Schedule Similarity

Work-flow to Use Schedule Similarity

» Use **Load Template** to set up and modify the preference for a variety of conditions

» Repeat **Load Template** for additional instances of any template

Preference Overview

This preference enables you to create a new schedule based on a supplied schedule with an increasing penalty for deviation from the original. For example a low penalty of say 1, says "I really don't care very much about deviations from the supplied schedule". The optimized schedule may be quite different from the original. A high penalty of say, 50 says "I am very concerned about deviations from the supplied schedule". The optimized schedule may not look very different from the original.

Using this preference, you can control the level of disruption to staff during a schedule change and indeed use it in stages to move from the supplied unoptimized schedule to a fully optimized schedule.

The fourth template below, **Schedule Similarity - by trip id**, is the simplest to understand: Maintain Trip ID similarity. Its only parameter is the penalty. Here are results of setting increasing penalties as expressed by several KPIs:

Table 1-1: Schedule Similarity - KPI Partial Comparison for various penalties

KPI	Customer Schedule	First Optimization	Penalty			
			5	30	50	100
Duties	173	153	153	166	168	171
Vehicles	95	87	87	87	87	90
Vehicle Similarity	N/A	N/A	2%	29%	54%	78%
Total Cost	268,959	246,189	246,532	254,551	257,375	261,614

> **Note** These results are for a specific schedule and are indicative only.

Templates Available from Optibus

Table 1-2: Templates Summary

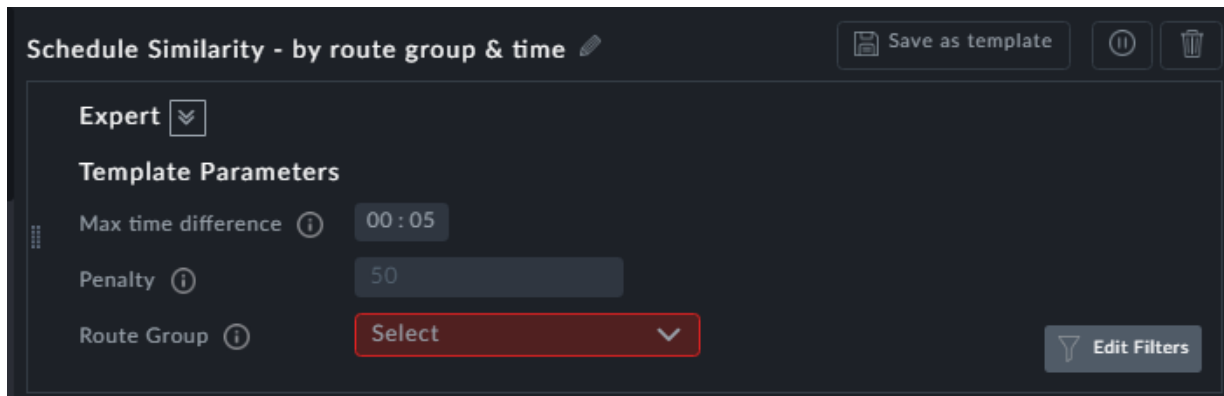| Template Name	Purpose	Reference
Schedule Similarity - by route group & trip id	Create a netw schedule similar to the supplied schedule for the nominated route group.	**Schedule Similarity - by route group & trip id**
Schedule Similarity - by route group & time	Create a netw schedule similar to the supplied schedule for the nominated route group while attempting to prevent trip length iations of more than the specified time.	**Schedule Similarity - by route group & time**
Schedule Similarity - by route & time	Create a new schedule similar to the supplied schedule for the nominated route while attempting to prevent trip length deviations of more than the specified time.	**Schedule Similarity - by route & time**
Schedule Similarity - by trip id	Create a new schedule similar to the supplied schedule for the nominated route id.	**Schedule Similarity - by trip id**

Schedule Similarity - by route group & trip id

Purpose:

Create a netw schedule similar to the supplied schedule for the nominated route group.

