



# Austrics 24.3

## *Release Notes*

November 2024

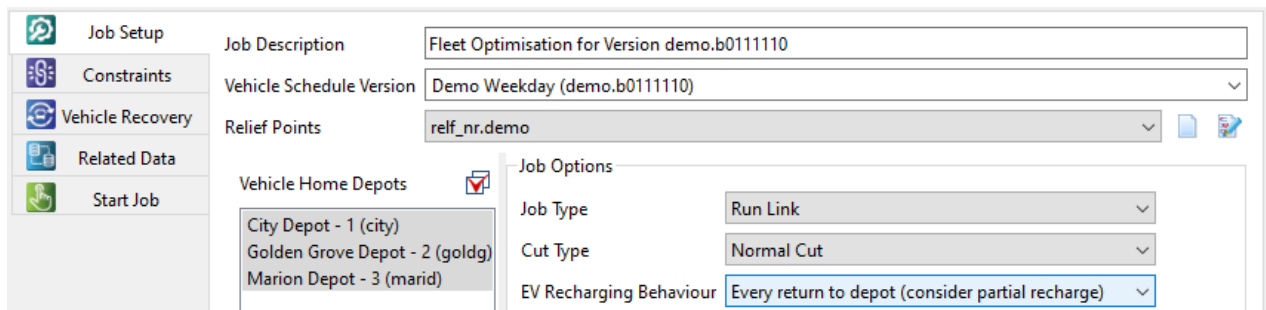
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## NEW FEATURES

### Partial Recharges for EV Fleet Optimisation Jobs

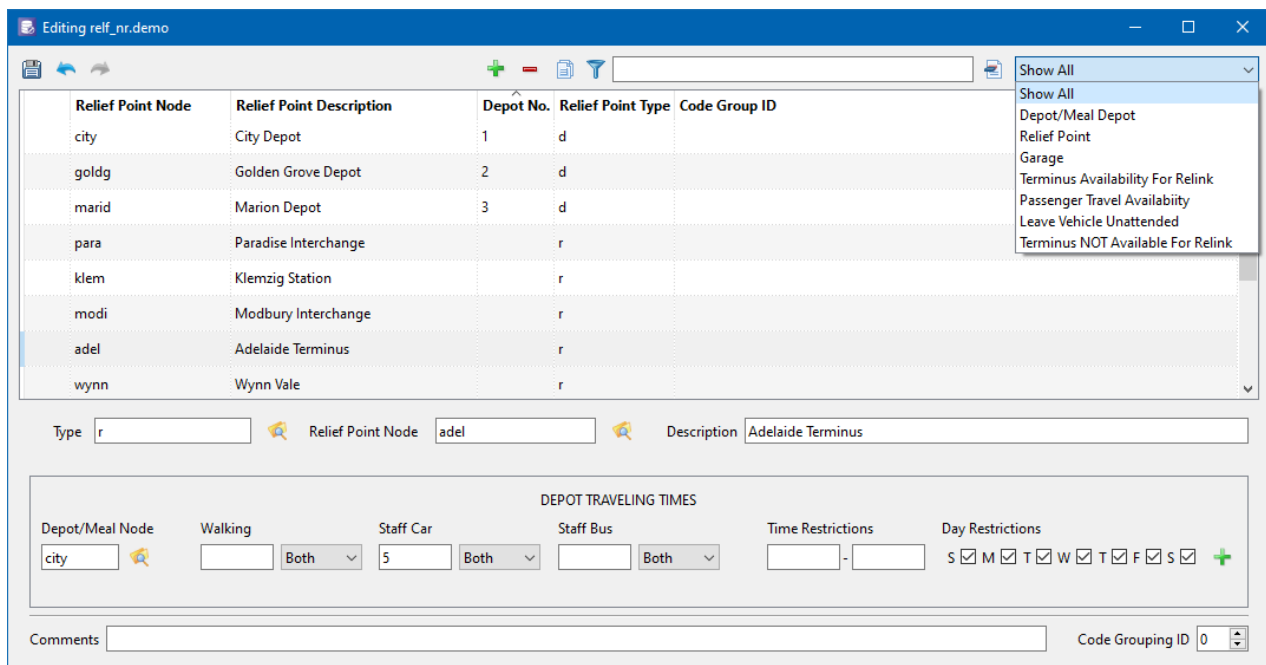
The Optimiser for Fleet Jobs with electric vehicles (EV) now has the capability to consider partial recharge opportunities at the vehicle run's home depot to provide further potential savings for the final EV solution. As this feature is still in its early stages, we're eager to hear feedback from our users on this advancement to the optimiser.



