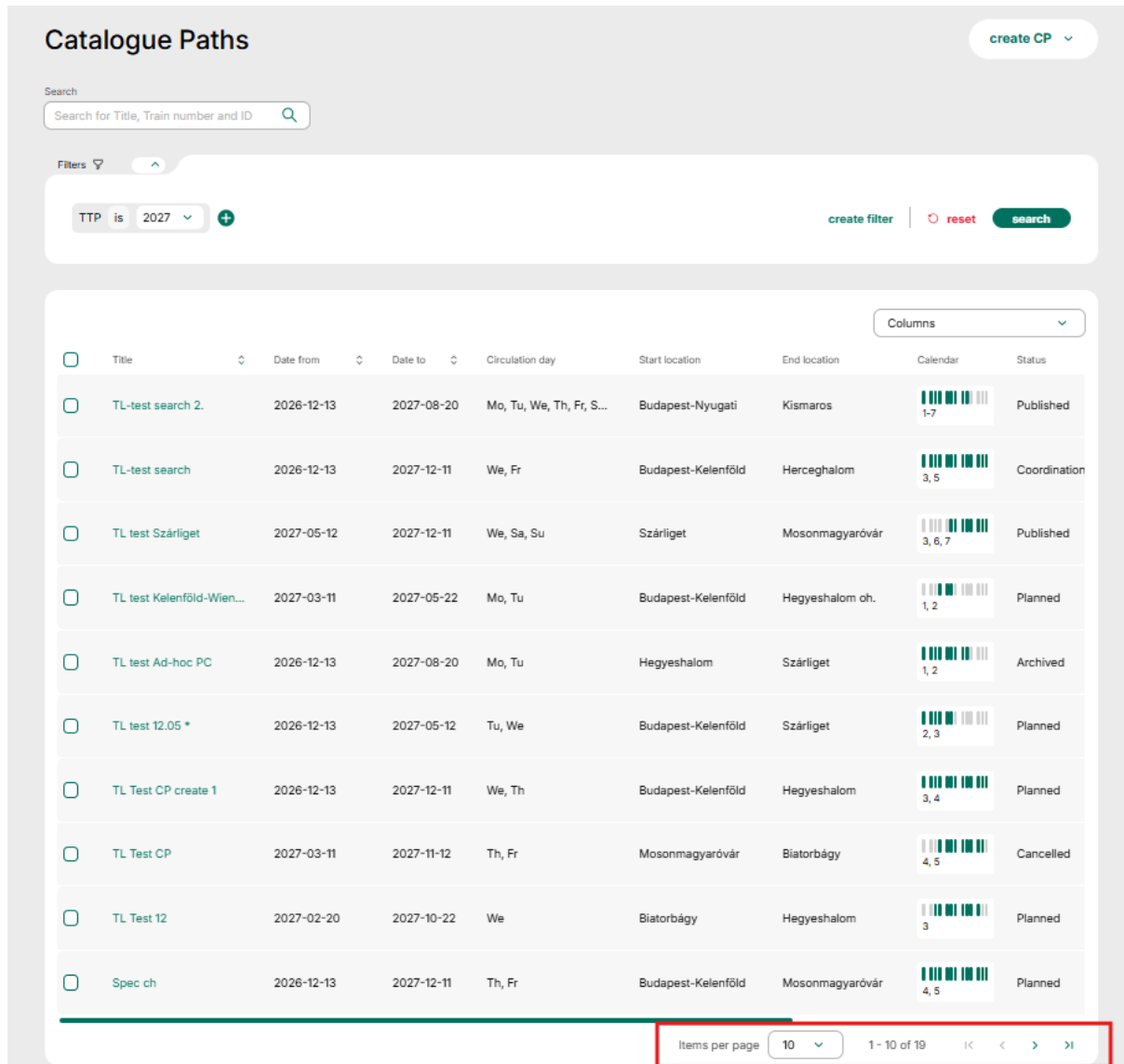
This customization enables users to focus on the most relevant information while reducing visual clutter. The table layout updates immediately after changes are applied.



**Pagination:** The results page/object list view is paginated to efficiently handle large data sets and improve performance and usability.

- Users can change the number of items displayed per page at the bottom of the list.
- The current page and total number of pages are clearly indicated.
- Pagination includes stepper controls that allow users to move to the next or previous page.
- User can jump directly to the first or last page of the list.

These controls make it easy to navigate large result sets without excessive scrolling.



**Catalogue Paths** create CP ▾

Search  
Search for Title, Train number and ID 🔍

Filters ▾ create filter | reset | search

TTP is 2027 ▾ +

<input type="checkbox"/>	Title	Date from	Date to	Circulation day	Start location	End location	Calendar	Status
<input type="checkbox"/>	TL-test search 2.	2026-12-13	2027-08-20	Mo, Tu, We, Th, Fr, S...	Budapest-Nyugati	Kismaros	1-7	Published
<input type="checkbox"/>	TL-test search	2026-12-13	2027-12-11	We, Fr	Budapest-Kelenföld	Herceghalom	3, 5	Coordination
<input type="checkbox"/>	TL test Szárliget	2027-05-12	2027-12-11	We, Sa, Su	Szárliget	Mosonmagyaróvár	3, 6, 7	Published
<input type="checkbox"/>	TL test Kelenföld-Wien...	2027-03-11	2027-05-22	Mo, Tu	Budapest-Kelenföld	Hegyeshalom oh.	1, 2	Planned
<input type="checkbox"/>	TL test Ad-hoc PC	2026-12-13	2027-08-20	Mo, Tu	Hegyeshalom	Szárliget	1, 2	Archived
<input type="checkbox"/>	TL test 12.05 *	2026-12-13	2027-05-12	Tu, We	Budapest-Kelenföld	Szárliget	2, 3	Planned
<input type="checkbox"/>	TL Test CP create 1	2026-12-13	2027-12-11	We, Th	Budapest-Kelenföld	Hegyeshalom	3, 4	Planned
<input type="checkbox"/>	TL Test CP	2027-03-11	2027-11-12	Th, Fr	Mosonmagyaróvár	Biatorbágy	4, 5	Cancelled
<input type="checkbox"/>	TL Test 12	2027-02-20	2027-10-22	We	Biatorbágy	Hegyeshalom	3	Planned
<input type="checkbox"/>	Spec ch	2026-12-13	2027-12-11	Th, Fr	Budapest-Kelenföld	Mosonmagyaróvár	4, 5	Planned

Columns ▾

Items per page 10 ▾ 1 - 10 of 19 < > << >>

### 4.3 Possible user actions

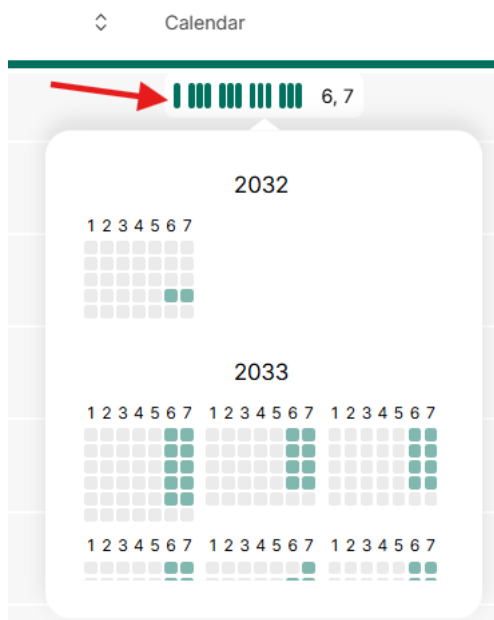
In the object list views user is able to perform the following actions:

- Bulk Select: Select multiple objects using the checkboxes in the first column, the header checkbox, or by holding Shift to select a range. The number of selected items is displayed

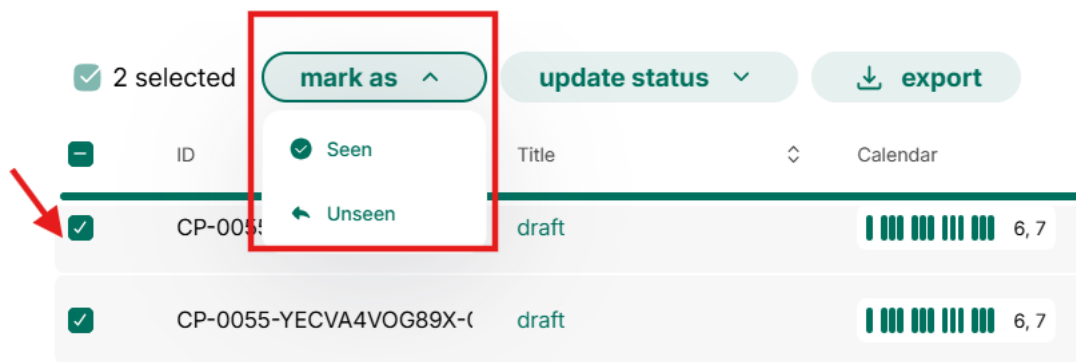
above the table, and all selections can be cleared using the header checkbox.

ID	Title	Calendar	Status	Start location	End location
CP-0055-YECVA4VOG893-1	draft	6, 7	Planned	Budapest-Nyugati	Praha jih
CP-0055-YECVA4VOG89X-1	draft	6, 7	Planned	Budapest-Nyugati	Praha jih
CP-0055-MMM271FUTG98-	testike	7	Planned	Budapest-Kelenföld	Miskolc-Tisza
CP-0055-17M271FUTG88-0i	testike	7	Planned	Budapest-Kelenföld	Miskolc-Tisza
CP-0055-17M271FUTG89-0i	testike	7	Planned	Budapest-Kelenföld	Miskolc-Tisza

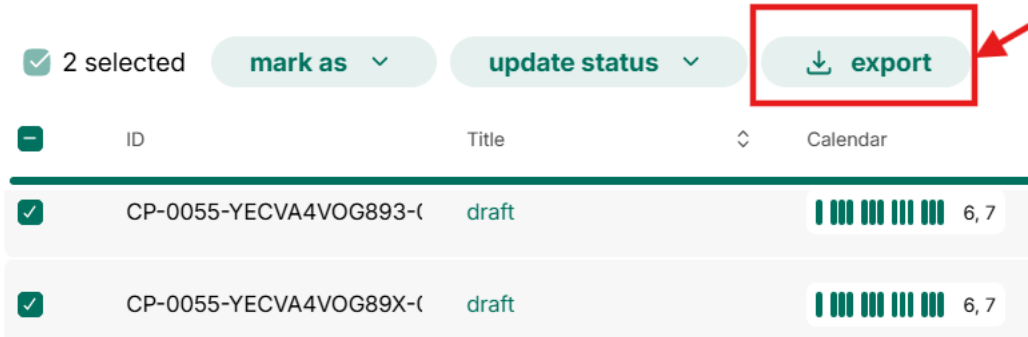
- Mini Calendar View: Hoover over the calendar icon to view relevant months for the object; affected days are highlighted.



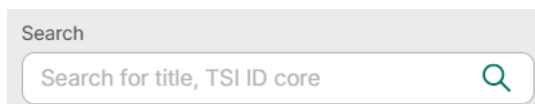
- Mark as Seen/Unseen: Mark selected objects as seen or unseen. Unseen items are highlighted in the list.



- Export: Export selected items to Excel or XML files. Exported files follow the same layout as the import templates. (See Export Objects for more details.)



- Search: Users can perform a quick search using the Title, TSI ID core or Train number (in case of PA) fields. More information about the Quick Search functionality can be found [\[here\]](#).



- Filter: The available filters allow users to limit the list of CPs to those matching the specified parameters. Those filters can be saved and then re-used. More details about the Filtering functionality can be found [\[here\]](#).

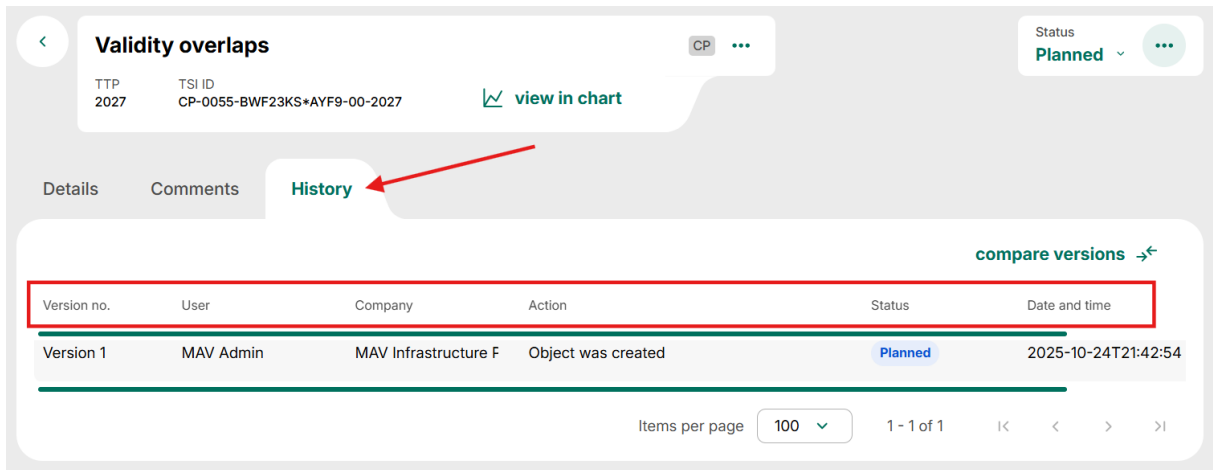
## 4.4 Date and time presentation

The standard date and time presentation formats are:

- Date: YYYY-MM-DD (e.g., 2026-12-15).
- Time: HH:MM (e.g., 18:40). This represents a 24-hour format.
- Date-Time: YYYY-MM-DDT HH:MM (e.g., 2025-03-03T05:00).

## 4.5 Object History

The Object History feature is available for all object types and can be accessed via the **History tab** in the object details (open the object from list view by clicking on the object title).

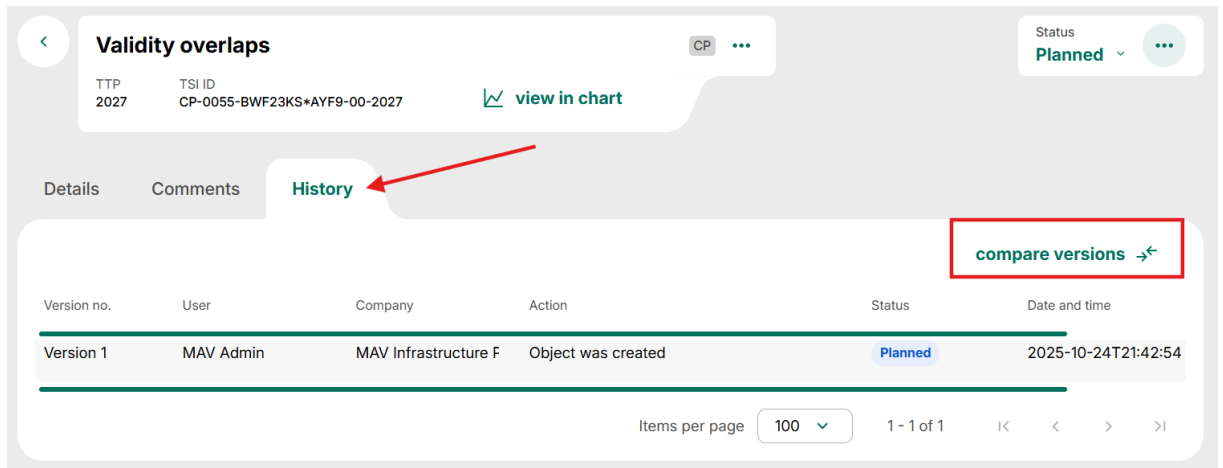


It provides information about all saved versions, including:

- **Version number** – sequentially assigned by the system
- **User** – who created the version; mapped from messages if applicable
- **Company** – on behalf of whom the change was made
- **Action** – description from a predefined list
- **Status** – object status at the time of the change
- **Date and time** – when the version was created

### Functions

- **History tab** – displays all versions and allows viewing details (archived versions are view-only)
- **Compare archive** – lets users compare two versions field by field; differences are highlighted



- **Permissions** – users need READ permission for the object type; only versions accessible to the user’s role/status are listed

### System behaviour

- Earlier versions are only visible if the user had access at the time or currently has extended rights

Access to history and comparison depends on user role, object status, and permissions.

## 4.6 Commenting

The comments area displays all comments for a given object, sorted by **creation date and time in descending order**. Comments are **flat** (no threads) and can be **up to 250 characters**.

### Comment Types:

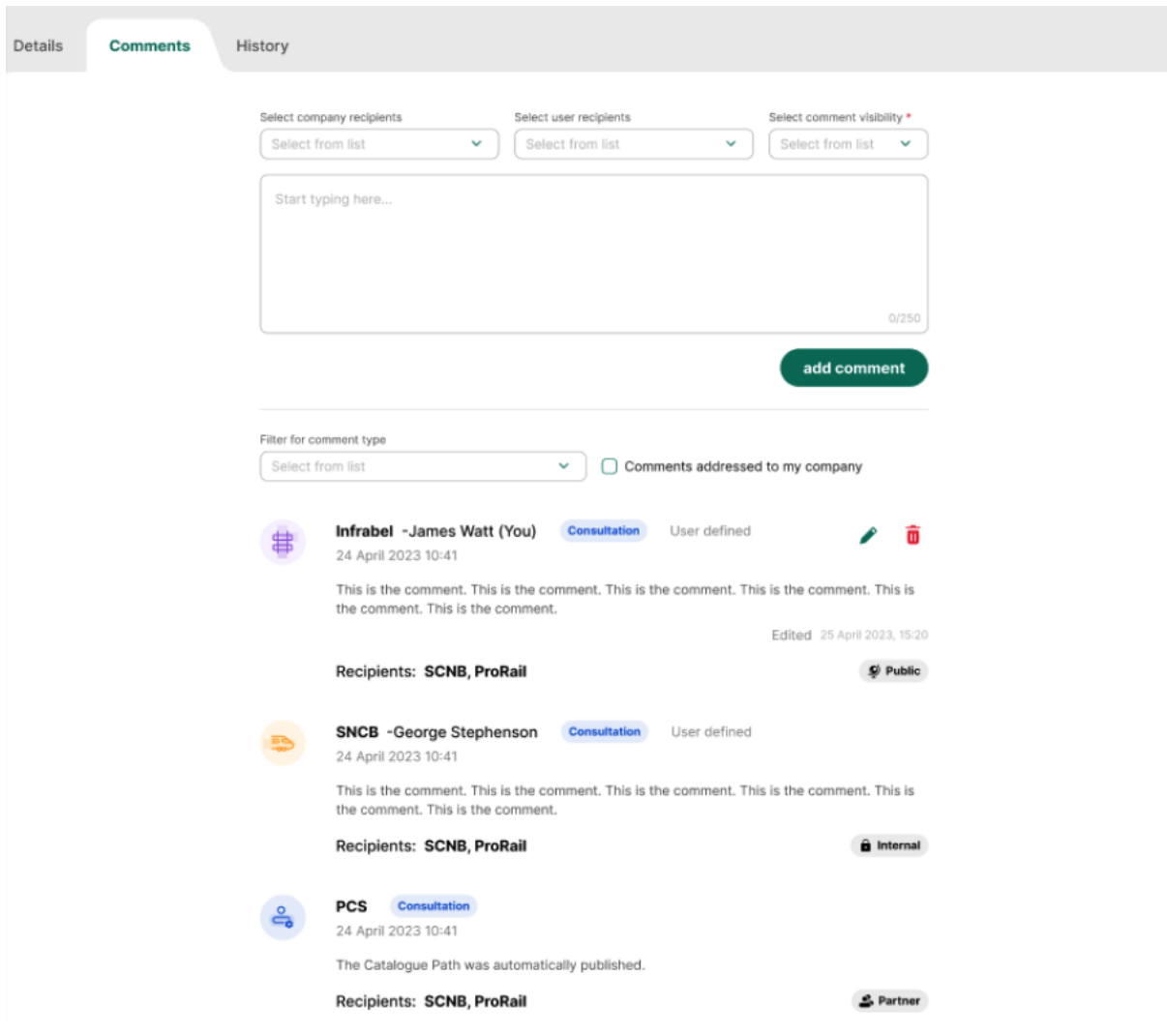
- **User-defined** – text comments added by a user, not related to status changes.
- **Mandatory comments** – process-related, required for certain actions such as demotions, closes, archives, or disagreements. Users can filter comments based on this type.
- **Demotion comments** – status transitions such as:
  - Return to planning (CP, PA, TCR)
  - Close, Archive
  - Disagree / Not consider (TCR)
  - Reopen
- **System comments** – automation-related comments

Select all

- User defined
- Demotion
- Close
- Archive
- Active
- Disagree

### Adding Comments

- Any user with **editing rights for the current phase** and **commenting rights** can add user-defined comments.
- Comments are **distinguished with an icon** based on the creator's role:
  - IM comments
  - Applicant comments



- Required fields for submission: **recipient** (company or user), **visibility**, and **text**.
- The recipient can be **any company or user**, even if they do not have access to the object. Selecting a recipient does **not grant access**.
- **Lists of companies and users** are independent; either a company or a user must be selected.

### Comment Visibility

Visibility	Description
Internal	Visible only to users of the creator’s agency; applies to all comments
Partners	Only for TCR and CS harmonisation; visible to specific agencies:

- **TCR:** Coordinating IM, Affected IMs
- **CS harmonisation:** Partner IM of the border

## Information Displayed on Comments

Each comment shows:

- Username of the creator
- Creator's agency
- Comment type
- Creation date and time
- Comment text
- Recipients
- Edit indication (if applicable)
- Last update date/time (if edited)

## Editing and Deleting Comments

- Users can **edit or delete their own user-defined comments** only in the phase where the comment was created.
- Example: A comment created in Harmonisation status can only be edited while the object is in Harmonisation status.
- Delete is **irreversible** and requires confirmation.
- **Mandatory and system comments** cannot be edited or deleted.

## 5 Functional modules

This section describes each module in depth, highlighting the specific features tailored to its purpose.

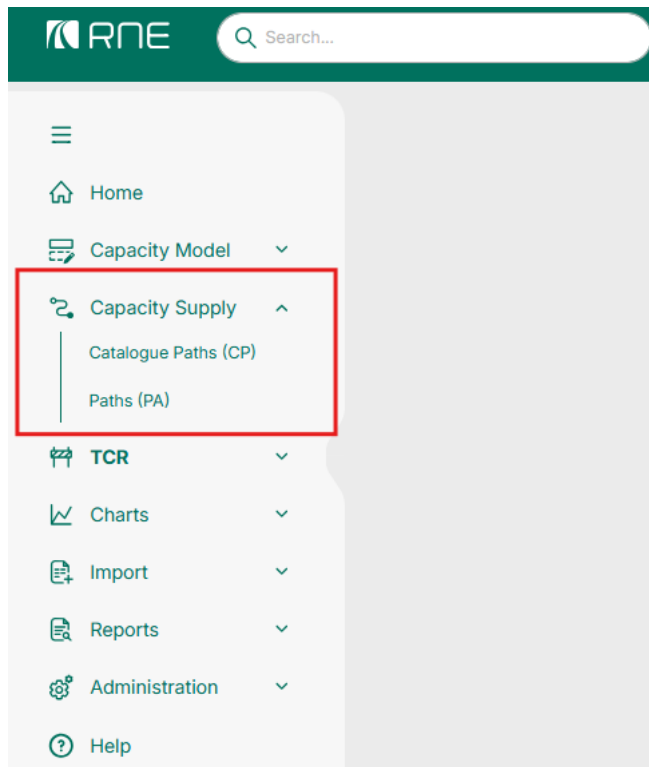
### 5.1 Capacity Model module – *Not implemented yet!*

### 5.2 Capacity Supply module

Capacity Supply provides an overview of available infrastructure capacity through Catalogue Paths (CPs) and Paths. Catalogue Paths represent preplanned capacity offers defined and published by Infrastructure Managers, while Paths are standardized data objects describing the actual journey structure. Together, these elements support capacity requests, coordination, and

allocation processes, ensuring harmonized communication between Infrastructure Managers, Applicants, and PCS-CB.

The Capacity Supply menu can be accessed from the side bar and contains the Catalogue Paths (CP) and Paths (PA) sub-menus.



## 5.2.1 Catalogue Paths (CP)

### 5.2.1.1 Catalogue Paths list view

The default view of Catalogue Paths is the List View, which displays all CPs in the system. From this screen, users can search, filter, edit, and create CPs. For more information about List View filtering, sorting, customization, pagination, and available user actions, please refer to the relevant section of the manual: [General Functionalities](#) .

### Catalogue Paths

create CP ▾

Search  
Search for Title, Train number and ID 🔍

Filters ▾

TTP is 2027 +

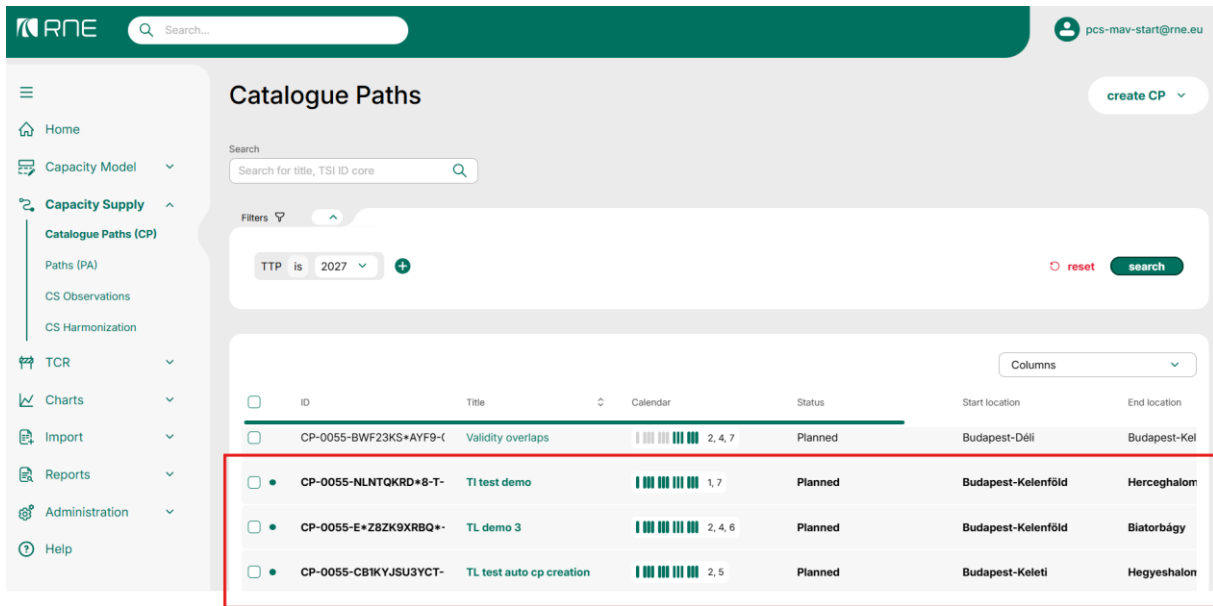
create filter | reset search

<input type="checkbox"/>	Title	Date from	Date to	Circulation day	Start location	End location	Calendar	Status
<input type="checkbox"/>	TL-test search 2.	2026-12-13	2027-08-20	Mo, Tu, We, Th, Fr, S...	Budapest-Nyugati	Kismaros	1-7	Published
<input type="checkbox"/>	TL-test search	2026-12-13	2027-12-11	We, Fr	Budapest-Kelenföld	Herceghalom	3, 5	Coordination
<input type="checkbox"/>	TL test Szárliget	2027-05-12	2027-12-11	We, Sa, Su	Szárliget	Mosonmagyaróvár	3, 6, 7	Published
<input type="checkbox"/>	TL test Kelenföld-Wien...	2027-03-11	2027-05-22	Mo, Tu	Budapest-Kelenföld	Hegyeshalom oh.	1, 2	Planned
<input type="checkbox"/>	TL test Ad-hoc PC	2026-12-13	2027-08-20	Mo, Tu	Hegyeshalom	Szárliget	1, 2	Archived
<input type="checkbox"/>	TL test 12.05 *	2026-12-13	2027-05-12	Tu, We	Budapest-Kelenföld	Szárliget	2, 3	Planned
<input type="checkbox"/>	TL Test CP create 1	2026-12-13	2027-12-11	We, Th	Budapest-Kelenföld	Hegyeshalom	3, 4	Planned
<input type="checkbox"/>	TL Test CP	2027-03-11	2027-11-12	Th, Fr	Mosonmagyaróvár	Biatorbágy	4, 5	Cancelled
<input type="checkbox"/>	TL Test 12	2027-02-20	2027-10-22	We	Biatorbágy	Hegyeshalom	3	Planned
<input type="checkbox"/>	Spec ch	2026-12-13	2027-12-11	Th, Fr	Budapest-Kelenföld	Mosonmagyaróvár	4, 5	Planned

Columns ▾

Items per page 10 1 - 10 of 19 < > >>

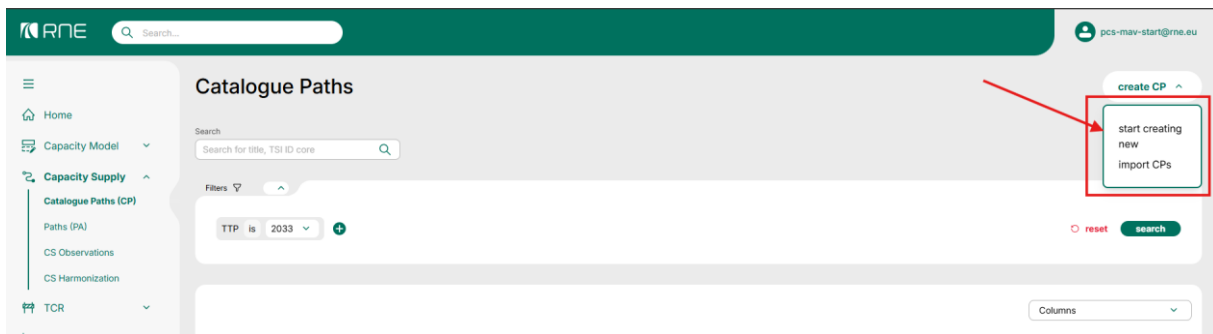
Items that have changed since the user's last login are highlighted with a dot and bold text. The highlighting remains until the user interacts with the item.



