

Drivers Gantt

Drivers Gantt Overview

Like the Vehicles Gantt, the Drivers Gantt also contains a vast amount of information. We start with an example:



Figure 1-1: A typical Drivers Gantt

For the Drivers Gantt, the left hand numbering is for drivers. Thus, each numbered row on the Gantt shows the work day for one driver. otherwise the graphic elements are very similar to those used in the Vehicles Gantt. The emphasis in this section will be on the element specific to the Drivers Gantt or elements having a different meaning.


The following graphic elements are the same as those for the Vehicles Gantt:

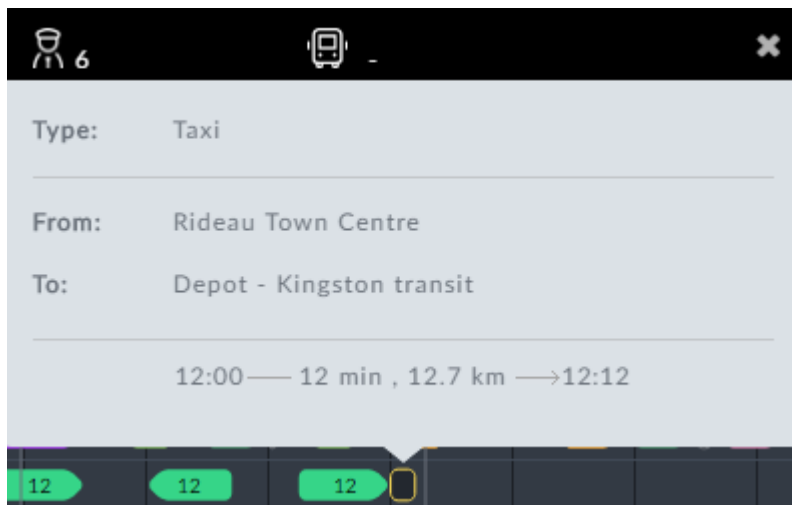
- » Service trip
- » Pre-trip and Post-trip
- » Pull out and Pull in
- » Deadhead

Up and down arrows have a different meaning in the Drivers Gantt: Here they indicate a **vehicle changeover** for the same driver. The changeover may be separated by other events, as we will see below.


There are two additional elements:

When a driver completes a service trip, he may be required to leave his vehicle and then go to a different location for his next trip or even to take a break. To get there, he may require transport such as a taxi or a shuttle.

The **Taxi** icon  denotes the driver movement. It looks similar to a Deadhead icon but it has a thin yellow frame. Left clicking it opens its information box:



The box indicates that a taxi or a shuttle is required.

 **Note** The use or otherwise, of Taxi icons is determined in the Preferences. See TBD.

The second additional graphic describes a **Split**:

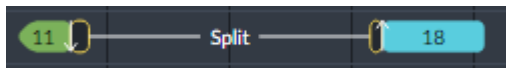



Figure 1-2: Split example

 **Note** The part of the driver's duty before a split is called his **first stretch** and the duty following the split, his **second stretch**.

To follow the narrative of **Figure 1-2**, we need to open the information box of each constituent element in order from left to right:

