

Building and Optimizing Routes with Fleet Routing

08/11/2026 11:53 am CDT



Fleet Routing also includes the Route Optimization feature. Not sure which routing tool to use?

Check out the article [Understanding Route Optimization and Fleet Routing](#).

Overview

Fleet Routing assigns and optimizes a group of appointments across multiple Service Agents or teams. It helps distribute work efficiently by considering appointment locations, service durations, available resources, required skills, GeoZone restrictions, and other active routing constraints.

After a route solution is generated, you can review the suggested assignments, adjust the order of stops, and commit each route to the calendar. Fleet Routing is especially useful when scheduling a large number of appointments or coordinating routes across several Service Agents, teams, or starting locations.

Fleet Routing is an add-on service. If it is not included in your serviceminder subscription, you will not be able to use this feature. You can purchase Fleet Routing through Marketplace or speak with your Brand Administrator for approval.

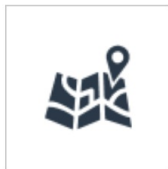
This article will review:

- Fleet Routing Settings
- Building Routes
- Route Builder Settings
- Reviewing and Committing a Route
- Building Multiple Routes Back-to-Back
- Multiple Starting Locations or Depots
- Route Constraints and Calculations
- Printing Work Orders
- FAQs

Fleet Routing Settings

General Settings

To review your Fleet Routing settings, navigate to **Control Panel > Tools > Route Settings**.



Routing

Manage route settings and monitor usage.

Here, you can review the vehicle count included in your billing plan and access the available configuration options.

Route Settings

Billing

Your current billable routing vehicle units is 1

Route Optimization Settings

Use these settings to control the behavior of serviceminder.io's Routing Add-on.

Initial Start Time

☐ Include initial appointment drive times for first start time

Check this box to set the start time for the first appointment to be the availability start time plus the initial drive time.

Commit Confirmations

☒ Send appointment confirmations when a route solution is committed

Hold Route Builder Edits

☐ Hold Route Builder edits until save

Route Optimization Settings include:

- **Initial Start Time:** Check this box to set the start time for the first appointment to be the availability start time plus the initial drive time.
- **Commit Confirmations:** Enable this to send appointment confirmations automatically when a route solution is committed. If reminders are not sent when you commit a route, you have two other options:
 - Select **Resend Confirmations** after committing the route to manually send appointment reminders.
 - Configure **Appointment Notifications** in the Control Panel so emails are automatically sent to queued appointments at a specified time each day.
- **Hold Route Builder Edits:** Edits to the route builder configuration will not apply until saved.

Routing Breaks

Add...	Label	Starts	Duration
Edit Delete		12:00p	30 mins

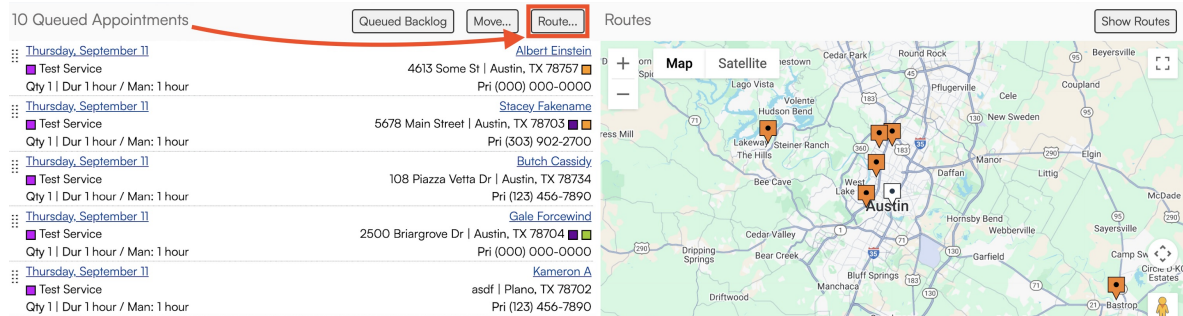
Routing Breaks reserves blocks of time when the routing engine cannot schedule appointments. Use Routing Breaks for meal or rest periods, warehouse resupply stops, or other planned pauses during the workday.