### 5.2.1.2 Create Catalogue Paths

The user can create Catalogue Path two ways:

- Import the CPs by select a XLSX file. More details about the Import functionality can be found [\[here\]](#).
- Manual creation through the user interface.



Users can manually create a **Catalogue Path (CP)** from the *Catalogue Path* list view by selecting **Create CP**. The Create Catalogue Path process consists of five sequential steps. Each step contains specific fields that must be completed to successfully create a CP.



Each step requires the completion of mandatory fields (marked with red asterisks) before continuing. Validation errors are indicated directly in the form and must be resolved to proceed with the “next” button.

## Details step

- Enter the **Title** of the CP (mandatory field), which should clearly describe the service or path being created
- Select the **Timetable Period** (mandatory field), determines the overall timetable framework in which the CP is valid
- Select the **Train Type** (mandatory field only for Process type “New Path Request and allocation process for annual timetable”), it influences which parameter forms will be displayed later (Passenger vs Freight/Other)
- Select the **Traffic Type** (Not mandatory field) can select the traffic type like High-speed tarins etc, Long-distance tarins etc.
- Select the **Category** (mandatory field) The user can select “International” and “National” according to their requirements.
- Select the **Process Type** (mandatory field). If an ad-hoc process type is selected, the system defaults to freight/other parameters later
- Generate or enter the **TSI ID**. The TSI ID must be unique and consists of Core element (mandatory) and Variant part (optional). **The core element must be exactly 12 characters.** Allowed characters: Uppercase letters (A–Z), Numbers (0–9), Dashes (-)

Once all mandatory fields are valid, click **Next** to proceed and the user navigated to the Calendar step screen.

## Add new CP

Details
Calendar
Journey
Parameters
Summary

### Details

**Main data**

Title \*

Coordinating IM  
MAV Infrastructure Co. Ltd (0055)

Timetable period \*

Train type \*

Traffic type

TSI ID \*  
  -  -  - 
**Generate ID** +

Company ID
Core element
Variant
TTP

Category \*

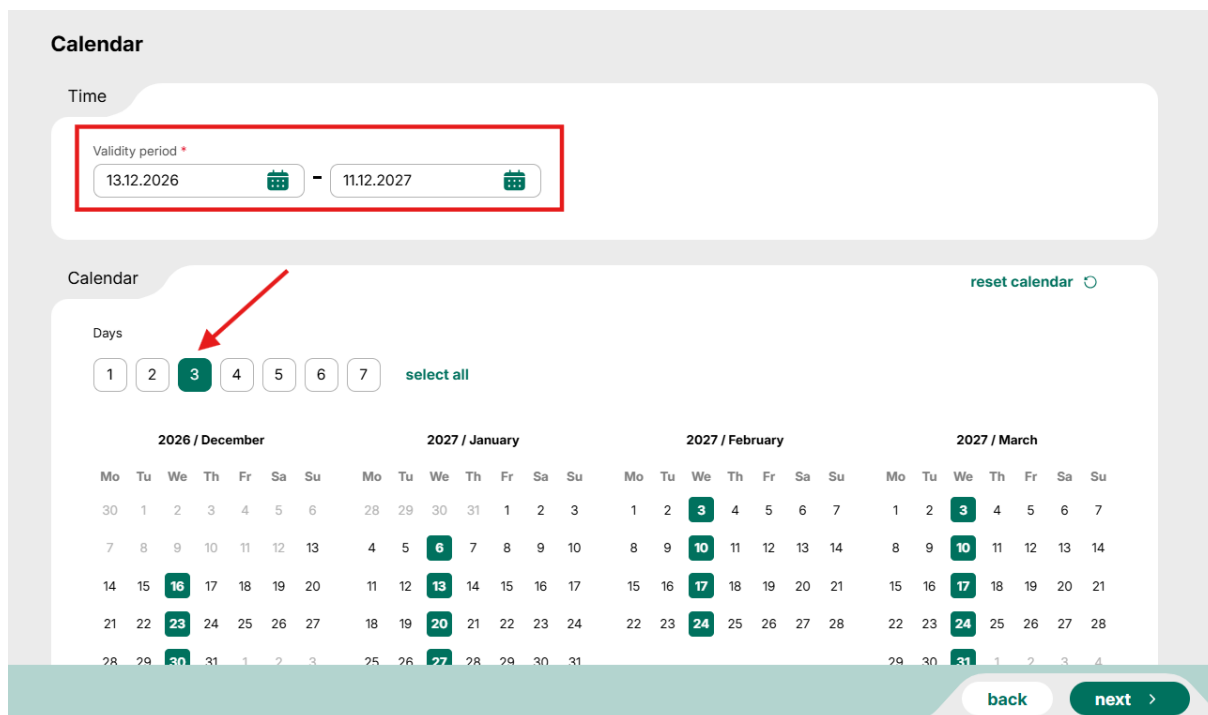
Process type \*

back
next >

## Calendar step

This step defines **when** the CP is valid.

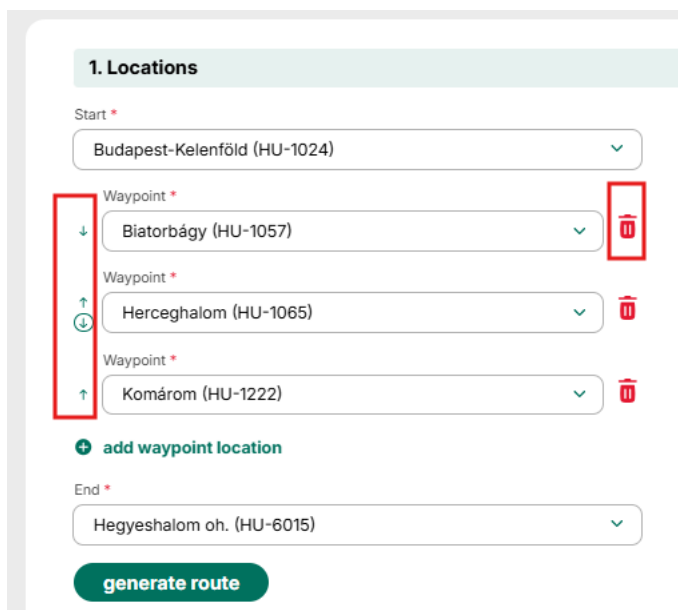
- Define the **Validity Period** (mandatory field) with adding the start date and end date
- Select **applicable operating days**:
  - Click Select All to activate all available days
  - Click Reset Calendar to clear all selections
- Select or deselect **individual days** directly in the calendar view
- **At least one operating day** must be selected
- Validation prevents continuing if no days are chosen



Once all mandatory fields are valid, click **Next** to proceed and the user navigated to the Journey screen.

## Journey step

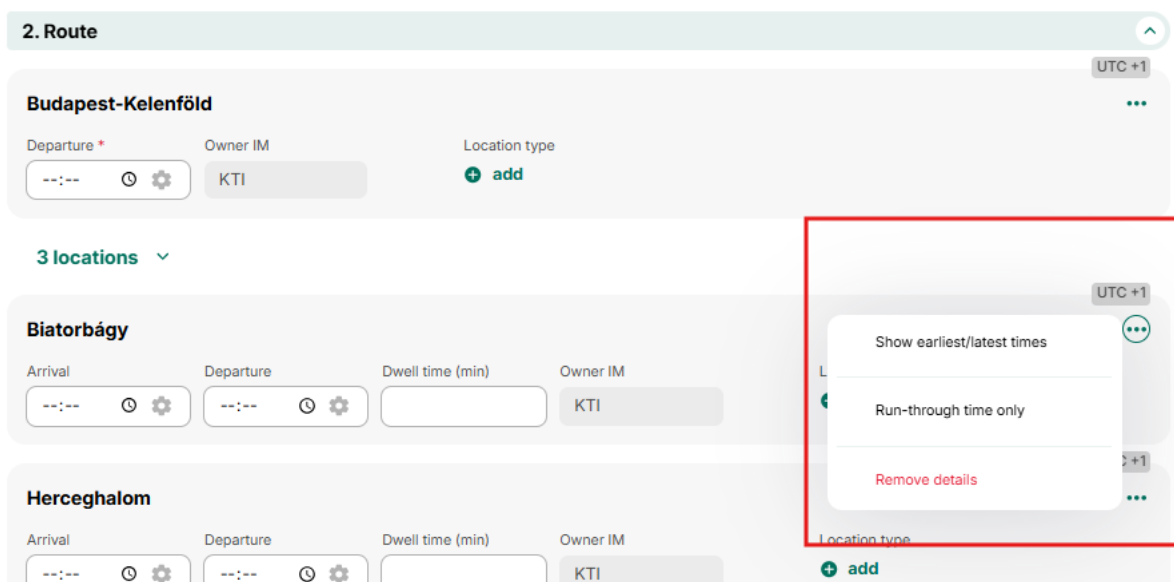
- Specify the **Start and End locations** (mandatory) and optionally add **Via locations** using the Add Waypoint Location button. Locations can be searched by location name or Primary Location Code (Format: HU-1024).
- Use the **arrows to rearrange** via locations if needed or click the **trash icon** next to the field to remove a location.




- Click **Generate Route** to proceed to the screen where timing details can be set.

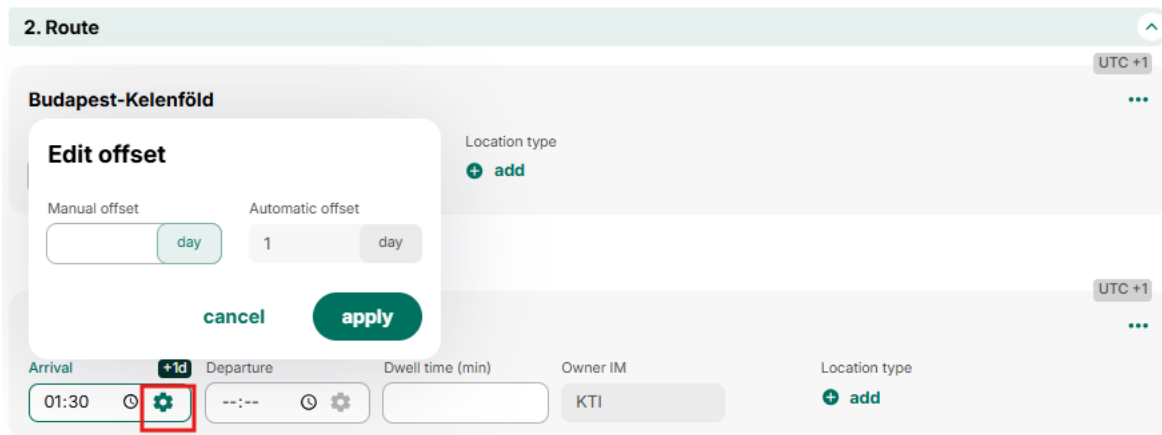
## Route

- By default, the **Arrival, Departure and Dwell time** (min) parameters are displayed for the locations. Click to the **3 dots** to switch to the “**Show earliest/latest times**” view or “**Run-through time only**” in case of via locations. The details for the first and last location cannot be removed, for via locations the **Remove details** button is available.

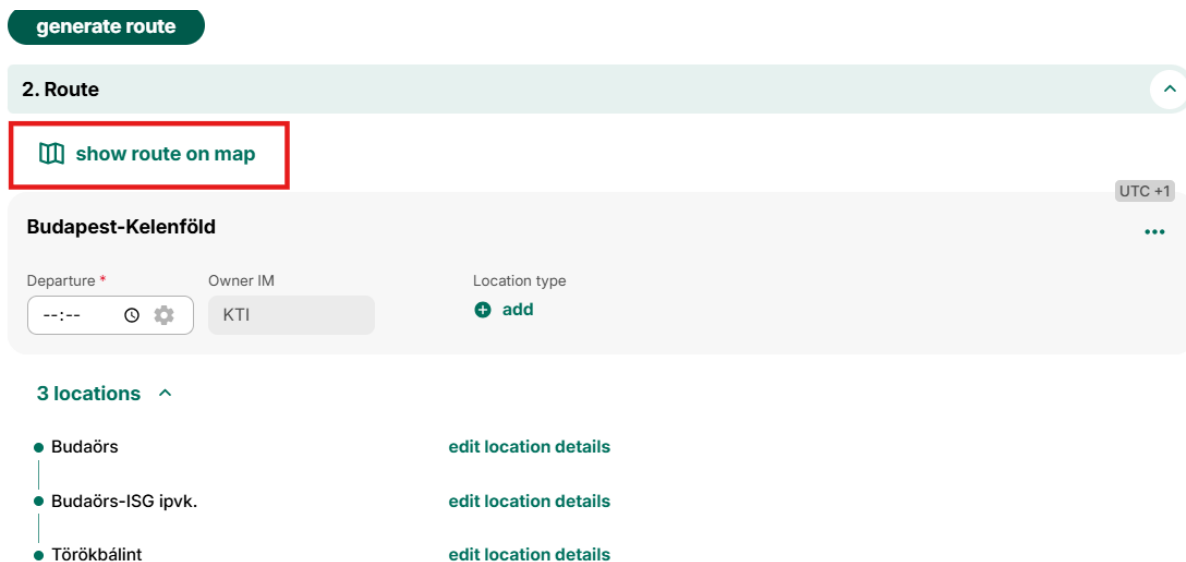


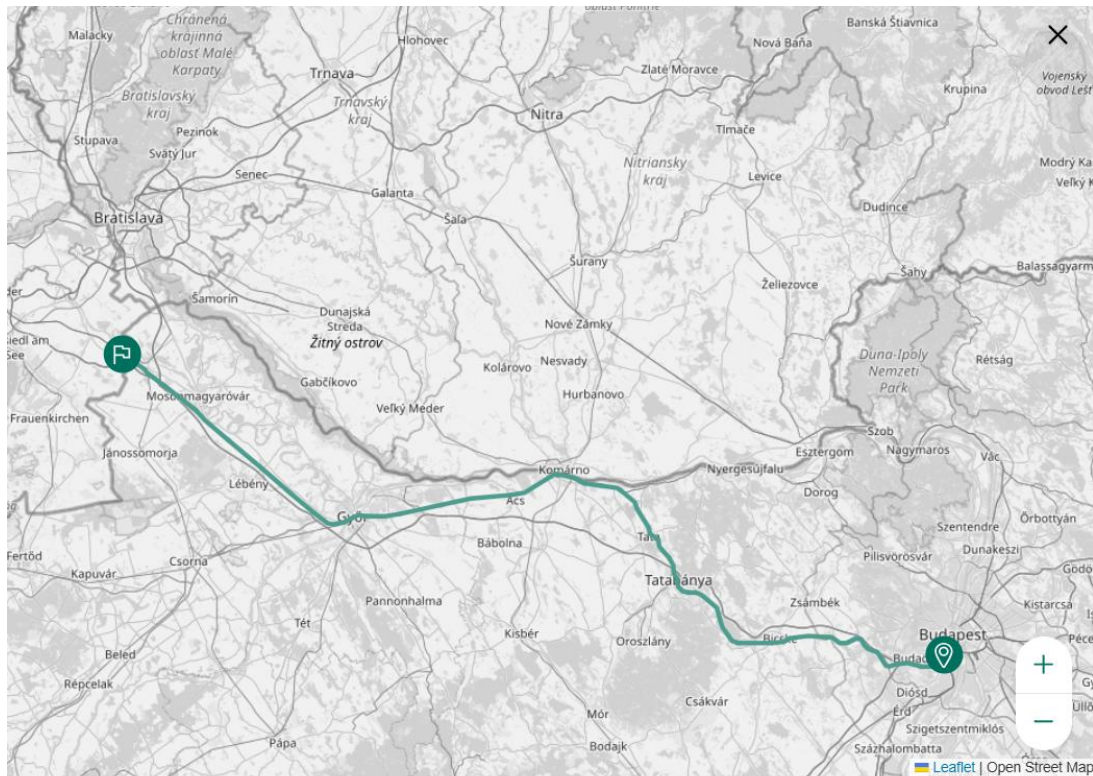
- Based on the route generation, the departure at the origin and the arrival at the destination, the **run-through times** are calculated for each location on the route.

- Based on the arrival and departure times, the system automatically applies an **offset**. To edit the offset day for a timing parameter, click the  icon and the Edit offset popup



- The **time-zone** for locations is only indicated if there is a change in time-zones between any locations on the route inside the object. By default, the time-zone settings are applied **based on the country of the owner IM of a location**.
- Click the **show route on map** button to open the map view to show the generated route. Hover on the dots on the map to show the location's name.



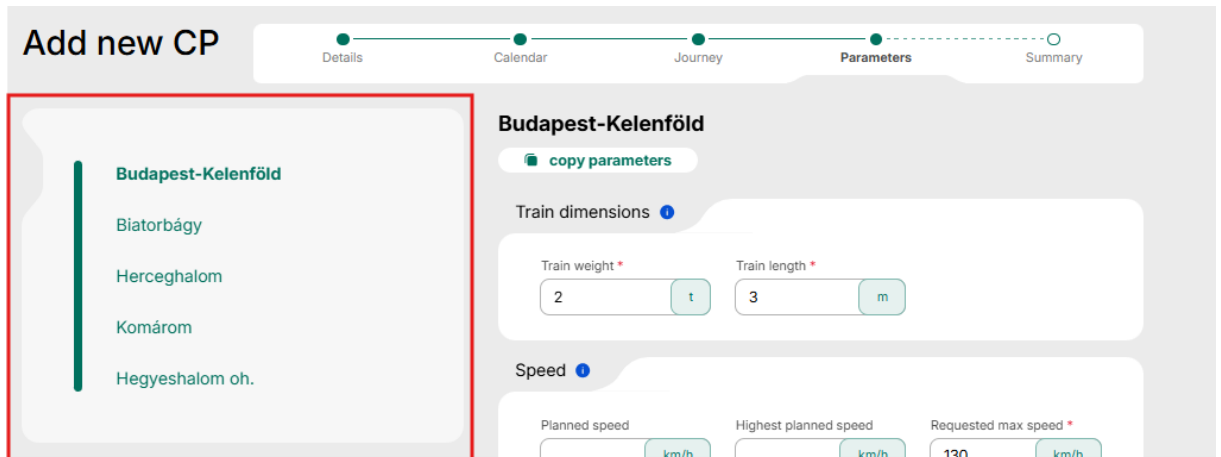


close

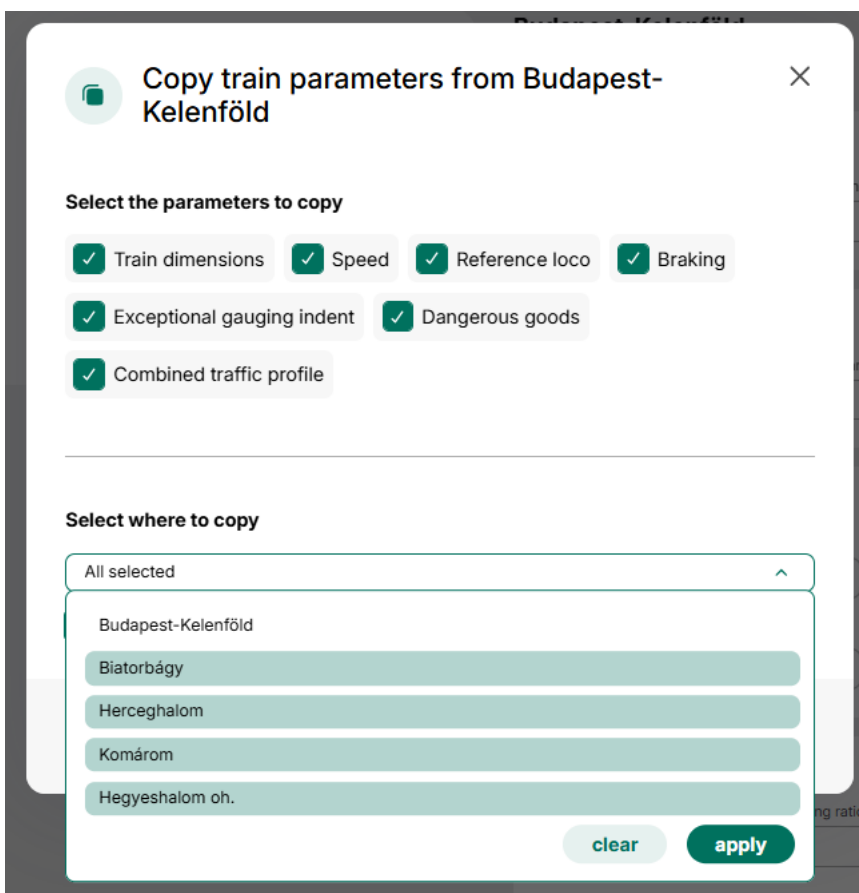
- **Click Next to proceed to the Parameters screen.**

## Parameters Step

- Provide train characteristics (e.g. weight, length, speed, braking, and type-specific parameters). Depending on the train type two forms are available:
- **Parameters for freight and other type trains** requires the user to add the Train dimensions, Speed, and Combined traffic profile for the CP for each location. If there is no train type selected (e.g. due to ad-hoc process type), it's also showing the freight/other parameter set.
- **Parameters for passenger type trains** requires the user to add the Train dimensions, Speed, Reference loco, and Braking for the CP for each location.
- **The locations defined by the user are displayed on the sidebar. Locations following each other with the same parameters are highlighted with a continuous line.**



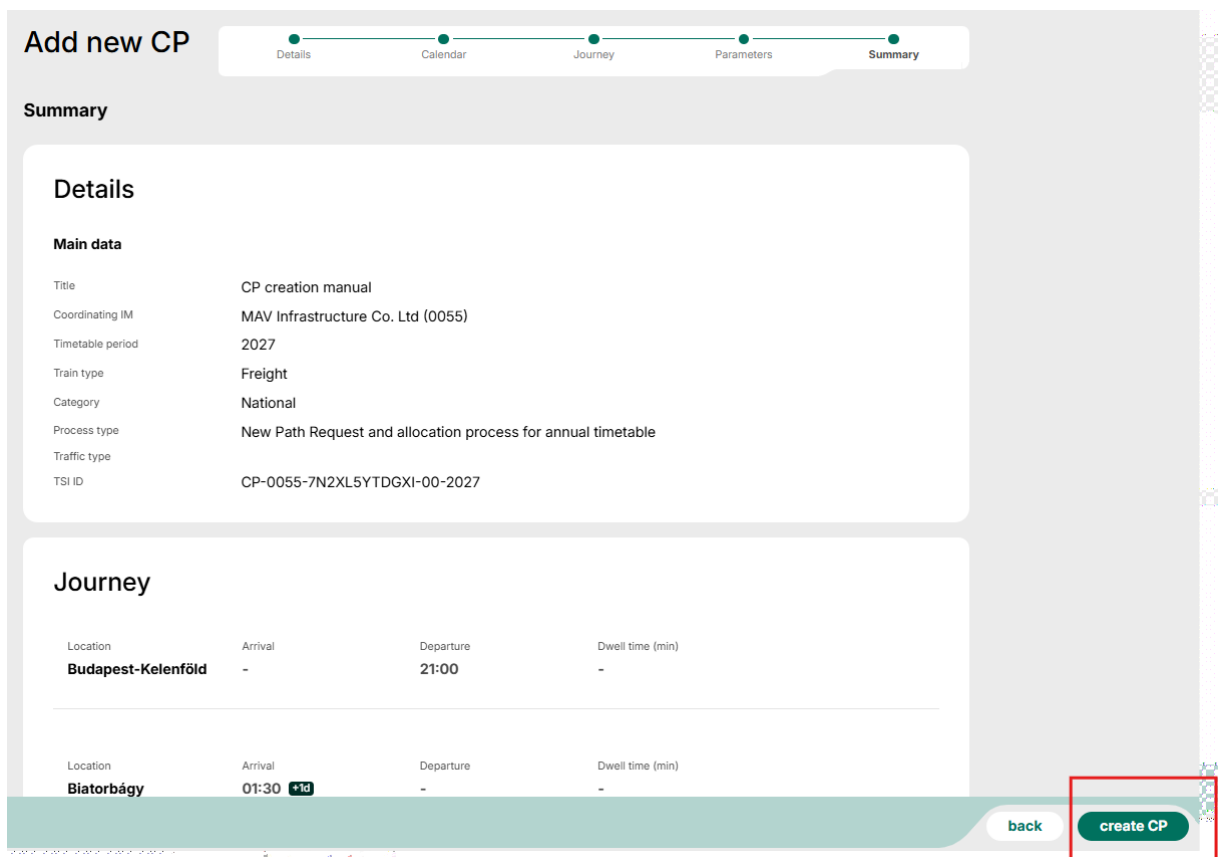
- Parameters for a location can be copied to another location with the **copy parameters** button. User can select which parameters to be copied to which locations. Check the “Only copy to empty fields” checkbox to avoid overwriting existing parameters for the selected locations.  Only copy to empty fields



- Click next proceed to the last page, Summary screen.

## Summary step

**1. Review all entered** information before final submission: the Summary Screen shows all the parameters added during the creation flow. To finalize the CP, click the **create CP** button. CPs can also be created using Excel templates. See the Import chapter for detailed instructions



**Add new CP**

Progress: Details | Calendar | Journey | Parameters | **Summary**

### Summary

#### Details

**Main data**

Title	CP creation manual
Coordinating IM	MAV Infrastructure Co. Ltd (0055)
Timetable period	2027
Train type	Freight
Category	National
Process type	New Path Request and allocation process for annual timetable
Traffic type	
TSI ID	CP-0055-7N2XL5YTDGXI-00-2027

#### Journey

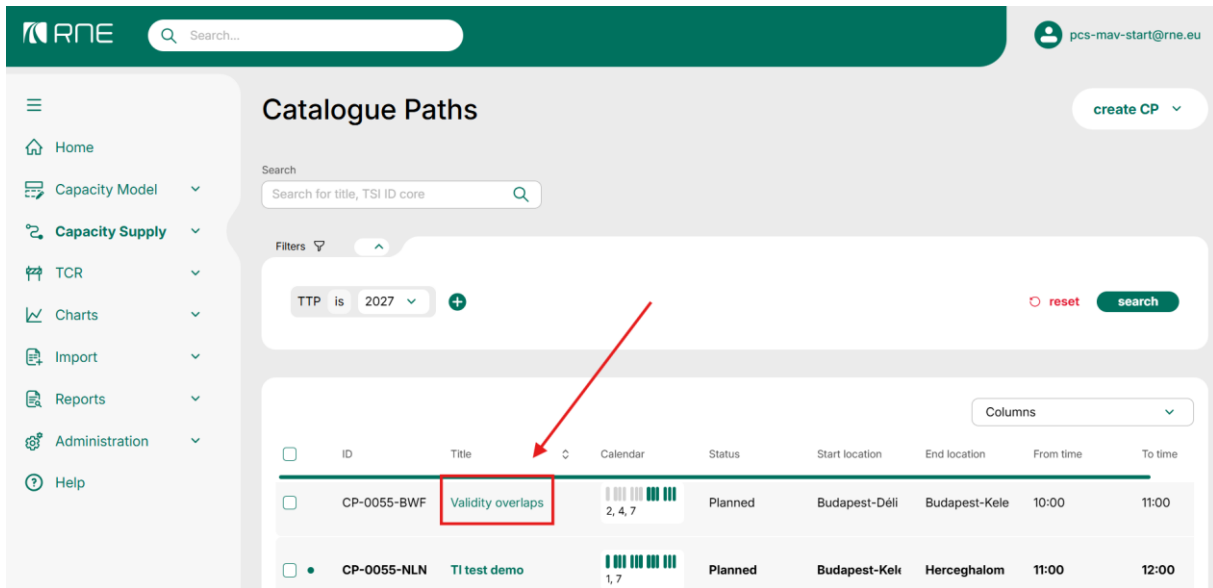
Location	Arrival	Departure	Dwell time (min)
Budapest-Kelenföld	-	21:00	-
Biatorbágy	01:30 <b>*1d</b>	-	-

back | **create CP**

After creating the CP user is redirected to the CP list view, where the new object is highlighted.

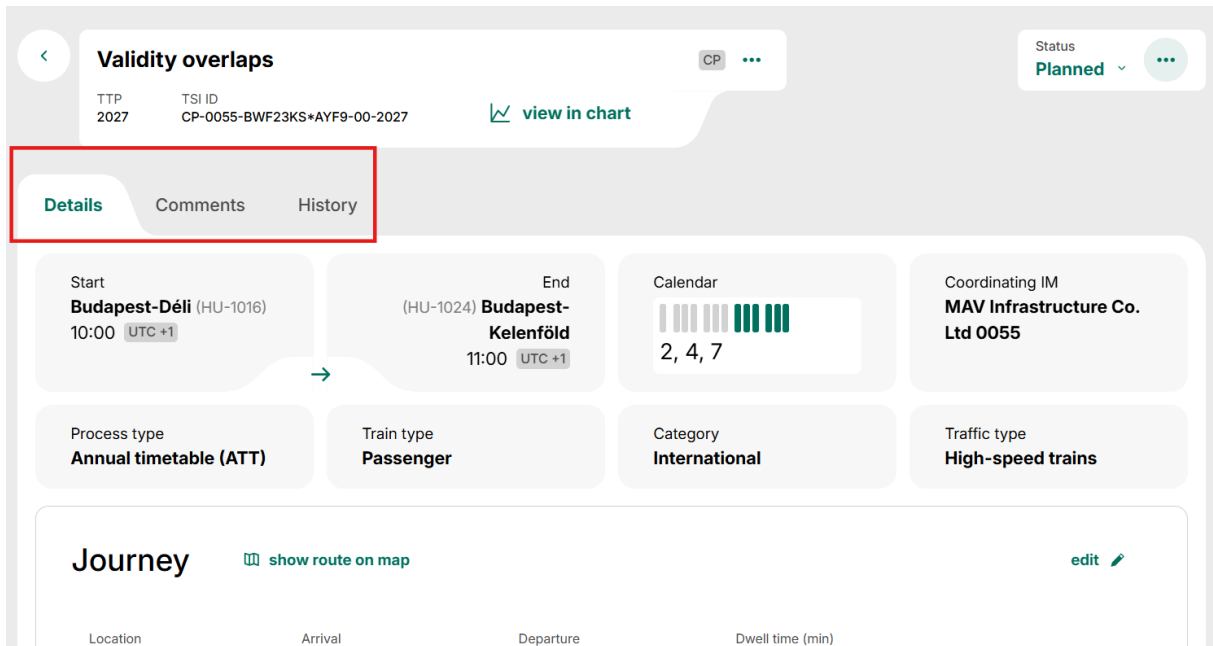
### 5.2.1.3 *Catalogue Path detailed view*

The **CP detailed view** is accessible by clicking on the title of the object.



