FleetLink Route System



A Safe Fleet Brand

Resequencing and optimizing routes

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About This Document

This document describes the existing FleetLink Route System's route resequencing feature and a new route optimization feature.

The contents of this document replaces that of the **Resequencing a Route** section in the FleetLink Route System User Guide.

About Route Resequencing

The goal of route resequencing is to improve efficiency. Resequencing adjusts the sequence of stops to help the driver spend less time working the route.

There are two approaches to resequencing:

- Adjusting the sequence based on the historical data that exists in the system:
 - By timestamps for the most recent execution of the route (By timestamp mode).
 - Relative to another route's sequence (Like another route mode)
 - By stops actually covered on a given date (Breadcrumb trail mode).

This approach to route resequencing is useful for any route that doesn't change often.

-OR-

• Optimizing a new or existing route.

This feature relies on software logic that takes into account many variables affecting the way the route can be serviced. The software analyzes route attributes and creates an optimized sequence of stops that lets the driver complete the route in the most efficient manner.

Route optimization feature is designed for low density commercial and roll-off routes.

- Commercial routes are typically optimized when they are first created, and then re-optimized when the route is changed, for example, when recurring or on-demand stops are added or removed.
- Roll-off routes are typically optimized on a daily basis, due to their constantly changing nature.

Resequencing a Route

This section describes the general and specific steps for completing the resequencing operation.

Resequencing overview

This section describes the general steps of the resequencing operation. To resequence a route:

1. Log in to FleetLink Route System and then click the **Routes** option in the menu bar. The **Routes** drop-down menu is displayed.

Eleet	tMind						Division Fleetmind	•					FleetLink Ro	ute System
admin														3.31.0.1
					Routes • Inventory • Cust	omers 💌	Reference Data 💌 0	GeoZones 🔻 Repo	orts 🕶 Users 🕶 H	lelp ▼				
List of Ro	outes				Edit Last Previewed Route									
Operating Departm All Q Search	ent Route Na	me	Truck	Work G	Routes and Stops Route List 18-Jul 20h - 19-Jul 20 Work Zone List Print Routes Unscheduled Stops	h								
Route Name	Stop Count	Conflicts	Has GeoZone	Modified	Close Routes	up	Service Date	Frequency	Material	Operating Depart	Update Geolocati	Update RFID	Update Serial #	
					Q Search Stops									
1NPEmpty	0			2019-07-18 21:04:	Add Route		2019-04-02 04:00:00	Daily	StreetSweeping	Street Sweeping		•		× ^
1NPNoPath	0			2019-07-18 21:42:	Import Route Stops		2019-04-02 04:00:00	Daily	StreetSweeping	Street Sweeping				×
1NpOnlyWKZ	0			2019-07-18 21:42	Export Routes and Stops		2019-04-02 04:00:00	Daily	StreetSweeping	Street Sweeping			۲	×
1NpWkOndRe	0			2019-07-18 21:42	46 SW500		2019-04-02 00:00:00	Daily	StreetSweeping	Street Sweeping				×
1NPWkzOndS	0			2019-07-18 21:42:	46 SW500		2019-04-02 00:00:00	Daily	StreetSweeping	Street Sweeping				×
1NPWkzRecu	0			2019-07-18 21:42:	46 SW500		2019-04-02 04:00:00	Daily	StreetSweeping	Street Sweeping				×
1RTE15148	0			2019-06-21 08:24:	01 3003		2019-06-21 00:00:00	Daily	MEDICAL	Auditing				×
1RTE18658	0			2019-06-21 08:15:	05	A	2019-06-21 00:00:00	Even	StreetSweeping	Cart maintenance				×
1RTE36699	0			2019-05-24 15:21:	01 testq		2019-05-24 00:00:00	ThuGreen	StreetSweeping	Auditing				×
2RTE15149	0			2019-06-21 08:24:	01	A	2019-06-21 00:00:00	ThuBlue	material for roll off	Auditing				×
Total Items: 315														