Building Routes

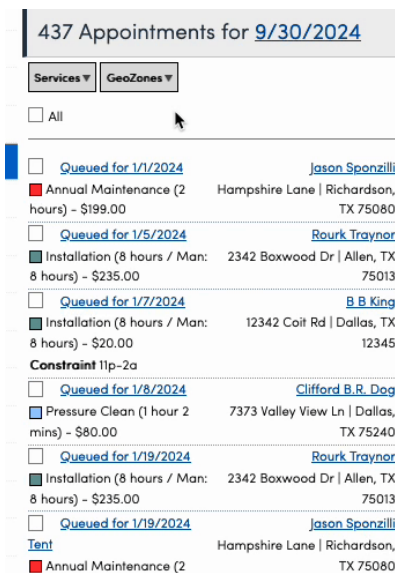
1. Open the calendar in **Day View**.
2. Find the **Queued Appointments** list below the active Service Agents and teams. If the list is empty,

no appointments are currently awaiting assignment.

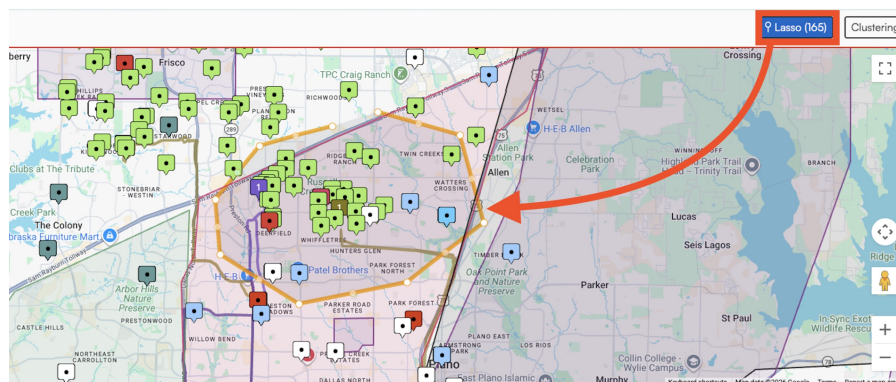
3. Select **Route** to open the Route Builder.



4. Filter appointments by Service or GeoZone, if desired. Then select appointments individually or select **All** to include all available appointments.



4. You can also use the lasso tool to select a group of appointments directly from the map. Select Lasso from the top right corner, then click individual points to build a shape around the area you want to lasso.



5. The Route Builder also displays the Existing Schedule (appointments already scheduled on the

calendar). Current Appointments can be reviewed alongside queued appointments and included in a new route solution.

Settings

Optimize

Route Solution

Existing Schedule

Name

Example Route

Load

100 %

Duration Scale

0..1

Options

☒ Disable Demand

Current Appointments

Service: 8a-5p

Friday, July 31 at 9:00a

Grass Cutting (30 mins)

3085 Glendale Blvd | Los Angeles, CA 90039

Alain Proviste



The Route Builder lasso is different from the lasso available on the Appointments Map:

- The **Route Builder lasso** selects appointments to include in a route solution.
- The **Appointments Map lasso** selects appointments for bulk rescheduling.

See Maps and GeoZones for more information about these tools and how pin colors, dates, tooltips, and InfoZooms work across the maps.

7. Configure the appropriate Route Builder settings before optimizing (see below).

Route Builder Settings

Setting	Description
Route Name	Optional, but useful for identifying and tracking route solutions.
Load	Determines how appointments are distributed across Service Agents or teams. For example, a value of 100% means the first Service Agent or team receives all possible appointments before the system begins assigning appointments to another resource.
Duration Scale	Adds a buffer to appointment durations to account for expected delays, such as traffic or weather. For example, a value of 1.5 increases the duration of each appointment by 50%.
Demand	Controls inventory or equipment requirements. For example, use Demand when a vehicle must carry a particular product, such as bug repellent or fertilizer.
Disable Constraints	Gives the system greater scheduling flexibility by ignoring constraints that would otherwise limit appointment assignments.
Optimize Vehicles	Builds the route solution using the fewest vehicles possible.
Balance Return Times	Use this instead of Optimize Vehicles when you want appointments balanced across Service Agents or teams. It moves stops between routes so the Service Agents or teams return at approximately the same time, rather than minimizing the total number of vehicles used.