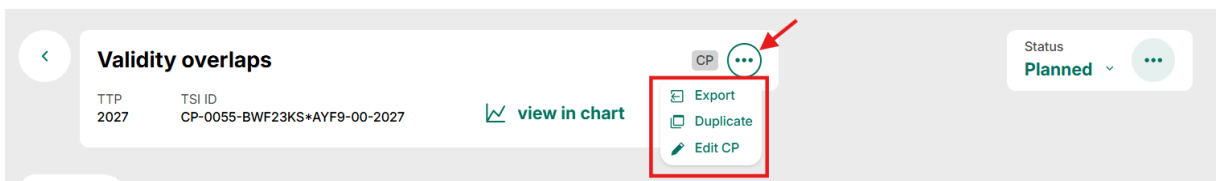
This view is **divided into 3 tabs**:

- Details:** The Details tab displays information similar to the Summary step of CP creation, organized into sections (General details, Journey, Calendar, Parameters). In case of the Journey step the arrival, departure, and dwell times are always shown (missing values are displayed as “-”). Earliest and latest times appear only if at least one value exists; missing values show “-”.
- Comments:** Users with editing and commenting rights can add, view, edit, or delete comments on objects depending on visibility and phase; more details are in the related chapter: [Commenting](#).
- History:** The Object History tab is available for all object types and shows the version history. Users with READ permission can view versions, compare them, and check who made which changes, when, and the action performed. Archived versions are view-only. Access to earlier versions is limited by user permissions and status at the time. For details on history actions see the related chapter: [\\_Object\\_History](#) .

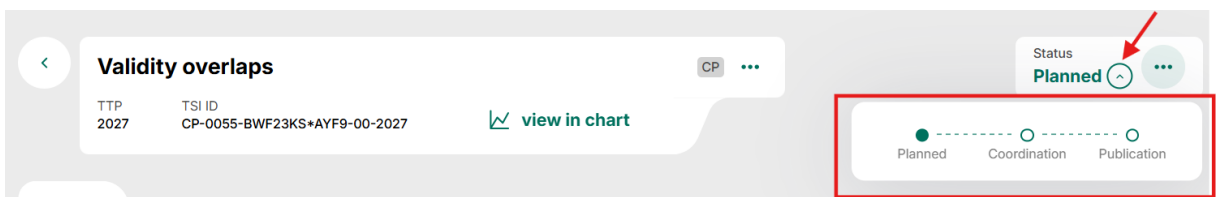


From the CP detailed view, users can perform the following actions:

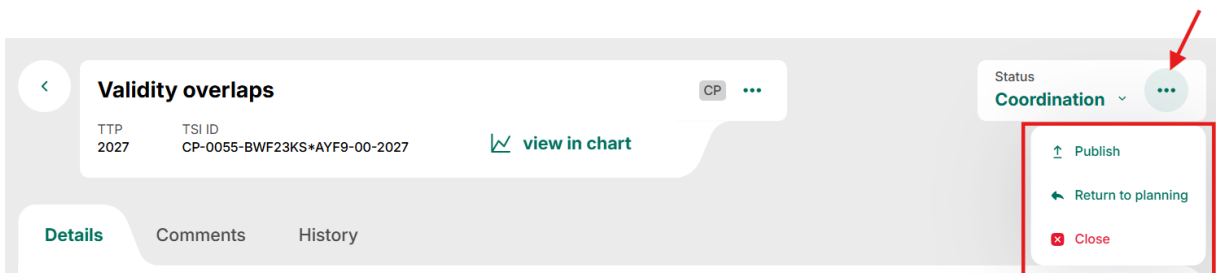
- Export the CP
- Duplicate the CP
- Edit the CP



- Check the current status and possible status changes in the workflow

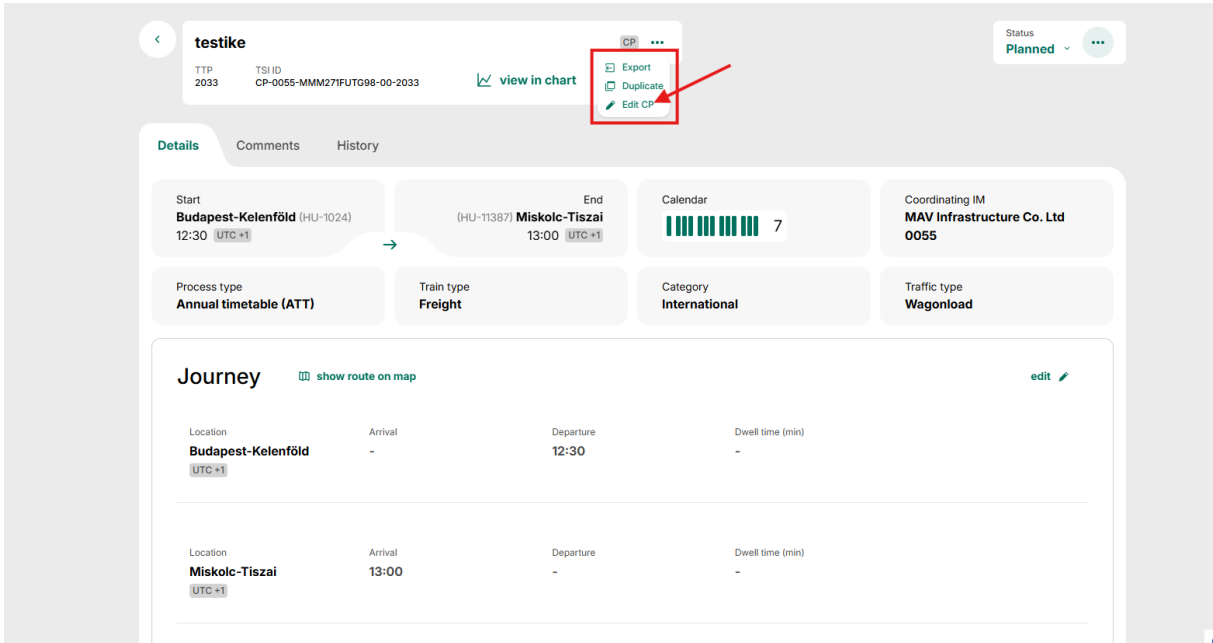


- Promote, demote, or cancel the CP



### 5.2.1.4 Edit Catalogue Path

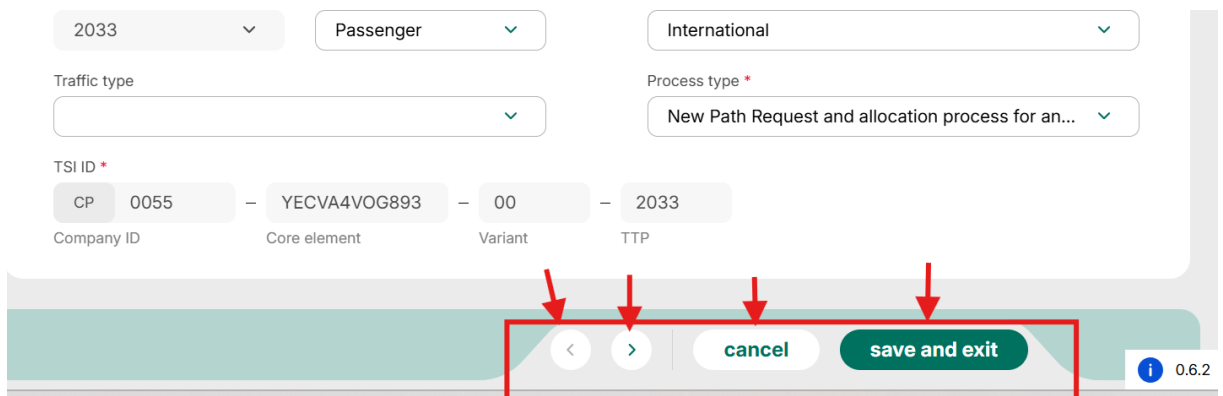
The Edit Catalogue Path option is available in the Catalogue Path detailed view. When the user clicks the three-dots (:) menu at the top of the detail view, the menu includes Export, Duplicate, and Edit. Selecting Edit opens the catalogue path in edit mode.



All previously saved values are pre-filling the user can edit. Mandatory fields remain marked with red asterisks and the same validation rules as in creation apply on the edit.

On each edit steps, the following controls are available on the bottom of the screen.

- **Back arrow** – navigates to the previous step
- **Forward arrow** – navigates to the next step (enabled only when validation is successful)
- **Cancel** – discards all unsaved changes and exits edit mode
- **Save and Exit** – saves the changes made so far and exits edit mode



**Details:** In the Details step, users can update the general configuration of the catalogue path. Existing information is prefilled and can be modified but the mandatory field and the other validations are same as creation.

Navigation arrows are available to move between steps. Users can cancel the edit to discard changes or use Save and Exit to store updates and leave the edit flow at any time.

**Calendar:** The Calendar step allows users to adjust the overall validity period of the catalogue path. Users can revise the active period and change the selected operating days using the available calendar controls.

Navigation arrows, Cancel, and Save and Exit actions are available on this step.

**Journey:** In the Journey step, users can modify the route structure of the catalogue path. Mandatory start and end points remain required, while intermediate locations can be added, removed, or reordered. Any change to the route requires regenerating the path before continuing. Timing information associated with the route is displayed and can be adjusted. Different timing views are available, offsets can be edited if needed.

Navigation arrows, Cancel, and Save and Exit actions are available on this step.

**Parameters:** The Parameters step enables users to update train-related characteristics along the route. Parameters can be edited per location, with the displayed form depending on the selected train type. Users can reuse existing values across multiple locations using the copy functionality, and visual grouping updates automatically based on parameter consistency.

Navigation arrows, Cancel, and Save and Exit actions are available on this step.

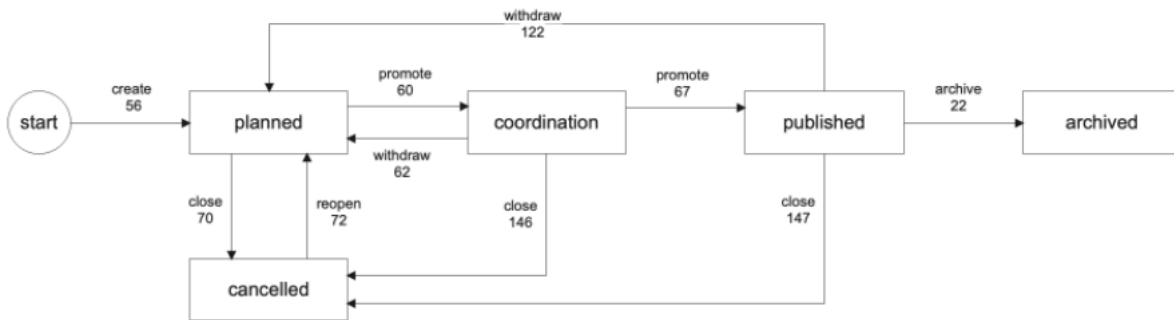
**Summary:** The Summary step presents a consolidated view of all changes made during editing. Users review the updated information before confirming. Saving on this step finalizes the edit and updates the catalogue path.

Navigation arrows, Cancel, and Save and Exit remain available.

### 5.2.1.5 Catalogue Path object workflow and access control

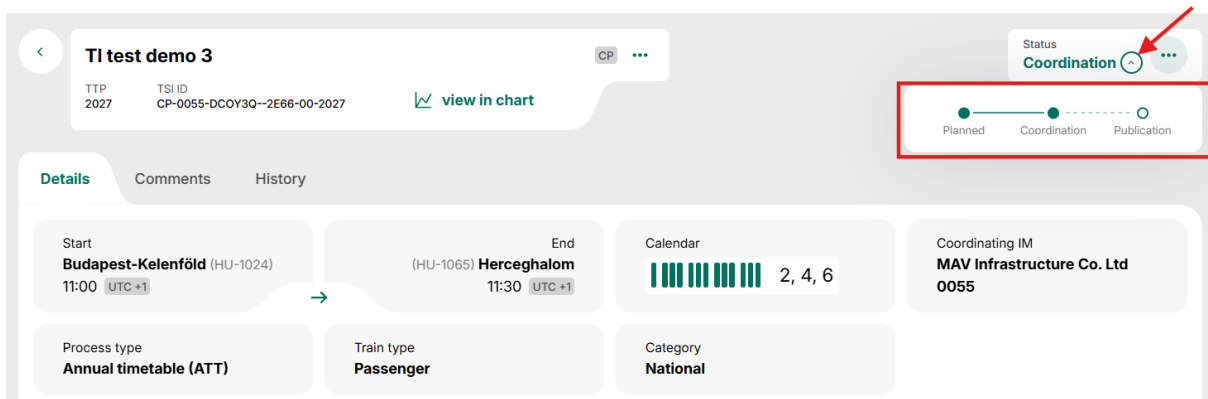
The Catalogue Path workflow in CPT enables users to move an object through predefined statuses and controls access rights for different agency types (e.g. Coordinating IMs, other IMs, Applicants, RUs).

Each promotion or demotion action can be performed **only by the creator of the object**, acting as the **Coordinating IM**.



### Workflow control

The workflow control is available in the **top-right corner** of the Catalogue Path **Details view**. By default, it displays the **current status** of the object. When clicking on the workflow arrow, the full process flow is shown, including **previous, current, and possible future statuses**.

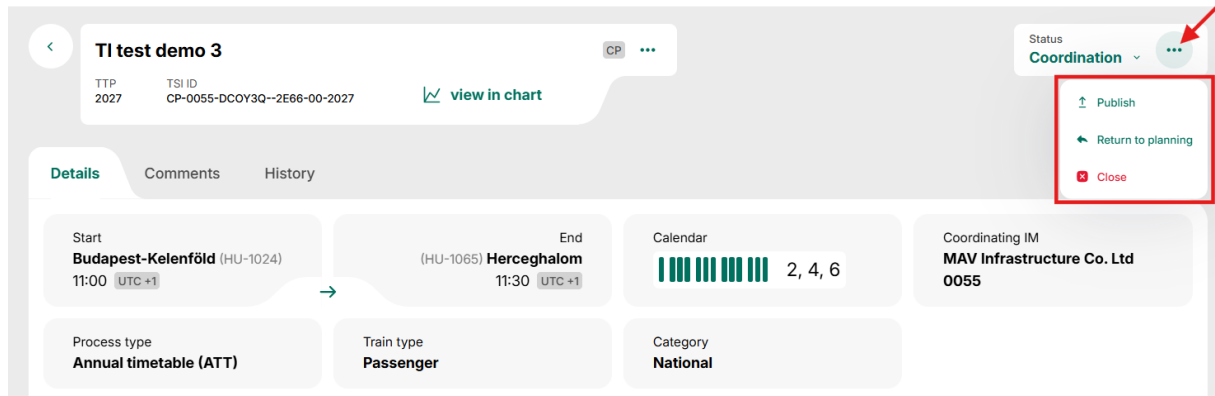


This workflow overview is visible to **all users who have access to the object**.

### Promote / Demote Catalogue Path manually

Promotion and demotion actions are available via the **three-dot menu** in the Catalogue Path Details view.


- The three-dot menu is available **only to the owner (Coordinating IM)**.
- It is available in **all statuses except Archived**.
- The available actions depend on the **current status** of the object.
- All valid transitions are defined in the *above workflow diagram*.



## Transition Preconditions

The following preconditions apply to workflow transitions:

- **Create:** the object can be created and saved in **Planned** status only if all mandatory fields are filled and no validation errors exist
- **Promote:** no restrictions
- **Withdraw:** a mandatory comment must be provided
- **Archive:** no functional restrictions, a confirmation modal must be accepted
- **Close:** no functional restrictions, a confirmation modal must be accepted
- **Reopen:** no functional restrictions, a confirmation modal must be accepted
- **Negative transitions** (e.g. Withdraw) require a **mandatory user comment**

 Are you sure you want to close the Catalogue Path? ✕

Provide a reason for closing the catalogue path

Start typing here

0/255

cancel
close catalogue path

### Access Rights by Role and Status

Status	Coordinating IM promoting rights	Coordinating IM editing rights	Affected IMs editing rights	Other IMs editing rights	Applicants, RUs editing rights
Planned	1. To published* (publish) 2. To coordination (promote to coordination) 3. To consultation (promote to consultation) 4. To cancelled (close)	Read, write, comment	read	read	none
Cancelled	1. To planned (reopen)	Read	read	read	none
Coordination	1. To published (publish) 2. To consultation (promote to consultation) 3. To planned (return to planning) 4. To cancelled (close)	Read, write, comment	Read, assess and comment	Read	none
Consultation	1. To published (publish) 2. To planned (return to planning) 3. To archived (archive) 4. To cancelled (close)	Read, comment	Read	Read	Read only
Published	1. To planned (return to planning) 2. To archive (archive) 3. To cancelled (close)	Read	Read	Read	Read
Archived	1. None	Read	Read	Read	none

- **Other Infrastructure Managers (IMs)**

Since coordination takes place at the **supply level**, other IMs:

- Have read-only access to Catalogue Paths in Coordination status
- Cannot perform actions on the object
- Can provide comments at the supply level
- May also place comments directly on the object

- **Applicants and Railway Undertakings (RUs)**

In **Published** status:

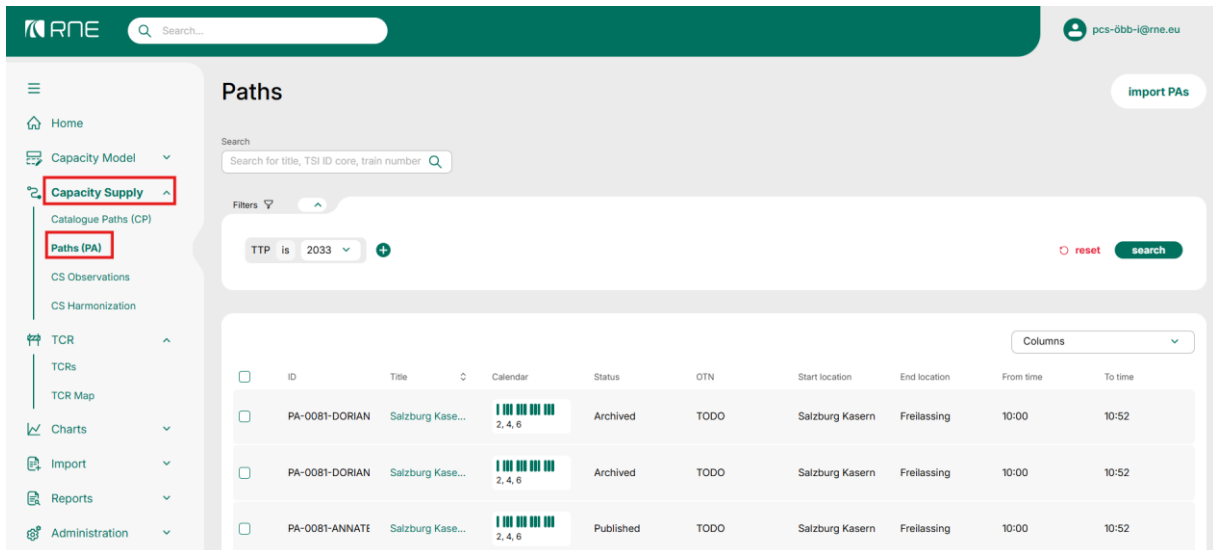
- Applicants and RUs have read access to Catalogue Paths
- Commenting is primarily done at the supply level
- Users may also comment directly on the Catalogue Path object

Commenting is enabled **only during the consultation period**, between **X-11 and X-9**.

## 5.2.2 Paths (PA)

### 5.2.2.1 Path list view

The Path list view is accessible via the Capacity Supply main menu and Paths sub-menu. This is the default view, which displays all Path within the user`s infrastructure. From this screen, users can search, filter and view Paths. For more information about List View filtering, sorting, customization, pagination, and available user actions, please refer to the relevant section of the manual: [General Functionalities](#).



Items that have changed since the user’s last login are highlighted with a dot and bold text. The highlighting remains until the user interacts with the item.

ID	Title	Calendar	Status	OTN	Start location	End location	From time	To time
<b>PA-0055-4Y6JN</b>	<b>Budapest-Kel...</b>	1, 3, 4, 6	<b>Published</b>	TODO	Budapest-Keleti	Eger	17:56	19:36
<b>PA-0055-4Y6JN</b>	<b>Budapest-Kel...</b>	1, 3, 4, 6	<b>Published</b>	TODO	Budapest-Keleti	Mosonmagyaróv	09:23	12:36

Every shown row contains data of one Path. Clicking the title of a Path will open that object’s details page. On this page, all data fields and their contents are shown.

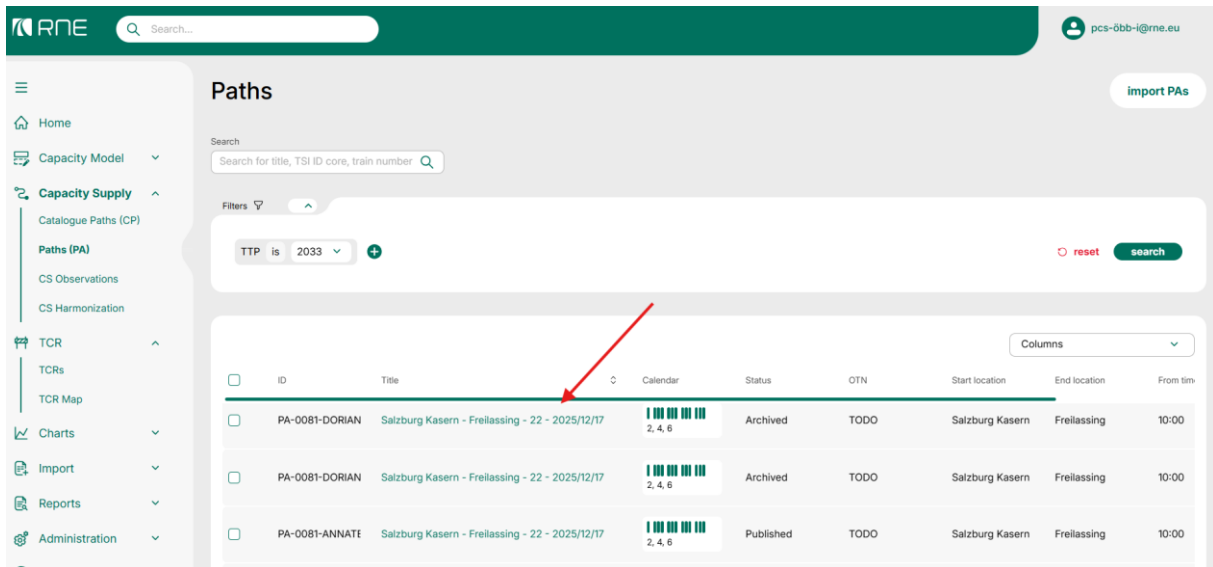
### 5.2.2.2 Create and update Path

The user can create and update a Path via import by selecting an XLSX file. More details about the import functionality can be found in the [Import Chapter](#).

**Path creation is only possible currently via Excel import!**

### 5.2.2.3 Path detailed view

The **Path detailed view** is accessible by clicking on the title of the object in the object list view.



The detailed view is **divided into 3 tabs**:

- **Details:** The Details tab displays information organized into sections: General details, Calendar, Journey, Parameters, Related Objects.
- **Comments:** Users with editing and commenting rights can add, view, edit, or delete comments on objects depending on visibility and phase; more details are in the related chapter: [Commenting](#).
- **History:** The Object History tab is available for all object types and shows the version history. Users with READ permission can view versions, compare them, and check who made which changes, when, and the action performed. Archived versions are view-only. Access to earlier versions is limited by user permissions and status at the time. For details on history actions see the related chapter: [\\_Object\\_History](#).

**From the Path detailed view, users can perform the following actions:**

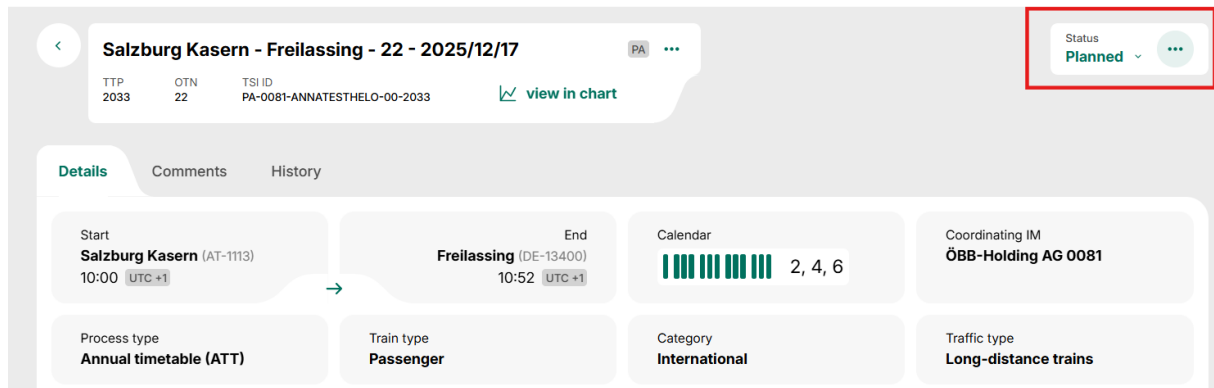
- Export PA
- Duplicate PA
- Check the status and possible status changes in the workflow
- Promote, demote, cancel or archive the PA

#### 5.2.2.4 Path Object workflow and access control

The Path object workflow in the CPT tool allows the Coordinating IM to move a Path through its lifecycle and controls which users and agencies can access the object in each status.

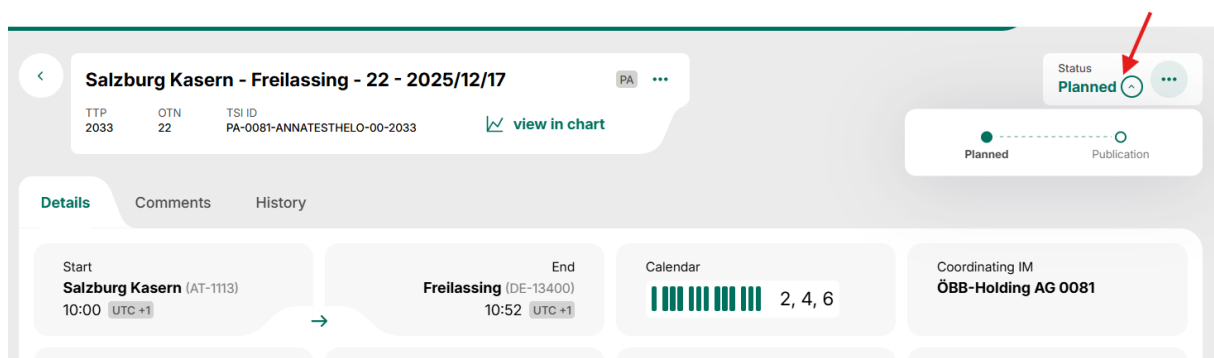
#### 5.2.2.5 Path Object Process Flow

The workflow control is available in the **top-right corner of the Path detail view** and displays the **current status** of the Path.



By clicking the arrow next to the status, the **full workflow** is displayed, showing:

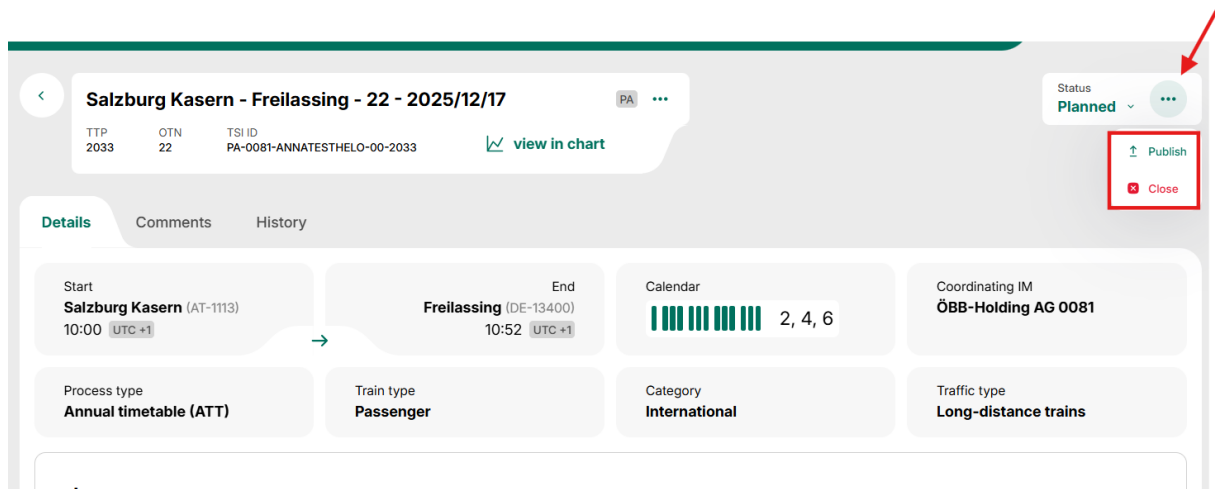
- previous statuses,
- the current status,
- and possible future statuses.



This workflow overview is visible to **all users who have access** to the Path object.

## Promote / Demote Path Objects

Promotion and demotion actions are available from the **three-dot menu** in the **Path detail view**.

