

ATHENA TELEMATICS VEHICLE PLANNED SUBSTITUTIONS

Education Logistics, Inc.

Training
Guide

2024



Athena Telematics

Vehicle Planned Substitutions

Training Guide

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VEHICLE PLANNED SUBSTITUTIONS INTRODUCTION

The Athena Telematics Vehicle Planned Substitutions Training Guide will provide you with explanations of the basic tools within Athena Telematics Vehicle Planned Substitution module, walk you through steps in managing planned substitutions, as well as provide you with specific scenarios you may encounter as you begin to independently navigate the system.

There are several ways you can make substitutions. Substitutions can be done in System Management, on the tablet, and in Athena Telematics. This document will cover Vehicle Planned Substitutions in the Athena Telematics application.

For substitutions to work correctly, all routing should be in place in the Athena Routing and Planning application, which include finalized routes, vehicles, vehicle capacity, and vehicle-routes assignments.

Changes made to vehicle capacity and route load will only reflect overnight, unless you run a data sync, which can be done in Tools – Utilities – Telematics Utilities. You may want to create Planned Substitutions first, rather than Live Substitutions, unless you do a data sync.

PLANNED SUBSTITUTIONS

Planned Substitutions Overview

The planned assignments are intended for the near future, typically within the next 10 working days. Any assignment in this module will override the assignment in the module Vehicles Route Assignment in the specific time range.

Daily Rollover for Assignments is the crucial part of this module. It triggers early every morning and will remove which assignments are not valid.

Live – Hold – Plan

Live, Hold, and Plan are the names of three copies of the Athena routing data base. The routing data base (everything except for Students, Transportation Requests, and Trips) does not have effective dates attached to its data

records (mainly stops, paths, schools) but exists in three forms: Live, Hold, and Plan. Each routing data base is associated with the date of when the data are assumed to reflect the routes as they are actually driven on that day (this is called the Plan date of the data base). Live corresponds to the current date and is not allowed to be edited (except in case of extreme emergencies). Plan corresponds to data fully available for editing. Hold is basically the same as future Live and exists for the sole reason of providing enough time for the transportation office to deal with communication or operational actions caused by the route changes requested or required before going live.

The main justifications for the Hold stages are:

1. to allow the transportation office to have enough time to distribute the transportation information to stakeholders before going live with it. A consequence is that no requests can be made effective sooner than 3 days from the time they are received;
2. if the office is not able to finish all the changes needed in the future, the Hold days provide a buffer to finish the work: for example, if all the changes due 3 days later cannot be finished in

Plan during the current day's work, on the next day, the roll-over of Plan into Hold 2 can wait until work is completed, and then the roll-over can take place: the new Hold 2 is created and the new Plan started.

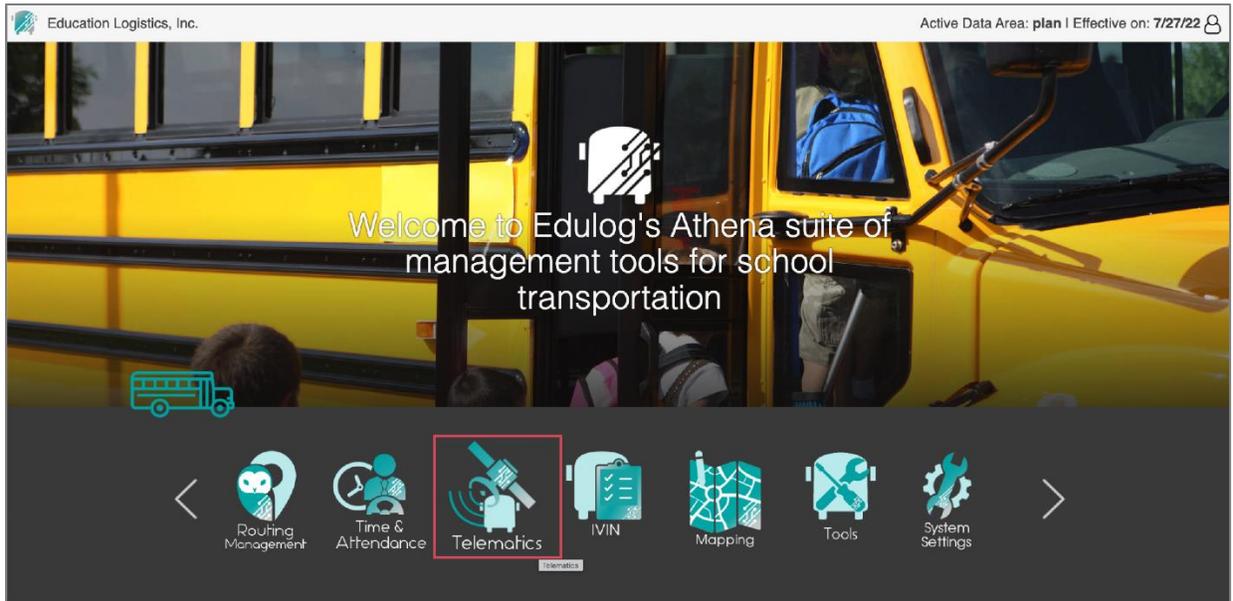
The example of a 2-day Hold may not be typical. Maybe a no-Hold setup will be common in small school systems as changes can be handled in one day's work, and the notification can be done via PP/email/SMS to parents, live display of route data via DP for drivers, WebApp access to any other stakeholders. With a no-Hold setup, there are only Live and Plan data co-existing in the system. Transportation requests can be processed to be live the next day. In Plan, the routing system will require a date before any functions involving trips can operate. By default, it will be the date of the Plan data (next day in a no-Hold setup).

