



Absolute Trip Delays

Work-flow to Use Absolute Trip Delays

- » Use **Load Template** to set up and modify the preference for a wide variety of conditions
- » Repeat **Load Template** for additional instances of any template




Preference Overview

This preference sets a maximum overlap time  an associated penalty for allowing overlap. The penalty increases with the overlap time, from 1 min. to the maximum you set.

A real-life schedule with trip overlaps is generally, not allowed . The preference is intended for testing "What if?" scenarios. For example, if the Duties, Vehicles and Operating Cost KPIs show a significant improvement there might be a case for relatively small manual adjustments to the Vehicles schedule as illustrated in the example below.

Templates Available from Optibus

Table 1-1: Templates Summary

Template Name	Purpose	Reference
Overlap - general	Sets a maximum overlap time  and an associated penalty for allowing overlap. The penalty increases with the overlap time, from 1 min. to the maximum.	Overlap - general
Overlap - for route group	Sets a maximum overlap time  and an associated penalty for allowing overlap for  minated route group. The penalty increases with the overlap time, from 1 min. to the maximum.	Overlap - for route group

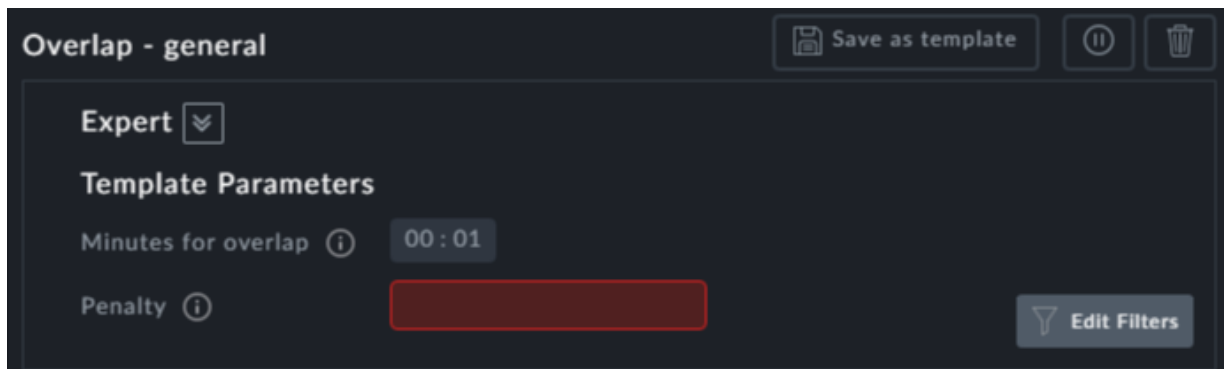
Overlap - general

Purpose:


Sets a maximum overlap time and an associated penalty for allowing overlap. The penalty increases with the overlap time, from 1 min. to the maximum.

Prerequisites: None.

Opening Dialog:

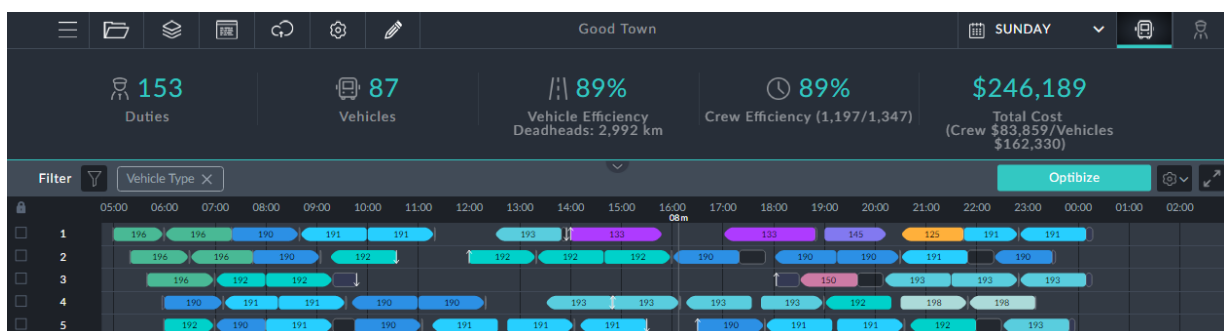


Points to note:

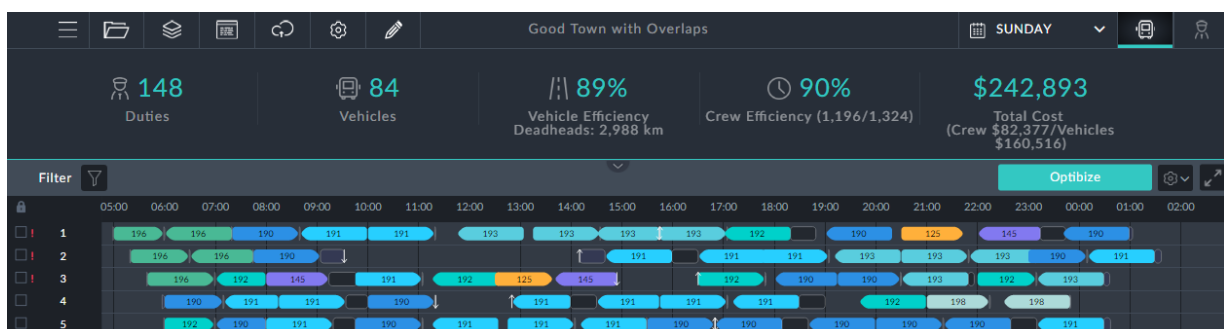
The Penalty field is mandatory. 

Example:

Here is a segment of a Vehicle Gantt for the example:



We will allow an overlap on 10 minutes with a penalty of 20 for interurban trips. Here is the same segment after optimization:



Notice red exclamation marks to the left most of the blocks. They indicate overlaps. If for example we click block 3, the information box tells us what has happened:

The screenshot shows a software interface with a list of blocks on the left and a detailed view of block 3 on the right. The list on the left has three items, each with a checkbox and a red exclamation mark. The detailed view for block 3 is titled '3 / Interurban' and contains a 'Warnings' section with two bullet points. Below the warnings, it shows 'From: Heller Cir & Edgehurst Ln' and 'To: Heller Cir & Edgehurst Ln'. At the bottom of the detailed view, there is a timeline showing '05:39 — 18 h 57 m —> 00:36'. The background of the interface shows a grid of colored blocks with numbers like 196, 192, 145, 191, 192, and 125.

3 / Interurban

Warnings

- Overlapping of 2 minutes between a Deadhead which start at 09:14 and the following Service trip which starts at 09:45
- Overlapping of 5 minutes between a Deadhead which start at 12:34 and the following Service trip which starts at 12:30

Filter

From: Heller Cir & Edgehurst Ln

To: Heller Cir & Edgehurst Ln

05:39 — 18 h 57 m —> 00:36

The first deadhead is a return to depot and driver stand-down. We may be able to move it by 2 min. The second deadhead cannot be altered.

All in all, checking each block is a painstaking exercise - however the savings indicated by the KPIs might make it worthwhile.

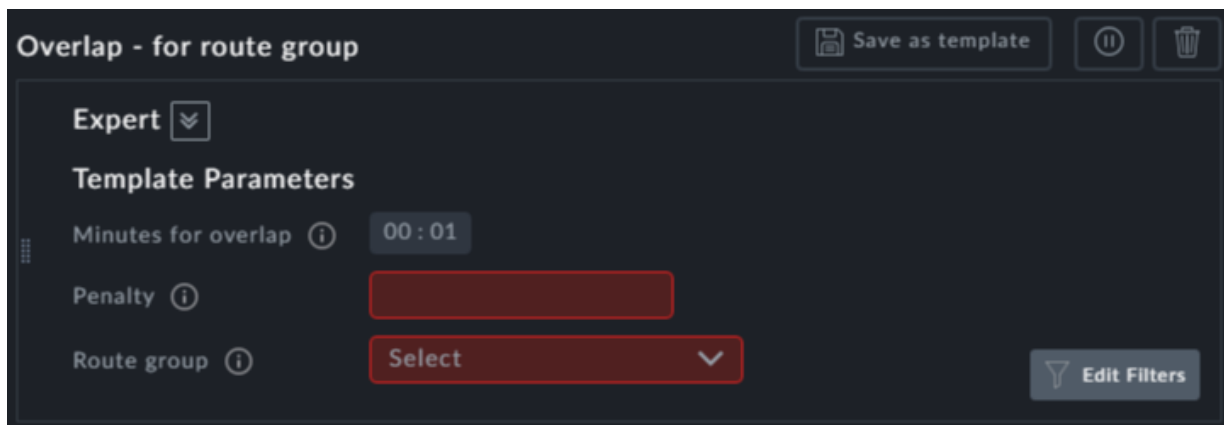
Overlap - for route group

Purpose:

Sets a maximum overlap time and an associated penalty for allowing overlap for a nominated route group. The penalty increases with the overlap time, from 1 min. to the maximum.

Prerequisites: You should have already defined your route groups. See Miscellaneous Assignments, [Route Groups](#).

Opening Dialog:



Overlap - for route group

Save as template

Expert

Template Parameters

Minutes for overlap 00 : 01

Penalty

Route group Select

Edit Filters

Points to note:

Both the Penalty and the Route Group fields are mandatory.