The screenshot shows the 'Job Setup' window. On the left is a sidebar with icons for Job Setup, Constraints, Vehicle Recovery, Related Data, and Start Job. The main area has several fields: 'Job Description' (Fleet Optimisation for Version demo.b0111110), 'Vehicle Schedule Version' (Demo Weekday (demo.b0111110)), 'Relief Points' (relf\_nr.demo), and 'Vehicle Home Depots' (City Depot - 1 (city), Golden Grove Depot - 2 (goldg), Marion Depot - 3 (marid)). On the right, under 'Job Options', there are dropdowns for 'Job Type' (Run Link), 'Cut Type' (Normal Cut), and 'EV Recharging Behaviour' (Every return to depot (consider partial recharge)).

### New Relief Point File Editor

The Relief Point file editor has been recreated to provide a better experience for our users. Adding new records should be simpler, and editing a file with several records will be more efficient thanks to the new filters. The addition of basic record validation will also help identify problematic data that may need attention.

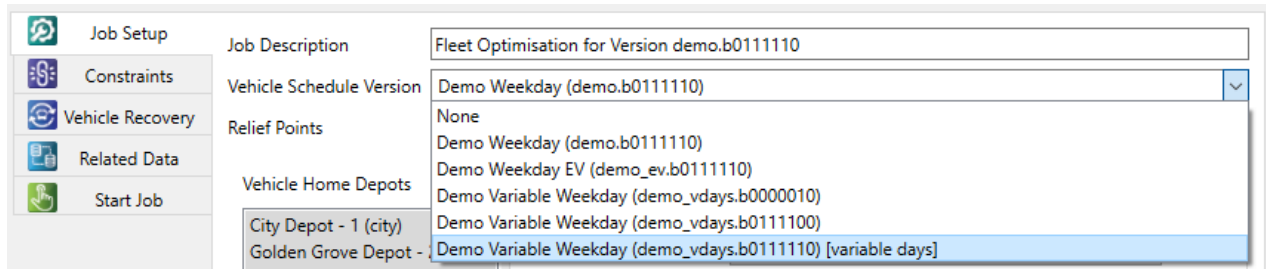


The screenshot shows the 'Editing relf\_nr.demo' window. It features a table of relief points with columns: Relief Point Node, Relief Point Description, Depot No., Relief Point Type, and Code Group ID. A dropdown menu is open on the right, showing options like 'Show All', 'Depot/Moat Depot', 'Relief Point', 'Garage', etc. Below the table, there's a form for editing a specific record. The 'Type' is 'r', 'Relief Point Node' is 'adel', and 'Description' is 'Adelaide Terminus'. Below this is a section for 'DEPOT TRAVELING TIMES' with fields for 'Depot/Moat Node' (city), 'Walking' (Both), 'Staff Car' (5), 'Staff Bus' (Both), 'Time Restrictions' (empty), and 'Day Restrictions' (S, M, T, W, T, F, S, all checked). At the bottom, there's a 'Comments' field and a 'Code Grouping ID' field set to 0.

Relief Point Node	Relief Point Description	Depot No.	Relief Point Type	Code Group ID
city	City Depot	1	d	
goldg	Golden Grove Depot	2	d	
marid	Marion Depot	3	d	
para	Paradise Interchange		r	
klem	Klemzig Station		r	
modi	Modbury Interchange		r	
adel	Adelaide Terminus		r	
wynn	Wynn Vale		r	

### Native Variable Day Optimiser Job Management

The Optimiser Job Manager now natively supports running Variable Day Fleet and Crew optimisation jobs. This means there is no longer a separate tool needed to run these jobs, and now Variable Fleet jobs and Variable Crew jobs can be run independently from one another.