Planned Substitutions Module

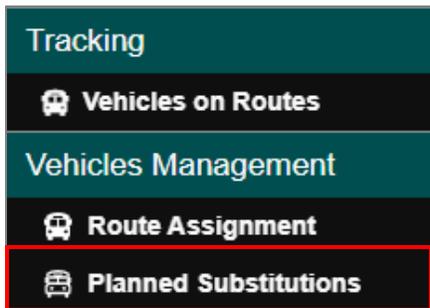
1. Log in to the system by entering "User Name," "Password" and click on the "Login" button.



2. Click on the "Telematics" module.



3. Select Planned Substitutions under Vehicle Management



4. Routes in the Data Panel

- a. Routes must have valid Frequency (if they have at least one working day) to be loaded
- b. Display the routes and substitutions on panel with columns:
 - Route ID, Hold 1, Hold 2, Hold 3, Plan, Until (leave it blank), Depot, Special Ed
 - "Hold" and "Plan" day will start at the next tenant date (display as the same Vehicle Planned Substitutions)
 - Number of Hold Days can be configured (number of hold days: 3, 4, 5)
 - Default, there are 3 Hold Days

Telematics > Vehicles Management > Planned Substitutions

Active Data Area: plan | Effective on: 6/1/23

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	06/15/2023	Until	Depot	Special Ed
818													
819													
821													
822													
825													
826													
827													
828													
829													
830													
831													
833													
835													

6. Display Window Dates Assignment

- Window days are all the future working days that user wants to observe start from the following date.
- Window days display the future Assignments.
- Window days include Hold days and Plan day.
- The Header of window days further than plan day only consists of Date (no Hold Number or Plan) (better words)
- Number of Window Days can be configured: Maximum is 10.

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	06/15/2023	Until	Depot	Special Ed
V074													
V083													
V086													
V091													
V093													
O11	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02			
O18	HB001	HB001	HB001	HB001	HB001	HB001	HB001	HB001	HB001	HB001			
O80	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001			
V094	VH034	VH034	VH034	VH034	VH034	VH034	VH034	VH034	VH034	VH034			
V095	VH023	VH023	VH023	VH023	VH023	VH023	VH023	VH023	VH023	VH023			
V096	VH028	VH028	VH028	VH028	VH028	VH028	VH028	VH028	VH028	VH028			
V097	VH030	VH030	VH030	VH030	VH030	VH030	VH030	VH030	VH030	VH030			
V108	VH001	VH001	VH001	VH001	VH001	VH001	VH001	VH001	VH001	VH001			

7. Default sort:

- Prioritized on **Hold 1** that is missing assignment
- If routes also have the **Hold 1** missing assignment, check the same rule for **Hold 2**
- Repeatedly sort for next window dates with the rules above

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	06/15/2023	Until	Depot	Special Ed
V083													
V091													
V093				HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002			
V095				VH028	VH028	VH028	VH028	VH028	VH028	VH028			
V097				VH023	VH023	VH023	VH023	VH023	VH023	VH023			
V097				VH030	VH030	VH030	VH030	VH030	VH030	VH030			
O18				HB001	HB001	HB001	HB001	HB001	HB001	HB001			
O80				CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001			
O11				NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02			
V094				VH034	VH034	VH034	VH034	VH034	VH034	VH034			
V108				VH001	VH001	VH001	VH001	VH001	VH001	VH001			