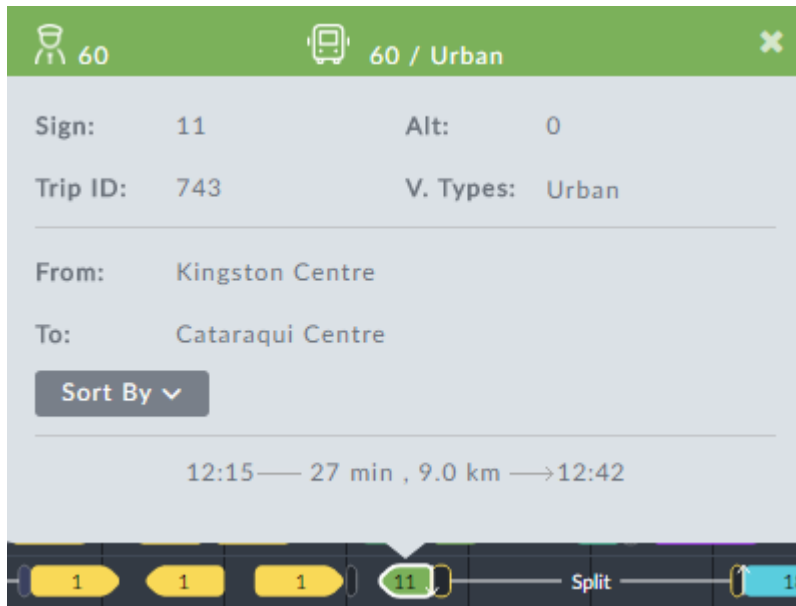


Figure 1-3: Last service trip of first stretch completed prior to split

The driver with ID as shown, has completed the service trip of **Figure 1-3**. In **Figure 1-2**, following the service trip element there is a down arrow. The driver has left the vehicle as first part of a changeover. The next element is a Taxi icon showing that the driver requires transport as shown in **Figure 1-3**:

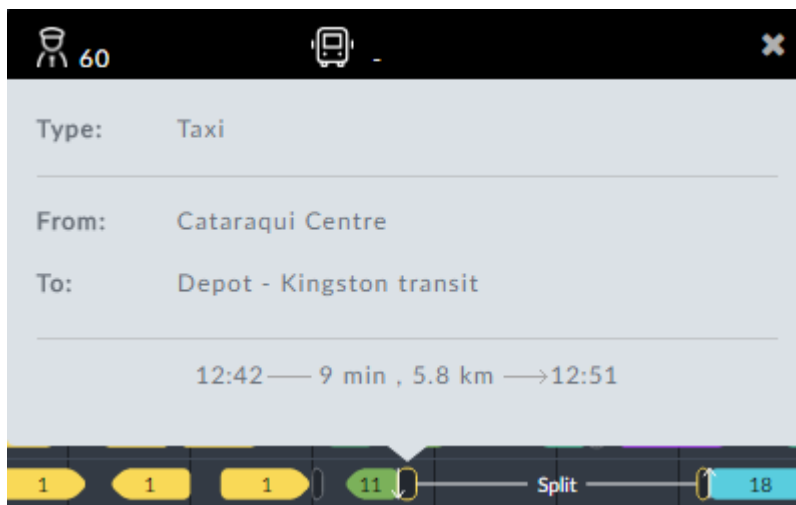


Figure 1-4: Taxi taken before split

Having arrived at the **To:** location, the driver goes off duty as shown in the split break. The driver's split break details are shown in the split break information box:

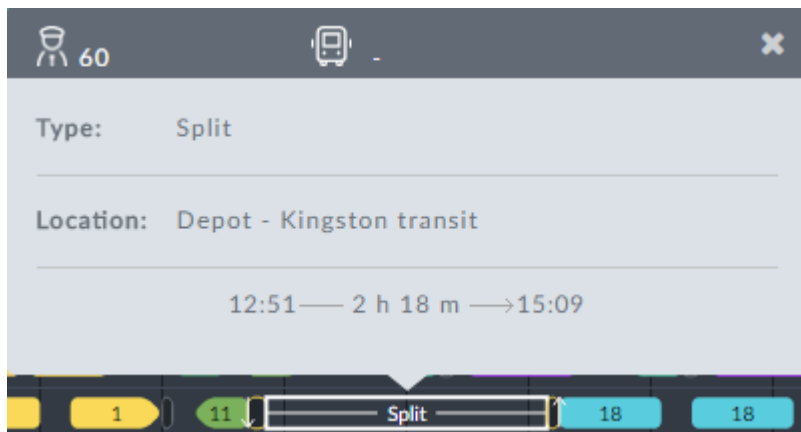
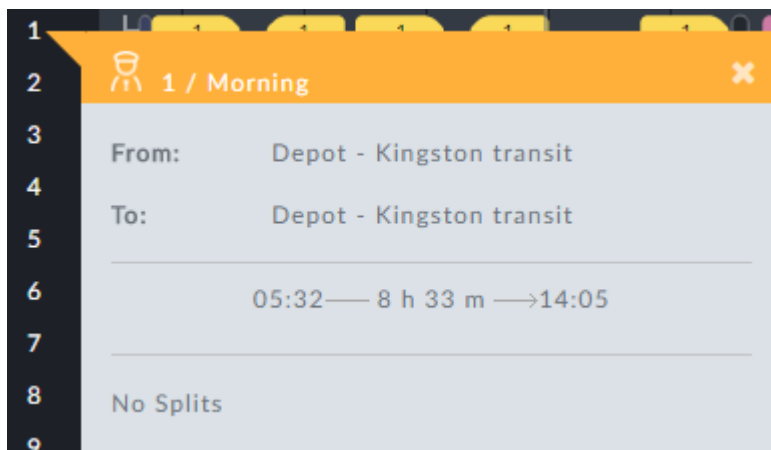