Job Setup

Job Description: Fleet Optimisation for Version demo.b0111110

Vehicle Schedule Version: Demo Weekday (demo.b0111110)

Relief Points: None

Vehicle Home Depots: City Depot - 1 (city), Golden Grove Depot -

City Depot - 1 (city)

Golden Grove Depot -

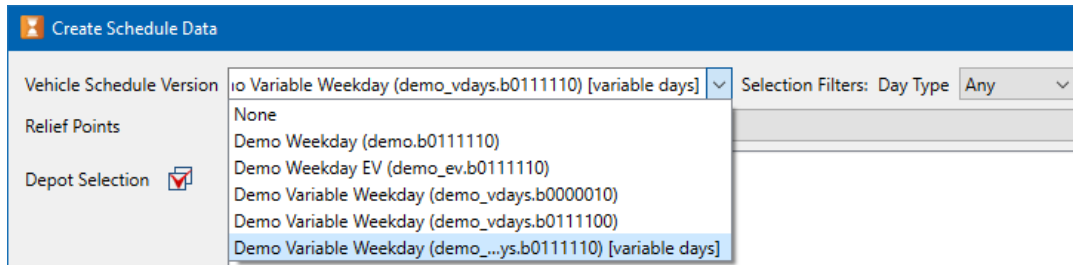
Demo Weekday (demo.b0111110)

Demo Weekday EV (demo\_ev.b0111110)

Demo Variable Weekday (demo\_vdays.b0000010)

Demo Variable Weekday (demo\_vdays.b0111110)

Demo Variable Weekday (demo\_vdays.b0111110) [variable days]



Create Schedule Data

Vehicle Schedule Version: Demo Variable Weekday (demo\_vdays.b0111110) [variable days]

Relief Points: None

Depot Selection: ☒

Selection Filters: Day Type: Any

Demo Weekday (demo.b0111110)

Demo Weekday EV (demo\_ev.b0111110)

Demo Variable Weekday (demo\_vdays.b0000010)

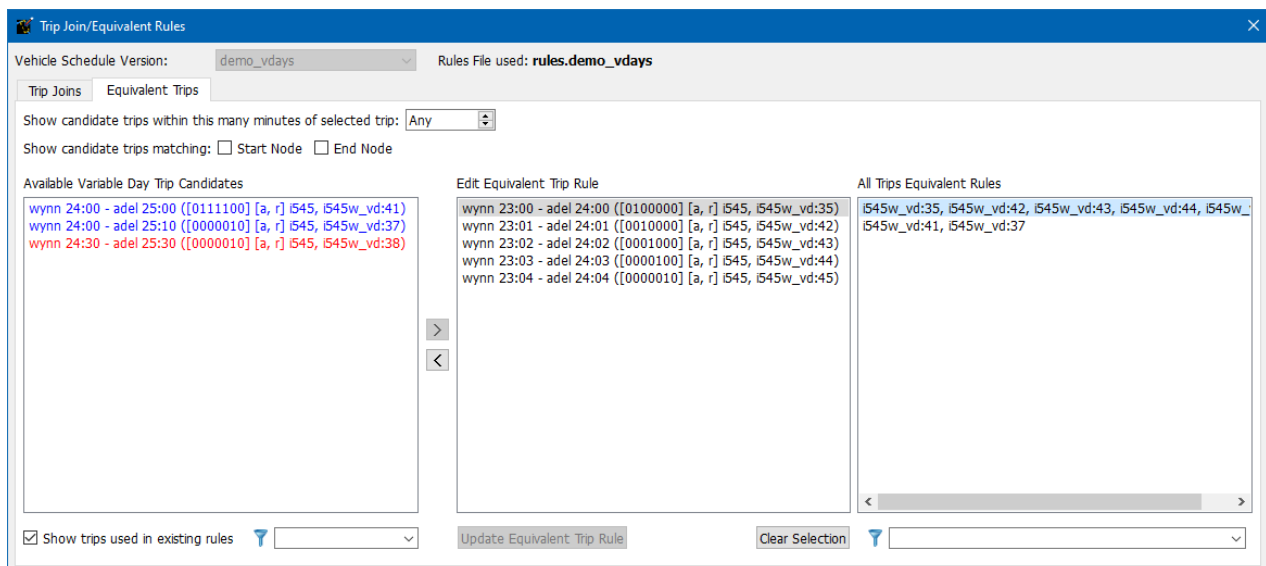
Demo Variable Weekday (demo\_vdays.b0111110)

Demo Variable Weekday (demo\_vdays.b0111110) [variable days]

When selecting a **Vehicle Schedule Version** for a variable day **Fleet Job Setup** or for **Create Schedule Data**, a new entry will now be available in the list with **[variable days]** appended at the end. This represents a collection of complementary Vehicle Schedules that together will be used to produce a variable day result.