Display Route Details

- Click on a Route to see details
 - Route Info

- Route ID (Code), Frequency, Core Days, Extra Days(leave Blank)
 - Core Days: Number of Unassign Days from the left first date to last consecutive unassign Days, count to the last Window Date (do not count dates that route has no duty)

Telematics » Vehicles Management » Planned Substitutions Active Data Area: plan | Effective on: 6/1/23

Routes									Route Needing Assignment			
Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	Route ID	Frequency	Core Days	Extra Days
V086									V096	MTWUF	3	0
V091									Cover	Selecting Date	Load	Depot
V093				HNH002	HNH002	HNH002	HNH002	HNH002	Start Time	06:40 AM	End Time	02:25 PM
V096				VH028	VH028	VH028	VH028	VH028	Assignment Vehicle	Vehicle	Capacity	Depot
V095				VH023	VH023	VH023	VH023	VH023				
V097	VH030			VH030	VH030	VH030	VH030	VH030				
018	HB001		HB001	HB001	HB001	HB001	HB001	HB001				
080	CHALVH001	CHALVH001		CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001				
011	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02				
V094	VH034	VH034	VH034	VH034	VH034	VH034	VH034	VH034				
V108	VH001	VH001	VH001	VH001	VH001	VH001	VH001	VH001				

b. Cover:

- Selecting Date (add Hold, Plan or leave blank), Depot, Load, Start Time, End Time,

c. Assignment:

- If user clicks on one of the window dates
- Display Info: Vehicle (Vehicle Code), Capacity, Depot

Telematics » Vehicles Management » Planned Substitutions Active Data Area: plan | Effective on: 6/1/23

Routes										Route Needing Assignment				
Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	Route ID	Frequency	Core Days	Extra Days	
V083										080	MTWUF	1	0	
V086										Cover	Selecting Date	Load	Depot	
V091										Start Time	06/07/2023	05:55 AM	End Time	04:24 PM
V093				HNH002	HNH002	HNH002	HNH002	HNH002	HNH002	Assignment Vehicle	Vehicle	Capacity	Depot	
V096				VH028	VH028	VH028	VH028	VH028	VH028	CHALVH001	99	001		
V095				VH023	VH023	VH023	VH023	VH023	VH023					
V097	VH030			VH030	VH030	VH030	VH030	VH030	VH030					
018	HB001		HB001	HB001	HB001	HB001	HB001	HB001	HB001					
080	CHALVH001	CHALVH001		CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001	CHALVH001					
011	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02	NHUVH02					
V094	VH034	VH034	VH034	VH034	VH034	VH034	VH034	VH034	VH034					
V108	VH001	VH001	VH001	VH001	VH001	VH001	VH001	VH001	VH001					

Load Vehicles with Planned Substitutions

1. Load all Vehicle with Columns:
 - a. Vehicle (display Vehicle code)
 - b. Hold, Plan, Window Date
 - c. Until (Blank)
 - d. Capacity, Depot
2. Display the Assignment of those Vehicles
 - a. One record is one Assignment
 - b. If the Vehicle is serving more than one Route, there should be more than 1 row to display the all the assignments of that specific vehicle.

Telematics » Vehicles Management » Planned Substitutions Active Data Area: plan | Effective on: 6/1/23

Routes													
Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	06/15/2023	Until	Depot	Special Ed
V070													
V072		HB001											
V074													

Vehicles													
Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	06/15/2023	Until	Capacity	Depot
VH015												0	Depots 001
VH016												66	Depots 001
VH017												88	Depots 001
VH022												0	Depots 001
VH025												0	Depots 02
VH035												60	Depots 02
VH028				V096	V096	V096	V096	V096	V096	V096		89	Depots 02
HMVH002				V093	V093	V093	V093	V093	V093	V093		85	Depots 001
VH023				V095	V095	V095	V095	V095	V095	V095		90	Depots 001
VH030	V097				V097	V097	V097	V097	V097	V097		20	Depots 001
HB001		V072										99	Depots 02
HB001	O18		O18	O18	O18	O18	O18	O18	O18	O18		99	Depots 02
VH034	V094	V094	V094	V094	V094	V094	V094	V094	V094	V094		70	Depots 02
NHLVH02	O11	O11	O11	O11	O11	O11	O11	O11	O11	O11		90	Depots 001
VH001	V108	V108	V108	V108	V108	V108	V108	V108	V108	V108		50	Depots 001
CHAUVH001	080	080		080	080	080	080	080	080	080		99	Depots 001
CHAUVH003												10	Depots 001
CHAUVH004		Vehicle out of service										0	Depots 001
CHAUVH008												99	Depots 001
CHAUVH010												80	