2. Click Routes and Stops. The List of Routes screen is displayed.

C Fleet	tMind						Division Fleetmind	~					FleetLink Ro	ute System
admin														3.31.0.10
				Ro	utes 👻 Inventor	y • Customers •	Reference Data * G	GeoZones 🔹 Repo	nts ▼ Users ▼ He	lp ₹				
List of Ro	outes													
Operating Departme	ent Route Name	In	uck	Work Group										
Route Name	Stop Count	Conflicts	Has GeoZone	Modified	Truck	Work Group	Service Date	Frequency	Material	Operating Depart	Update Geolocation	Update RFID	Update Serial #	
mb) ×														
FrStp107mb	1028			2019-08-08 21:51:	ER19		2017-12-03 15:00:	Friday	RECYCLABLE	Regular service				× ^
MB-RT-GB	15			2019-08-14 12:00:	MB-743			Daily	Garbage collection	Commercial service				×
MoStp109mb	1009			2019-08-11 21:21:59	ER16		2017-09-29 12:00:	Monday	RECYCLABLE	Regular service				×
ThStp101mb	854			2019-08-07 21:32:	ER14		2018-11-23 12:00:00	Thursday	RECYCLABLE	Regular service				×
TuStp111mb	1008			2019-08-12 21:07:	ER23		2017-09-27 13:00:	Tuesday	RECYCLABLE	Regular service				×
WeStp115mb	1128			2019-08-13 22:33:	ER11		2018-09-06 14:00:	Wednesday	RECYCLABLE	Regular service				×
Total Items: 321 (Sh	owing Items: 6)													v

3. Find a route that you want to resequence, and then click its name in the **Route Name** column. The **Edit Route** screen is displayed.

_									
<u>•</u>	Edit Route								
Si	ndle Dav Route								
01	ingle Day Route 🗸								
Na	me		Start Date	66	Route Frequency	Satellite view			۲
C.					Daily	MC NOX		1	A N A
Tru	ck MB-743		Work Group	~	GeoZone	LAVAL		Jar-	
Ma	terial		Operating Department		Container Type			and a	
	Sarbage collection		COMM	\checkmark	CART	440	19	ALA	1 Providence
Lin	e of Business		_				29/5	4D	[12]
	сомм		Visitete Contraction O	Undete Di		13		77	LONGUEL
Ter	No	No	No	Update R	No No		MONTREAL		Carlo
Ne	kt Scheduled Dispatc	h:							116
20)19-08-14					April 1	15	(An	[134]
Me	ssage:							-	
						Depres It		- K co	pyright © Telogis, HERE
	Temporary Truck	A Route Pa	ath 🛇 Edit Positions 📰 E	Edit Sequence	🖺 Save				
Rec	urring Associations	On Demand	/Extra Historical						
\mathbf{v}_{i}		Sequence	Name	Address		Service	Workflow	Status	Status Date
	(t) (+) (x)							\sim	
	8 8 8	0	Walmart Supercentre-1	6797 Boulevard	Newman, Montreal QC H8N 3E4	OW-GARB-1p5YARD	Empty	۵	,
	0 8 0	0	Walmart Laval Supercentre	2075 Boulevard	Chomedey, Laval QC H7T 0B2	OW-GARB-1p5YARD	Empty	0	
	8 8 8	0	Walmart Longeuil South Store	2877 Chemin d	e Chambly, Montreal QC J4L 1M8	OW-GARB-1p5YARD	Empty	۵	
	0 8 8	0	Walmart St-Leonard Supercentre	7600 Boulevard	Viau, Montreal QC H7T 0B2	OW-GARB-1p5YARD	Empty	۵	
	8 8 8	0	Walmart Supercentre-3	17000 Route Tr	anscanadienne, Montreal QC H9J2M5	OW-GARB-1p5YARD	Empty	۵	
	080	0	Walmart Supercentre-2	6140 Boul Henr	i-Bourassa E, montreal QC H1S 2P3	OW-GARB-1p5YARD	Empty	0	

4. Wait for the list of stops to load, and then click the **Edit Sequence** button. The **Edit Route Sequence** screen is displayed. The top map displays the current sequence of stops, and the bottom map - the resequenced route. Notice the map legend in the lower left corner of the screen.

