

## Loco type as train parameter

Content

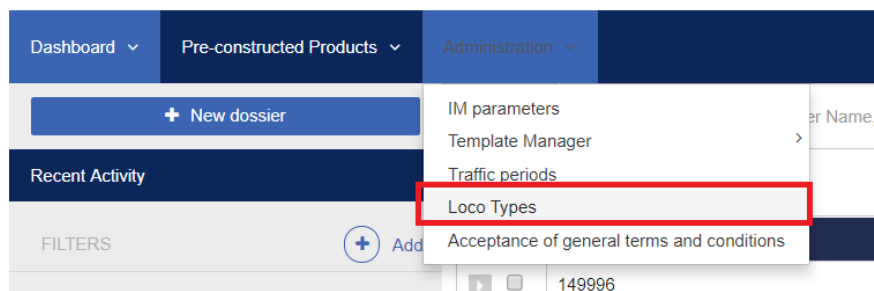
### INTRODUCTION

From version 1.9.x (Major Release 2017) the loco types are the part of the common train parameters defined per path section that describes traction details. An administration area is introduced to PCS where the IMs can prepare their loco types for further usage in the train parameters. As a result the former free text field "Loco type number" of the traction details has been replaced with a list. Applicants can select locos only from those that are published by the particular IM.

The aim of this documentation to show where to find the overview of the published locos, how to enter them to the dossier, how to copy as a part of the train parameters and the impact on the carry forward function.

### WHERE TO FIND

Loco type table is available for Applicants and IMs as well under the administration menu, however only IMs can edit them, Applicants have read-only access.



Applicants can find a similar table to the national IM parameters and same as there they can filter the locos by the following criteria:

- Timetable period
- IM (Agency)
- Loco type number: This is a mandatory field and it has to be unique for each IM. It's recommended that this field contains the loco type series number that is a 4 digit element of the 12 digit UIC ID of the loco.
- National id: This is an optional field for the IMs where they can store their national identifiers coming from their application.

**Timetable period**  
 2019

Import loco types [+ Add loco type](#)

id	Agency	Loco type nu...	National id	Explanation	Type of Engine	Train cc system	Weight(t)	Length(m)	Traction max s...	Related perfor...	Multiple Unit
▼ Agency: SNCF-R											
▶ 9929	SNCF-R		08 ; B84500 ; 4506	B84500 ; Z284506 12 CAISSES EN UM2	Hybrid		450	220	160		Yes
▶ 9755	SNCF-R		20901 ; Z20900 ; Z2090024	Z20900 ; Z2N BI-COURANT-Z+4ZR+Z	Electric		242	104	140		Yes
▶ 9757	SNCF-R		21500 ; Z21500 ; Z215001	Z21500 ; 1 ZTER TRICAISSE	Electric		162	80	200		Yes
▶ 9758	SNCF-R		21502 ; 2 Z21500 ; Z215002	Z21500 ; 2 ZTER TRICAISSE	Electric		324	159	200		Yes
▶ 9759	SNCF-R	21503	21503 ; 3 Z21500 ; Z215003	Z21500 ; 3 ZTER TRICAISSE	Electric		486	238	200		Yes

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If an Applicant like to see the details of a single loco, just click on the arrow on the left side of the table and PCS will open the following view.

Import loco types + Add loco type

id	Agency	Loco type nu...	National id	Explanation	Type of Engine	Train cc system	Weight(t)	Length(m)	Traction max s...	Related perfor...	Multiple Unit
▼ Agency: VPE											
6919	VPE	1047		Taurus	Electric	EVM	86	20	160		No
<b>Agency</b>				VPE, Hungarian Rail Capacity Allocation Office							
<b>Loco type number</b>			1047								
<b>National id</b>											
<b>Explanation</b>				Taurus							
<b>Type of Engine</b>				Electric							
<b>Train cc system</b>				EVM							
<b>Weight(t)</b>				86							
<b>Length(m)</b>				20							
<b>Traction max speed(km/h)</b>				160							
<b>Related performance(kW)</b>											
<b>Multiple Unit</b>				No							

Please note that new loco types can be created anytime without restrictions by the IMs, however, a loco type could be deleted and edited only, if the loco type is not used in any dossiers.

## HOW TO USE

### Editing train parameters

Loco type had been already a part of the train parameters for a long time, however, the order has been changed. Formerly user saw the train weight, length, etc. and after that entered the traction information, now it is interchanged.

This how it looks like before adding any information to PCS. Please note that PCS preset automatically the traction mode with train traction and 1st unit in the group to save time for the user.