Figure 1-5: Split break information box

At the end of the break shown at the bottom of **Figure 1-5**, another Taxi icon is displayed indicating a requirement for transport to take the driver to his next duty trip. An up arrow shows the driver taking over the vehicle for the next service trip, the second part of his changeover. At this point, the procedure flow should be evident and we will not show all of the information boxes.

As for the Vehicles Gantt, each row number in the Drivers Gantt has an information box. For drivers there is a difference. Left-clicking row 1 shows the following information box:

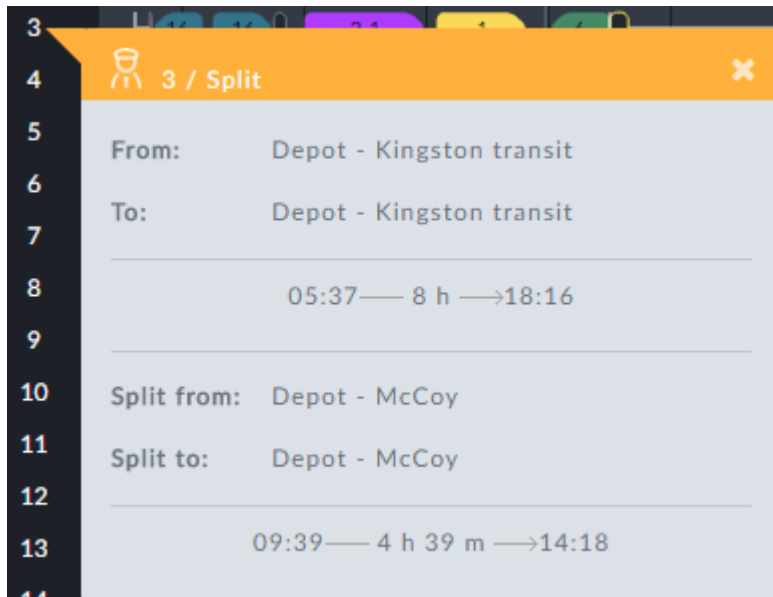


The only new item is the No Splits indicator, showing that the duty in the line above is continuous.

Note

The **Duty Type** shown is Operator defined.

If we left-click row 3, which has a split, the information box is different:



We have already encountered the contents of this box in the split narrative above: The driver comes on duty at the **From:** location and finishes his day at the **To:** location (often the same), starting and finishing as shown:

05:37 — 8 h —> 18:16

The worked hours shown in the middle are total worked hours less the split hours.

The lower **Split from:** / **Split to:** section shows the split break period only:

09:39 — 4 h 39 m —> 14:18

At this point, it is quite straight forward to follow the work day on the Drivers Gantt for any driver.

The Drivers Gantt in Detail

In this section we look at the driver specific information boxes in detail.

Workday Overview for a Driver

Left-clicking a row number pops up a work day overview for the driver:

