

# Route optimization and planning

Automatically generates optimized delivery routes when new orders arrive, considering real-time traffic, driver capacity, and delivery windows to minimize travel time and fuel costs.

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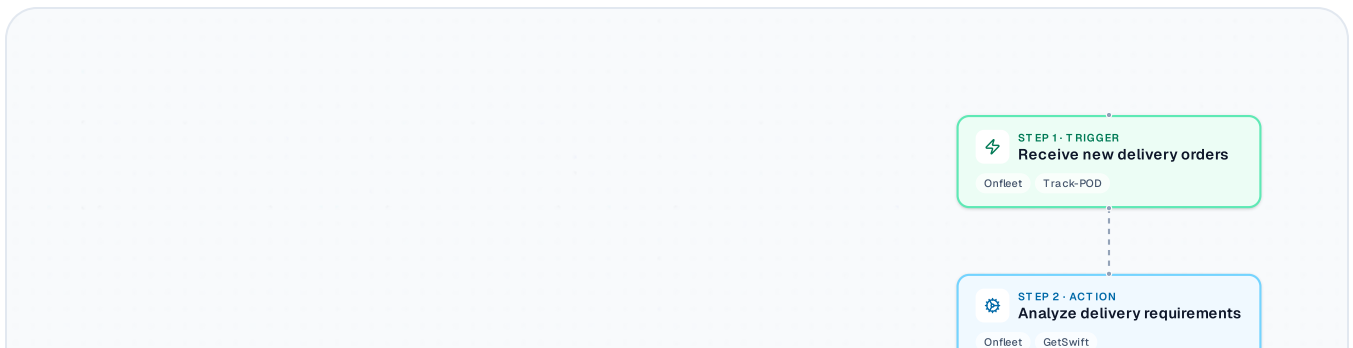


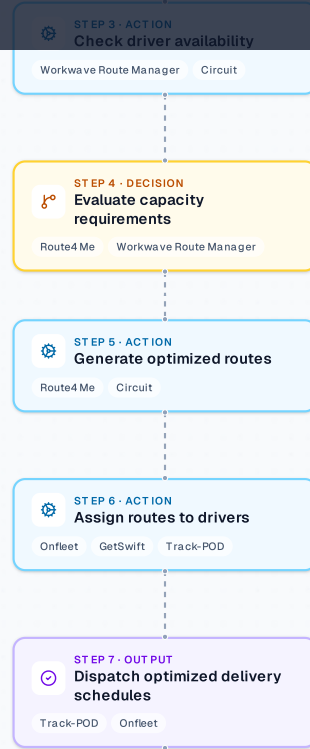
## WORKFLOW TRIGGER

New delivery orders are received and ready for dispatch

## Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

## Receive new delivery orders

System detects incoming delivery orders with pickup and drop-off locations, time windows, and package details. Orders are automatically queued for route planning processing.

Onfleet

Track-POD

2

 ACTION

## Analyze delivery requirements

Extract delivery constraints including package size, weight, special handling needs, and customer time preferences. Validate address accuracy and geocode all locations.

Onfleet

GetSwift

3

 ACTION

## Check driver availability

Query current driver schedules, vehicle capacities, and locations to determine available resources. Factor in driver skill sets and vehicle restrictions for specific delivery types.

Workwave Route Manager

Circuit

4

 DECISION

## Evaluate capacity requirements

Determine if current driver capacity can handle all orders within required timeframes. If insufficient capacity, flag for additional resource allocation or delivery rescheduling.

5

 ACTION

### Generate optimized routes

Calculate most efficient delivery sequences using real-time traffic data, distance optimization, and time window constraints. Create turn-by-turn directions for each driver.

Route4Me

Circuit

6

 ACTION

### Assign routes to drivers

Automatically distribute optimized routes to available drivers via mobile apps. Send route details, customer information, and special delivery instructions to driver devices.

Onfleet

GetSwift

Track-POD

7

 OUT PUT

### Dispatch optimized delivery schedules

Finalize route assignments and provide estimated delivery times to customers. Generate dispatch reports and enable real-time tracking for all stakeholders.

Track-POD

Onfleet



## Outputs

- Optimized delivery routes with turn-by-turn directions
- Driver assignments with estimated completion times
- Customer delivery time notifications



## Key Metrics

- Average delivery time per route
- Fuel cost reduction percentage
- On-time delivery rate



## Tools & Integrations

- Onfleet
- Track-POD
- GetSwift
- Workwave Route Manager
- Circuit
- Route4Me

## AI Business OS

## AI Business OS

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