3. Display color for Assignment.

Telematics » Vehicles Management » Planned Substitutions

Routes											
Route ID	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	06/15/2023	Until	
OPT-78433											
OPT-78434											
OPT-78435											
OPT-78436											
OPT-78437											
103											
104	FEV	FEV	FEV	FEV	FEV	FEV	FEV	FEV	FEV	FEV	
BEM-001	VH02		VH02	47		VH06		VH06	47	47	
BUS-71	VH02	VH02	VH02	VH02	VH02	VH02	VH02	VH02	VH02	VH02	

Search for Evaluated Vehicles

1. Select one Route record.

Telematics » Vehicles Management » Planned Substitutions Active Data Area: plan | Effective on: 6/1/23

Routes										Route Needing Assignment		
Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023	Route ID	Frequency	MTWTFU
862										867	0	
863										867	0	
865										867	0	
867										867	0	
868										867	0	
869										867	0	
871										867	0	
873										867	0	
874										867	0	
875										867	0	
876										867	0	
877										867	0	
879										867	0	
880										867	0	

Vehicles											
Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023		
HB001		V072									
HB001	O18		O18	O18	O18	O18	O18	O18	O18		
CHAUVH006											
CHAUVH007											
H2											
H4											
MVEH001		O10									

Route			
Route ID	Frequency	MTWTFU	Extra Days
867	0		

Cover		
Selecting Date	Load	Depot
	0	

Assignment Vehicle	
Vehicle	Capacity

Vehicles Evaluated			
Vehicle	Core Days	Extra Days	Last Trip Date

2. Then click **system-assisted** button to look for suitable Vehicles.
 - a. Only Route missing date assignment need to be assigned.

The screenshot shows the 'Planned Substitutions' interface. The 'Routes' table has columns for dates from 06/02/2023 to 06/14/2023. A red arrow points to the 'System-Assisted' button. The 'Vehicles' table below shows vehicle IDs and their availability for the same dates. The 'Vehicles Evaluated' panel on the right is currently empty.

3. Evaluated Vehicles will appear in the lower right of the workspace panel. Data includes:
 - a. Vehicle, Core Days, Extra Days (leave it blank), Last Trip Date
 - b. Core Days: Number of Unassign Days from the left first date to last consecutive unassign Days, count to the last Window Date (do not count dates that route has no duty) that Evaluated Vehicle Could assign
 - c. Default Sort by
 - Vehicle Core Days Availability
 - Last Trip Date (Priority on Vehicle had the last trip date further than current date)

The screenshot shows the 'Planned Substitutions' interface with the 'Vehicles Evaluated' panel populated. The panel contains the following data:

Vehicle	Core Days	Extra Days	Last Trip Date
CHAU/HO...	10		
CHAU/HO...	10		
H2	10		
H4	10		
VBH002	10		
VBH003	10		
VEHICLE006	10		
VEHICLE007	10		
VH003	10		
VH004	10		

4. Vehicles Evaluated should have satisfied criteria:
 - a. Have enough availability time for that route cover

- Meet the From Time, To Time, Frequency
 - Vehicle Availability Time = 24h - assignments time - outofServiceTime
 - If after the projected end date, the vehicle still does not have actual end time, It is considered as out of service for the next all window dates.
- The Vehicle Capacity must equal or greater than the Route Cover Load
 - Vehicle Depot must match the Route Cover start Depot
 - They must be the same if they are not null
 - At least, Vehicle could be assigned to the first route core date.