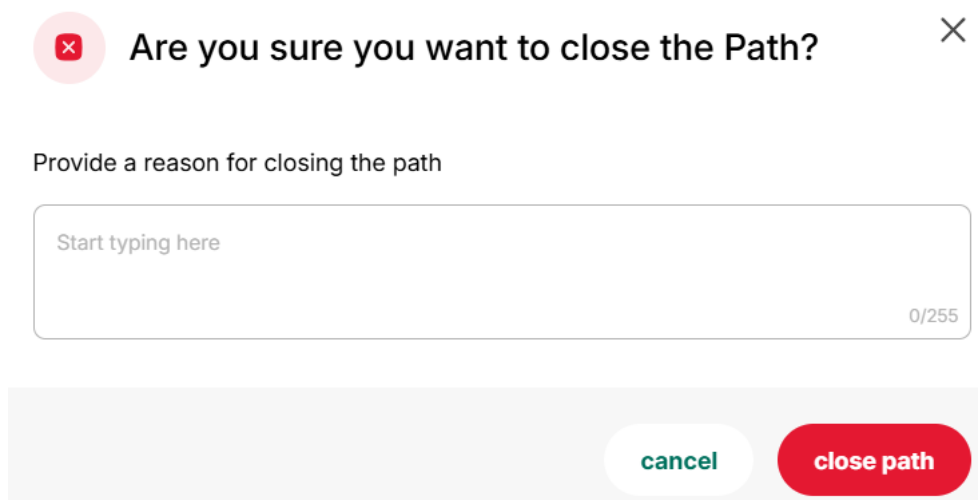


These actions are:

- **only available to the owner (Coordinating IM),**
- **available in all statuses except Archived,**
- **dependent on the current status of the Path.**

Negative transitions (for example, **Withdraw** or **Close**) require the user to enter a **mandatory comment**.

Archiving, closing, and reopening the Path require **confirmation in a modal dialog**.



### Path Object States and Transitions

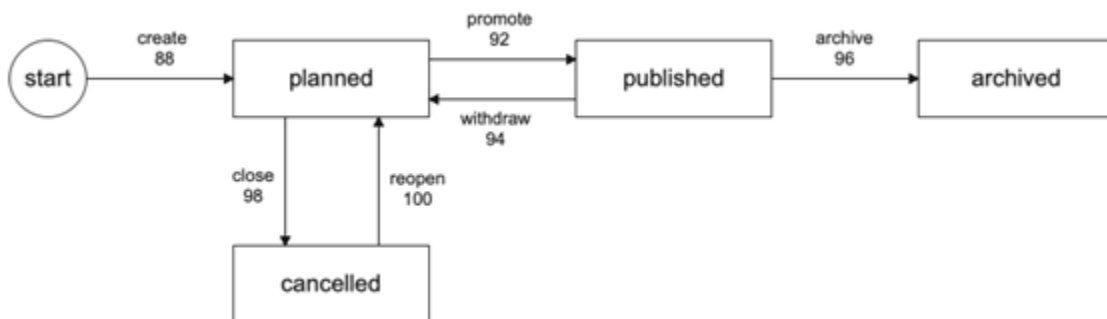
A Path object can move through the following states in the CPT tool:

- **Planned**
- **Coordination** (*not used for Paths*)
- **Published**
- **Cancelled**
- **Archived**

Paths can be allocated immediately; therefore, **no Coordination status is used** for Path objects.

**Transition rules:**

- **Create:** A Path can be created via import in *Planned* status only if all mandatory fields are completed and no validation errors exist.
- **Promote:** No additional restrictions.
- **Withdraw:** A mandatory comment is required.
- **Archive / Close / Reopen:** Confirmation via modal dialog is required.



**Access Rights by Status**

Status	Coordinating IM promoting rights	Coordinating IM editing rights	Other IMs editing rights	Applicants, RUs editing rights
Planned	1. To coordination (promote to coordination) 2. To cancelled (close)	Read, write, comment	none	none
Cancelled	1. To planned (reopen)	Read	none	none

Published	1. To planned (return to planning) 2. To archived (archive)	Read	Read	Read
Archived	None	Read	none	none

### Special Rules for Path Objects

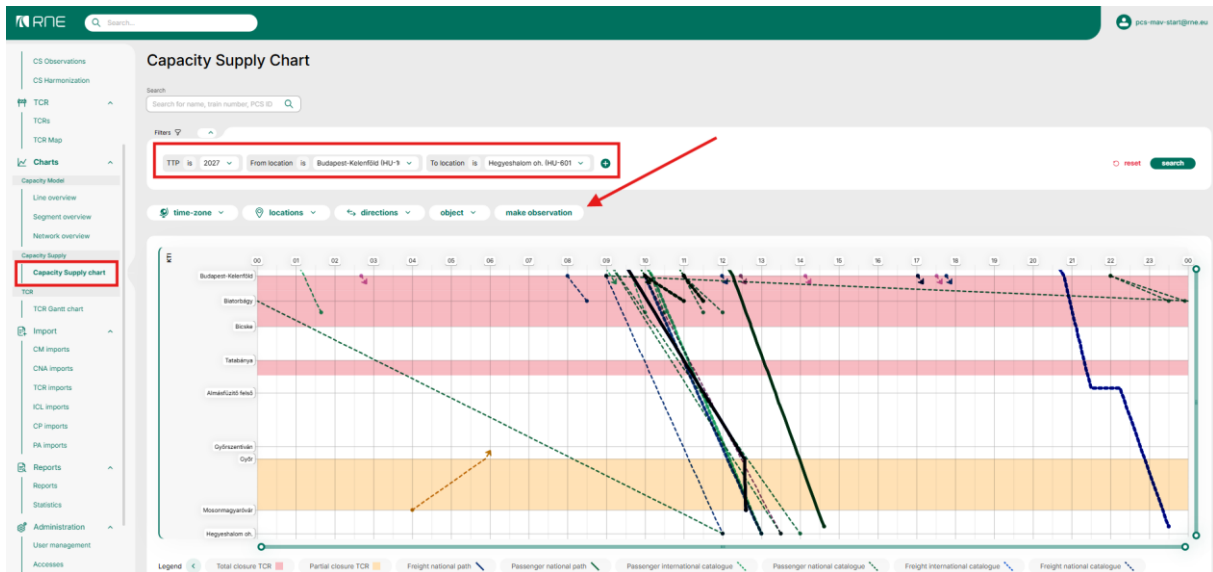
- Paths **do not support coordination** with affected IMs.
- No commenting is available for:
  - other IMs,
  - Applicants, Railway Undertakings (RUs).
- Draft publication of Paths occurs **after the consultation period of Capacity Supply**; therefore, no consultation-level commenting is required.

### 5.2.3 Capacity Supply Observations

The observation phase allows applicants (railway undertakings) to review draft Capacity Supply objects and provide feedback before finalisation. This phase ensures transparency and early engagement by enabling users to raise concerns or suggest improvements during a dedicated observation period.

#### Making Observations

The **Make Observation** option is available from the **Capacity Supply Chart** and opens a modal with prefilled information. Go to Capacity Supply Chart menu, set the needed filters (TTP filter and the from/to location as minimum) and click on **Make observation**.



The **Observation modal** contains the following input fields:

- **Timetable period** – prefilled from the chart, read-only
- **Section** – prefilled from the chart (from/to locations), read-only
- **Title** – auto-generated as “*Observation for [from] – [to]*”, editable
- **IM** – prefilled from the chart, editable (multi-select)
- **Objects** – prefilled with visible chart objects, editable (multi-select)
- **Comment** – free text, maximum 250 characters

**Make an observation**
✕

**Timetable period:** 2027

**Section:** Budapest-Kelenföld - Hegyeshalom oh.

**Title \***

**IM \***

**Object**

**Comment \***

Start typing here...

0/250

cancel
make observation

If an observation already exists for the same **validity period and section**, a **warning toast** is displayed inside the modal.



## Capacity Supply Observations List

All observations are displayed in a **table view**, available for both IMs and RUs. Click on Capacity Supply main menu, then CS Observations sub-menu to access the Capacity Supply Observations list.

### Table columns:

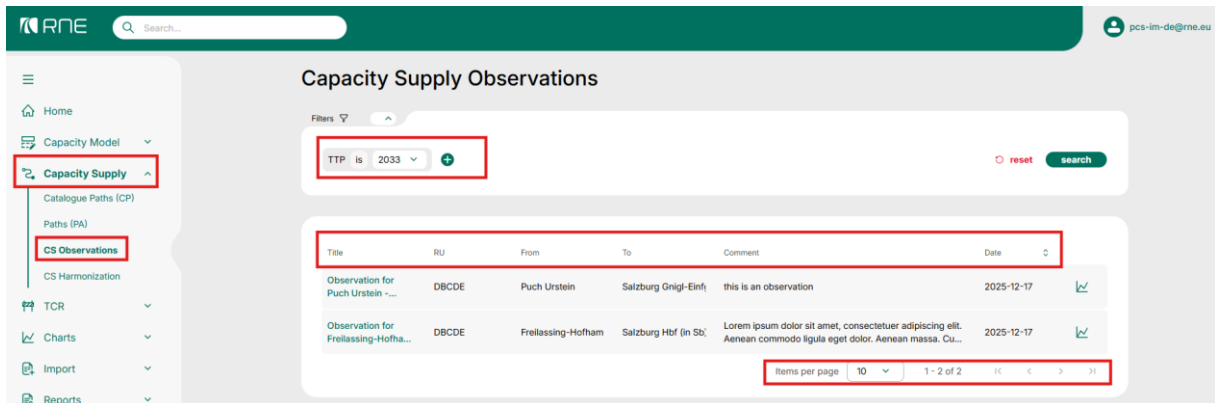
- Title
- IM (visible for RUs) / RU (visible for IMs)
- From (location)
- To (location)
- Comment
- Date (sortable)

### Visibility rules

- **IM view:** shows observations addressed to the IM's agency
- **RU view:** shows observations created by the RU's agency

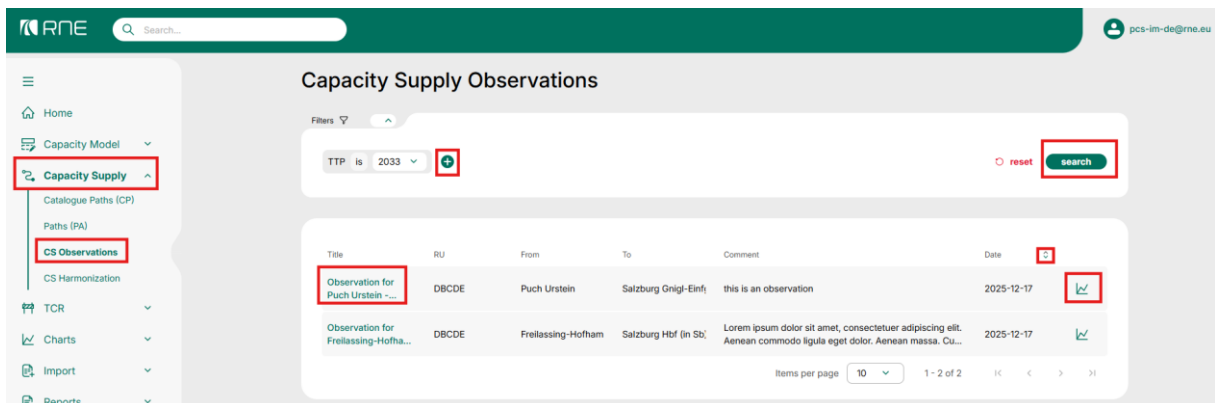
### Pagination:

- Paginated table with selectable items per page
- Navigation supports first/last page and page-by-page navigation
- Default is **10 items per page** in new browsers



### Available Functions:

- A query builder is available to **filter observations** in the list view. Use the **+** buttons to add more filters, then click on **search** to apply them on the list.
- Clicking the **arrows next to the Date header** will change the sorting of the Date column.
- **Clicking the title** opens the detailed comment view.
- **View chart icon** opens the Capacity Supply Chart with prefiltered timeframe and locations. **Clicking an object** on the Chart opens the object's detailed view.



### Observation Comment View

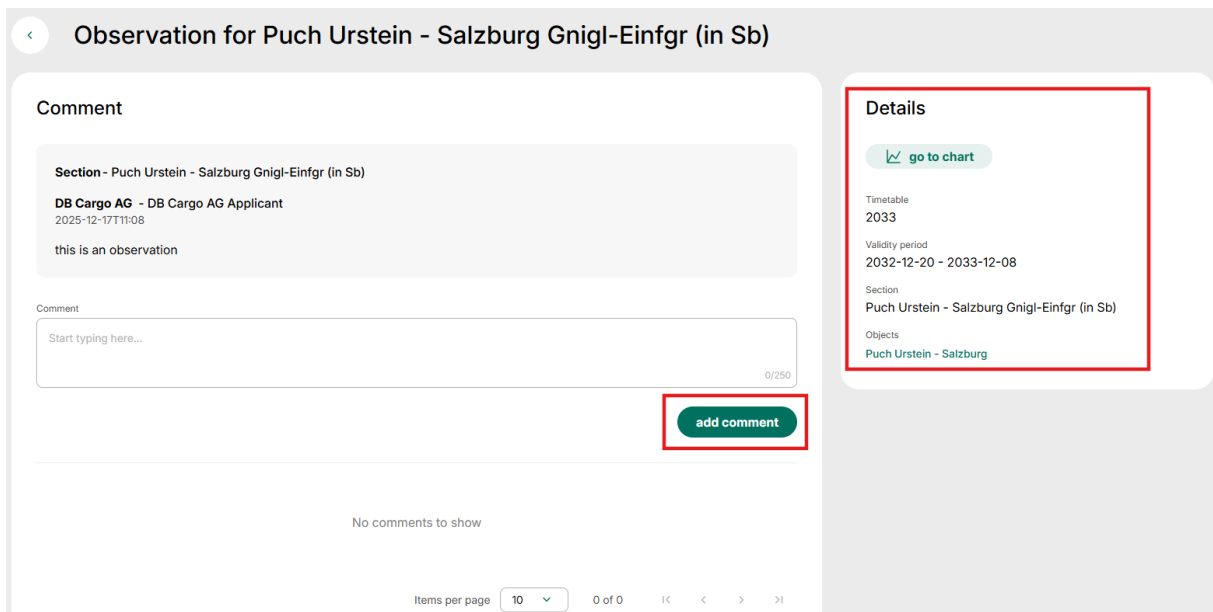
Click on the title of the observation to open the Observation comment view. The **original observation comment** is displayed first. Additional comments can be added below it.

### Adding a comment:

- Enter the comment text
- Click **Add comment**

### Details box content:

- Click on the **"go to chart"** button to navigate to the pre-filled CS Chart
- Timetable
- Validity period
- Section
- Objects



Observation for Puch Urstein - Salzburg Gnigl-Einfgr (in Sb)

**Comment**

Section - Puch Urstein - Salzburg Gnigl-Einfgr (in Sb)  
 DB Cargo AG - DB Cargo AG Applicant  
 2025-12-17T11:08  
 this is an observation

Comment

Start typing here... 0/250

**add comment**

No comments to show

Items per page 10 0 of 0

**Details**

[go to chart](#)

Timetable  
2033

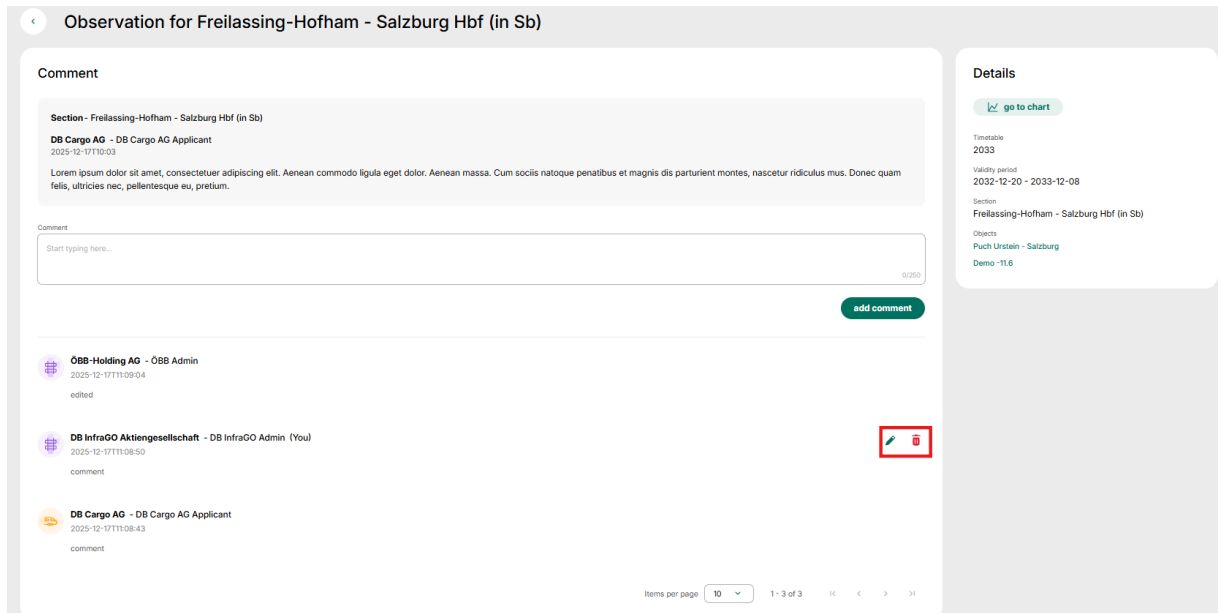
Validity period  
2032-12-20 - 2033-12-08

Section  
Puch Urstein - Salzburg Gnigl-Einfgr (in Sb)

Objects  
Puch Urstein - Salzburg

**Comment editing:**

- Comments under an observation can be edited or deleted
- Only the **comment creator** may edit or delete their comment



### Time restrictions:

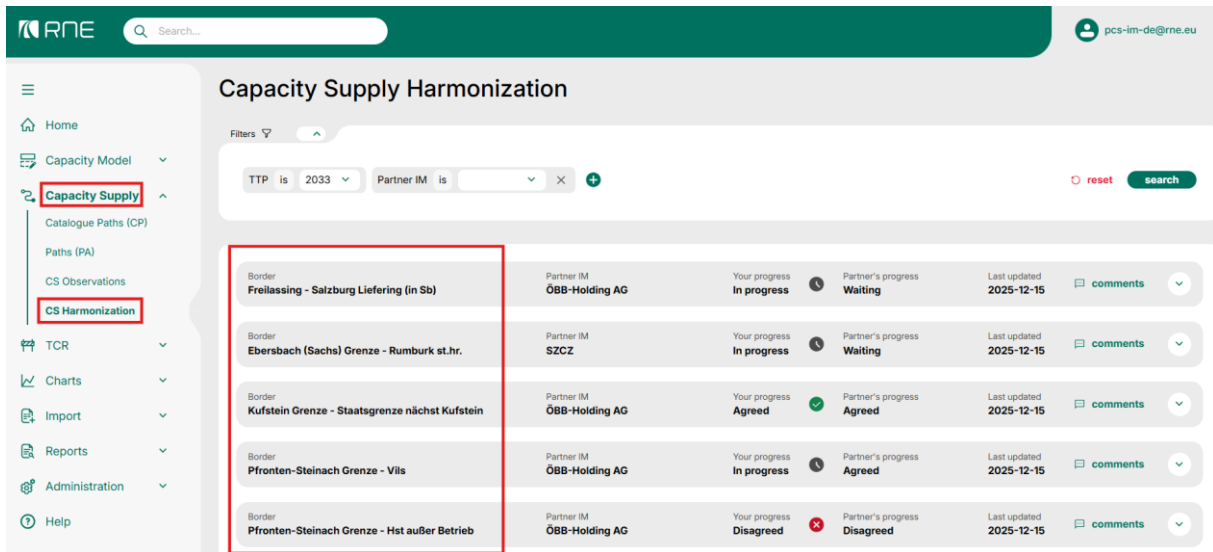
- Creating observations
- Creating, editing, or deleting comments are only possible while the **observation function is enabled by timetable milestones**

### 5.2.4 Capacity Supply Harmonizations

To access the Capacity Supply harmonization, go to **Capacity Supply main** menu and select the **CS Harmonization Sub-menu**.

This feature in the CPT tool will support the harmonisation of capacity supply objects at border sections. It provides Infrastructure Managers (IMs) with a shared, transparent overview of cross-border segments and enables coordination with partner IMs across different validity periods, improving international capacity planning and alignment. **In this phase only the border level harmonisation is available**, and object level harmonisation will be implemented at a later stage of the development.

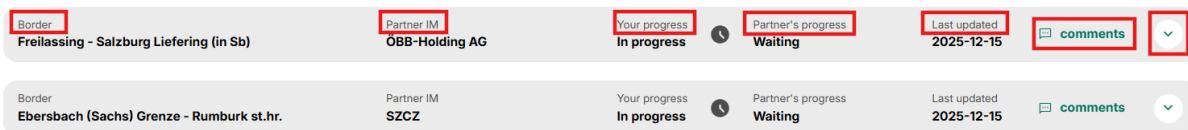
The CS Harmonization screen lists **all relevant borders** for the logged-in IM. TTP is a mandatory filter, while the Partner IM filter is optional.



### Border visibility and validity handling

- Each border is shown **once**, but **location validity must be considered**.
- If a border location has a **start or end validity within the Timetable Period (TTP)**, the validity periods shown under that border are **limited accordingly**.
- Due to changing validity, the **same border may appear multiple times**, for example:
  - Border with **end validity before TTP end** → validity rows limited to that end date.
  - Border with **start validity after TTP start** → validity rows start from that date.

### Collapsed Border Card Information



Each border card displays:

- Border name**
- Partner IM**
- Your progress**
  - In progress: at least one validity period has no progress set
  - Agreed: all validity periods are agreed

- Disagreed: all validity periods are determined and at least one is disagreed
- **Partner’s progress**
  - In progress: at least one validity period is waiting for partner input
  - Agreed: all validity periods are agreed
  - Disagreed: all validity periods are determined and at least one is disagreed
- **Last updated** timestamp (updated when progress changes or validity periods are added/removed)
- **Comments button**, opening a separate page with border-level comments
- The card can be expanded using the **downward arrow**.

Commenting is detailed in this chapter: [\\_Commenting](#) and comments are stored at **TTP/border level**.

### Expanded Border View – Validity Periods

Validity period	Calendar	Your progress	Partner's progress
2032-12-20 - 2033-12-08	1-7	<input type="text"/>	waiting
2032-12-20 - 2033-06-08	1-7	agreed	waiting
2033-06-09 - 2033-12-08	1-7	disagreed	waiting

[+ add validity period](#)

Each border can be expanded to show validity period rows:

- The **first row** represents the **whole TTP** (unless limited by border validity)
- Each validity period row contains: **Start and end date, Calendar, Your and your partner's progress**

### Action icons

Validity period	Calendar	Your progress	Partner's progress	Action icons
2032-12-20 - 2033-12-08	1-7	<input type="text"/>	waiting	<a href="#">view on chart</a>
2032-12-20 - 2033-06-08	1-7	agreed	waiting	<a href="#">view on chart</a>
2033-06-09 - 2033-12-08	1-7	disagreed	waiting	<a href="#">view on chart</a>

[+ add validity period](#)

- **Add validity period:** additional validity periods can be added by IMs with the add validity period button.

Validity periods must be within the start and end of the Timetable Period (TTP) and can overlap with other validity periods. When adding a validity period, the user selects a start date and an end date, where the end date cannot be earlier than the start date. The user must also select the days of the week and can optionally select specific calendar days. The validity period is created by confirming the action with the Add button.

- **View on chart** – opens the Capacity Supply chart with the TTP, Validity period, Category = International, From location: before the border, To location: after the border filters.



- **List view – *Not implemented yet!***
- **Delete validity period** (with restrictions)

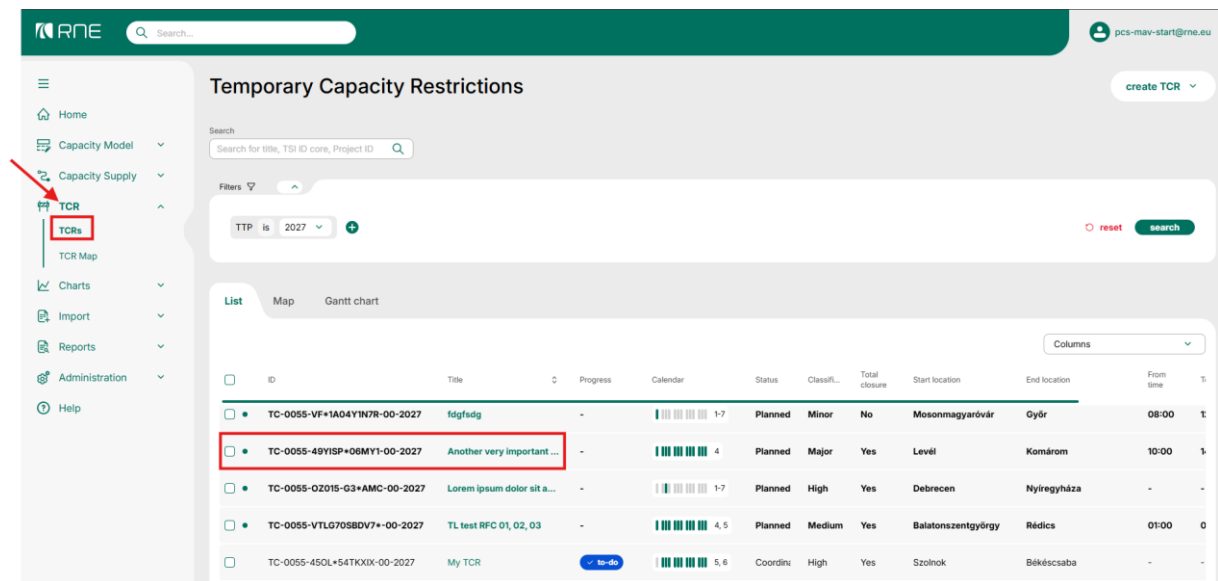
The **first validity period**, which represents the whole TTP, **cannot be deleted**. Any other validity period **can only be deleted by the IM who originally created it**. Deleting a validity period requires explicit confirmation, and **at least one validity period must always remain for the border**.

### 5.3 TCR module

The TCR Module can be reached by clicking “TCRs”, “TCR Map”, or “TCR Gantt Chart” in the side menu. This module allows users to create, view and manage Temporary Capacity Restrictions (TCRs).

### 5.3.1 TCR list view

The TCR list view is accessible via the TCR main menu and TCRs sub-menu. This is the default view, which displays all TCRs within the user's infrastructure. From this screen, users can search, filter, edit, and create TCRs. For more information about List View filtering, sorting, customization, pagination, and available user actions, please refer to the relevant section of the manual: [General Functionalities](#) .



Items that have changed since the user's last login are highlighted with a dot and bold text. The highlighting remains until the user interacts with the item.

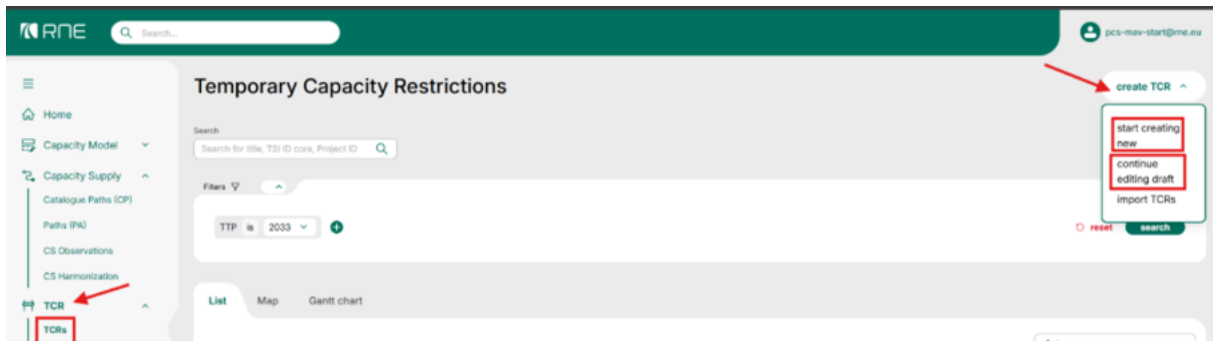
Every shown row contains data of one TCR. Clicking the title of a TCR will open that TCR's details page.

### 5.3.2 Create TCR

TCRs can be created manually.

This section describes the manual creation of TCRs.

To create a TCR manually, open the TCR main menu, navigate to TCRs, and click Create TCR. From the dropdown, the user can start a new TCR or continue editing an existing draft.