FleetMind	Division Fleetmind	- v		FleetLink Route System	m	
admin						
	Routes • Inventory • Customers • Reference Data •	GeoZones ·	- Reports	• Users • Help •		
Edit Route Sequence						Ŷ TIP:
Current – DISTANCE: DURATION:			Route I	Name: MB-RT-GB, Truck: MB-743, Total Stops : 15		Map markers
		Reseque Original Sequence	New Sequence	S Address		To hide or show map markers, click the toggle switch in the lower right corner of the screen.
Optimized — DISTANCE: DURATION:						
LAVAL	0	0	0	6797 Boulevard Newman Montreal QC H8N 3E4		
	волсн	0	0	2075 Boulevard Chomedey Lavar GC H71 082		
	19 125 0 -	0	0	7600 Boulevard Viau Montreal QC H7T 0B2		Hide Man Markers
440 0		0	0	17000 Route Transcanadienne Nontreal OC H9.12M5		Tilde Map Markers
	132	0	0	6140 Boul Henri-Bourassa E montreal QC H1S 2P3		
13	DINGUE	0	0	5205 Boulevard Robert-Bourassa Montreal QC H7E 0A3		Υ.
		0	0	8445 Rue Ontario E, Montréal Montreal QC H1L3E7		
	116	0	0	9050 Boulevard de l'Acadie Montreal QC H4N2Y8		\bigcirc
		0	0	3025 Rue Sherbrooke E Monteal QC H1W1B2		
	13	0	0	2225 Boul Crémazie E Montreal QC H1Z 4N4		Show Map Markers
		0	0	3180 Rue Wellington Montreal QC H4G 1T3		
DORNAL	Copyright © Telogis, HERE	0	0	7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4		0
🗲 First Stop ┥ Last Stop 📮 Unique addr	iress 🖵 Repeating addresses 👰 Facility address		* Dou	uble click new sequence field to change value		

5. To select the resequencing mode, click the down arrow in the field beside **Resequencing Mode** to access the drop-down menu, and then click the option you want to use.

Route Na	me: MB-RT-GB, Truck: MB-743, Total Stops : 15	
Resequencing Mode		•
	 By timestamp Like another route Breadcrumb trail By route attributes	
≣ 0		8

The screen is refreshed to display the corresponding route attributes, and the **Re-sequence** button _____ appears.

- 6. Before proceeding with the resequencing operation, you can review and re-organize the list of stops by performing the following steps:
 - To sort the list in ascending or descending alphabetical/numerical order, click column headers: **Original Sequence**, **New Sequence**, and **Address**.
 - To filter the list, type a string of text in any of the text fields under column headers. The list will display only the results with matching text.
 - To zoom in on any stop on the map, click in its respective row of the Address column.
 - To change the sequence value for any stop, double-click it in the **New Sequence** column.
 - To assign sequence values to stops in increments of 10, click the **Space New Sequence values by 10** button.



Note: Default new sequence

If you are resequencing a brand new route, the values in the New Sequence column will defalut to increments of 10.

This operation may help you add stops in the future without disturbing the order of stops that follow the added stop.

- 7. Proceed with the resequencing operation. See the following sections for specific steps:
 - Resequencing in the By timestamp mode
 - Resequencing in the Like another route mode
 - Resequencing in the Breadcrumb trail mode
 - Optimizing a route
- 8. Once the resequencing process is completed, observe the following:
 - The bottom map is refreshed to display the resequenced route.
 - The time and distance attributes of the resequenced route are displayed above the bottom map.
 - The list of stops is refreshed to reflect the new stop sequence.