Active Data Area: plan | Effective on: 6

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
862									
863									
865									
867									
868									
869									
871									
873									
874									
875									
876									
877									
879									
880									

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHALVH006									
CHALVH007									
H2									
H4									
VEHICLE01		010							

Vehicle	Core Days	Extra Days	Last Trip Date
CHALVH006	10		
H2	10		
H4	10		
VBH002	10		
VBH003	10		
VEHICLE006	10		
VEHICLE007	10		
VH003	10		
VH004	10		
VH006	10		

5. Select the Vehicle.

Active Data Area: plan | Effective on: 6

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
862									
863									
865									
867									
868									
869									
871									
873									
874									
875									
876									
877									
879									
880									

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHALVH006									
CHALVH007									
H2									
H4									
VEHICLE01		010							

6. Confirm the Vehicle – select Assign.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: plan | Effective on: 6

Confirmation

The Vehicle **VBH003** will be assigned to Route **867**. Are you sure you want to assign?

Cancel Assign

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
862									
863									
865									
867									
868									
869									
871									
873									
874									
875									
876									
877									
879									
880									

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
VBH001		V072							
VBH002									
VBH003									
VBH004									
VBH005									
VBH006									
VBH007									
VBH008									
VBH009									
VBH010									

Route

Route ID: 867
Frequency: MTWUF
Core Days: 10
Extra Days: 0

Cover

Selecting Date: Load: 0 Depot: 0

Start Time: 06:10 AM End Time: 04:40 PM

Assignment Vehicle

Vehicle: Capacity: Depot:

Vehicles Evaluated

Accept

Vehicle	Core Days	Extra Days	Last Trip Date
VBH001	10		
H2	10		
H4	10		
VBH002	10		
VBH003	10		
VEHICLE006	10		
VEHICLE007	10		
VH003	10		
VH004	10		
VH006	10		

7. Vehicle will be an assigned substitution.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: Successfully Route 867 is successfully

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
862									
863									
865									
867	VBH003	VBH003	VBH003	VBH003	VBH003	VBH003	VBH003	VBH003	VBH003
868									
869									
871									
873									
874									
875									
876									
877									
879									
880									

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
VBH001		V072							
VBH002									
VBH003									
VBH004									
VBH005									
VBH006									
VBH007									
VBH008									
VBH009									
VBH010									

Route

Route ID: 867
Frequency: MTWUF
Core Days: 10
Extra Days: 0

Cover

Selecting Date: Load: 0 Depot: 0

Start Time: 06:10 AM End Time: 04:40 PM

Assignment Vehicle

Vehicle: Capacity: Depot:

Vehicles Evaluated

Accept

Vehicle	Core Days	Extra Days	Last Trip Date
VBH001	10		
H2	10		
H4	10		
VBH002	10		
VBH003	10		
VEHICLE006	10		
VEHICLE007	10		
VH003	10		
VH004	10		
VH006	10		

Manually assign Vehicle to Route

1. Click on a route.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: plan | Effective on: 6

Routes

Assignment Status Color: System - Assisted, Unassign Vehicle, Columns

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V058									
V064									
V067									
V070									
V074									
V083									
V086									
V091									
V093				HNH002	HNH002	HNH002	HNH002	HNH002	HNH002
V096				VH028	VH028	VH028	VH028	VH028	VH028
V096				VH023	VH023	VH023	VH023	VH023	VH023
V072		HB001							
V097		VH030			VH030	VH030	VH030	VH030	VH030
O10	MINHV002		MINHV002	MINHV002	MINHV002	MINHV002	MINHV002	MINHV002	MINHV002

Vehicles

Vehicle Status Color: Columns

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHAUMH006									
CHAUMH007									
H2									
H4									

Route Needing Assignment

Route: V091, Frequency: MTWUF, Core Days: 10, Extra Days: 0

Cover: Selecting Date: 06/02/2023, Load: 0, Depot: N/A, Start Time: 06:41 AM, End Time: 04:22 PM

Assignment Vehicle: Vehicle, Capacity, Depot

Vehicles Evaluated: Accept

2. Enter the Vehicle (Vehicle ID) to point the Vehicle needed to be assigned.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: plan | Effective on: 6

Routes

Assignment Status Color: System - Assisted, Unassign Vehicle, Columns

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V058									
V064									
V067									
V070									
V074									
V083									
V086									
V091									
V093				HNH002	HNH002	HNH002	HNH002	HNH002	HNH002
V096				VH028	VH028	VH028	VH028	VH028	VH028
V096				VH023	VH023	VH023	VH023	VH023	VH023
V072		HB001							
V097		VH030			VH030	VH030	VH030	VH030	VH030
O10	MINHV002		MINHV002	MINHV002	MINHV002	MINHV002	MINHV002	MINHV002	MINHV002

Vehicles

Vehicle Status Color: Columns

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHAUMH006									
CHAUMH007									
H2									
H4									

Route Needing Assignment

Route: V091, Frequency: MTWUF, Core Days: 10, Extra Days: 0

Cover: Selecting Date: 06/02/2023, Load: 0, Depot: N/A, Start Time: 06:41 AM, End Time: 04:22 PM

Assignment Vehicle: Vehicle, Capacity, Depot

Vehicles Evaluated: Accept

a. Select from the list or typing the full ID.