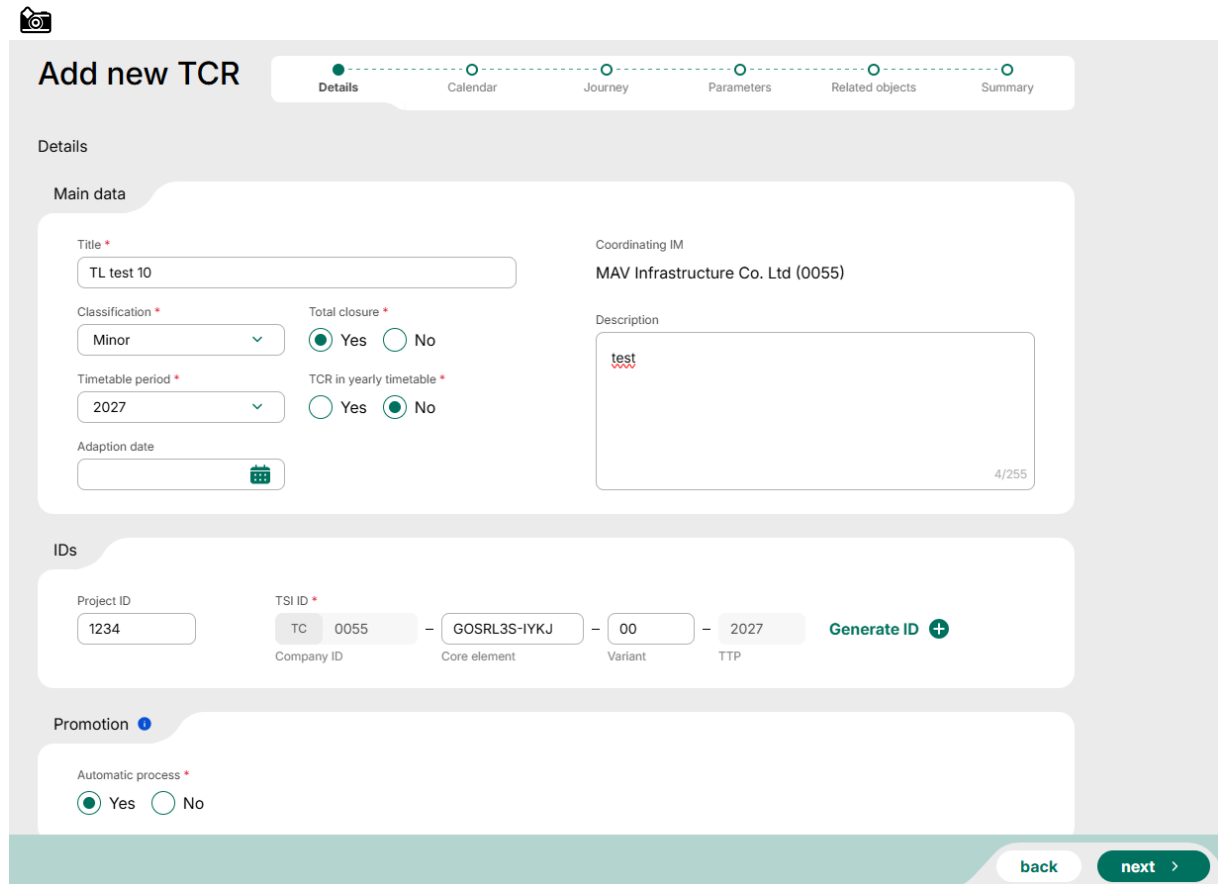
The TCR creation process is guided by a **stepper** and consists of the following 6 steps:

- Details
- Calendar
- Journey
- Parameters
- Related Objects
- Summary

The user must complete each step before moving to the next one. The **Summary** step is read-only and is used for final review.

### Details step

In the Details step, the user enters the basic information and promotion settings for the TCR.



The Coordinating IM is automatically set based on the user profile and cannot be edited. The user defines:

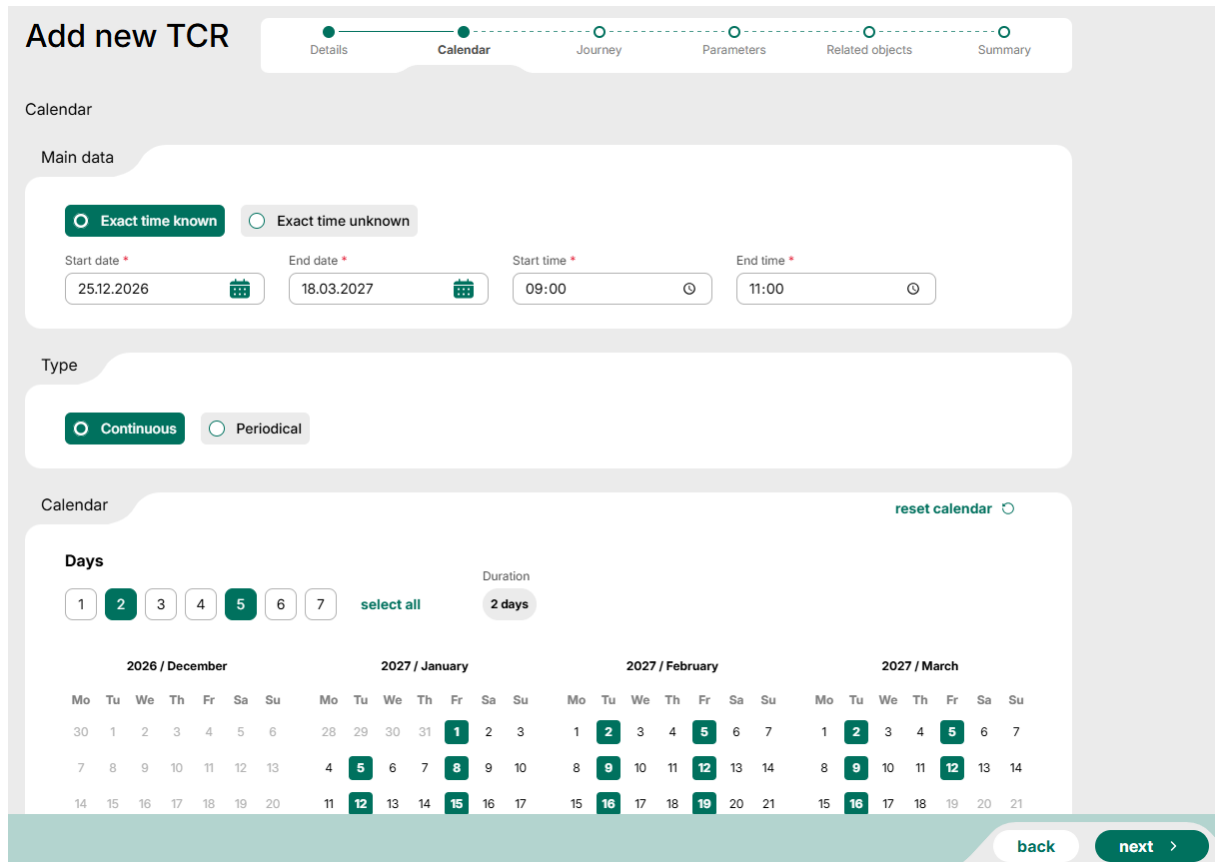
- TCR title and classification
- Whether the TCR is a total closure
- Timetable period
- Whether the TCR belongs to the yearly timetable
- Optional description

The user can generate or manually define the TCR ID. Once the TCR is created, the ID can no longer be changed.

The user also defines whether the promotion process is automatic. If it is not automatic, a future publication date must be set.

### Calendar step

In the Calendar step, the user defines when the TCR applies.



The user specifies:

- Whether the exact time is known or unknown
- Start and end dates (or weeks)
- Whether the TCR is continuous or periodical
- Applicable days of the week

Based on these inputs, the calendar is automatically generated. The user must ensure that at least one active day is selected to continue.

## Journey step

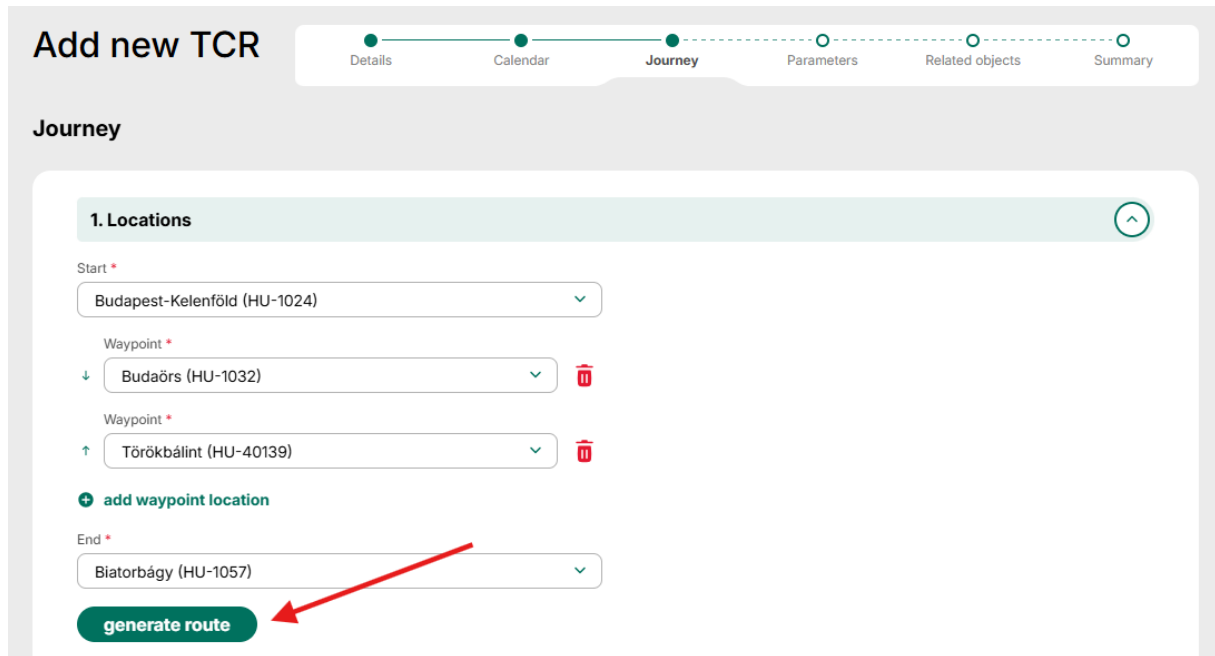
In the **Journey** step, the user defines **where** the restriction applies.

The user:

- Selects start and end locations
- Adds optional via locations
- Selects the direction

- Generates the route

The route must be generated by clicking on the **generate route** button to proceed.



**Add new TCR**

Details | Calendar | **Journey** | Parameters | Related objects | Summary

**Journey**

**1. Locations**

Start \*  
Budapest-Kelenföld (HU-1024)

Waypoint \*  
↓ Budaörs (HU-1032)

Waypoint \*  
↑ Törökbálint (HU-40139)

+ add waypoint location

End \*  
Biatorbágy (HU-1057)


**generate route**

The user can view the generated route on a map by clicking on the **show route on map** button and close this view with the close button.



**generate route**

**2. Route**

 **show route on map**



The user can also define **affected borders**, **deviation locations**, and **deviation borders**, with optional comments.

generate route

2. Route ↑

🗺️ show route on map

Direction

↔️

←

→

Segments

Budapest-Kelenföld	→	Budaörs
Budaörs	→	Budaörs-ISG ipvk.
Budaörs-ISG ipvk.	→	Törökbálint
Törökbálint	→	Biatorbágy

Branch

+
add segment

**Involved parties**

Affected border locations

Affected IM

Involved RFC

**Deviations**

Deviation locations

Deviation location comment

0/255

add deviation location +

Deviation borders

Deviation border comment

0/255

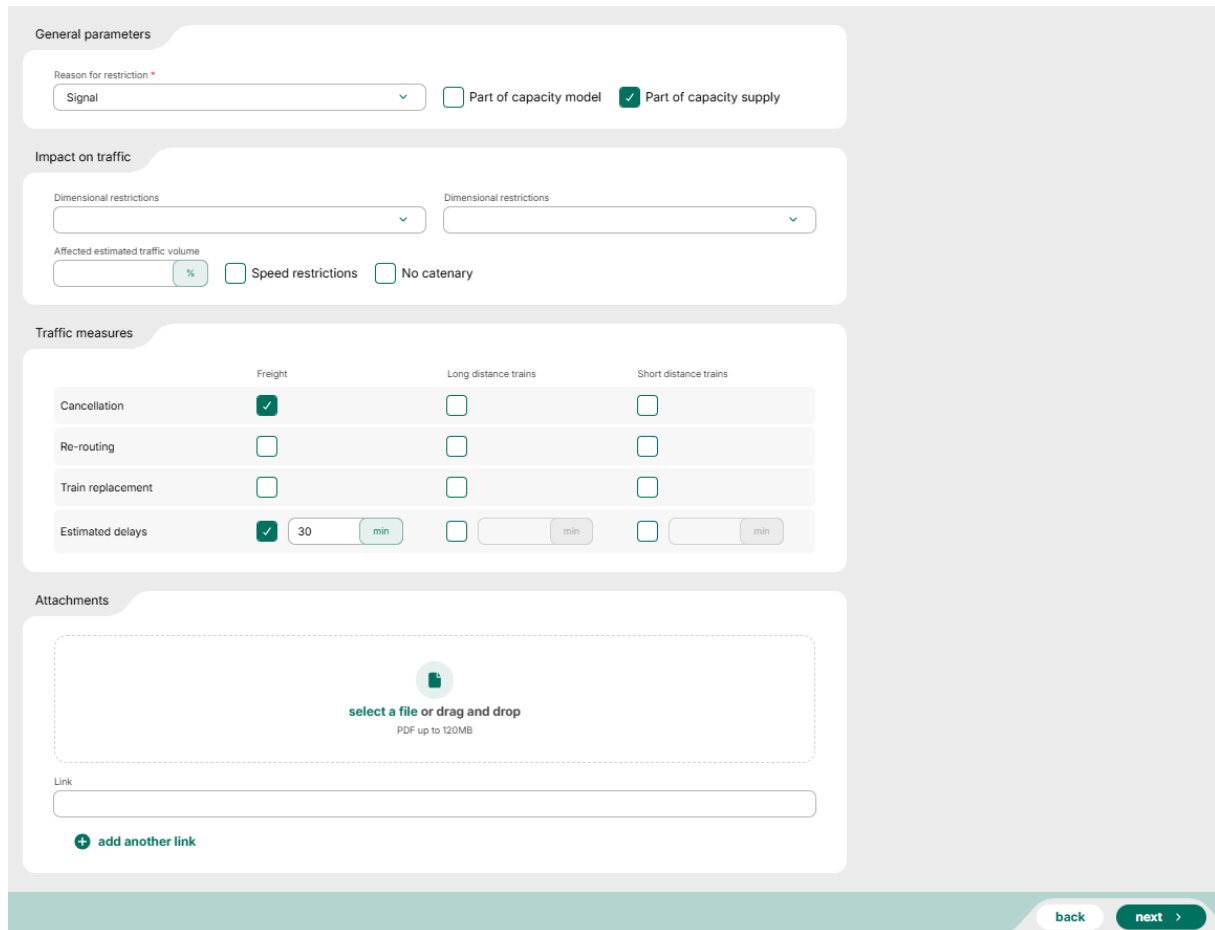
add deviation border +

back

next >

## Parameters step

In the **Parameters** step, the user describes the **impact of the TCR**.



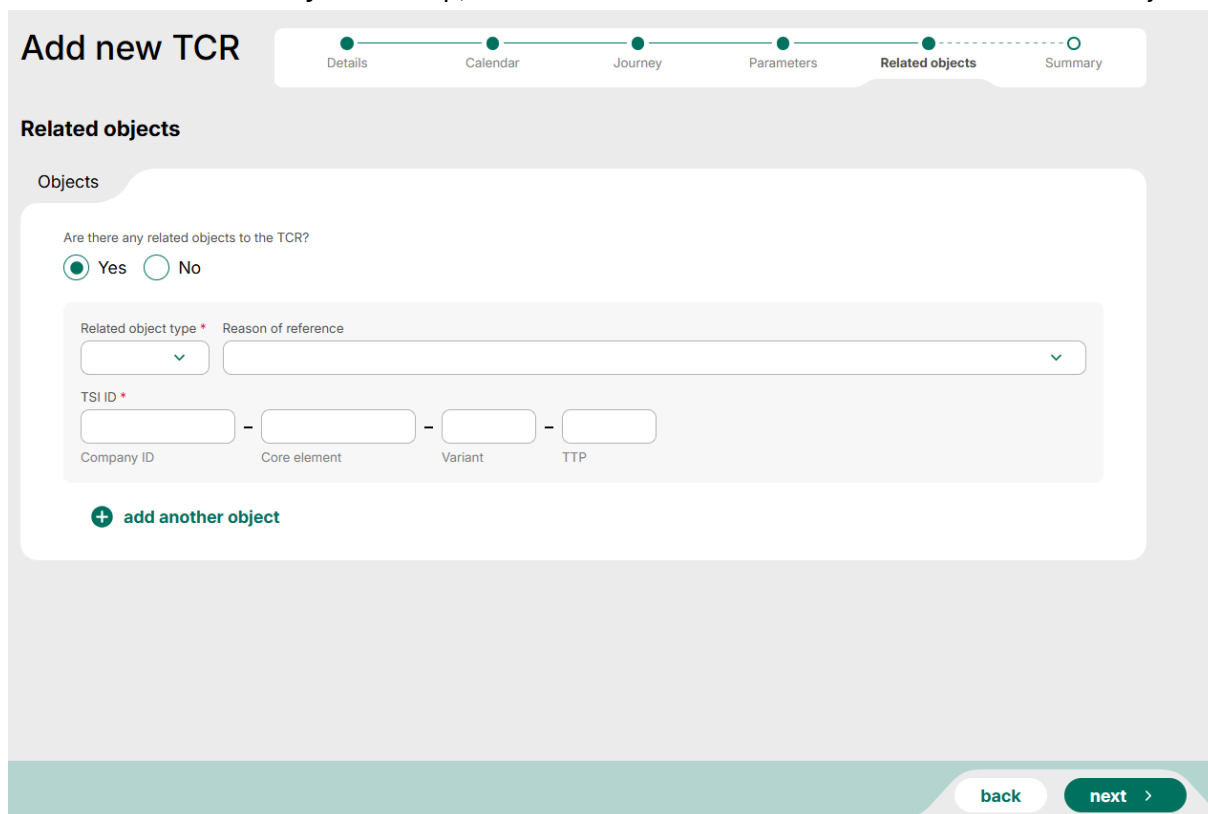
The user defines:

- Reason for restriction
- Whether the TCR is part of capacity model and/or capacity supply
- Traffic impacts (e.g. dimensional limits, reduced availability, speed restrictions)
- Traffic measures (e.g. cancellation, re-routing, delays)

Files and links can be attached to provide additional information.

## Related Objects step

In the **Related Objects** step, the user can link the TCR to other objects.



**Add new TCR**

Details Calendar Journey Parameters **Related objects** Summary

**Related objects**

Objects

Are there any related objects to the TCR?

Yes  No

Related object type \* Reason of reference

TSI ID \*

Company ID - Core element - Variant - TTP

+ add another object

back next >

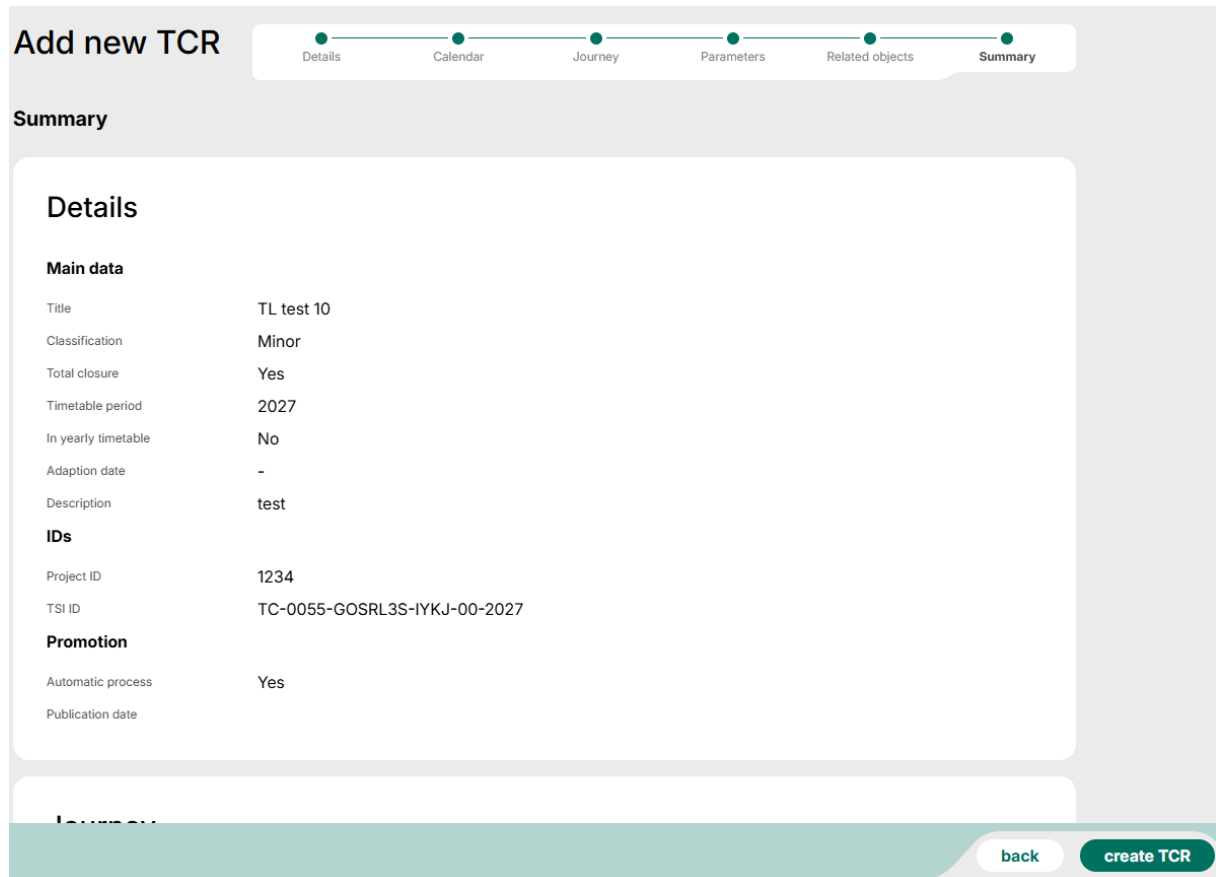
The user selects:

- Whether related objects exist
- Related object type
- Reason for reference
- TSI ID

Multiple related objects can be added if needed.

## Summary step

The **Summary** step shows all entered information for final review.



**Add new TCR**

Progress bar: Details, Calendar, Journey, Parameters, Related objects, **Summary**

**Summary**

**Details**

Main data	
Title	TL test 10
Classification	Minor
Total closure	Yes
Timetable period	2027
In yearly timetable	No
Adaption date	-
Description	test
IDs	
Project ID	1234
TSI ID	TC-0055-GOSRL3S-IYKJ-00-2027
Promotion	
Automatic process	Yes
Publication date	

Navigation: back, **create TCR**

If corrections are needed, the user can return to any previous step using the stepper or the Back button.

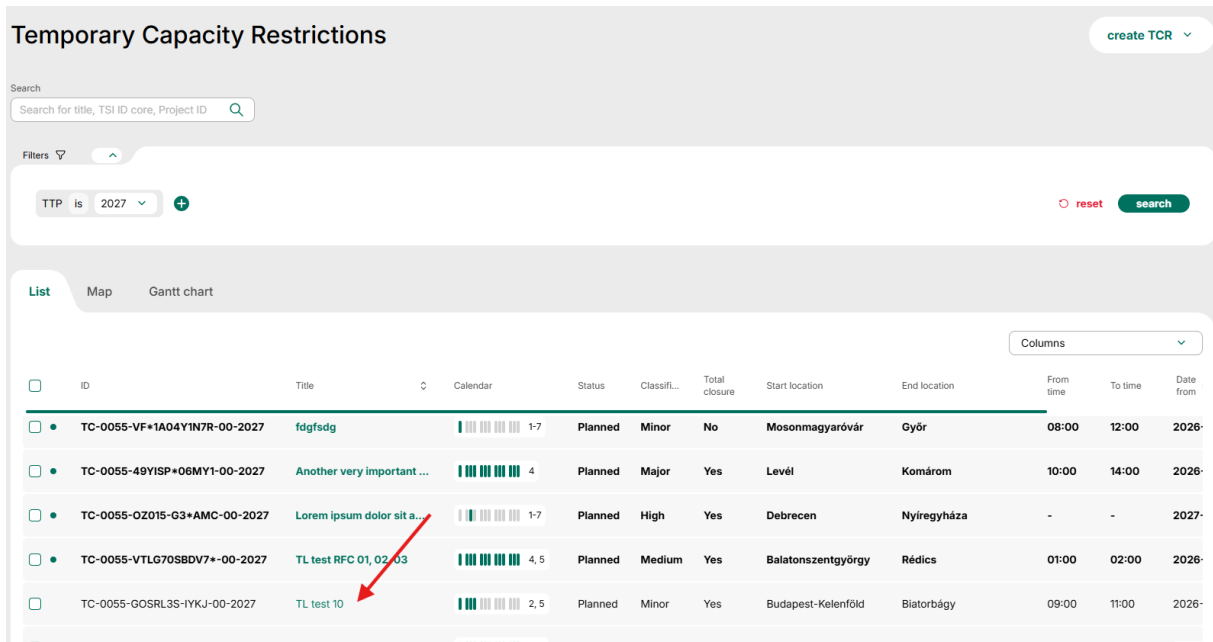
To finalize the process, the user clicks **Create TCR**, which submits the object to the system.

#### Validation and Navigation (applies to all steps):

- Mandatory fields are marked with \*
- Errors are highlighted in red, warnings in orange
- The user cannot proceed to the next step while errors exist
- Frontend validation is shown immediately
- Backend validation is shown on the Summary step
- The user can always navigate back to completed steps

#### 5.3.3 TCR detailed view

The **TCR detailed view** is accessible by clicking on the title of the object in the TCR list.



**Temporary Capacity Restrictions** create TCR ▾

Search: Search for title, TSI ID core, Project ID 🔍

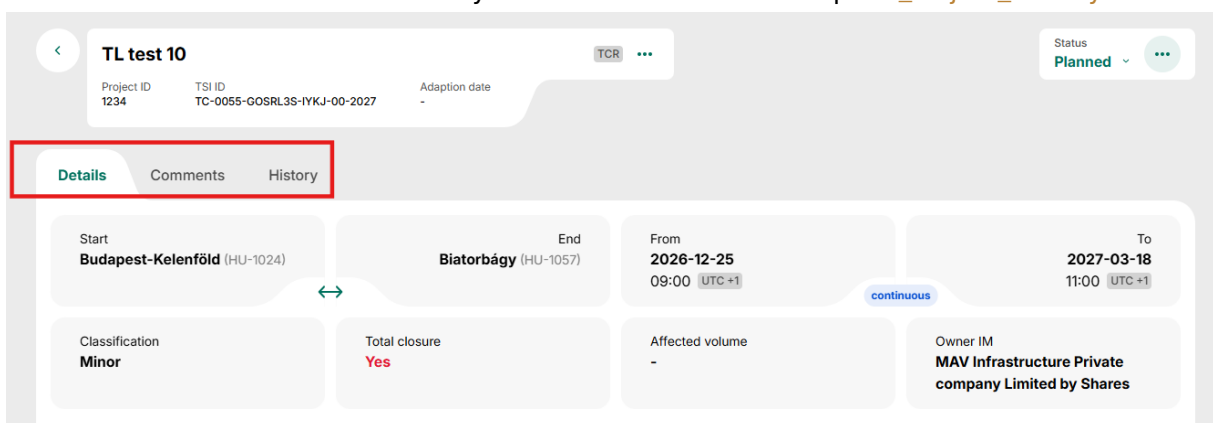
Filters: TTP is 2027 + reset search

View: List | Map | Gantt chart

ID	Title	C	Calendar	Status	Classif...	Total closure	Start location	End location	From time	To time	Date from
TC-0055-VF+1A04YIN7R-00-2027	fdgfsdg	1-7	Planned	Minor	No	Mosonmagyaróvár	Győr	08:00	12:00	2026	
TC-0055-49YISP+06MY1-00-2027	Another very important ...	4	Planned	Major	Yes	Levél	Komárom	10:00	14:00	2026	
TC-0055-OZ015-G3+AMC-00-2027	Lorem ipsum dolor sit a...	1-7	Planned	High	Yes	Debrecen	Nyíregyháza	-	-	2027	
TC-0055-VTLG70SBDV7+00-2027	TL test RFC 01, 02, 03	4, 5	Planned	Medium	Yes	Balatonszentgyörgy	Rédics	01:00	02:00	2026	
TC-0055-GOSRL3S-IYKJ-00-2027	TL test 10	2, 5	Planned	Minor	Yes	Budapest-Kelenföld	Biatorbágy	09:00	11:00	2026	

This view is **divided into 3 tabs**:

- **Details:** The Details tab displays information similar to the Summary step of TCR creation, organized into sections (General details, Calendar, Journey, Parameters, Related Objects, Summary).
- **Comments:** Users with editing and commenting rights can add, view, edit, or delete comments on objects depending on visibility and phase; more details are in the related chapter: [Commenting](#).
- **History:** The Object History tab is available for all object types and shows the version history. Users with READ permission can view versions, compare them, and check who made which changes, when, and the action performed. Archived versions are view-only. Access to earlier versions is limited by user permissions and status at the time. For details on history actions see the related chapter: [\\_Object\\_History\\_](#).