TRACTION DETAILS ✕ Remove

**Loco type number**  
 \*  
**Train cc system**

**Traction mode**  
 ✓  ✓  
**Train radio system**

+ Add another entry ↻ Reset pre-calculation

---

**Traffic type**

**Type of service**

**Train weight**  \* **Weight carriages set**  \*

**Train length**  \* **Length carriages set**  \*

**Train max speed**  \* **Planned speed**

As it was mentioned before the user can select locos from the list only from those that were published by the IM. It works similar to the operation point search, meaning the user can start typing and PCS will offer the possible results. User can search by the loco type number or by the explanation.

TRACTION DETAILS

**Loco type number**  
 \*  

- 102; A25
- 1046; Szócske
- 1047; Taurus
- 105; A26
- 1063; Gigant
- 1163; 100-as Gigant

TRACTION DETAILS

**Loco type number**  
 \*  

- 1047; Taurus
- 1116; Taurus
- 1216; Taurus
- 182; Taurus

As a part of the loco type, several attributes are published to PCS like weight, length, top speed, and train control system. For more detailed information please check the [connecting documentations](#). It means that PCS automatically fulfills these fields and set the weight and length field. User can select a train control system from a list, but only from those that were published with the loco.

TRACTION DETAILS

<b>Loco type number</b>	1047; Taurus	<b>Traction mode</b>	Train traction	1st tract
<b>Train cc system</b>	Start typing...	<b>Train radio system</b>	Start typing..	
<b>Traction weight</b>	EVM	<b>Traction length</b>	20	
<b>Traction max speed</b>	160			

As before there is the possibility to define more locos for one train. To do this, please use the "Add new entry" option. There is another option next to this that is new. It's called **Reset pre-calculation**". This needs some explanation. As PCS is aware of the weight, length, when the user selects them from the list then PCS adds these values to train length and train weight. It also defines the train max speed based on the top speed of the locos. Of course these fields are still editable for the user, so it can be changed by them as before.

TRACTION DETAILS ✕ Remove

<b>Loco type number</b>	1047; Taurus	<b>Traction mode</b>	Train traction	1st traction uni
<b>Train cc system</b>	Start typing...	<b>Train radio system</b>	Start typing...	
<b>Traction weight</b>	86	<b>Traction length</b>	20	
<b>Traction max speed</b>	160			

+ Add another entry
↻ Reset pre-calculation

---

<b>Traffic type</b>		<b>Type of service</b>	
<b>Train weight</b>	86 ✓	<b>Weight carriages set</b>	*
<b>Train length</b>	20 ✓	<b>Length carriages set</b>	*
<b>Train max speed</b>	*	<b>Planned speed</b>	

Then the user has the possibility to define the values for the set of carriages. After this is ready the user does not have to change the values of the train manually. It's enough to click on the "Reset pre-calculation" and PCS will adjust the train values as it is presented on the image below.

TRACTION DETAILS ✕ Remove

<p><b>Loco type number</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">1047; Taurus <span style="float: right;">▼ ✓</span></div> <p><b>Train cc system</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">Start typing... ▼</div> <p><b>Traction weight</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">86</div> <p><b>Traction max speed</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">160</div>	<p><b>Traction mode</b></p> <div style="display: flex; justify-content: space-between; margin-bottom: 5px;"> <div style="border: 1px solid #ccc; padding: 2px;">Train traction <span style="float: right;">▼ ✓</span></div> <div style="border: 1px solid #ccc; padding: 2px;">1st traction uni <span style="float: right;">▼ ✓</span></div> </div> <p><b>Train radio system</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">Start typing... ▼</div> <p><b>Traction length</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">20</div>
--	---

+ Add another entry
↺ Reset pre-calculation

---

<p><b>Traffic type</b></p> <div style="border: 1px solid #ccc; height: 20px; margin-bottom: 5px;"></div> <p><b>Train weight</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">1686 <span style="float: right;">✓</span></div> <p><b>Train length</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">670 <span style="float: right;">✓</span></div> <p><b>Train max speed</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">160 <span style="float: right;">✓</span></div>	<p><b>Type of service</b></p> <div style="border: 1px solid #ccc; height: 20px; margin-bottom: 5px;"></div> <p><b>Weight carriages set</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">1600 <span style="float: right;">✓</span></div> <p><b>Length carriages set</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">650 <span style="float: right;">✓</span></div> <p><b>Planned speed</b></p> <div style="border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;"></div>
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As you can see the set of carriages values had been added to the loco values and train values had been calculated. Train max speed was also fulfilled automatically by PCS based on the top speed of the loco. As it was said before the user still has the possibility to edit these values if PCS made something wrong accidentally.