## Improved Rules File Editor

To further support the Variable Day optimiser features, the Rules file editor has now been fully integrated with the Trip Editor's existing Trip Joins editor. This means that all supported rule types (Trip Joins and Equivalent Trips) can be edited from the appropriate tab on the same panel.



Trip Join/Equivalent Rules

Vehicle Schedule Version: demo\_vdays Rules File used: rules.demo\_vdays

Trip Joins Equivalent Trips

Show candidate trips within this many minutes of selected trip: Any

Show candidate trips matching: ☐ Start Node ☐ End Node

Available Variable Day Trip Candidates

wynn 24:00 - adel 25:00 ([01111100] [a, r] i545, i545w\_vd:41)

wynn 24:00 - adel 25:10 ([0000010] [a, r] i545, i545w\_vd:37)

wynn 24:30 - adel 25:30 ([0000010] [a, r] i545, i545w\_vd:38)

Edit Equivalent Trip Rule

wynn 23:00 - adel 24:00 ([0100000] [a, r] i545, i545w\_vd:35)

wynn 23:01 - adel 24:01 ([0010000] [a, r] i545, i545w\_vd:42)

wynn 23:02 - adel 24:02 ([0001000] [a, r] i545, i545w\_vd:43)

wynn 23:03 - adel 24:03 ([0000100] [a, r] i545, i545w\_vd:44)

wynn 23:04 - adel 24:04 ([0000010] [a, r] i545, i545w\_vd:45)

All Trips Equivalent Rules

i545w\_vd:35, i545w\_vd:42, i545w\_vd:43, i545w\_vd:44, i545w\_vd:41, i545w\_vd:37

☒ Show trips used in existing rules

Update Equivalent Trip Rule

Clear Selection

## UPDATES & IMPROVEMENTS

Several updates and improvements to existing functionality are also included in this release. These items have been separated into the relevant Austrics modules below.

### Dataset Manager

AM-8397	Fixed an issue where performing an upward drag to select multiple jobs in the Optimiser Job Manager would result in layout errors in the job stats comparison grid.
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### PLAN

AM-8021	The right-click context menu for one or more selected paths in the path list now includes an <i>Export paths to KML</i> option to only export the selected paths to a KML output file.
AM-8221	The Network Planner data validation process can be cancelled successfully without having to wait for the process to fully complete.
AM-8376	The Network Planner startup data selection window will now display as a separate entry in the Windows Task Bar.
AM-8428	Improved data validation in the Network Planner for route and street name text entries to avoid use of unsupported characters.
AM-8429	Improved the data validation process in the Network Planner to detect additional cases.

### FLEET

AM-8226	Fleet optimisation jobs will no longer report warnings for the deprecated matclose file.
AM-8346	Fixed an issue in the Trip Editor Block View where a portion of service work would not display properly if it was attached to a repositioning activity of zero minutes duration.
AM-8347	Corrected an issue in the Trip Editor where using the <i>Duplicate This Trip</i> option would occasionally create a duplicate trip that was using incorrect running times.
AM-8740	Fixed an issue where the Trip Editor would fail to find a valid distance for a repositioning activity if no base record existed.

### ROSTER

AM-8335	Added options to the Roster Planner <i>Maximum work in a 24hr</i> period setting to allow for different calculation methods and optional exclusion of various paid breaks.
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### Interfaces

AM-8406, AM-8407	Improved TODIS interface to support new file transfer procedure defined by TfNSW, and to provide flexibility for future changes (only applicable to NSW Australian sites).
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## Interfaces (cont.)

AM-8551, AM-8741	Fixed an issue in the TIMS export interface where using the <i>Enable Shifts Selection</i> feature would occasionally cause the export process to fail under certain network environments.
AM-8807	Fixed an issue in the EP Morris interface where the process would fail if the data provided contained less than 50 trips.

## ONLINE RELEASE NOTES

Online copies of all release notes are available at:

<https://releasenotes.trapezegroup.com.au/austrics/>

For further information on any of the items in these notes, or if you have any questions or concerns regarding the Austrics software, please do not hesitate in sending an email to:

[support@trapezegroup.com.au](mailto:support@trapezegroup.com.au)