Reviewing and Committing a Route

1. Select **Optimize** to generate an efficient route solution.

A message will indicate that you are free to continue working elsewhere in serviceminder while the solution is being created.

You are free to roam about serviceminder.io while your route solution is being built. We'll notify you when it's ready.

Routing History

Action	Created	Started	Completed	Duration	Total	Committed
	9/10/2025 12:12p	9/10/2025 12:12p	Routing		6	
View Delete	9/10/2025 12:07p	9/10/2025 12:07p	9/10/2025 12:08p	32s	10	

Review the generated route solution.

2. Look for appointments highlighted in orange. An orange highlight indicates that the appointment conflicts with a constraint.

Nala Agent		4 hours 22 mins (259 mi) 𐀀 1 𐀀 𐀀
1 - 8:00a - Jean ValJean	645 Grapevine Hwy Hurst, TX 76054	
Fri, Jul 31, 2026		37 mins (35.1 mi)
Constraint 11a-2p	☐ House Painting (30 mins,1)	
2 - 8:45a - Katie Test	1234 Service Circle Fort Worth, TX 76244	
Fri, Jul 31, 2026		15 mins (12.9 mi)
	☐ Subscription Work (30 mins,1)	
3 - 9:15a - Katie Test	1234 Service Circle Fort Worth, TX 76244	
Fri, Jul 31, 2026		0 mins (0 ft)
	☒ Pressure Clean (1 hour 2 mins,1)	

3. Contacts in red indicate that they are currently on **acredit hold** and likely should not be scheduled.

☒ Queued	Rick James	☒ Al B.
☒ Test Service (1 hour / Man: 1 hour)	1543 Main St. Bremerton, WA 98312	☒ Barb
☒ Queued	Stacey Fakename	☒ Bonn
☐ Test Service (1 hour 10 mins / Man: 1 hour 10 mins) - \$700.00	5678 Main Street Austin, TX 78703	☒ Chuc
☒ My Territory ☒ North Austin		☒ Egon
		☒ Ella V
		☒ Ghos
		☒ Myste

4. Drag and drop stops to manually adjust their order, if needed.

Route Solution Truck 2						Commit!
Summary						
						1 hour 47 mins (65.7 mi)
Name	Stops	Demand	Duration	Drive Time	Depart	Return
Barb Dywer	2	0	3 hours	22 mins (9.4 mi)	8:00a	11:27a
Al B. Right	2	0	3 hours	45 mins (27.8 mi)	8:00a	12:05p
	4	0	6 hours	1 hour 7 mins (37.2 mi)		
Thu, Sep 11, 2025						
☐ Al B. Right 45 mins (27.8 mi) 🗺️ ⌚ ⌵ 1 - 8:00a - Albert Einstein 4613 Some St Austin, TX 78757 - 11 mins (8.9 mi) 📅 Thu, Sep 11, 2025 🚚 Test Service (1 hour 30 mins,1) 2 - 10:05a - Butch Cassidy 108 Piazza Vetta Dr Austin, TX 78734 - 34 mins (19 mi) 📅 Thu, Sep 11, 2025 🚚 Test Service (1 hour 30 mins,1) 30 mins (23.6 mi) ☐ Barb Dywer 22 mins (9.4 mi) 🗺️ ⌚ ⌵ 1 - 8:00a - Gale Forcewind 2500 Briargrove Dr Austin, TX 78704 - 11 mins (3.5 mi) 📅 Thu, Sep 11, 2025 🚚 Test Service (1 hour 30 mins,1) 2 - 9:45a - Stacey Fakeaname 5678 Main Street Austin, TX 78703 - 11 mins (5.9 mi) 📅 Thu, Sep 11, 2025 🚚 Test Service (1 hour 30 mins,1) 12 mins (5.4 mi)						

5. Select **Commit** to finalize the route and apply it to the schedule. Once committed:
 - The route appears on the calendar.
 - Customers receive automatic confirmations if confirmations are enabled.
 - Each committed stop displays its sequence number on the map.
 - Committed pins use the assigned team’s color.