Resequencing in the By timestamp mode

Using this mode, you can resequence a route based on the confirmation timestamps for the most recent execution of the route.

1. Select the **By timestamp** mode from the **Resequencing Mode** drop-down menu.

Resequencing Mode	- *
	By timestamp Like another route Breadcrumb trail By route attributes

2. Select a truck from the **Truck** drop-down menu.

Resequencing Mode	By timesta	imp		Ŧ
Truck	104	•	Date	 ٣
	104 105			
	CWS04 CWS05	w		

3. Select a date from the **Date** menu.

Resequencing Mode	By timestamp			۳
Truck	104 🔻	Date		•
			 09-Aug-2019 08-Aug-2019 07-Aug-2019	
			06-Aug-2019 05-Aug-2019	

4. Click the **Re-sequence** button **O** to initiate the resequencing process.



The page is refreshed, displaying the changes in the bottom map panel.

NOTE: Can't resequence

If the system is unable to find the information to resequence a route by timestamp, the following message is displayed at the bottom of the screen:

Can't sequence! Did not find any confirmations by vehicle ER17 on 2019-06-05

If this happens, try selecting a different truck and/or a different date from the corresponding drop-down menus.

- 5. Complete the operation by doing one of the following:
 - To discard your resequencing changes, click the **Undo** button . The route sequence is reversed to the original.

-OR-

• To save changes, click the **Save** button . The new route sequence is saved

Resequencing in the Like another route mode

Using this mode, you can resequence a route based on the sequence of another route.

1. Select Like another route from the Resequencing Mode drop-down menu.



2. Select a route from the **Similar to** drop-down menu.



- Click the **Re-sequence** button
 to initiate the resequencing process. The page is refreshed, displaying the changes in the bottom map panel.
- 4. Complete the operation by doing one of the following:
 - To discard your resequencing changes, click the Undo button . The route sequence is reversed to the original.

-OR-

• To save changes, click the **Save** button The new route sequence is saved.



Resequencing in the Breadcrumb trail mode

Using this mode, you can resequence a route based on a breadcrumb trail of a vehicle that was working in the route area during the specified date.

1. Select **Breadcrumb trail** from the **Resequencing Mode** drop-down menu.



1 NOTE: Advanced options

When you select the **Breadcrumb trail** resequencing mode, a new **Advanced Options** button becomes available on the screen. For details, see the *Understanding advanced options* section.



Resequencing Mode	Breadcrun	nb trail			*
Truck	ER17 ER10 ER11 ER12 ER14 ER15 ER16 ER17	v	Date	06-Aug-2019	•



3. Select a date from the **Date** calendar menu.

True	ck E	R17 T	Date	06-Au	g-2019	Ì		•			
				<			Augu	st 2019			>
					Sun	Mon	Tue	Wed	Thu	Fri	Sat
				31	28	29	30	31	01	02	03
				32	04	05	06	07			10
	© ບ			33	11	12	13	14	15	16	17
Common Txt Orig	Common Txt New	Address		34	18	19	20	21	22	23	24
				35	25	26	27	28	29		31
0	0	2055 rue St Mathie	eu Montreal EA	36							
10	10	2020 Boulevard Re	obert-Bourassa								
20	0	2020 Boulevard Ro	obert-Bourassa	Tod	lay	Clear				D	one
30	20	1554 Rue Peel Mo	ntreal EAST OF	HJA				-		_	_

4. Make selections from the Advanced Options menu. For details, see the Understanding advanced options section.

5. Click the **Re-sequence** button **O** to initiate the resequencing process. The page is refreshed, displaying the changes in the bottom map panel.



1 NOTE: Unsatisfactory results

If the results of resequencing are not satisfactory (i.e. there is a significant number of stops with a value of **0** in the **New Sequence** column), refer to the **Troubleshooting resequencing in breadcrumb trail mode** section.