**TL test 10** TCR ... Status Planned ▾

Project ID: 1234 | TSI ID: TC-0055-GOSRL3S-IYKJ-00-2027 | Adaption date: -

Details | Comments | History

Start: Budapest-Kelenföld (HU-1024) ↔ End: Biatorbágy (HU-1057)

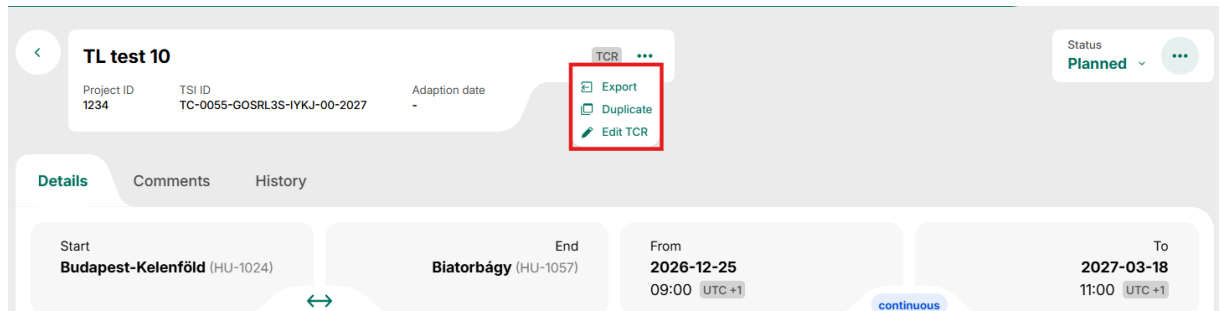
From: 2026-12-25 09:00 UTC +1 To: 2027-03-18 11:00 UTC +1

Classification: Minor | Total closure: Yes | Affected volume: - | Owner IM: MAV Infrastructure Private company Limited by Shares

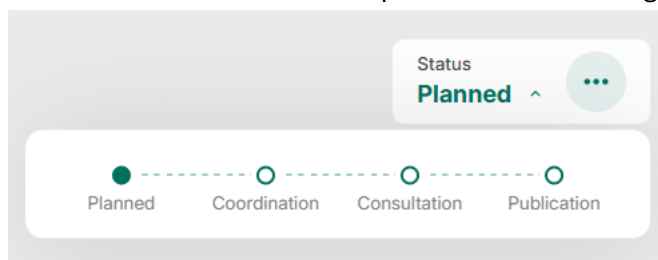
From the TCR detailed view, users can perform the following actions:

- Export TCR

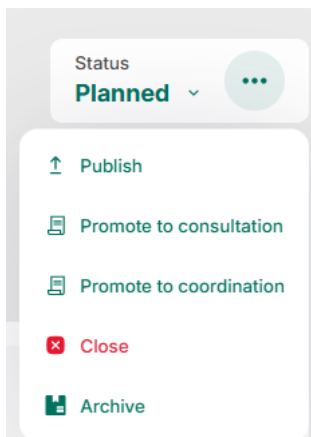
- Duplicate TCR
- Edit the TCR



- Check the current status and possible status changes in the workflow

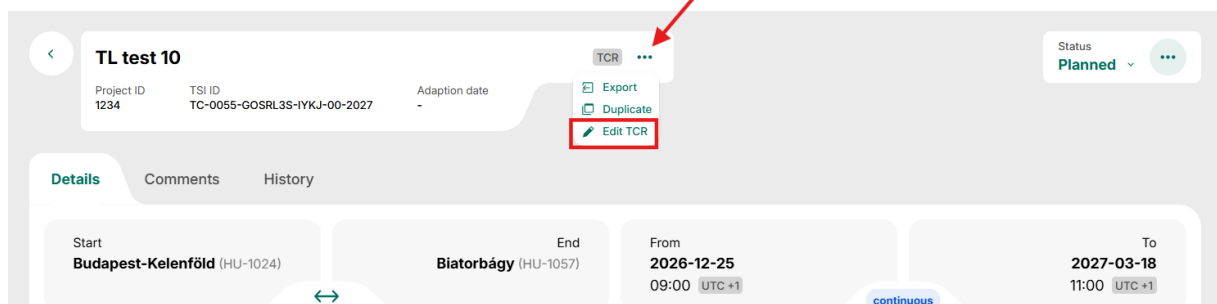


- Promote, demote, cancel or archive the TCR



### 5.3.4 Edit TCR

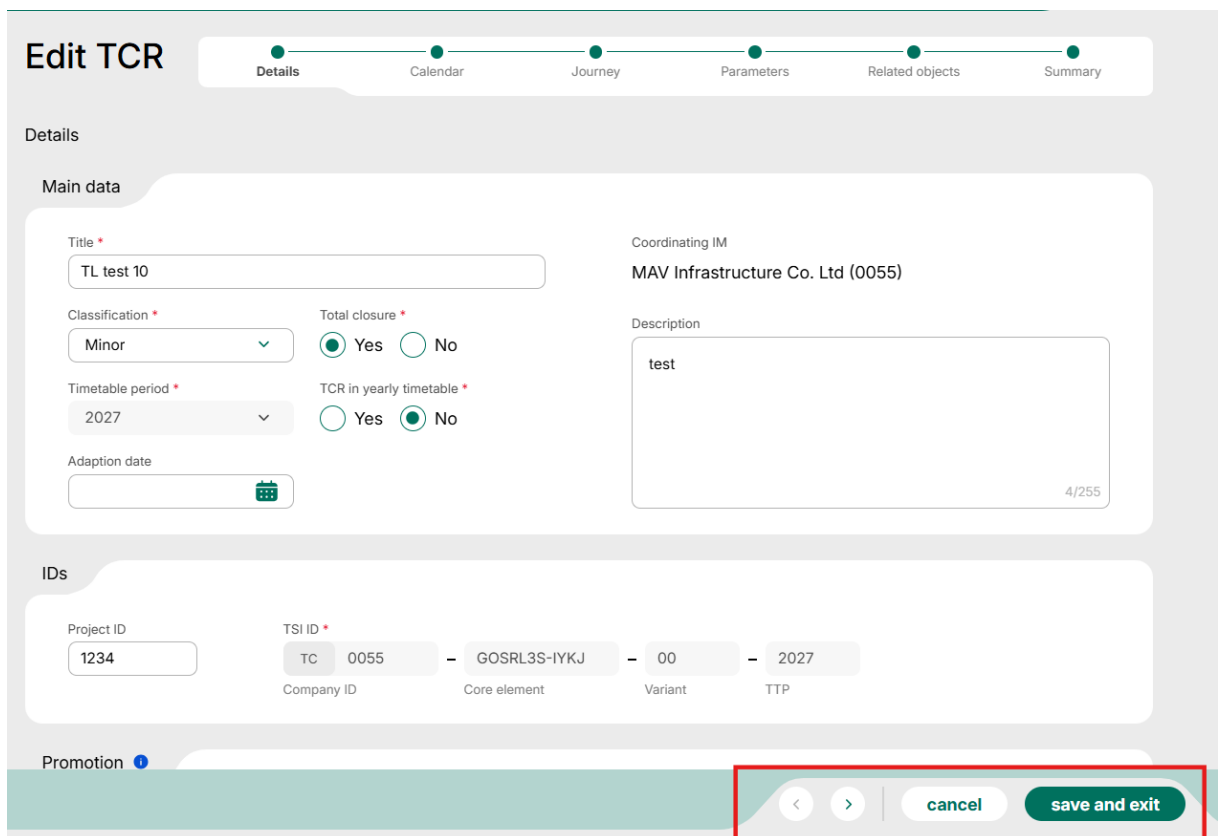
Users with sufficient permissions can edit parts of the TCR by clicking the “edit” button in the TCR detailed view.



All previously saved values are pre-filling the user can edit. Mandatory fields remain marked with red asterisks and the same validation rules as in creation apply on the edit.

On each edit steps, the following controls are available on the bottom of the screen.

- **Back arrow** – navigates to the previous step
- **Forward arrow** – navigates to the next step (enabled only when validation is successful)
- **Cancel** – discards all unsaved changes and exits edit mode
- **Save and Exit** – saves the changes made so far and exits edit mode



The screenshot shows the 'Edit TCR' interface with the 'Details' step selected. The form contains the following fields and controls:

- Title \***: Text input field with value 'TL test 10'.
- Classification \***: Dropdown menu with value 'Minor'.
- Timetable period \***: Dropdown menu with value '2027'.
- Adaption date**: Calendar icon.
- Coordinating IM**: Text input field with value 'MAV Infrastructure Co. Ltd (0055)'.
- Description**: Text area with value 'test'.
- Total closure \***: Radio buttons for 'Yes' (selected) and 'No'.
- TCR in yearly timetable \***: Radio buttons for 'Yes' and 'No' (selected).
- IDs**: Project ID (1234), TSI ID (TC 0055 - GOSRL3S-IYKJ - 00 - 2027), Company ID, Core element, Variant, TTP.

At the bottom, a navigation bar contains a back arrow, a forward arrow, a 'cancel' button, and a 'save and exit' button.

**Details:** In the Details step, users can update the general configuration of the TCR. Existing information is pre-filled and can be modified but the mandatory field and the other validations are same as creation.

Navigation arrows are available to move between steps. Users can cancel the edit to discard changes or use Save and Exit to store updates and leave the edit flow at any time.

**Calendar:** The Calendar step allows users to adjust the overall validity period of the TCR. Users can revise the active period and change the selected operating days using the available calendar controls.

**Journey:** In the Journey step, users can modify the route structure of the TCR. Mandatory start and end points remain required, while intermediate locations can be added, removed, or re-ordered. Any change to the route requires regenerating the route before continuing.

**Parameters:** The Parameters step enables users to update general parameters, the impact on traffic, traffic measures and add or remove attachments and links.

**Related Objects:** user can modify the related objects of the TCR or add new ones.

**Summary:** The Summary step presents a consolidated view of all changes made during editing. Users review the updated information before confirming.

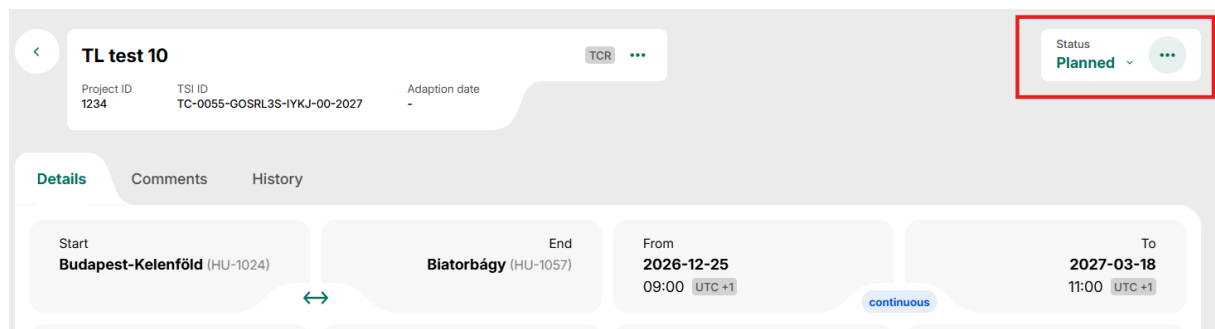
Navigation arrows, Cancel, and Save and Exit remain available.

**Saving on this step finalizes the edit and updates the TCR.**

### 5.3.5 TCR Object workflow and access control

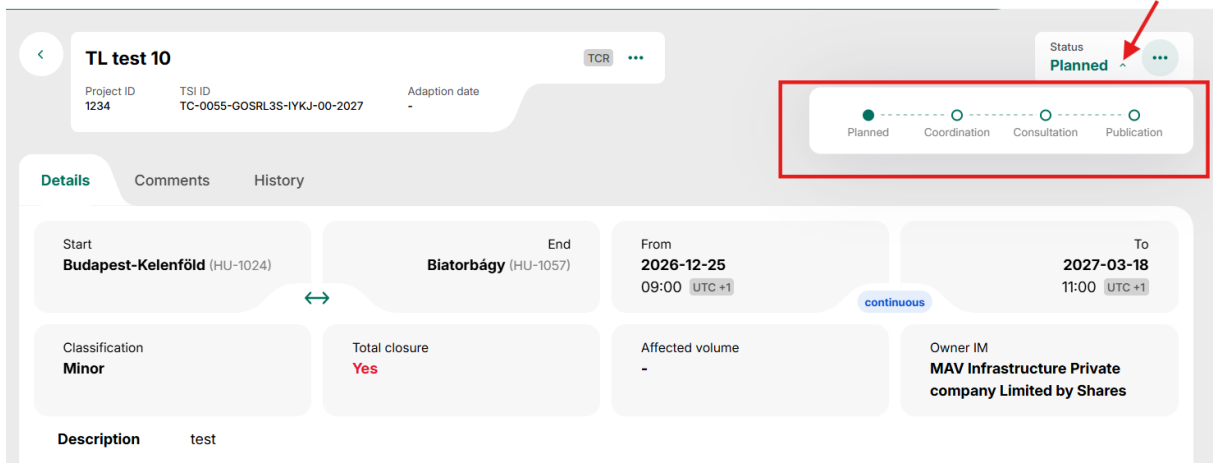
The TCR workflow defines how a TCR object progresses through its lifecycle, how users interact with it in each status, and which actions are available based on roles and responsibilities.

The **workflow control** is located in the **top right corner of the TCR detailed view**.



By default, the current status of the TCR is displayed. Clicking the **arrow icon** opens the full workflow view, showing:

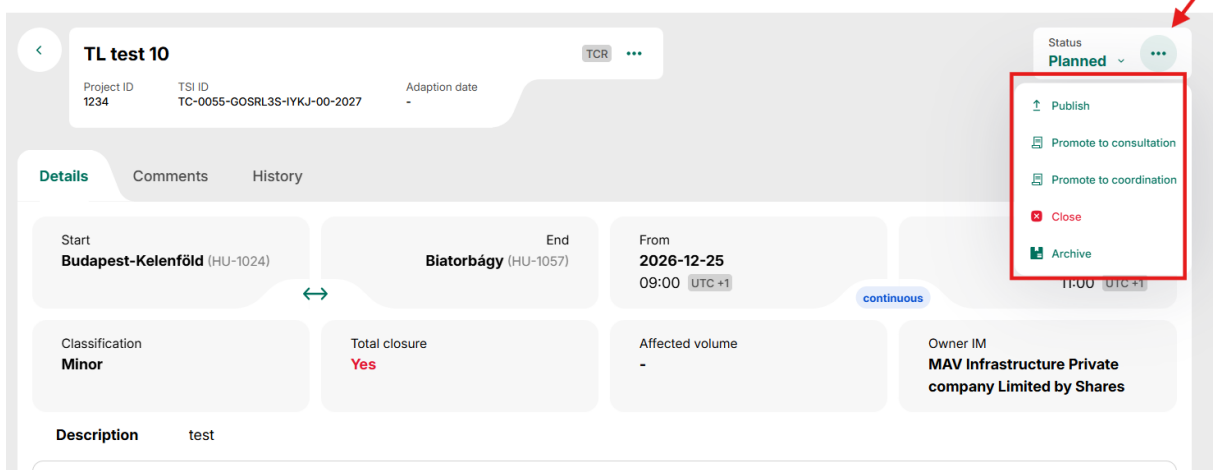
- Previous statuses
- Current status
- Possible future statuses



This view is available to **all users who have access** to the TCR object.

### Promote and Demote Actions

Promotion and demotion actions are available via the **three-dot menu** in the TCR detailed view.



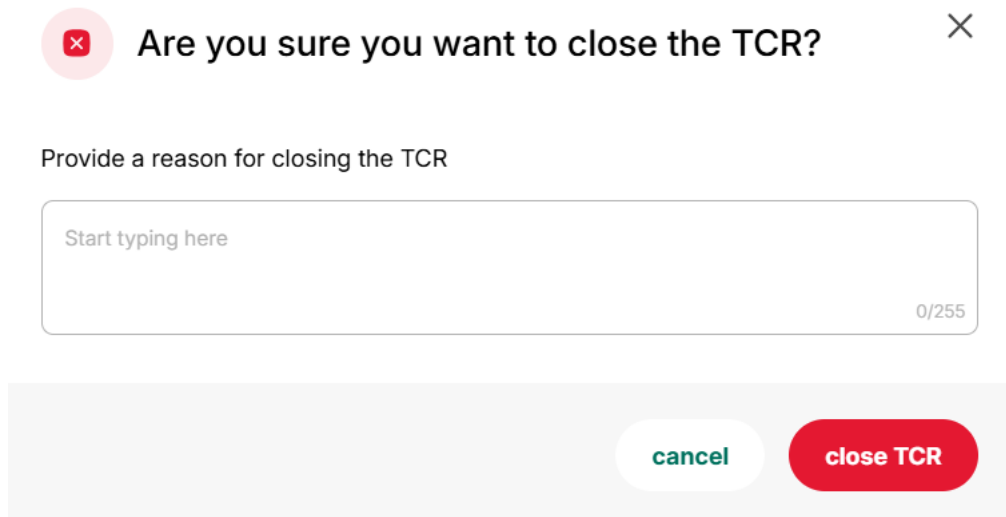
### Who can promote or demote:

- **Only the Coordinating IM (owner)** can promote or demote a TCR
- The menu is available in **all statuses except Archived**

### Important rules:

- Available actions depend on the **current status**
- **Negative transitions** (e.g. return to planning, close, withdraw) **require a mandatory comment**

- **Archive, Close, and Reopen** actions require confirmation via a modal dialog

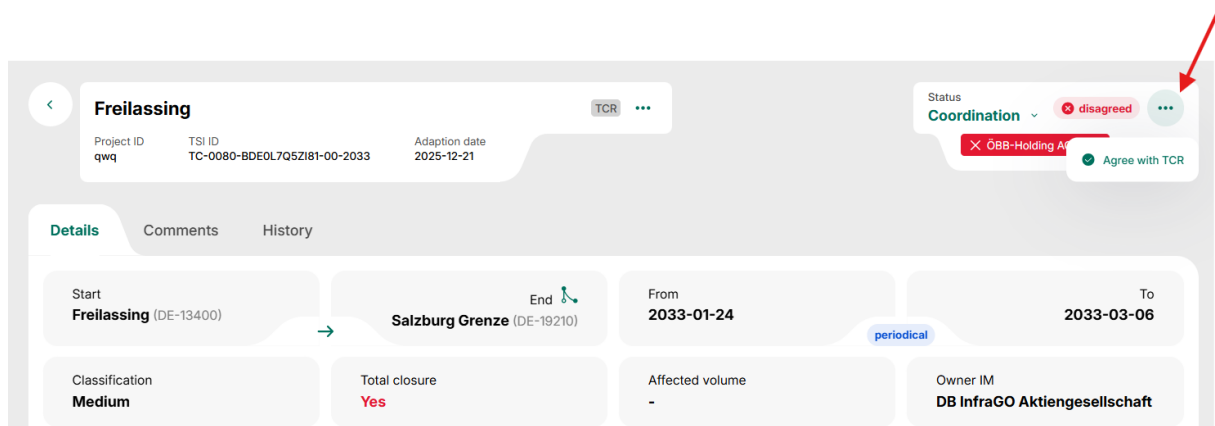


A modal dialog box with a red close button in the top right corner. The title is "Are you sure you want to close the TCR?". Below the title is a text input field with the placeholder "Start typing here" and a character count "0/255". At the bottom of the dialog are two buttons: a white "cancel" button and a red "close TCR" button.

### TCR Assessment (Agree / Disagree)

TCR assessment is available for **Affected IMs** when the TCR is in **Coordination** status.

The **Agree / Disagree** options are shown in the TCR detailed view, **three-dot menu**.



A screenshot of the TCR detailed view for "Freilassing". The top bar shows the TCR name, a "TCR" label, and a three-dot menu. The status is "Coordination" with a dropdown arrow, and the assessment is "disagreed" with a red 'x' icon. Below the status bar are two buttons: "Disagree with TCR" (red) and "Agree with TCR" (green). The main content area has tabs for "Details", "Comments", and "History". The "Details" tab is active, showing a timeline from "Freilassing (DE-13400)" to "Salzburg Grenze (DE-19210)" with a "periodical" label. Other details include "Classification: Medium", "Total closure: Yes", "Affected volume: -", and "Owner IM: DB InfraGO Aktiengesellschaft". A red arrow points to the three-dot menu in the top right corner.

### Assessment behavior:

- Both options are visible while the assessment is pending
- The selected assessment is displayed on the object
- The affected IM can **change their assessment** as long as the TCR remains in Coordination

- Selecting **Disagree** requires a **mandatory comment**

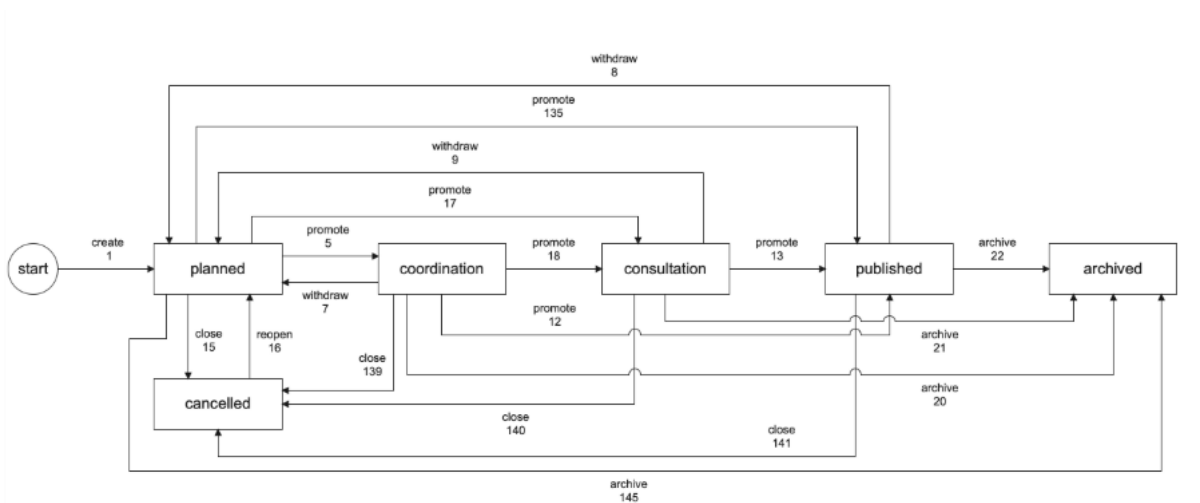
Promotions or demotions **do not reset existing coordination assessments**. Assessments are reset only in case of **major changes** to the TCR.

### TCR Object States

A TCR can move through the following statuses:

- Planned
- Coordination
- Consultation
- Published
- Cancelled
- Archived

Each promotion or demotion can be executed **only by the Coordinating IM**.



### Transition Preconditions:

- **Create:** A TCR can be created in *Planned* status only if all mandatory data is filled and no validation errors exist
- **Promote:** No general restrictions
- **Withdraw / Return to planning:** Mandatory comment required

- **Archive / Close / Reopen:** Confirmation modal must be accepted

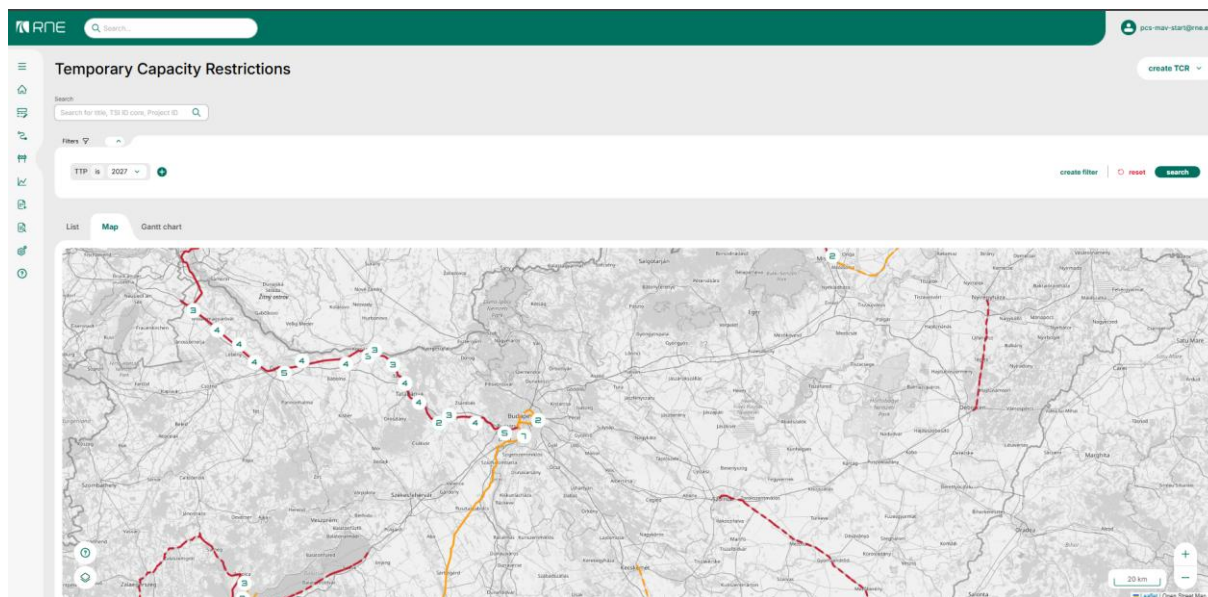
### Access Rights by Status

Status	Coordinating IM promoting rights	Coordinating IM editing rights	Affected IMs editing rights	Other IMs editing rights	Applicants, RUs editing rights
Planned	1. To published <sup>1</sup> (publish) 2. To coordination (promote to coordination) 3. To consultation (promote to consultation) 4. To cancelled (close)	Read, write, comment	none	none	none
Cancelled	1. To planned (reopen)	Read	none	none	none
Coordination	1. To published (publish) 2. To consultation (promote to consultation) 3. To planned (return to planning) 4. To cancelled (close)	Read, write, comment	Read, assess and comment	Read	none
Consultation	1. To published (publish) 2. To planned (return to planning) 3. To archived (archive) 4. To cancelled (close)	Read and comment	Read	Read	Read and comment
Published	1. To planned (return to planning) 2. To archive (archive) 3. To cancelled (close)	Read	Read	Read	Read
Archived	None	Read	none	none	none

### 5.3.6 TCR Map view

The TCR Map is an interactive, web-based visualization tool that displays railway infrastructure restrictions using OpenStreetMap as the base layer, rendered via the Leaflet library. You can access the TCR Map view through the TCR Module menu, under the TCR Map submenu.

After setting the timetable year, users can search and filter TCRs by location and other parameters, with results visualized as polylines on the map. The quick search can be used to filter the list of objects shown.

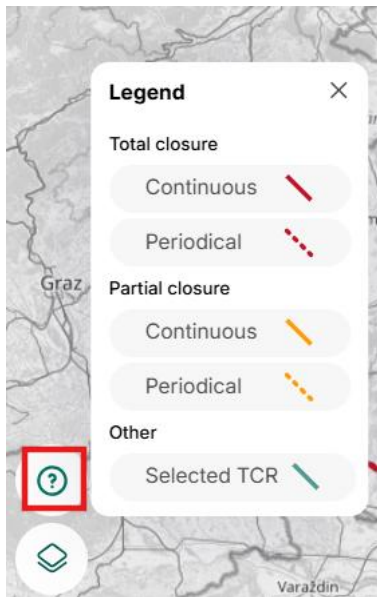


The TCR Map integrates topology and object data from RIS and applies a default colour scheme based on TCR attributes:

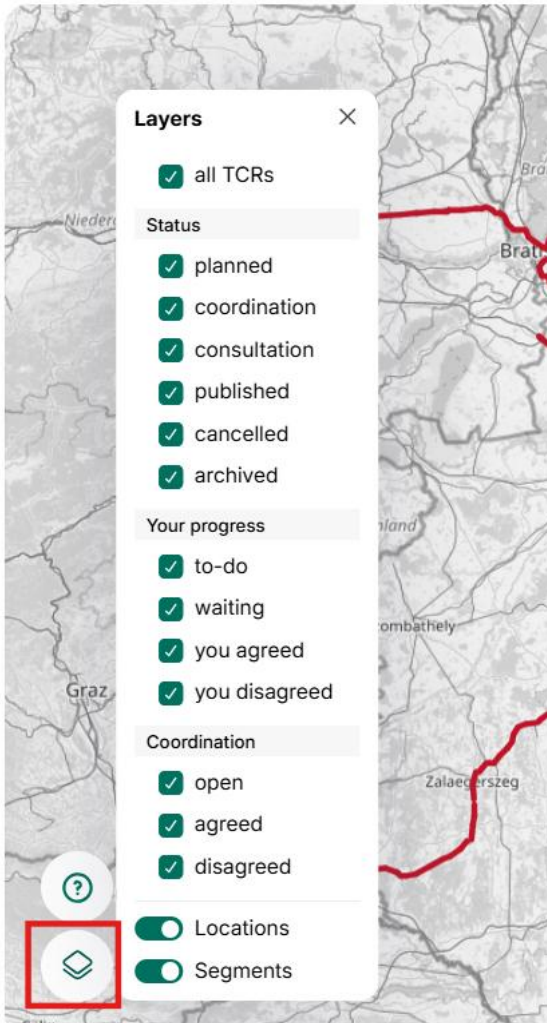
- Yellow: Default TCRs
- Red: Total closures
- Green: Selected TCR

Continuous TCRs are represented by a solid line, while Periodical TCRs are shown with a dotted line.

Clicking the question mark opens the legend with the details described above.

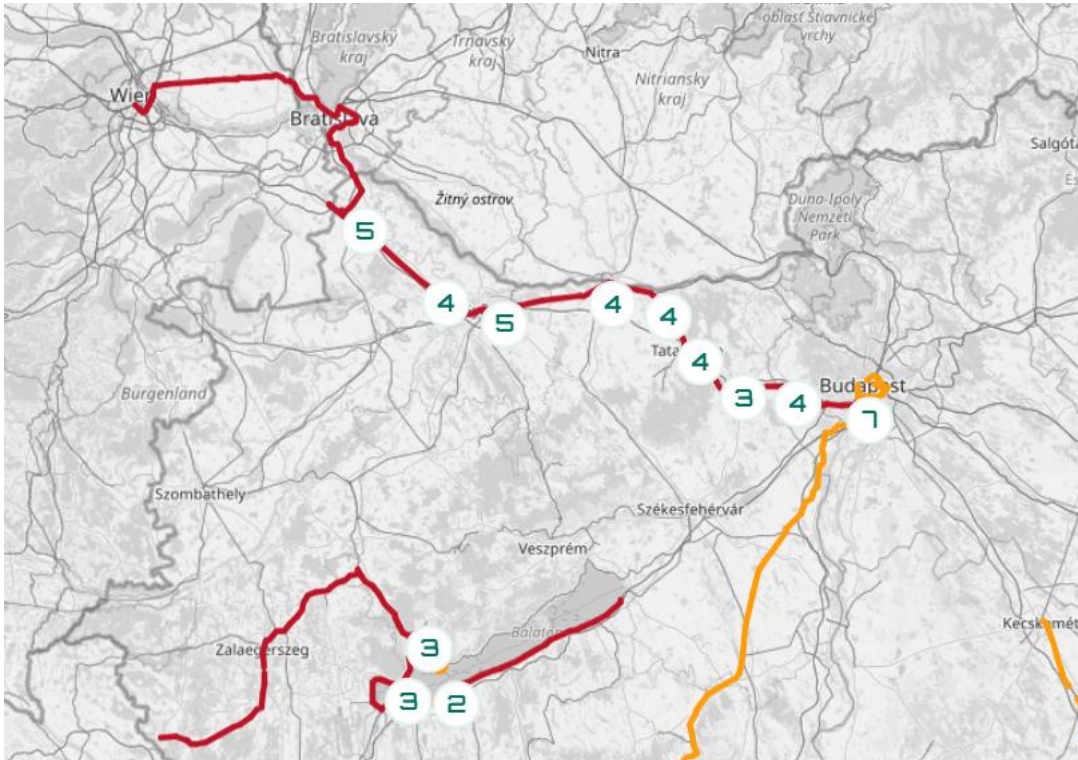


Users can also set different layers for focused analysis. The layers are dynamic and depend on the TCR search result. Changing anything in the layers does not have an impact on the set filter options.