Recovering a Route Solution

If you leave the Route Builder without committing the solution, the suggested route remains available from Calendar Day View. You can view, accept, or decline the route solution above the Queued Appointments list.

If someone attempted to route the same appointments more than once, each attempt will be displayed in the Routing History. The route name identifies the solution, and the **Started** column shows the date it was created.

Route Solutions

Action	Name	Stops	Started	Duration	Committed
View Delete Commit!	Example Route	27	Thu, Jul 30, 2026 at 3:18p	1s	
View Delete Commit!	Example Route	6	Thu, Jul 30, 2026 at 3:15p	1s	

1026 Queued Appointments

Queued Backlog

Move...Route...

Tue, Jan 7, 2025

Annual Maintenance

Qty 1 | Dur 5 hours 30 mins | Rev \$1,646

crazy bird

5624 Pooley Ln | McKinney, TX 75071

Pri (678) 613-6148 (Home)

Avis Bird

Routes

MapSatellite

WASHINGTONOREGONIDNEVADASan Francisco

Building Multiple Routes Back-to-Back

You can build and commit multiple routes during the same Route Builder session without leaving the screen or refreshing the page.

1. Select the appointments for the first route, configure the Route Builder settings, and select **Optimize**.
2. Select View to look more closely at that proposed route. Then choose the map icon next to the

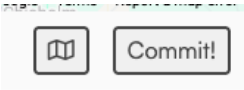
date. This will display only the appointments included in that route solution. This hides the other map items so you can review the route on its own.

Summary

						1 hour 48 mi
Name	Stops	Demand	Duration	Drive Time	Depart	
Avis Agent	13	0	6 hours 30 mins	10 mins (4.4 mi)	7:56a	
4WG	16	0	8 hours 32 mins	10 mins (3.9 mi)	7:56a	
Barb Dywer	16	0	8 hours 32 mins	13 mins (5.2 mi)	7:56a	
Al B. Right	17	0	8 hours 30 mins	10 mins (4.4 mi)	7:56a	
Bonnie McMurray	17	0	8 hours 30 mins	10 mins (4.4 mi)	7:56a	
Brentonius Maximus	12	0	6 hours 32 mins	45 mins (25.8 mi)	7:47a	
Joe Smith	15	0	7 hours 30 mins	10 mins (4.4 mi)	7:56a	
	106	0	54 hours 36 mins	1 hour 48 mins (52.3 mi)		

Fri, Jul 31, 2026 

- 3. Review and commit the route.
- 4. Select the Map Icon next to the Commit button to restore the full map.



- 5. Review everything committed so far.
- 6. Repeat the process as needed.



Committed stops retain their sequence numbers and team colors, making it easier to distinguish each team's stops as additional routes are created.

Multiple Starting Locations or Depots

For fleets with multiple warehouses, depots, or independent vendors, use the back-to-back workflow to create a separate route for each starting location.

- 1. In the route builder, select the appointments associated with the first depot using the lasso tool to select appointments within the appropriate geographic area, or by filtering the appointments by GeoZone.
- 2. Assign the appropriate Service Agents or teams.
- 3. Configure the route settings.
- 4. Optimize, review, and commit the route.

5. Return to the full map.
6. Select the appointments associated with the next depot.
7. Repeat the process until each depot has its own route.



Keep the following requirements in mind:

- Each appointment should appear in only one route.
- Each Service Agent or team should be assigned to only one route.
- The route solutions should be mutually exclusive.
- Adjust the **Load** setting as needed to balance appointments.
- Each route must be reviewed and committed individually.
- Multiple route solutions cannot be merged or committed together in a single action.

Route Constraints and Calculations

Routing Constraints limit appointment assignments based on customer preferences or geographic restrictions.

To configure Routing Constraints:

1. Open the Contact Details page.
2. Expand the contact information.
3. Select **Edit** beside **Routing Constraints**.
4. Configure the applicable limitations.