### Speed constraints

There are now three different fields that are dealing with the speed of the train or the designed path:

- Traction max speed (the top speed of the selected loco type)
- Train max speed
- Planned speed

With the development of the loco types, there are some rules that are introduced to the system at the same time.

- Loco type max speed must be equal or higher than the train max speed
- Train max speed must be equal or higher than the planned speed
- Loco type max speed must be equal or higher than the planned speed

PCS will give a clear indication if one of the rules is not fulfilled by the entered values.

TRACTION DETAILS ✕ Remove

<b>Loco type number</b>	1047; Taurus ✓	<b>Traction mode</b>	Train traction ✓	1st traction uni ✓
<b>Train cc system</b>	EVM	<b>Train radio system</b>	Start typing...	
<b>Traction weight</b>	86	<b>Traction length</b>	20	
<b>Traction max speed</b>	160			

+ Add another entry
↺ Reset pre-calculation

<b>Traffic type</b>		<b>Type of service</b>	
<b>Train weight</b>	1686 ✓	<b>Weight carriages set</b>	1600 ✓
<b>Train length</b>	670 ✓	<b>Length carriages set</b>	650 ✓
<b>Train max speed</b>	200 ✕	<b>Planned speed</b>	100

The value of Train max speed must be equal or lower than the Min traction speed.

### Copy loco type to other path section

Copying of train parameters is normal in PCS and formerly the traction details were also copied without any constraints. With the introduction of the published loco types in the system these are not free text entries anymore and there rules behind and those have an impact on the copy function too. When the user would like to loco types too to the selected path section, he should indicate similar to the activity types or location types.

## Copy parameters from Path section: FERENCVAROS (VPE, Hungarian Rail Capacity Allocation Office) ✕

⚠ Copying train parameters from Path section will clear up all existing parameters (common and IM) in ALL respective timetables in the dossier.

Select the path sections for which the data will be replaced

- Select all
- Select only my path sections

Copying options

- Common train parameters
  - Activity types
  - Location types
  - Loco Types
- IM Parameters

PaP ID:  
**RFC07PaP0001**

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**FERENCVAROS**  
★ VPE, Hungarian Rail Capacity Allocation

▼ Common Train Parameters

Activity type	Location types
Commercial stop	✓
<b>Comment</b>	

Please note that the loco types are behaving the same as the IM Parameters, meaning they can be copied only inside one IM territory, because it's likely that even the same loco is identified with another ID or name on the neighboring IM's network.

### LEGACY VALUES AND CARRY FORWARD

There will be dossiers still in the editable phase that were created before the introduction of the loco type feature. In this case, the old free text values would stay in the dossier as read-only values. If the user needs an update on the locos during the dossier editing, the old value should be removed and then a new entry should be added. The new entry will work then with the new feature and the loco can be selected from the list.

TRACTION DETAILS ✕ Remove

<p>Loco type number <input style="border: none; border-bottom: 1px solid #ccc;" type="text" value="189"/> ✓</p>	<p>Traction mode <input style="border: none; border-bottom: 1px solid #ccc;" type="text" value="Train traction"/> ✓</p>
<p>Train cc system <input style="border: none; border-bottom: 1px solid #ccc;" type="text" value="Start typing..."/></p>	<p>1st traction uni <input style="border: none; border-bottom: 1px solid #ccc;" type="text" value="1st traction uni"/> ✓</p>
<p>Train radio system <input style="border: none; border-bottom: 1px solid #ccc;" type="text" value="Start typing..."/></p>	<p>Train radio system <input style="border: none; border-bottom: 1px solid #ccc;" type="text" value="Start typing..."/></p>

**Traffic type** **Type of service**

Mostly passenger Applicants are impacted with this transition during the carry forward process. In order to support them as much as it is possible the following functions have been added to the carry forward.

- for dossiers that have **loco type number** system tries to find defined **loco type** for that loco type number for the target timetable period. If matching is found loco type is replaced
- for dossiers that have defined **loco types** there are 2 cases that are covered:
  - exists loco type for target timetable period with the same loco type number for the given agency -> it will be automatically replaced
  - not exist loco type for the next timetable period with the same loco type number for the given agency -> system offer view where user can choose with which one wants to replace the invalid one



Carry forward



Agency	Invalid loco type (Loco type number; National id)	Fix action
SNCF Reseau	TGVPOS; n/a	<input type="text"/>
Infrabel	15; n/a	<input type="text"/>

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▼ Details

**State:** Published  
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▼ Translations

No translations