3. Confirm by selecting Assign.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: plan | Effective on: 6

Confirmation

The Vehicle **VBH001** will be assigned to Route **V091**. Are you sure you want to assign?

Cancel Assign

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V058									
V064									
V067									
V070									
V074									
V083									
V086									
V091	VBH001								
V093				HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002
V096				VH028	VH028	VH028	VH028	VH028	VH028
V095				VH023	VH023	VH023	VH023	VH023	VH023
V072		HB001							
V097	VH030			VH030	VH030	VH030	VH030	VH030	VH030
O10	MINHVH002		MINHVH002	MINHVH002	MINHVH002	MINHVH002	MINHVH002	MINHVH002	MINHVH002

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHALVH006									
CHALVH007									
H2									
H4									
MJFH001									

4. The Vehicle is assigned.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area ✔ Successfully Route V091 is successful!

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V058									
V064									
V067									
V070									
V074									
V083									
V086									
V091	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001
V093				HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002
V096				VH028	VH028	VH028	VH028	VH028	VH028
V095				VH023	VH023	VH023	VH023	VH023	VH023
V072		HB001							
V097	VH030			VH030	VH030	VH030	VH030	VH030	VH030
O10	MINHVH002		MINHVH002	MINHVH002	MINHVH002	MINHVH002	MINHVH002	MINHVH002	MINHVH002

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHALVH006									
CHALVH007									
H2									
H4									
MJFH001									

5. For missing assignments, click in the missing box.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: plan | Effective on: 6

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V067									
V070									
V074									
V083									
V086									
V091	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001
V093				HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002
V096				VH028	VH028	VH028	VH028	VH028	VH028
V095			VH023	VH023	VH023	VH023	VH023	VH023	VH023
V072		HB001							
V097	VH030			VH030	VH030	VH030	VH030	VH030	VH030
O10	MINHMH002		MINHMH002	MINHMH002	MINHMH002	MINHMH002	MINHMH002	MINHMH002	MINHMH002
O18	HB001		HB001	HB001	HB001	HB001	HB001	HB001	HB001
O80	CHALMH001	CHALMH001		CHALMH001	CHALMH001	CHALMH001	CHALMH001	CHALMH001	CHALMH001

Vehicle Status Color

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	O18		O18	O18	O18	O18	O18	O18	O18
CHALMH006									
CHALMH007									
H2									
H4									
LMVEHICLE01									

Route Needing Assignment

Route ID: 010
Frequency: MTWUF
Core Days: 1
Extra Days: 0

Cover

Selecting Date: 06/05/2023
Load: 0
Depot: N/A

Start Time: 06:40 AM
End Time: 05:50 PM

Assignment Vehicle

Vehicle: [] Capacity: [] Depot: []

Vehicles Evaluated

Vehicle: Core Days: Extra Days: Last Trip Date

6. Select from the list or typing the full ID.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: plan | Effective on: 6

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V067									
V070									
V074									
V083									
V086									
V091	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001
V093				HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002
V096				VH028	VH028	VH028	VH028	VH028	VH028
V095			VH023	VH023	VH023	VH023	VH023	VH023	VH023
V072									
V097	VH030	NVEHICLE01		VH030	VH030	VH030	VH030	VH030	VH030
O10	MINHMH002	Nve	MINHMH002	MINHMH002	MINHMH002	MINHMH002	MINHMH002	MINHMH002	MINHMH002
O18	HB001		HB001	HB001	HB001	HB001	HB001	HB001	HB001
O80	CHALMH001	CHALMH001		CHALMH001	CHALMH001	CHALMH001	CHALMH001	CHALMH001	CHALMH001

Vehicle Status Color

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	O18		O18	O18	O18	O18	O18	O18	O18
CHALMH006									
CHALMH007									
H2									
H4									
LMVEHICLE01									

Route Needing Assignment

Route ID: 010
Frequency: MTWUF
Core Days: 1
Extra Days: 0

Cover

Selecting Date: 06/05/2023
Load: 0
Depot: N/A

Start Time: 06:40 AM
End Time: 05:50 PM

Assignment Vehicle

Vehicle: [] Capacity: [] Depot: []

Vehicles Evaluated

Vehicle: Core Days: Extra Days: Last Trip Date

7. Confirm by selecting Assign.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: plan | Effective on: 6

Confirmation

The Vehicle **NVEHICLE01** will be assigned to Route **010**. Are you sure you want to assign?