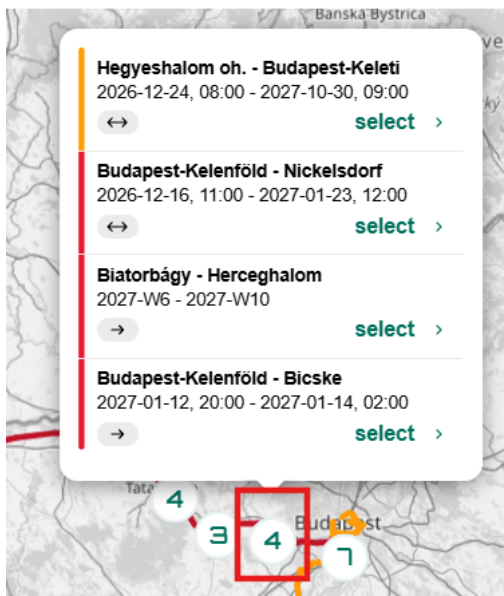


Use zooms in/out to adjust the map scale (horizontal/vertical or pinch on a touchpad). Scroll by mouse or grab-and-drag.

TCRs that overlap in the same segment are grouped into bubbles, with a count indicator showing how many TCRs are on that line.

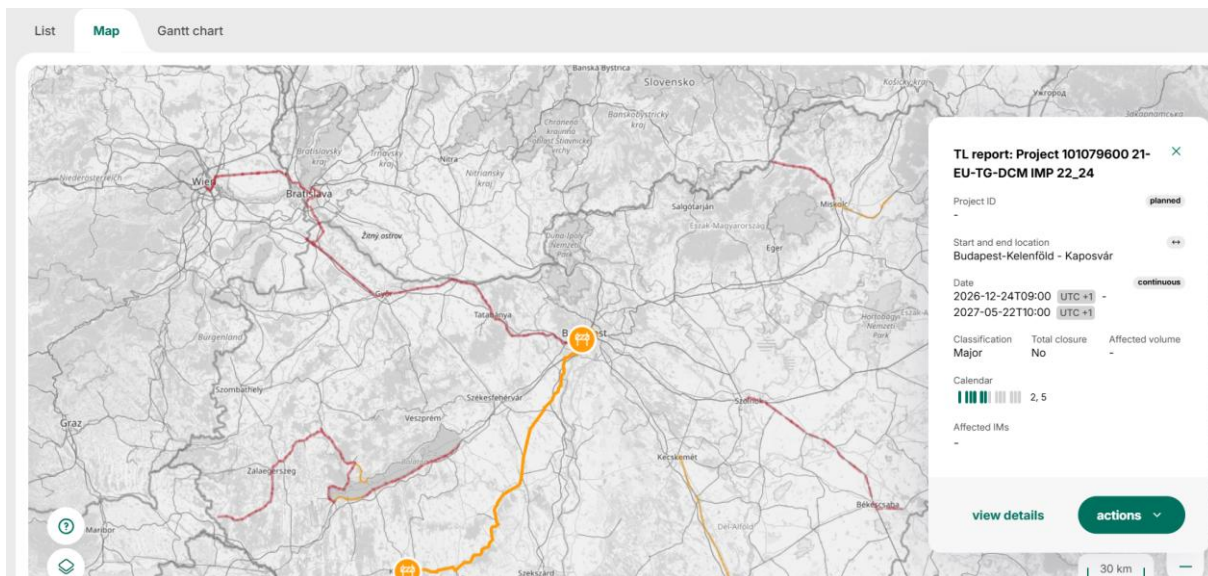


Clicking a bubble displays a tooltip listing the overlapping TCRs.

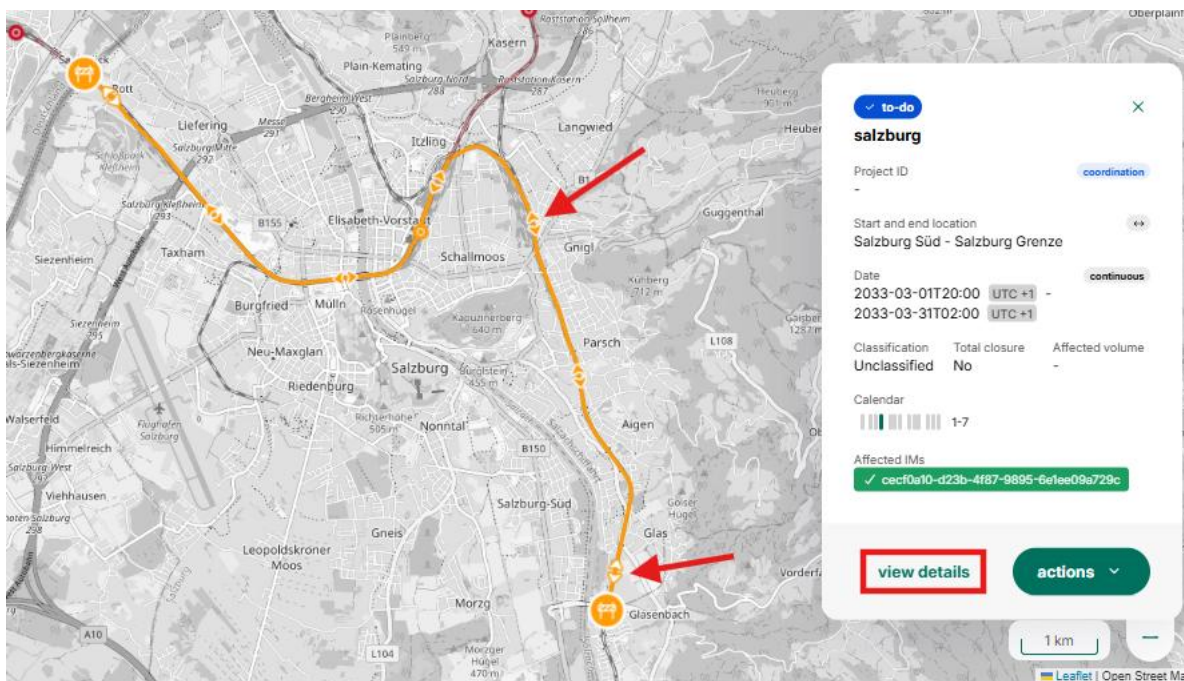


Station closure TCRs are not grouped into bubbles. If more station closures are available at a certain location, the tooltip with overlapping TCRs will be shown upon clicking on the TCR icon.

Clicking a TCR highlights it, fades out others, and opens a compact modal in the top-left corner with key information.



If a TCR is selected, arrows indicate its direction: larger white arrows mark the edges near the start/end locations, and smaller coloured arrows appear along the TCR line.



Authenticated users can open full TCR details in a new window by clicking on the “view details” button.

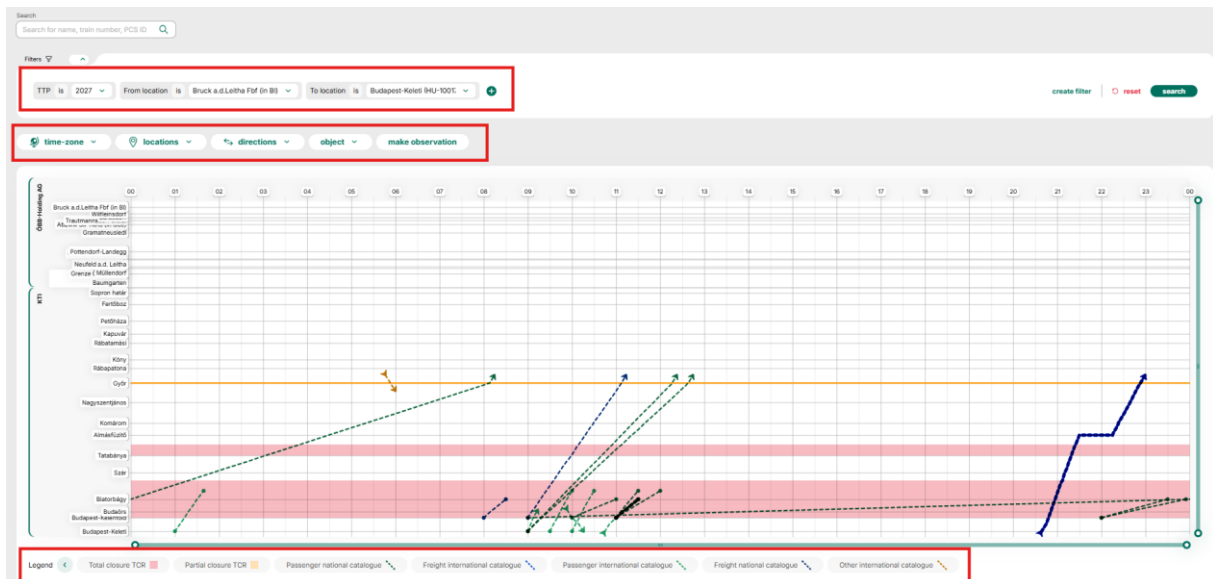
## 5.4 Charts & Visualisations

Chart visualisation is *not implemented yet* for the Line Overview, Segment Overview and Network Overview .

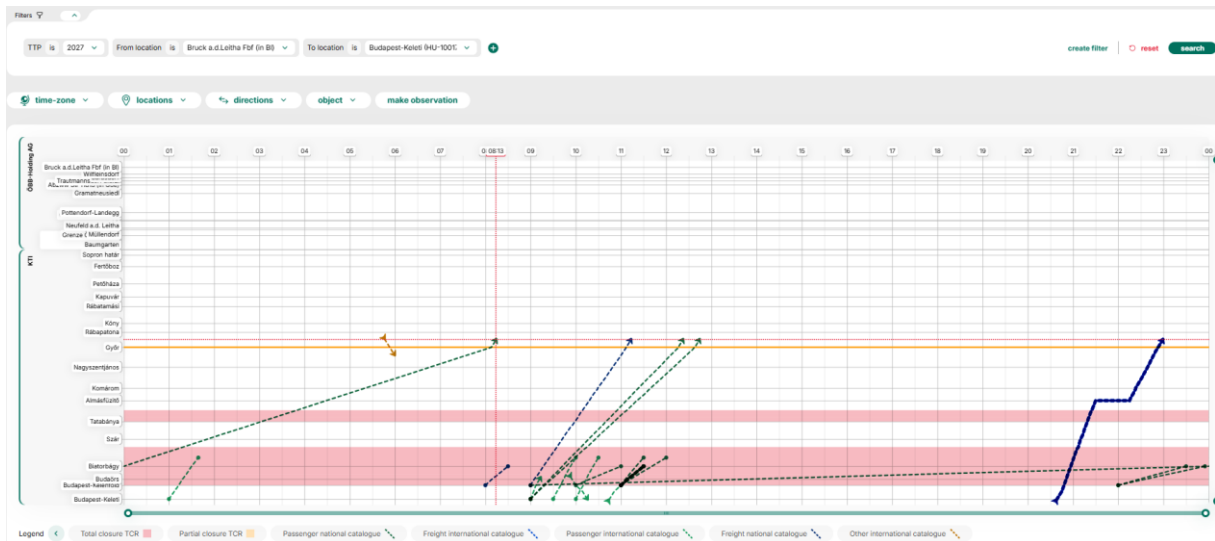
### 4.4.1 Capacity Supply Chart

The Capacity Supply Chart, accessible from the main menu under Charts → Capacity Supply Chart, provides a time-space visualisation of Catalogue Paths, Paths, Bandwidths (Catalogue Paths including bandwidths), and TCRs marked as part of the supply, showing available capacity and the impact of restrictions along a selected route on a minute-based timeline.

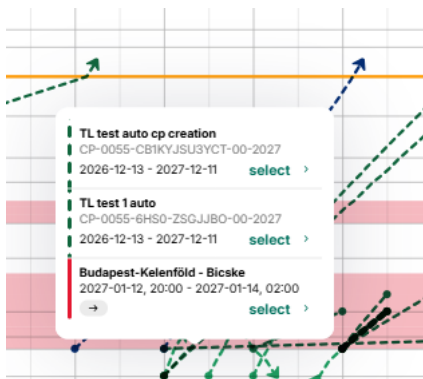
After setting the timetable period and the from/to locations, users can configure all capacity supply-related filters. The Capacity Supply Chart then displays locations on the Y-axis and a 24-hour timeline on the X-axis, with distances between stations scaled according to RIS data. Objects are visualised using a consistent colour scheme and legend based on object type, train type, category, and process type. Border stations are highlighted, including state borders and known hand-over points, and the responsible Infrastructure Managers (IMs) are clearly indicated. Additional chart-specific filters allow users to adjust the time zone, define which locations are shown on the Y-axis, select the direction (forward or backward), and choose which capacity objects are displayed on the chart.



On the Capacity Supply Chart users can zoom and pan across the diagram to focus on specific areas, and the chart provides real-time pointer feedback for both time and location.



Objects on the chart are clickable to open a summary view. When multiple objects overlap at the same coordinates, a tooltip is displayed listing all objects present at that location.

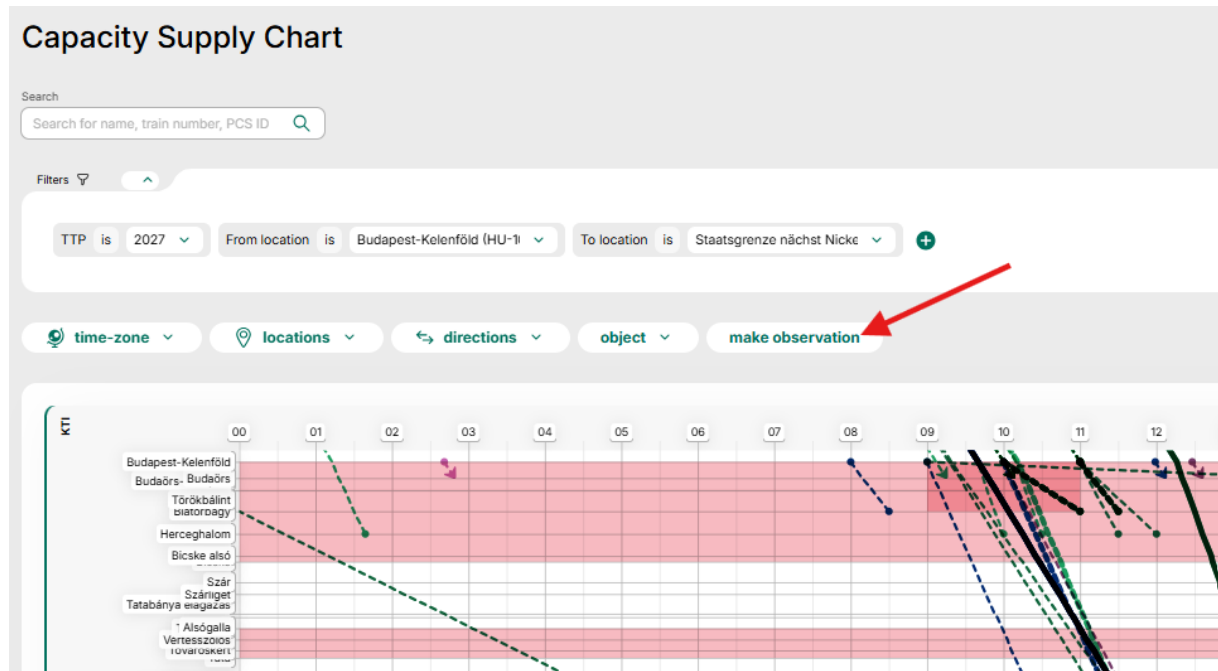


The Capacity Supply Chart is responsive and allows users to collapse the sidebar, expanding the chart to occupy a larger portion of the screen. This provides a clearer, more comprehensive view of all elements displayed on the chart.

### Capacity Supply Observations

The observation phase allows applicants (railway undertakings) to review draft Capacity Supply objects and provide feedback before finalisation.

The **Make Observation** option is available from the **Capacity Supply Chart** and opens a modal with prefilled information.



Go to the [Capacity Supply Observations](#) Chapter to see this functionality in more detail.

### Capacity Supply Harmonization

To access the Capacity Supply harmonization, go to Capacity Supply main menu and select the CS Harmonization Sub-menu.

The screenshot shows the 'Capacity Supply Harmonization' interface. The left sidebar has a menu with 'Capacity Supply' and 'CS Harmonization' highlighted. The main area shows a table with the following data:

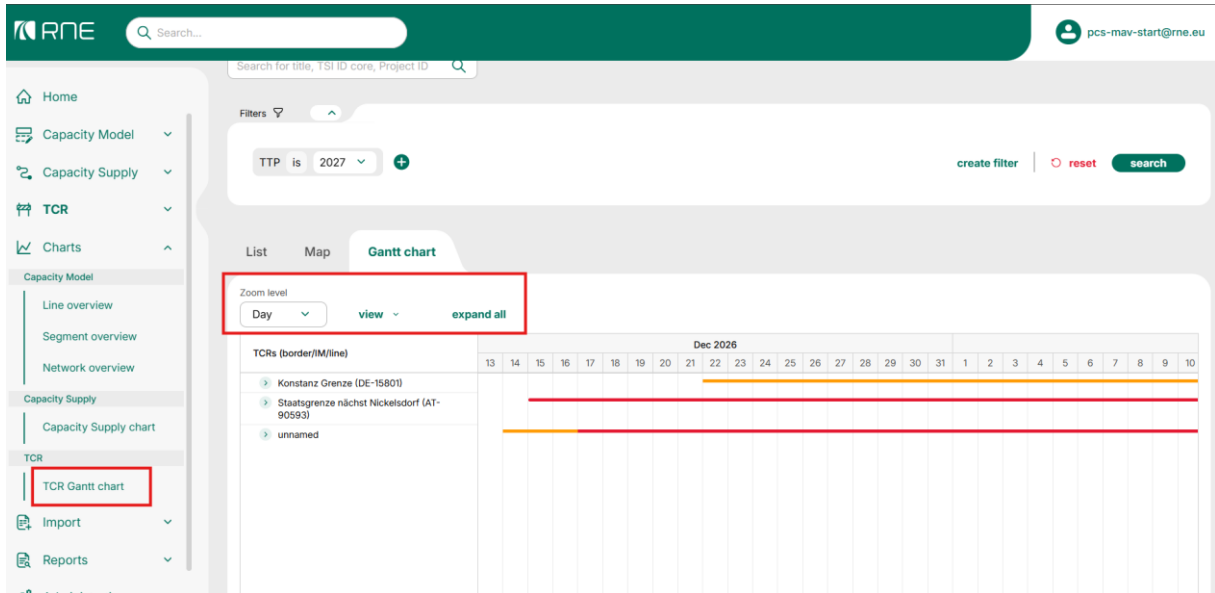
Border	Partner IM	Your progress	Partner's progress	Last updated	comments
Frelissing - Salzburg Lieferung (in Sb)	ÖBB-Holding AG	In progress	Waiting	2025-12-15	comments
Ebersbach (Sache) Grenze - Rumburk st.hr.	SZCZ	In progress	Waiting	2025-12-15	comments
Kufstein Grenze - Staatsgrenze nächst Kufstein	ÖBB-Holding AG	Agreed	Agreed	2025-12-15	comments
Pfronten-Steinach Grenze - Vils	ÖBB-Holding AG	In progress	Agreed	2025-12-15	comments
Pfronten-Steinach Grenze - Hst außer Betrieb	ÖBB-Holding AG	Disagreed	Disagreed	2025-12-15	comments

This feature in the CPT tool supports the harmonisation of capacity supply at border level. For more details, see the respective chapter: [Capacity Supply Harmonization](#) .

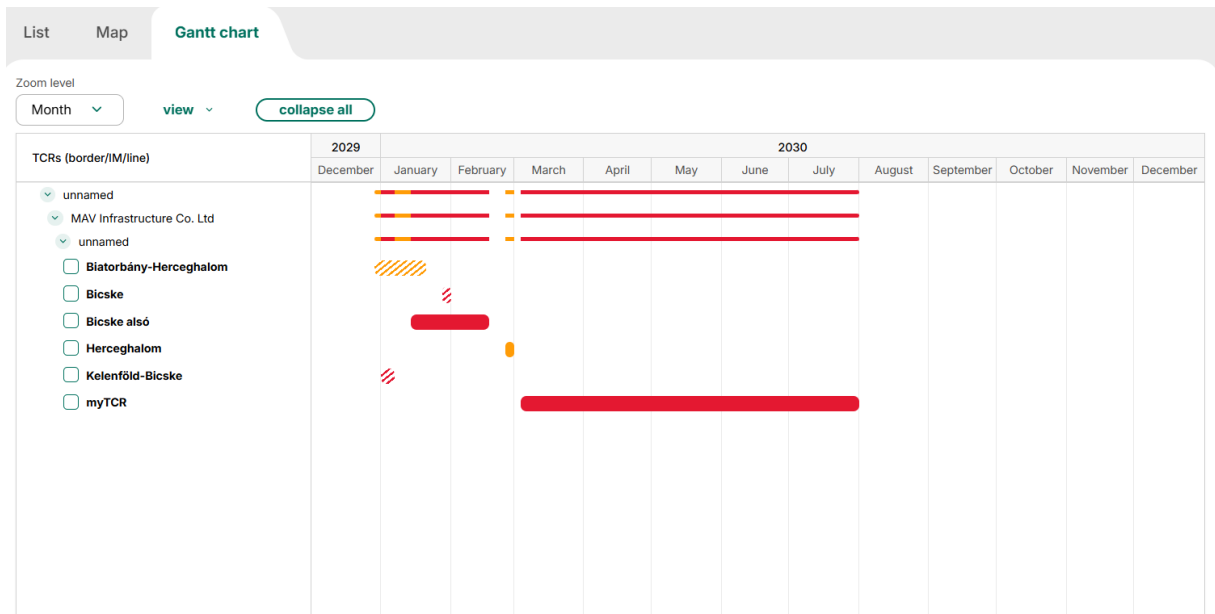
#### 4.4.2 Gantt Chart

The Gantt view provides an interactive visualization of TCRs, offering both high-level and detailed insights. It can be accessed via the Charts main menu → TCR Gantt Chart submenu.

After setting the timetable year, users can search and filter TCRs to tailor the view to their needs. TCRs with changes since the user’s last login are highlighted in bold in the list on the left side panel. TCRs are grouped by border points, Infrastructure Managers (IMs), and lines. These groups are shown collapsed by default, but individual groups can be expanded or collapsed.



Each row in the chart represents a single TCR, while the horizontal axis reflects the time range defined by the user through filters. The time range can be set to hours, days, weeks, or months.



Legend < Continuous total closure TCR ■ Periodical total closure TCR ▨ Continuous partial closure TCR ■ Periodical partial closure TCR ▨

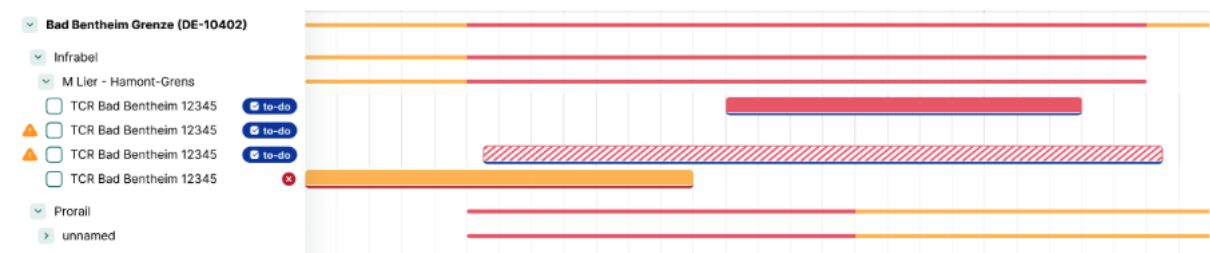
As it is shown on the above legend, the TCR bars are visually represented as follows:

- Default colour: Yellow
- Total closure: Red

- Continuous TCRs: Solid bars
- Periodical TCRs: Striped bars
- Gaps in scheduling (e.g., weekend-only activity) appear as interrupted bars.

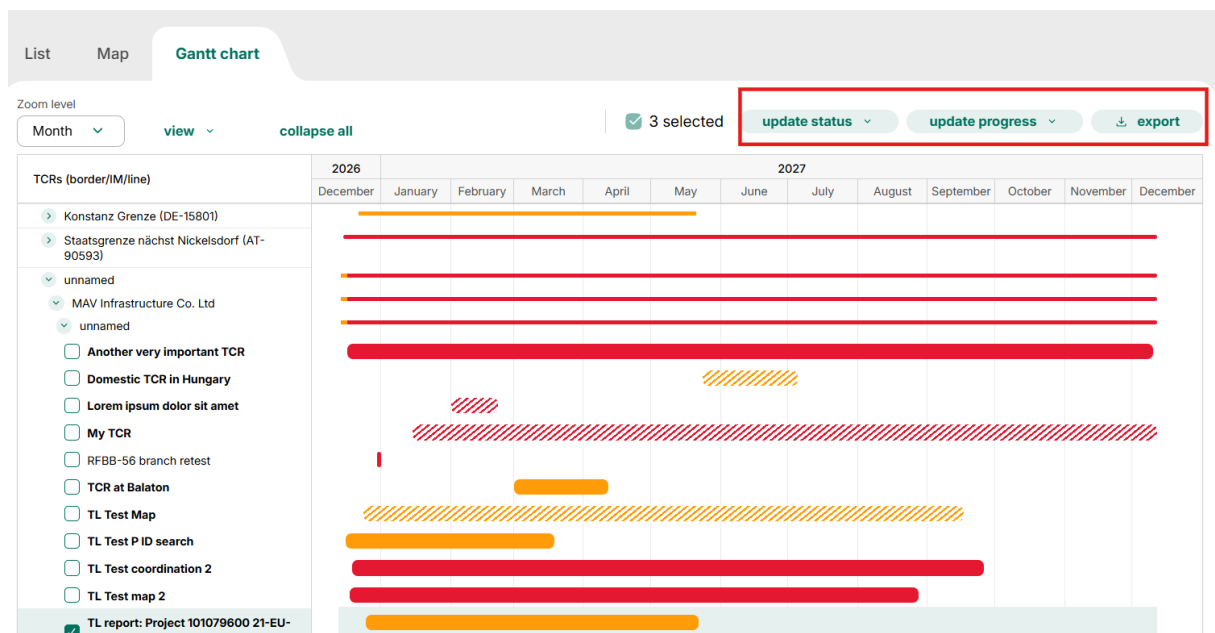
By expanding the compressed view, all TCRs within the respective section are displayed in ascending order based on their time, representing the affected segments by the TCR, the time span, the type of the TCR as well as the issuing IM of the TCR.

Badges are shown in the TCR list to indicate the progress status: To-do, Agreed, Disagreed, Waiting.



The Chart area displays 10 border rows per page. The user can scroll horizontally and vertically and manually reorder borders by drag-and-drop.

Users can select TCRs similarly to a file explorer (click, shift-click, ctrl-click) for bulk actions like exporting data. By selecting the desired TCRs, the user can perform three bulk actions—update status, update progress, or export—by clicking the corresponding button.



Clicking on a TCR bar, it displays a tooltip modal with key information, from which the user can access the TCR details via the View Details button. By clicking the Actions button, the user can perform quick actions, like agree, disagree on the TCR or leave a comment on the selected object.

**TL Test Map** ✕

Project ID planned

-

Start and end location ↔

Miskolc-Rendező - Szerencs


Date periodical

2026-12-19T10:00 UTC +1 -

2027-09-18T13:00 UTC +1

Classification	Total closure	Affected volume
Medium	No	-

Calendar

 4

Affected IMs

-

view details
actions ▼

## 5.5 Import and export functionalities

### 5.5.1 Import

CPT allows users to create or update objects in bulk by importing supported file formats. The import process is the same for all object types and follows a guided, step-by-step flow.

#### Supported Object Types and Formats

Users can import objects using **Excel (.xlsx)** for:

- **CP (Catalogue Path)**
- **PA (Path)**

For each object type, an **Excel import template** is available. The second row of the import template provides additional guidance by indicating whether a field is mandatory or optional and by defining the accepted data format for each field. The template can be downloaded:

- From the **Recently Imported** page of the respective object type, or
- During the import flow via the **download excel import sheet** button.

**Recently imported Paths** [download excel import sheet](#) [import PAs](#)

Results from last import at **2026-02-03T09:26** 1 Inserted | 0 Updated | 0 Skipped

PA ID	Title	Start location	End location	Status	State
PA-0055-4Y6JNZ3S...	Budapest-Keleti - Mosc	Budapest-Keleti	Mosonmagyaróvár	Planned	● Inserted


Items per page: 10 | 1 - 1 of 1 | < >

To start an import:

- Click **Import <Object Type>**.
- If a company accesses the import screen for an object type **for the first time** (no previous imports), an **empty state screen** is displayed.