NOTE: Resequencing error

If the system was unsuccessful gathering data for resequencing in the breadcrumb trail mode, the following message may be displayed at the bottom of the screen.

Error! The request is rejected because of An unexpected error.

If this happens, try selecting a different vehicle, or a different date, and then repeat step 5.

- 6. Complete the operation by doing one of the following:
 - To discard your resequencing changes, click the **Undo** button . The route sequence is reversed to the original.

-OR-

• To save changes, click the **Save** button . The new route sequence is saved.

Understanding advanced options

When you select the **Breadcrumb trail** resequencing mode, a new **Advanced Options** button becomes available on the screen.



Click the **Advanced Options** button to access the **Advanced Options** pop-up dialog. It provides a set of parameters that you can adjust to troubleshoot and fine-tune your breadcrumb trail resequencing.

Anchor Point	Conta	iner locat	ion	٣	Corrid	or Width	50	•	0
Adjacent point	filtering (distance	6		0				
Maximum valio	speed	25	•		GPS posit	ion sampl	ing 15	5	0

Refer to the following table for descriptions of available parameters.

Parameter	Description	Default Value
Anchor point (container or customer)	The point of reference for measuring distance from the GPS trail: container assumes curbside anchor, customer assumes property centroid anchor.	N/A
Corridor width* See Troubleshooting resequencing in breadcrumb trail mode.	Centered on the GPS trail, this value is used for gauging the distance to collection anchor points on either side of the truck. A corridor value of 50 meters suggests a lane of 25 meters on either side of the truck.	50 meters
Adjacent point filtering distance	Used to eliminate excessive redundant GPS points on the map to create a smoother GPS trail.	6 meters
Maximum valid speed* See Troubleshooting resequencing in breadcrumb trail mode.	Criterion used to determine when a vehicle is simply driving down a road, as opposed to performing collection services.	25 km/h
GPS position sampling (default 15 seconds)	Used to determine 'Maximum valid speed' between 2 GPS points if speed value is not available in Vehicular Data.	15 s

Troubleshooting resequencing in breadcrumb trail mode

In this section you will find some tips for using FleetLink Map and advanced options to help you resequence a route in the breadcrumb trail mode.

When resequencing in the breadcrumb trail mode, the matching is done based on the property centroid located closest to the breadcrumb. The breadcrumb sequence is used to assign a sequence number to every stop in the route. Stops that cannot be matched remain unsequenced, are given a sequence number of **0** or **1**, and thus flagged for review.

If the result of resequncing a route in the breadcrumb trail mode is unsatisfactory, you can use FleetLink Map to find a route that may suit better for this task. You can then use this route's information, as well as advanced options, to help you resequence the route of interest.

To resequence a route in the breadcrumb trail mode with the help of FleetLink Map and advanced options:

1. Log in to FleetLink Map and navigate to the **Route View** screen for the route of interest. For details, refer to the **FleetLink Map User Guide**.



2. Verify that the breadcrumb trail used by the driver has actually covered all the stops assigned to the route (i.e., the driver ran a complete route) for a given date.



If you see multiple trucks in the **Confirming Vehicles** list, then it is likely that another truck helped and you do not have a complete breadcrumb trail for sequencing.

QTIP: Using a different route's sequence

- Some customers use the breadcrumb trail of a garbage collection route to sequence a recycling route because, when choosing a different date, it does not necessarily have to be the exact truck that ran the route.
- Customers that have tablets or handhelds sometimes will have a dedicated supervisor run the "perfect" route in their pick-up trucks, and then naming the route with a prefix to find it easier.
- 3. If you determine that the route has been serviced by more than one vehicle, try switching to prior weeks to find one when the entire route was completed by only one truck.
- 4. Once you have located a suitable route, make a note of the name and date, and proceed to FleetLink Route System for route resequencing.
- In FleetLink Route System, return to the Edit Route Sequence screen for the route of interest (see steps 1-3 of the Resequencing overview section) and select the Breadcrumb trail option from the Resequencing Mode drop-down menu.
- 6. From the corresponding menus, select the truck and date of the route you made a note of in step 4.
- 7. Click the **Re-sequence** button **O** to initiate the resequencing process and then review the results.