Contact Propose

Name	Stacey Fakename	Consolidate Invoices	Yes
Primary Phone	(303) 902-2700	Auto Pay	No
Email	notarealemail@123abc.com Reset Account Clear Account	Lifetime Value	\$2,300.01
Last Communication	Emailed on Wed, Jul 17, 2024 at 8:38a	Balance	\$1,899.25
Last Touch	7/17/2024 8:38a	Owned By	Katie H
Service Address	5678 Main Street Austin, TX 78703 Copy	Customer Since	7/16/2024
Community	Tarrytown	Last Service	9/8/2025
Drive	12 mins (5.4 mi)	Default Confirmation	Email to n
GeoZones	My Territory North Austin	Next En Route	
Accounting Class	Accounting Class 1	Routing Constraints	Edit...
Category	Customer	ID	7358452
Lead Source	Referral	Sync Events	View



Use constraints sparingly. The more limitations applied to a route, the fewer valid scheduling options the routing engine has, which may result in a less efficient route.

Required Skills

The system first separates appointments according to their required skills.

This creates:

- One group for appointments that do not require a skill
- A separate group for each required skill

The system then reviews the available Service Agents and matches them to the appointment groups based on their assigned skills.

If a service requires a skill and no available Service Agent has that skill, the affected appointments will be unroutable. A red banner will appear.

GeoZones

The system then separates appointments according to GeoZones.

Service Agents are grouped based on their GeoZone restrictions and assigned appointments located within those areas.

If a Service Agent has a GeoZone constraint but there are no appointments in the applicable GeoZones, that Service Agent will not receive any appointments in the route solution.

For more information about Service Agent GeoZone constraints, see [Service Agents and Subcontractors].

Required skills, GeoZone restrictions, Service Agent availability, and other active constraints can all cause appointments to become unroutable.

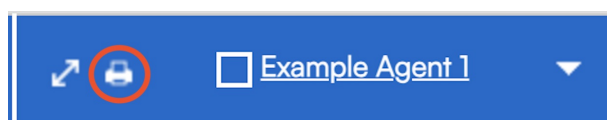
For additional information about common reasons appointments become unroutable and settings to review, see [Optimizing an Individual Service Agent's Route with Route Optimization](#)

Printing Work Orders

To print work orders for all routes, select **Print** below the Day View of the Calendar (just above the Route Solutions section). Check the box to Include Tickets to print each individual work order. This will generate one large PDF of all work orders for you to print.



To print work orders for an individual Service Agent or team, select the printer icon beside that Service Agent or team.



FAQs

Can several route solutions be committed at once?

No. Route solutions must be committed individually.

Build and optimize the first route, review it, and select **Commit** before moving to the next group of appointments.

You can remain in the Route Builder and create routes back-to-back, but each solution requires its own commit.

Can multiple routes contain the same appointments?

No. You cannot commit multiple routes containing the same appointments.

Once you commit a route, its appointment times and assigned Service Agents appear in the mobile app and on the Contact Details page.

If the work has not been completed, you can uncomplete the route and begin again. Once a stop has been completed, it cannot be changed.

What happens when an appointment is canceled in the field?

The appointment returns to the queue.

From the queue, it can be added back to the schedule for the same day or moved to another day using **Move**. Depending on the options selected, an email can also be sent to the customer.

What do Load, Duration Scale, and Balance Return Times do?

- **Load** controls how appointments are distributed across Service Agents or teams. A value of 100% means the first resource receives all possible appointments before the next resource is used.
- **Duration Scale** adds a buffer to every appointment's duration to account for delays such as traffic or weather. A value of 1.5 adds 50% to each appointment's duration.
- **Balance Return Times** distributes stops so Service Agents or teams return at approximately the same time. It is an alternative to Optimize Vehicles, which attempts to use the fewest vehicles possible.

Why is a route taking a long time to generate?

Routing a large number of appointments may take several minutes. If a route takes longer than a few minutes to generate, refresh the page. If the route solution was successfully created, your work will not be lost. You can find the solution in Calendar Day View above the Queued Appointments list.

If the solution was not created, a scheduling condition may be preventing the system from generating a valid route. Review the following before retrying:

- Contact constraints
- Service Agent or team availability
- Required skills
- GeoZone restrictions
- Other active scheduling constraints