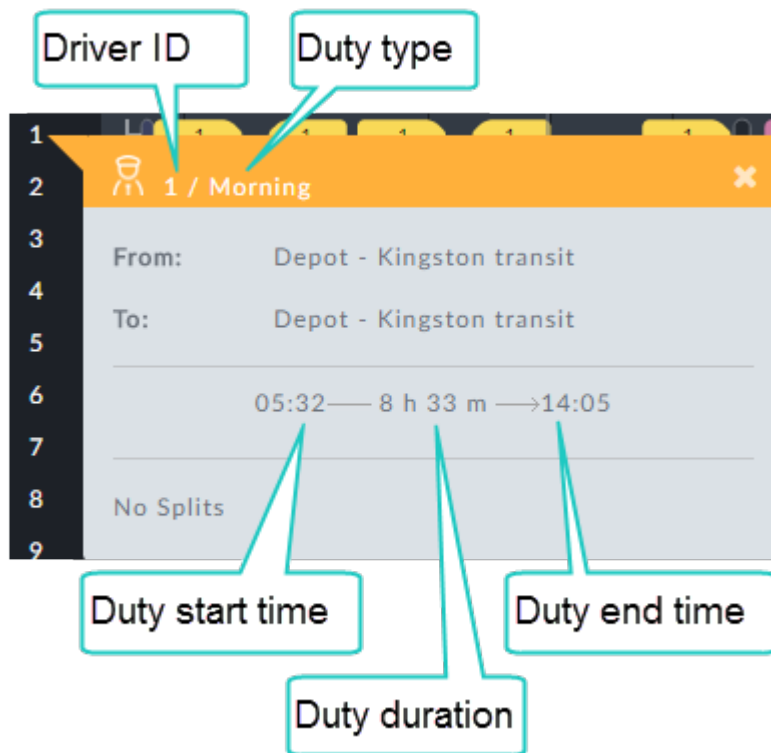



Figure 1-6: Workday Overview - no splits

 **Note** The **Duty Type** is Operator defined.

If the day's work is split by a rest period, the information box has extra details:

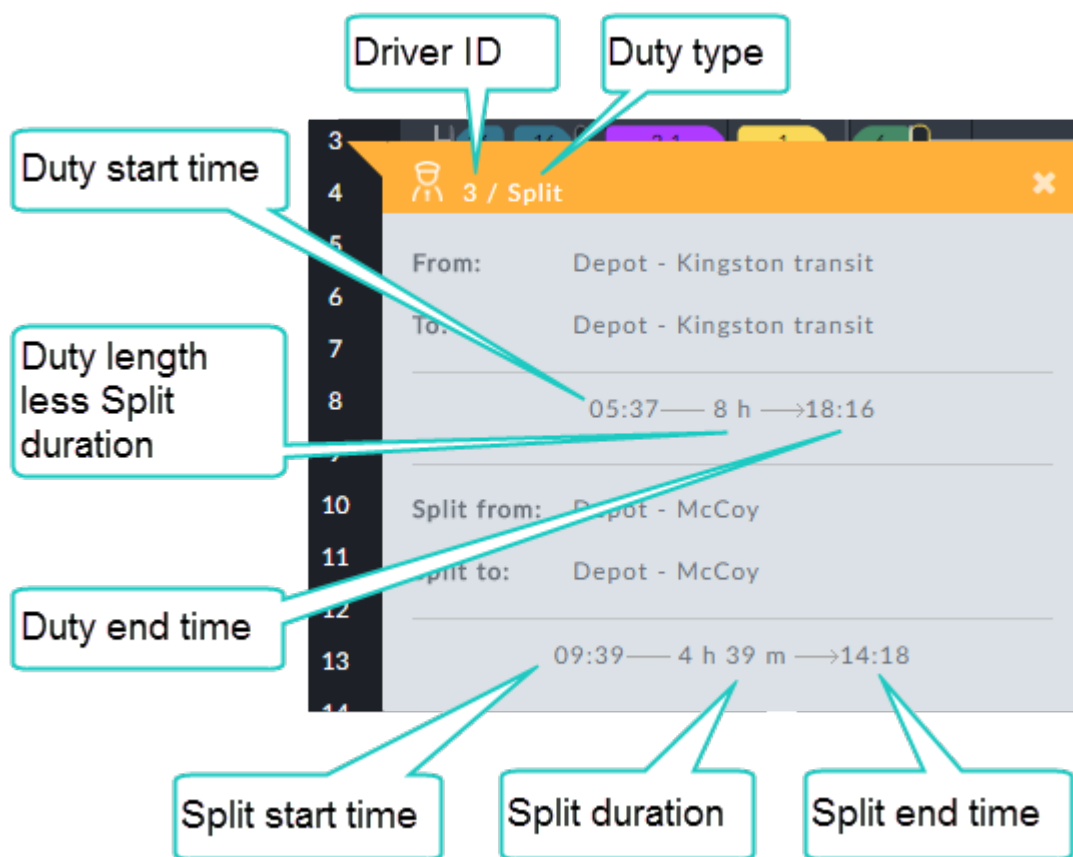


Figure 1-7: Split workday Overview

Table 1-1: Row overview information box

Information Box Item	Description
From:	Start location of the driver at the beginning of the work day
To:	The final location of the driver at the end of the work day
Split from:	Split start location
Split to:	Split end location