Common Txt Orig	Common Txt New	Address	
0	U	1365 Lydia Ave W Roseville MN 55113	
0	0	1666 Ridgewood Ln N Roseville MN 55113	
0	0	1746 Skillman Ave W Roseville MN 55113	
2	10	1733 Eldridge Ave W Roseville MN 55113	
4	20	2206 Midlothian Rd Roseville MN 55113	
6	30	1637 Ridgewood Ln N Roseville MN 55113	
8	40	1617 Ridgewood Ln S Roseville MN 55113	
10	50	1629 Ridgewood Ln S Roseville MN 55113	

- 8. Depending on the outcome, perform one of the following steps:
 - If the results are satisfactory, proceed with saving the changes. See step **6** of the **Resequencing in the Breadcrumb** *trail mode section.*

-OR-

• If there is a significant number of stops with a value of **0** in the **New Sequence** column, do not save the resequencing changes, and proceed to the next step.

NOTE: About unsequenced stops

There are typically two reasons why stops remain unsequenced, both involving settings for the default parameter values in the **Advanced Options** dialog:

Corridor Width: Specifies the maximum distance from breadcrumb trail tolerated for inclusion in sequence. The corridor width is relevant depending on whether sequencing in high-density urban, urban/suburb, semi-rural or rural.

Maximum Valid Speed: Specifies the truck maximum speed to be considered as valid breadcrumb for sequencing. The maximum speed is useful if a truck drives multiple times in front of the container and really only want to service those in the second pass or if the container in proximity of a highway.

- 9. Click the **Advanced Options** button to access the **Advanced Options** pop-up dialog, and then perform one or more of the following steps:
 - Try increasing Corridor Width gradually from default 50 all the way to 80.
 - Try increasing Max Valid Speed from 25 to 50.

Anchor Point	Container location	n 🔻	Corridor Width	50 10	0
Adjacent point	t filtering distance	6	0	20 30 40	
Maximum vali	d speed 50	0	GPS position samp	40 50	0

- 10. Click **Save Settings** to close the **Advanced Options** dialog, and then click the **Re-sequence** button to re-initiate the resquencing operation.
- 11. Repeat steps 9-10 until you have achieved an improved resequencing results and then save your work.
- 12. Review the results and then perform one of the following steps:
 - · If the results are satisfactory, move on to the next task.

-OR-

• If there is still a significant number of unsequenced stops, proceed to the next step.

1 NOTE: Remaining unsequenced stops

Any stops that remain unsequenced are likely the stops where the containers need to be relocated, as they are too far away from the breadcrumb trail. To correct this, proceed to the next step.

13. Return to the **Edit Route** screen (see steps **1-3** of the *Resequencing overview* section), and then click the **Edit Positions**

button. The Edit position of containers window is displayed.

14. Find the stop of interest in the list, and then click the Show a Bin button beside it.

Edit position of conta					
k or	n 👁 to show containers on the map. 🏾 🖒 Drag container	icon to a de	esired locatio	n. ICP By clicking on save button	
	Save Positions			Satellite view	
0	Address	,	Service	3_W	
•	1733 Eldridge Ave W, Roseville MN 55113		REC 📤		
	Show a Bin thian Rd, Roseville MN 55113		REC		
5	1637 Ridgewood Ln N, Roseville MN 55113		REC		



The property centroid and container markers are displayed on the map.

15. Click the container marker and drag it toward the property centroid.



16. To save the changes, click the **Save Positions** button. The message is displayed at the bottom of the screen confirming that the new positions were saved.

New containers' position are saved successfully.!