**Recently imported TCRs** [download excel import sheet](#) [import TCRs](#)

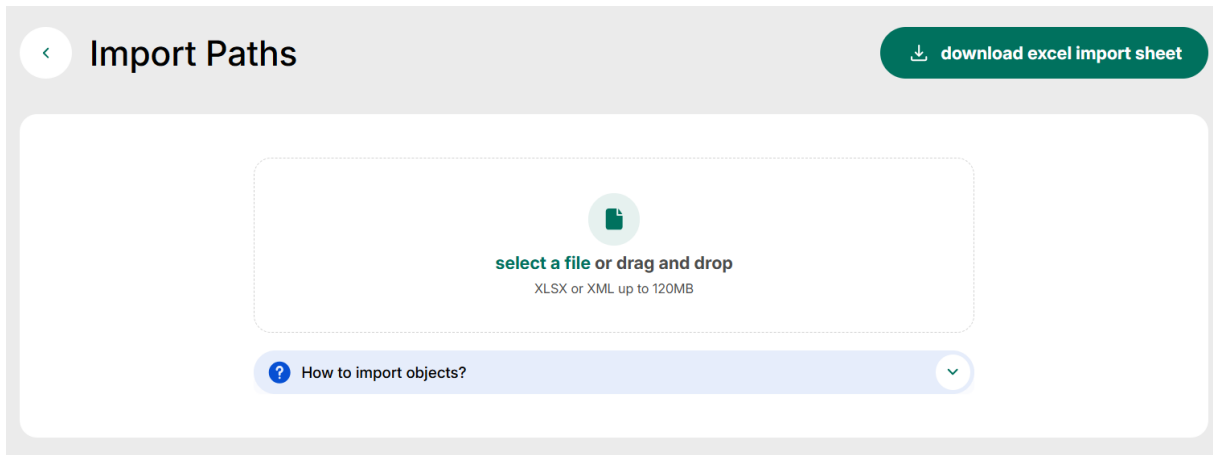
0 Inserted | 0 Updated | 0 Skipped



Your imported TCRs will be displayed here  
Start importing TCRs.

- Select a file or drag & drop it into the browser.

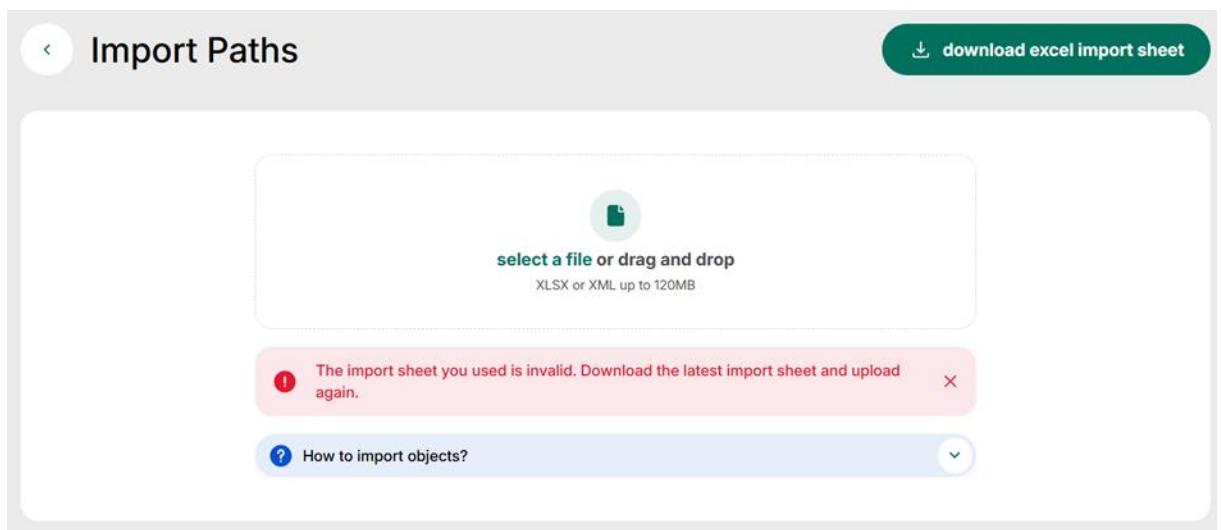
The selected file must follow the required structure and format for the chosen object type.



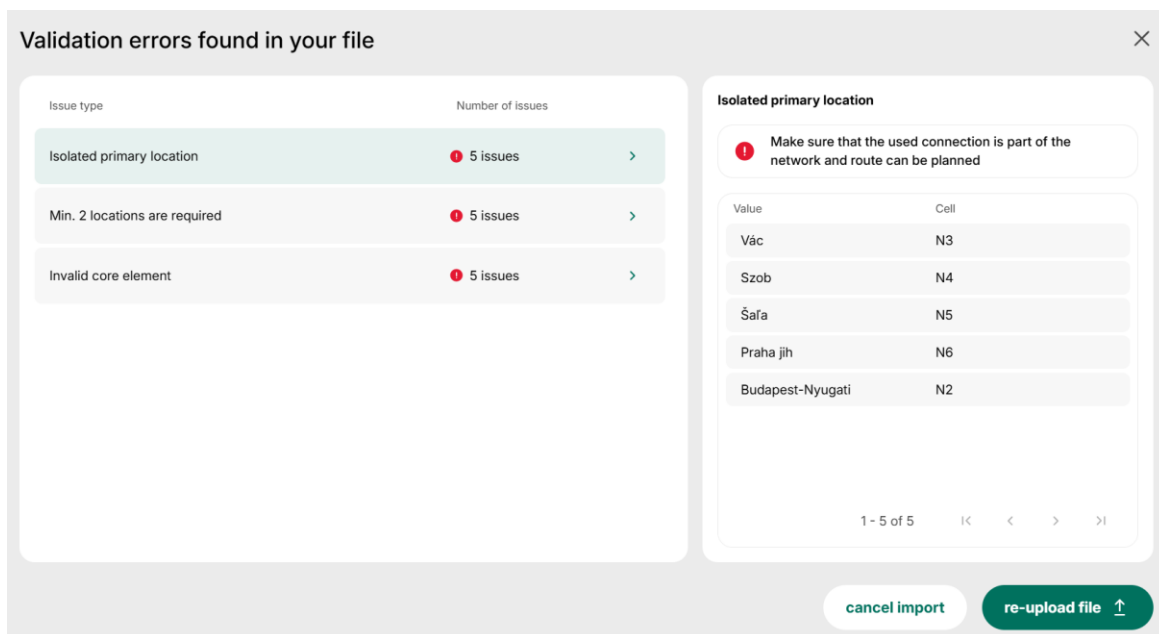
After selecting the file, it is uploaded and the tool immediately checks the file for **syntax and structural errors** (for example: missing columns, merged cells, invalid structure).

If syntax errors are detected:

- An **error screen** is displayed.
- Typical user errors are listed below the drag & drop area.



- Detailed data issues can be reviewed via the **Import Issues** pop-up.



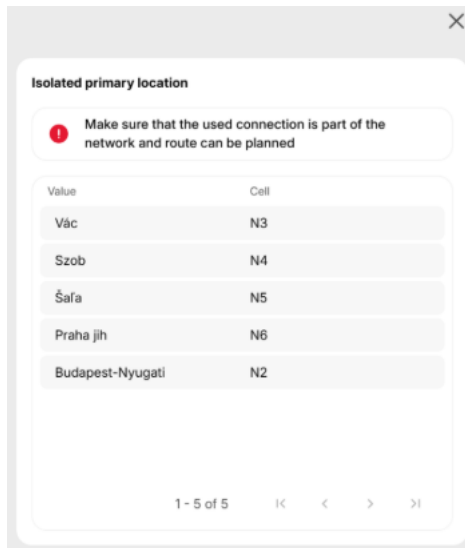
If issues are found:

- They must be corrected in the file.
- The file must then be **reuploaded**.

Because import files may contain thousands of records, the tool groups issues by **issue type**. For each issue, the error table shows:

- **Value** – The problematic value (or N/A if a mandatory value is missing)
- **Cell** – The Excel cell where the issue occurs

The right-hand sidebar indicates the affected column or field.

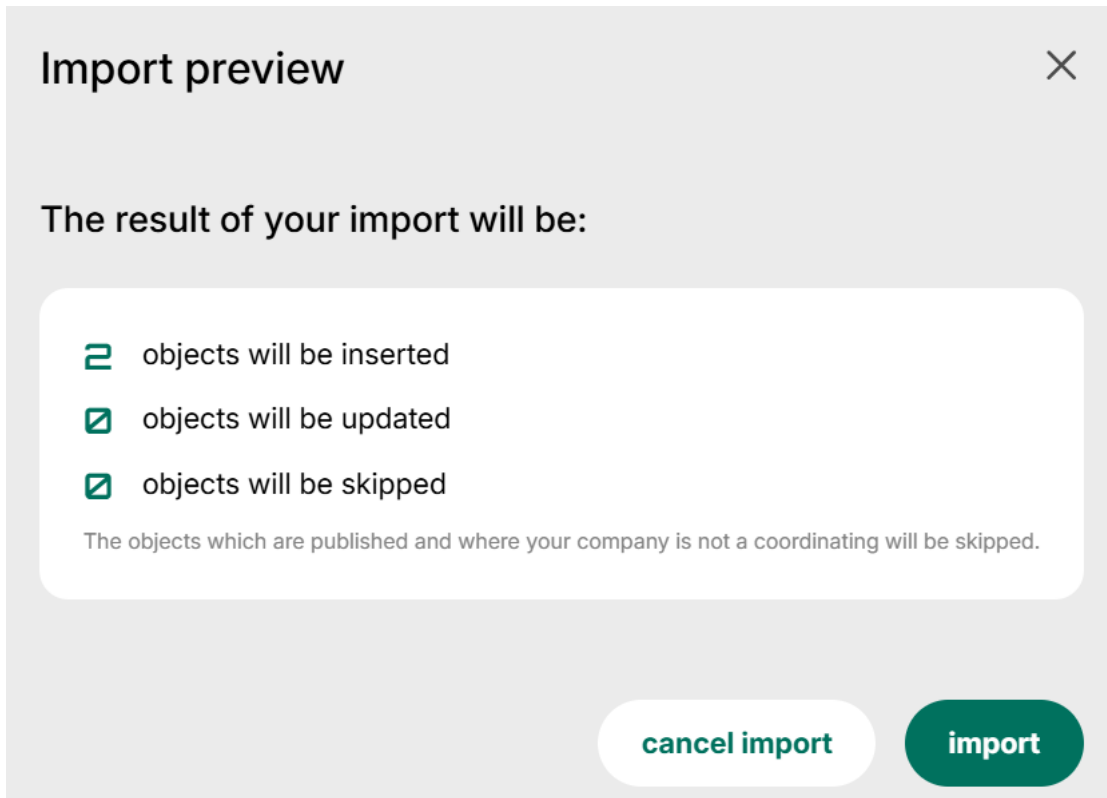


If no issues are found:

- Review the **import results**.
- Click **Import** to start the process.

CPT matches objects based on their **TSI ID** and displays a summary:

- **Inserted** – New objects to be created
- **Updated** – Existing objects to be updated
- **Skipped** – Existing objects that will not be updated



### 5.5.1.1 Import execution and notifications

- The import itself runs **asynchronously**.

While an import is in progress:

- The import status screen is displayed.
- The **Import button is disabled** for that object type.
- Parallel imports for the **same object type** are not allowed within one company.

After completion:

- The imported data is available in the tool; the object is created.
- The final import results are shown on the import page.

### Recently imported Paths

[download excel import sheet](#)
[import PAs](#)

Results from last import at  
2026-02-03T14:12

2 Inserted
0 Updated
0 Skipped

PA ID	Title	Start location	End location	Status	State
PA-0055-4Y6JNZ3D...	Budapest-Keleti - Mosc	Budapest-Keleti	Mosonmagyaróvár	Planned	● Inserted
PA-0055-4Y6JNZ3D...	Budapest-Keleti - Mosc	Budapest-Keleti	Eger	Planned	● Inserted

Items per page 
 1 - 2 of 2
 
 < > << >>

### 5.5.1.2 General Import Guidelines

The following rules apply to **all imports**:

- Supported formats: **.xlsx**
- Each object type must be imported in a **separate file**
- Objects from **multiple timetable periods cannot be combined** in one file
- Exported files have the **same structure** as import files
- Exporting at least one object provides a valid import structure
- The import sheet structure must remain unchanged:
  - Column names must not be renamed
  - Cells and columns must not be merged
  - Formulas are not supported
  - Exceptions: the column order may be changed, and the file may include additional columns. Such additional columns are skipped during the import process and do not affect the import result.
  - Import files are not case sensitive
  - Time format: hh:mm
  - Date format: dd/mm/yyyy (ISO 8601). The values must be entered as Excel date values, not as text. The displayed date format depends on the user's local Excel and operating system settings (e.g. MM/DD/YYYY or DD/MM/YYYY).
- If applicable, error messages are shown after the initial file upload
- **File size limit: 120MB**

### 5.5.2 Export

CPT allows users to export object data either in bulk or individually. Exports can be initiated from list views or detail views, depending on the use case. The export process is asynchronous, meaning the export is processed in the background and may take some time to complete. Users do not need to wait on the screen and can continue performing other tasks in CPT while the export is being generated. Notifications are sent once the export is ready for download.

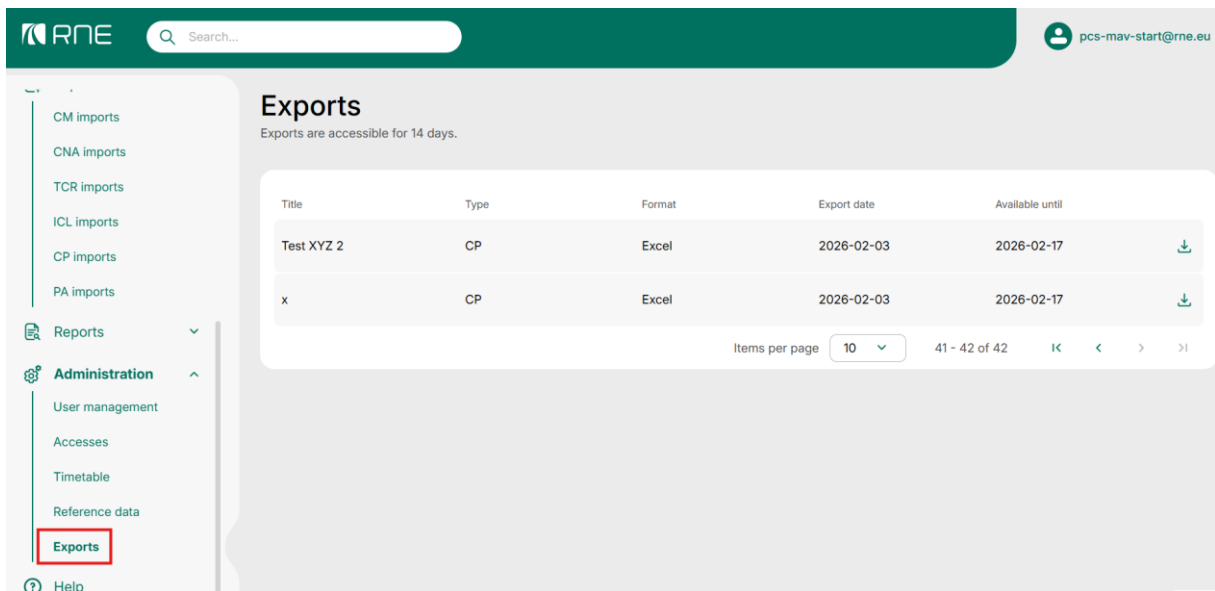
The following object types can be exported from CPT:

- TCRs
- CPs (Catalogue Paths)
- PAs (Path Applications)

Exported files are stored for **14 days**, after which they are automatically removed.

#### Export Process:

- All exports are processed asynchronously.
- Completed exports can be downloaded from the Administration > Exports page.

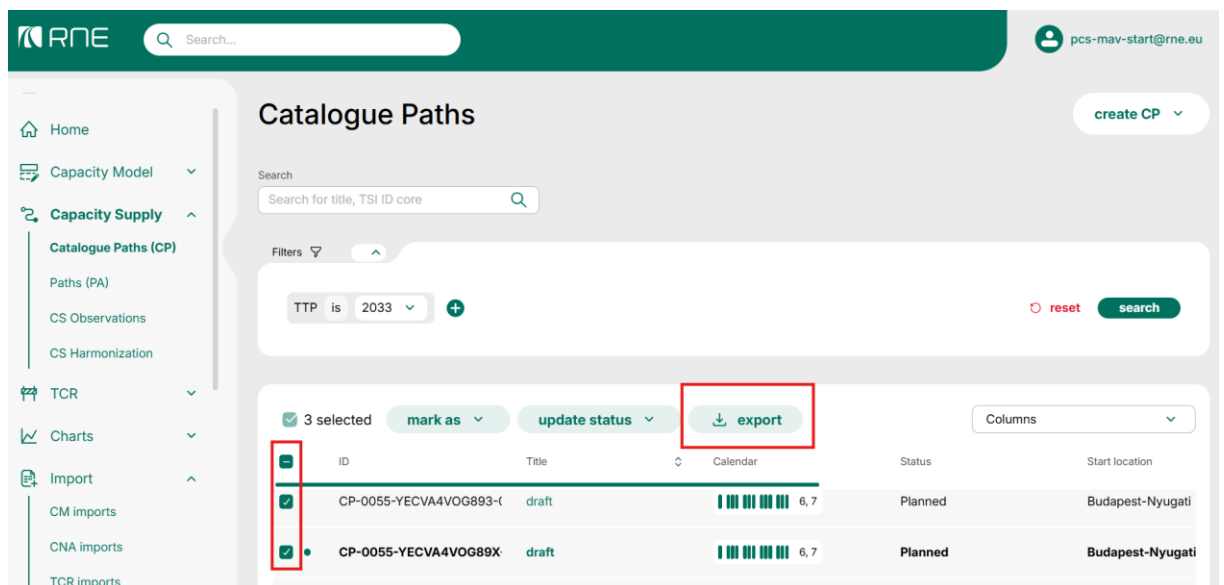


#### 5.5.2.1 Bulk Export

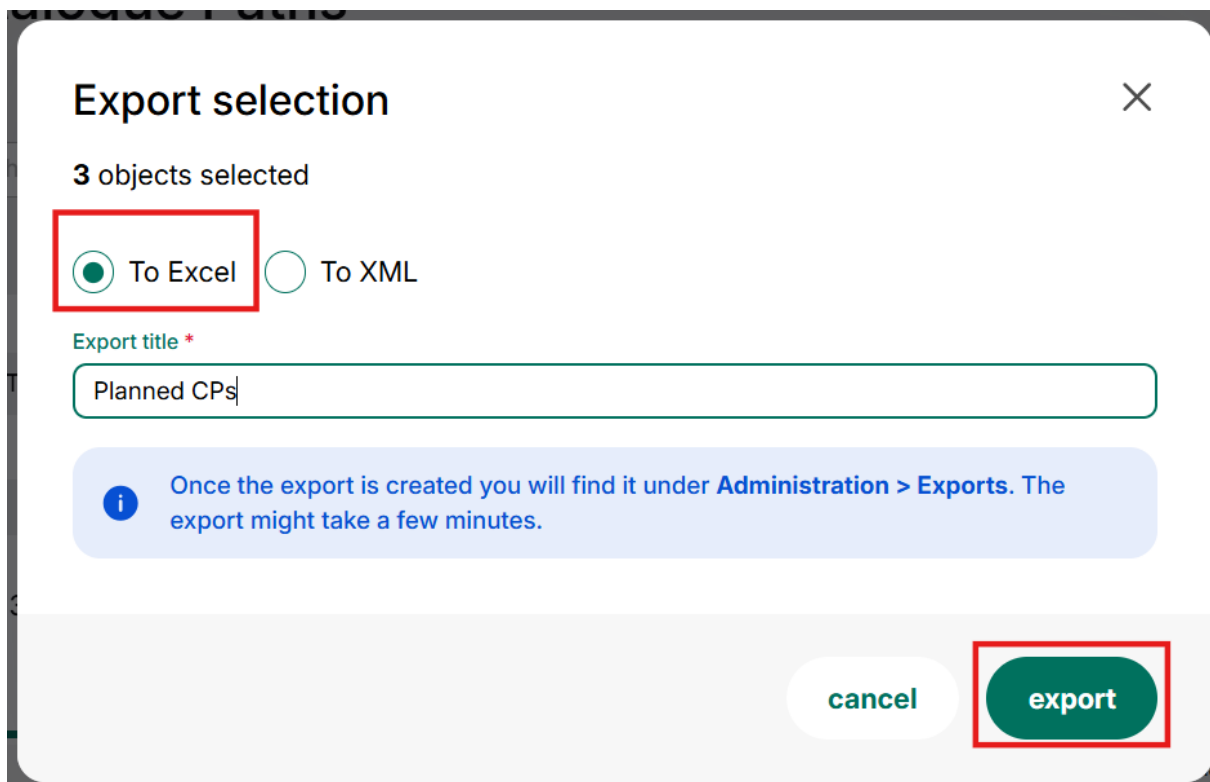
Bulk exports are performed from the **list views** of object types.

To export multiple objects:

- Navigate to the relevant object **list view**.
- Optionally apply filters using **Quick Search** or the **Query Builder**.
- Select the objects to export using the checkboxes:
- Select individual objects, or
- Use the header checkbox to select all visible objects.



- Click **Export**.
- Select the export format (**Excel**).
- Enter a file name.
- Click **Export** to start the process.



**Limitations:**

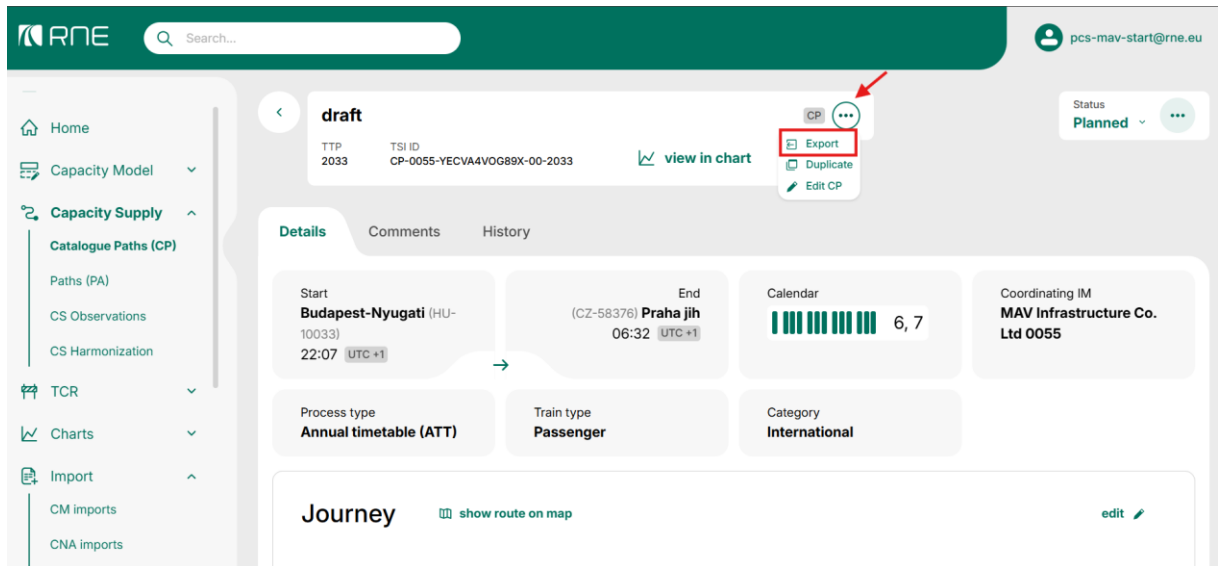
- A maximum of **1,000 objects** can be exported at once.
- If this limit is exceeded, an error message is displayed.

**5.5.2.2 Individual Export**

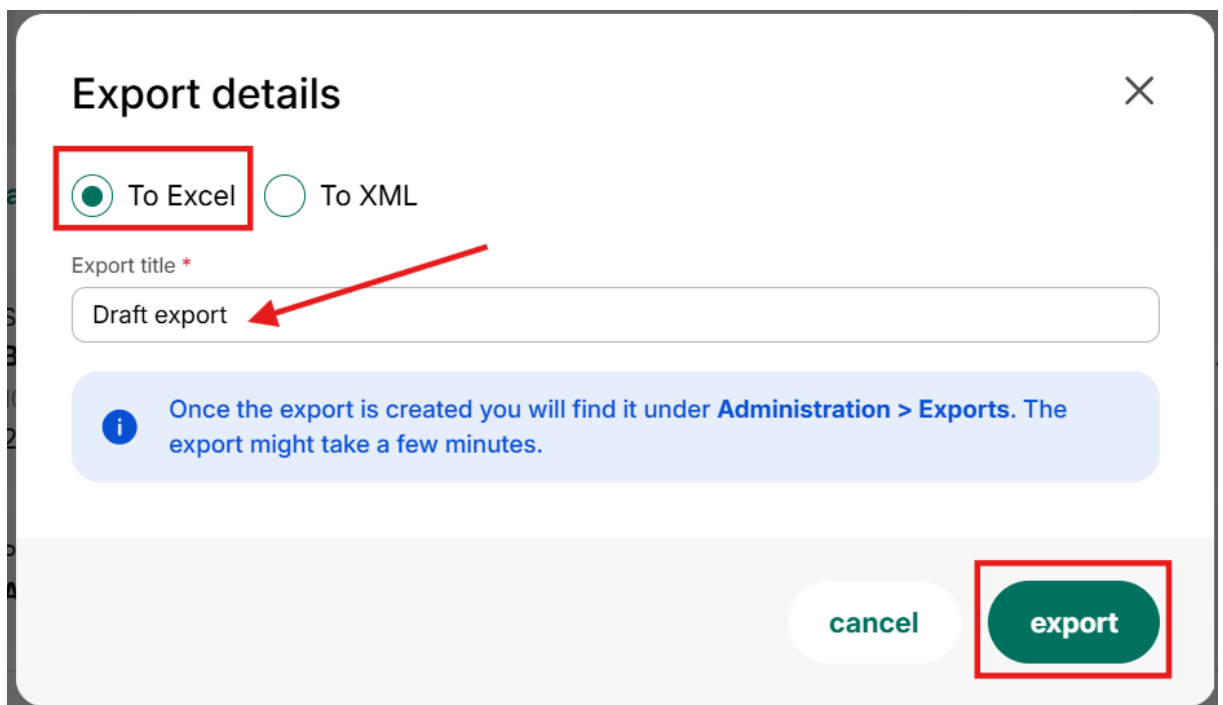
Individual exports are initiated from the **details view** of an object.

To export a single object:

- Go to the list view and select an object by clicking on the title to open the **Details view**.
- Click the **options icon** next to the object name.
- Select **Export**.



- Choose the export format (**Excel**).
- Enter a file name.
- Click **Export** to start the process.



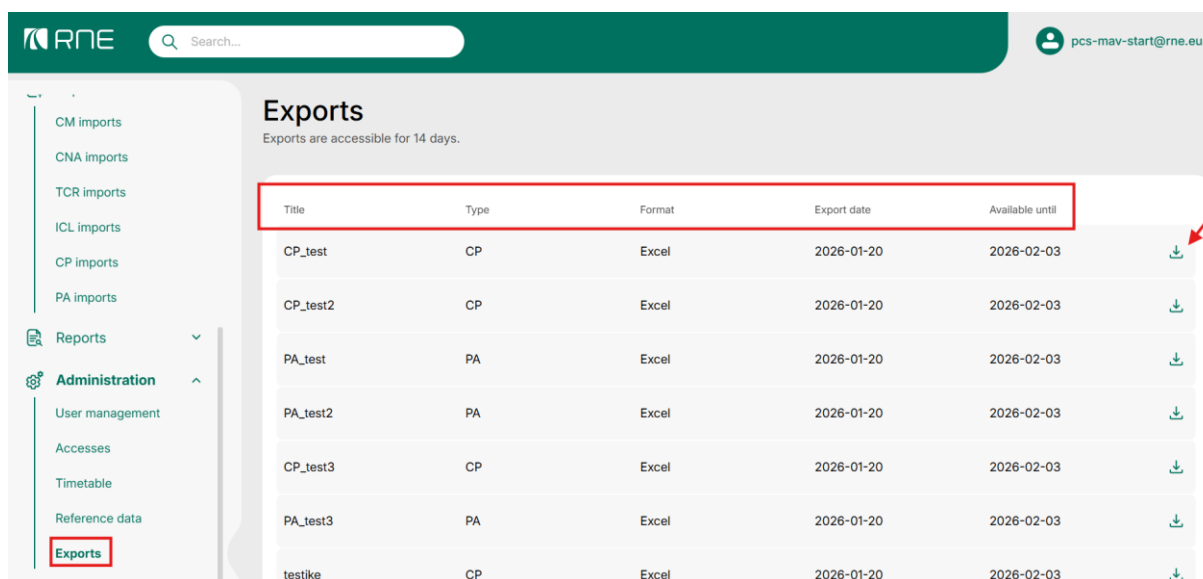
- Once the export is created you will find it in the Export list under Administration > Exports. The export might take a few minutes.

### 5.5.2.3 Exports List Page








The **Exports** page provides an overview of all available export files within the Company. Exports are **company-wide**, not user-specific, and standard access control applies.

The exports table contains the following columns:

- **Title** – File name defined by the user
- **Type** – Object type and scope (single object or list)
- **Format** – Excel
- **Export date** – Date when the export became available
- **Available until** – Expiry date (14 days after creation)
- **Download** – Download icon for retrieving the file (clicking on it will download the original file)



The screenshot shows the RNE Exports page. The header includes the RNE logo, a search bar, and the user profile 'pcs-mav-start@rne.eu'. The left sidebar lists navigation options: CM imports, CNA imports, TCR imports, ICL imports, CP imports, PA imports, Reports, Administration (expanded), User management, Accesses, Timetable, Reference data, and Exports (highlighted). The main content area is titled 'Exports' and notes 'Exports are accessible for 14 days.' Below this is a table with the following data:

Title	Type	Format	Export date	Available until	
CP_test	CP	Excel	2026-01-20	2026-02-03	
CP_test2	CP	Excel	2026-01-20	2026-02-03	
PA_test	PA	Excel	2026-01-20	2026-02-03	
PA_test2	PA	Excel	2026-01-20	2026-02-03	
CP_test3	CP	Excel	2026-01-20	2026-02-03	
PA_test3	PA	Excel	2026-01-20	2026-02-03	
testike	CP	Excel	2026-01-20	2026-02-03	

## 6 Reports & Statistics – Not implemented yet!

## 7 Help and support - Not implemented yet!

## 8 Appendices

*By clicking on the title, the user can access the document(s) below:*

- [User Manual documents and videos](#)