Split Information Box

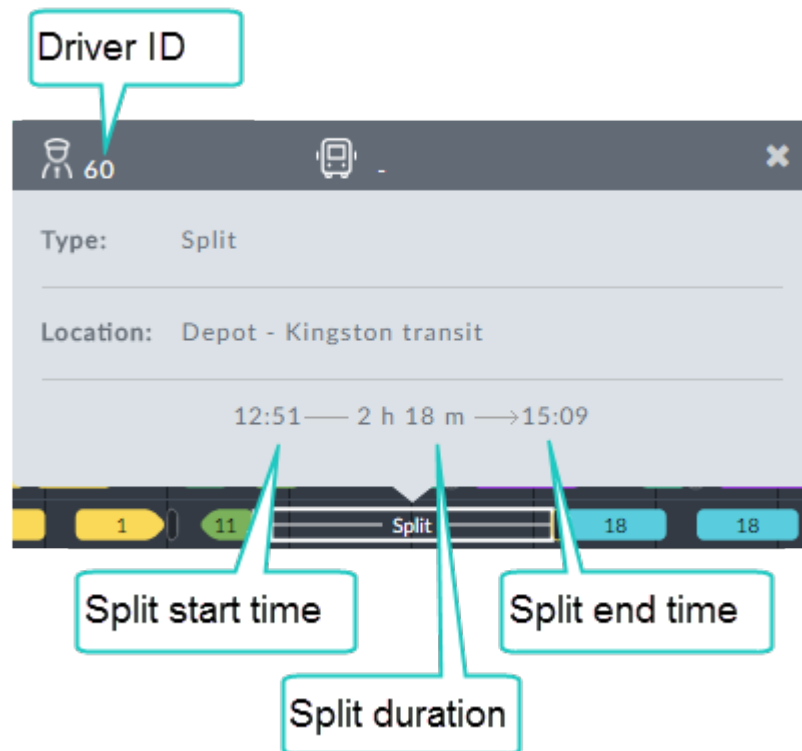


Table 1-2: Split information box

Information Box Item	Description
Type	Information box type
Location:	Split location - typically break location

Taxi

Recall that, when a driver completes a service trip, he may be required to leave his vehicle and then go to a different location for his next trip or even to take a break. To get there, he may require transport such as a taxi or a shuttle.

The taxi icon is used to represent this driver movement.