17. To close the window, click the cross at the top right corner, and then try resequencing the route again in the breadcrumb trail mode.

Optimizing a route

With route optimization feature you can re-arrange the sequence of stops in any low-density route to make it more efficient. To optimize a route:

1. Select **By route attributes** from the **Resequencing Mode** drop-down menu.

Route Na	me: MB-RT-GB, Truck: MB-743, Total Stops : 15	
Resequencing Mode	-	•
	 By timestamp Like another route Breadcrumb trail By route attributes	
Note: Previousl	y optimized routes	
If the route has beer appear, asking you if version. Click Yes or	optimized before, a pop-up box may you want to load the previously optimized No based on your preference.	An optimized route is available. Do you want to load it? Yes No

- 2. Define the following attributes by making selections from the corresponding drop-down menus:
 - Start time the time when the driver should start working on the route
 - Start at the location where the route should start
 - Max Duration maximum time you want to allocate to servicing the route
 - End at the location where the route should end
 - Additional disposal whether an additional disposal is required at the start or end of the route.

Resequer	ncing Mode	By route attributes		•
Start time	08:00:00 08:	• 00:00	Prefer highways 🗹 Start at Main Yard	٣
Max duration	14:00:00 14:	• 00:00	End at Main Yard	Ŧ
Truck's Hoppe	er Capacity 6	Cubic Yard	s Additional Disposal None 🔻	

3. Select the **Prefer highways** check box to ensure the optimized route sequence will be built giving preference to highways for traveling from one stop to another.

Note: Truck's Hopper Capacity

The number in the field beside **Truck's Hopper Capacity** is for your information only. It is prepopulated based on the configured hopper capacity of the truck assigned to the route. To configure the truck hopper capacity, navigate to the **Edit Truck** screen by going to **Reference Data** > **Vehicles/Drivers** > **Trucks** > **Edit**

4. To start the route optimization process, click the **Re-Sequence** button **O**. While the process is running, the **Route optimization is in progress** message is displayed in the route attributes

section:

Reseque	ncing Mode	By route attributes	,
Start time	08:00:00	©00:00 ▼ Prefer highways Start at Main Yai ∰ Route optimization is in progress.	d v

NOTE: Route optimization duration

Route optimization may take several minutes, depending on how many stops there are on the route you are optimizing. You can exit the resequencing screen and move on to other tasks. Route optimization process will continue running in the background.

Once the process is finished, the **Route optimization is complete** message is displayed and the bottom map is updated with a new route sequence.