Cancel Assign

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V067									
V070									
V074									
V083									
V086									
V091	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001
V093				HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002
V096				VHC28	VHC28	VHC28	VHC28	VHC28	VHC28
V096				VHC23	VHC23	VHC23	VHC23	VHC23	VHC23
V072		HB001							
V097	VH030				VH030	VH030	VH030	VH030	VH030
010	MINH002	NVEHICLE01	MINH002	MINH002	MINH002	MINH002	MINH002	MINH002	MINH002
018	HB001		HB001	HB001	HB001	HB001	HB001	HB001	HB001
080	CHALUH001	CHALUH001		CHALUH001	CHALUH001	CHALUH001	CHALUH001	CHALUH001	CHALUH001

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHALUH006									
CHALUH007									
H2									
H4									
NVEHICLE01									

Route

Route ID: 010
Frequency: MTWUF
Core Days: 1
Extra Days: 0

Cover

Selecting Date: 06/05/2023
Load: 0
Depot: N/A

Start Time: 06:40 AM
End Time: 05:50 PM

Assignment Vehicle

Vehicle: NVEHICLE01
Capacity: 80
Depot: Depots 001

8. The Vehicle is assigned.

Telematics » Vehicles Management » Planned Substitutions

Active Data Area: Successfully Route 010 is successfully

Route ID	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
V067									
V070									
V074									
V083									
V086									
V091	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001	VBH001
V093				HNVH002	HNVH002	HNVH002	HNVH002	HNVH002	HNVH002
V096				VHC28	VHC28	VHC28	VHC28	VHC28	VHC28
V096				VHC23	VHC23	VHC23	VHC23	VHC23	VHC23
V072		HB001							
V097	VH030				VH030	VH030	VH030	VH030	VH030
010	MINH002	NVEHICLE01	MINH002	MINH002	MINH002	MINH002	MINH002	MINH002	MINH002
018	HB001		HB001	HB001	HB001	HB001	HB001	HB001	HB001
080	CHALUH001	CHALUH001		CHALUH001	CHALUH001	CHALUH001	CHALUH001	CHALUH001	CHALUH001

Vehicle	06/02/2023 (Hold 1)	06/05/2023 (Hold 2)	06/06/2023 (Hold 3)	06/07/2023 (Plan)	06/08/2023	06/09/2023	06/12/2023	06/13/2023	06/14/2023
HB001		V072							
HB001	018		018	018	018	018	018	018	018
CHALUH006									
CHALUH007									
H2									
H4									
NVEHICLE01									

Route

Route ID: 010
Frequency: MTWUF
Core Days: 0
Extra Days: 0

Cover

Selecting Date: 06/05/2023
Load: 0
Depot: N/A

Start Time: 06:40 AM
End Time: 05:50 PM

Assignment Vehicle

Vehicle: NVEHICLE01
Capacity: 80
Depot: Depots 001

Daily Rollover for Assignments

1. At 23:00 PM every day, rollover triggers to recalculate the Planned
 1. Any Invalid **assignment** or **substitution** will be removed
2. Valid assignment or substitution
 1. Have enough availability time for that route cover
 - a. Meet the From Time, To Time, Frequency
 - b. Vehicle Availability Time = 24h - assignments time - outofServiceTime
 - c. If after the projected end date, the vehicle still does not have actual end time, It is considered as out of service for the next all window dates.
 2. The Vehicle Capacity must equal or greater than the Route Cover Load
 3. Vehicle Depot must match the Route Cover start Depot

- a. They must be the same if they are not null
3. When a Vehicle get Out of Service, the system will check the Valid of its assignment and substitution on the table and recalculate related Assignment Route instantly
4. New latest Assignment will be affected after rollover triggering

Support real-time update

1. Multiple users can view real-time update made by others