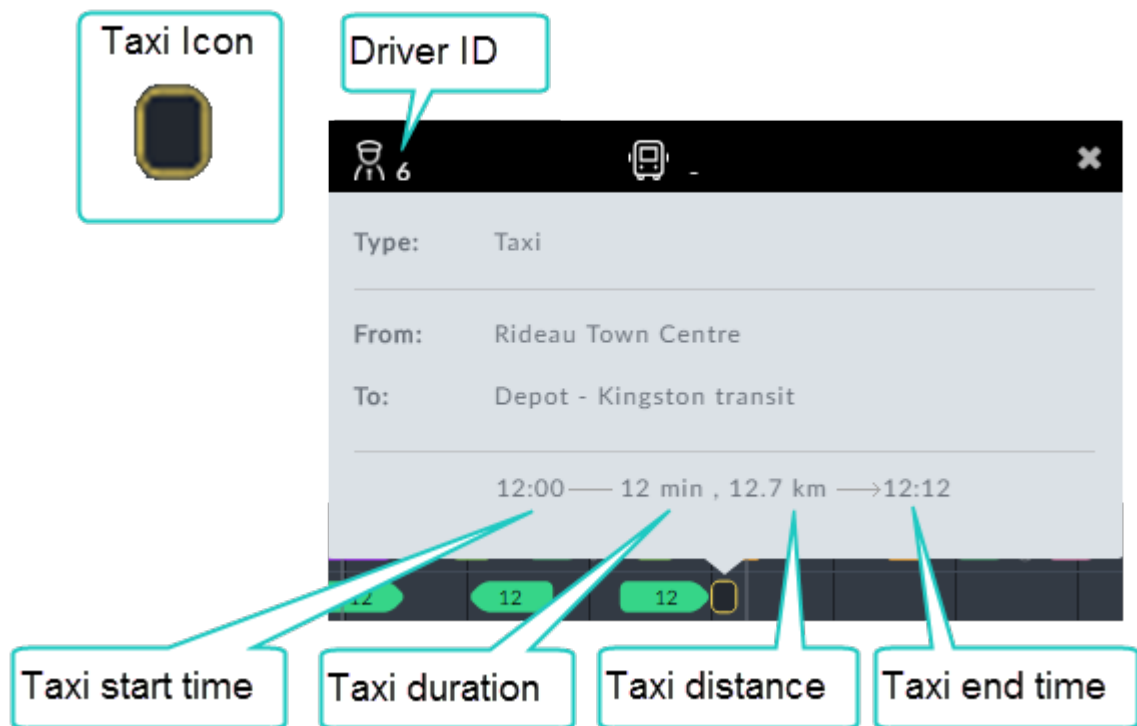


Table 1-3: Taxi information box

Information Box Item	Description
Type	Information box type -Taxi
From:	Taxi start location
To:	Taxi end location

Filtering the Drivers Gantt


We will use the following Vehicles Gantt to illustrate the filters:



Figure 1-8: Drivers Gantt to illustrate filters

Clicking the filter button opens the filter selection window:

Clear All

 Duties

Duty Type:

Search for Duty Types

Duration:

Select

Between

00 : 00

-

00 : 00

Duty Includes:

Changeovers

No

Yes


Splits

No

Yes

Expert:

ⓘ

 Trips

Vehicle Type:

Urban

Interurban

Sign:

Search for Signs

Route Groups:

Search for Route Groups

Depots:

Search for Depots

Expert:

ⓘ

Cancel

Apply

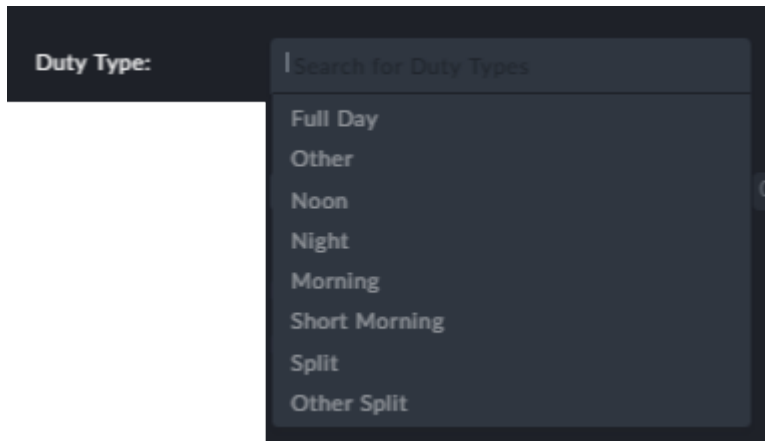


Whenever you choose a filter click **Apply** to put it into effect.

Filter by Duties Characteristics

Duty Type

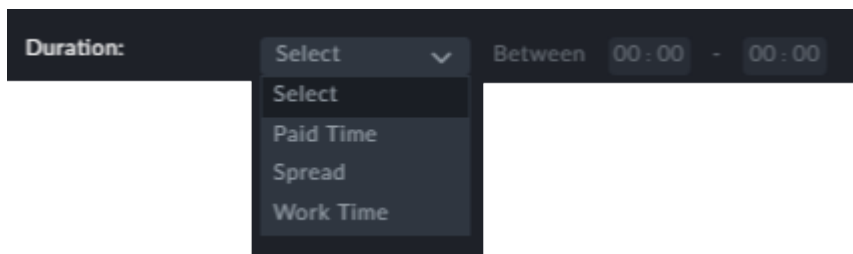
Clicking the **Duty Type** field opens a drop list of available duty types. (Duty types are defined using the **Duty Types** preference). You may choose one or more from the list:

A screenshot of a software interface showing a 'Duty Type' dropdown menu. The menu is open, displaying a search bar at the top with the text 'Search for Duty Types'. Below the search bar, a list of duty types is shown: 'Full Day', 'Other', 'Noon', 'Night', 'Morning', 'Short Morning', 'Split', and 'Other Split'. The background is dark, and the menu items are in a lighter color.