Reseque	ncing Mode	By route attributes	۳
tart time	06:00:00	06:00:00 🔻 Prefer highways 🗹 Start at MTL-Main	Ŧ
		Route optimization completed.	
lax duratior	06:00:00	06:00:00 T End at MTL-Main	¥
ruck's Hop	per Capacity	7 Cubic Yards Additional Disposal None •	
=			E)
=			
Sequence	New Sequence	Address	
1	10	Yard (MTL-Main) Meloche, Montreal	
1 0	10 20	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4	
1 0 0	10 20 30	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4	
1 0 0	10 20 30 40	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4 3180 Rue Wellington Montreal QC H4G 1T3	
1 0 0 0	10 20 30 40 50	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4 3180 Rue Wellington Montreal QC H4G 1T3 2877 Chemin de Chambly Montreal QC J4L 1M8	
1 0 0 0 0 0	10 20 30 40 50 60	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4 3180 Rue Wellington Montreal QC H4G 1T3 2877 Chemin de Chambly Montreal QC J4L 1M8 3025 Rue Sherbrooke E Monteal QC H1W1B2	
1 0 0 0 0 0 0 0	10 20 30 40 50 60 70	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4 3180 Rue Wellington Montreal QC H4G 1T3 2877 Chemin de Chambly Montreal QC J4L 1M8 3025 Rue Sherbrooke E Monteal QC H1W1B2 8445 Rue Ontario E, Montréal Montreal QC H1L3E7	
1 0 0 0 0 0 0 0 0 0 0	10 20 30 40 50 60 70 80	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4 3180 Rue Wellington Montreal QC H4G 1T3 2877 Chemin de Chambly Montreal QC J4L 1M8 3025 Rue Sherbrooke E Monteal QC H1W1B2 8445 Rue Ontario E, Montréal Montreal QC H1L3E7 Facility (FCRBI) "Henri-Bourassa E,H1C1G6	
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1 0 0 0 0 0 0 0 0 0 0	10 20 30 40 50 60 70 80 90 100	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4 3180 Rue Wellington Montreal QC H4G 1T3 2877 Chemin de Chambly Montreal QC J4L 1M8 3025 Rue Sherbrooke E Monteal QC H1W1B2 8445 Rue Ontario E, Montréal Montreal QC H1L3E7 Facility (FCRBI) "Henri-Bourassa E,H1C1G6 6140 Boul Henri-Bourassa E montreal QC H1S 2P3 6299 Rue Jarry E Montreal QC H1P1W1	
1 0 0 0 0 0 0 0 0 0 0 0 0 0	10 20 30 40 50 60 70 80 90 100 110	Yard (MTL-Main) Meloche, Montreal 7200 Boulevard de Sainte-Anne de Bellevue Montreal QC H4B 1T4 6797 Boulevard Newman Montreal QC H8N 3E4 3180 Rue Wellington Montreal QC H4G 1T3 2877 Chemin de Chambly Montreal QC J4L 1M8 3025 Rue Sherbrooke E Monteal QC H1W1B2 8445 Rue Ontario E, Montréal Montreal QC H1L3E7 Facility (FCRBI) "Henri-Bourassa E,H1C1G6 6140 Boul Henri-Bourassa E montreal QC H1S 2P3 6299 Rue Jarry E Montreal QC H1P1W1 7600 Boulevard Viau Montreal QC H7T 0B2	
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NOTE: Container volume and volume units

In order for route optimization to work correctly, all container volumes must be preconfigured using correct volume units, for example, use cubic yards, gallons, but not meters, yards, tons, etc. To add and configure containers, go to **Inventory** > **Add New Container**.

5. Review the optimized route, and then do one of the following:

• If the results are not satisfactory, you can try repeating step 4.

-OR-

• To save changes, click the **Save** button . The new route sequence is saved.

Understanding and troubleshooting messages

Optimization failed

When the system is unable to complete route optimization, the following message may be displayed:



To troubleshoot this message:

1. Click the information icon 🕄 A detailed error message is displayed with information on what went wrong.



2. Correct the issues that caused the error, and then try optimizing again. If you are not sure how to correct the issues, contact your system administrator.

Optimization rejected

When you click the **Undo** button after completing a route optimization operation, the following message may be displayed:

Rosequencing M	ode By route attributes	Truck: MB-743, Total Si	tops : 19	
Start time 06: po.t	0 06.00.00 •	Prefer highways 🗹 Sta	art at MTL-Main	٣
Max duration 06:00:0	00 06:00:00	En	d at MTL-Main	¥
Truck's Hopper Capa	city 7 Cubic Yard	ds Additional Disposal	None V	
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Notice that the **Save** button 🕒 becomes disabled.

• In order to save the optimized route sequence, run the optimization again.

Route contents changed

The following message may be displayed when you click the **Re-sequence** button:

Warning!	
The contents of this route was changed since the last time it was optimized.	
	Ok

It means that the route has been edited after it was last optimized, for example, stops may have been added or removed.

• Click **OK** to close the message and proceed with your next step.

Support Information

Contact customer service

- Technical Support: 1.888.639.1666
- General Enquiries: 1.888.639.1666
- Email: support@fleetmind.com

Product information

For product information and related documentation, please visit the Safe Fleet Community:

- <u>https://community.seon.com/</u>
 - Please contact Technical Support if you do not have credentials to log in.