Prerequisites: You should have already defined your route groups. See Miscellaneous Assignments, **Route Groups**.

Opening Dialog:

Points to note:

» The Route Group field is mandatory
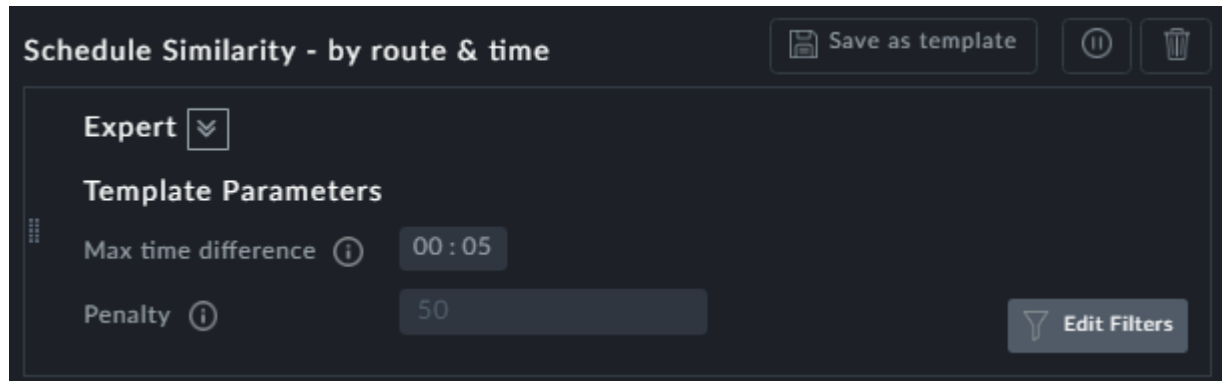
» Load this template again to for additional route groups

Schedule Similarity - by route group & time

Purpose:

Create a netw schedule similar to the supplied schedule for the nominated route group while attempting to prevent trip length deviations of more than the specified time.

Prerequisites: You should have already defined your route groups. See Miscellaneous Assignments, **Route Groups**.

Opening Dialog:

Points to note:

» The Route Group field is mandatory

» Load this template again to for additional route groups

Schedule Similarity - by route & time

Purpose:

Create a netw schedule similar to the supplied schedule for the nominated route while attempting to prevent trip length deviations of more than the specified time.

Prerequisites: None.

Opening Dialog:

Points to note:

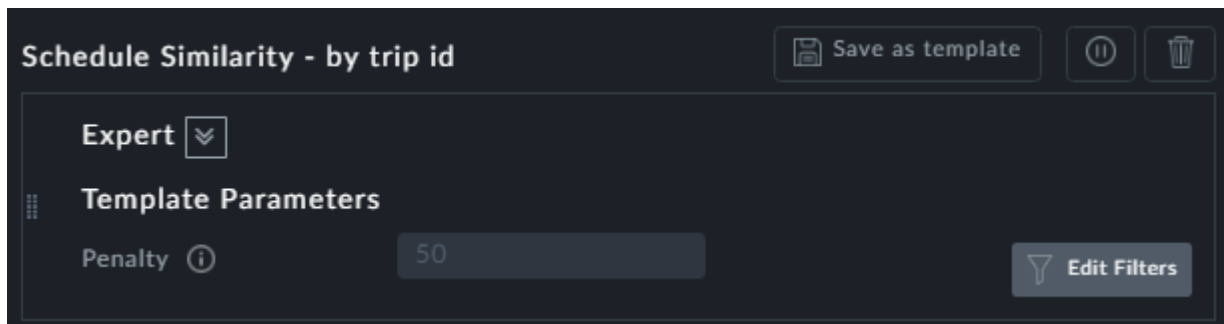You can create additonal instances of this template using Edit Filters to differentiate between them.

Schedule Similarity - by trip id

Purpose:

Create a netw schedule similar to the supplied schedule for the nominated route id.

Prerequisites: None.

Opening Dialog:

Points to note:

You can create additonal instances of this template using Edit Filters to differentiate between them.