For our example we will choose Morning and Short Morning.

Duration

Clicking the **Duration** field opens a drop list of work types. You may choose one or more from the list. In addition you may set a shift duration range.

A screenshot of a software interface showing the 'Duration' field. The field is a dropdown menu with the text 'Select' and a downward arrow. The dropdown menu is open, displaying a list of work types: 'Select', 'Paid Time', 'Spread', and 'Work Time'. To the right of the dropdown menu, there is a 'Between' field with two time inputs: '00 : 00' and '00 : 00'.

For our example we will choose Work Time between 4 to 10 hours.

Duty Includes

Here you can specify whether changeovers and split duties are allowed. We will set **Changeovers** to Yes and **Splits** to No.

Filter by Trip Attributes

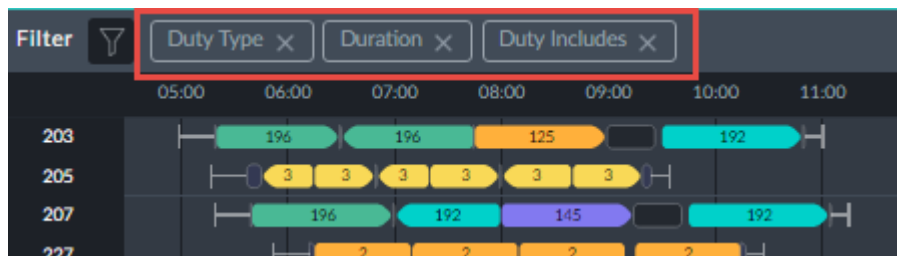
The trip attributes (Vehicle Type, Sign, Route Groups and Depots) work the same way here as they do for the Vehicles Gantt. See [Filtering the Vehicles Gantt](#). For the purposes of our example, we will leave these items "as is".

Here is the result of our filter:



Points to note:

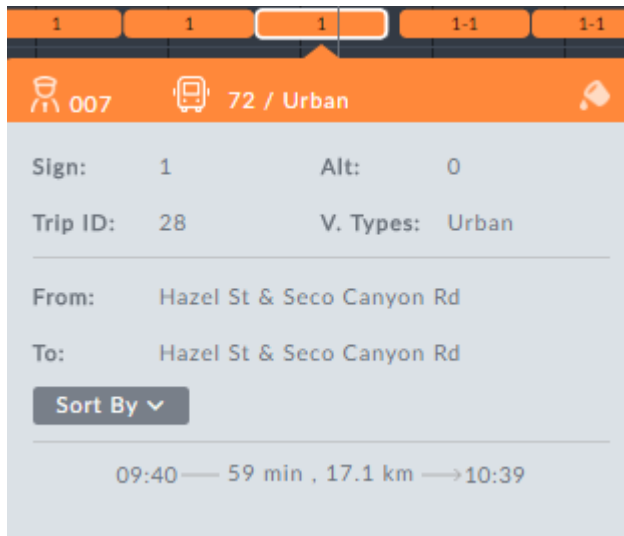
- » At the top left corner of the window there is a filter indicator (in the red rectangle):



- » Apart from telling you what filters are in use, you can click them to selectively cancel them
- » Filters are cumulative: In the example, each of the filters shown add additional restrictions

Sorting the Drivers Gantt

Recall the service trip information box:



Clicking the **Sorted By** button opens the following pick list:

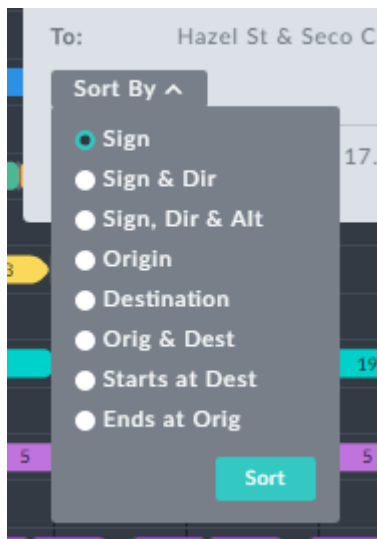


Figure 1-9: Display sort options

The usage is the same as that for [Sorting the Vehicles Gantt](#).