



RESOLV VEHICLE ROUTING

USER MANUAL

Version 10.0

PRESENTED BY
VISTAVU SOLUTIONS



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SAP Business One Integration

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**RESOLV VEHICLE ROUTING
USER GUIDE**

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Introduction

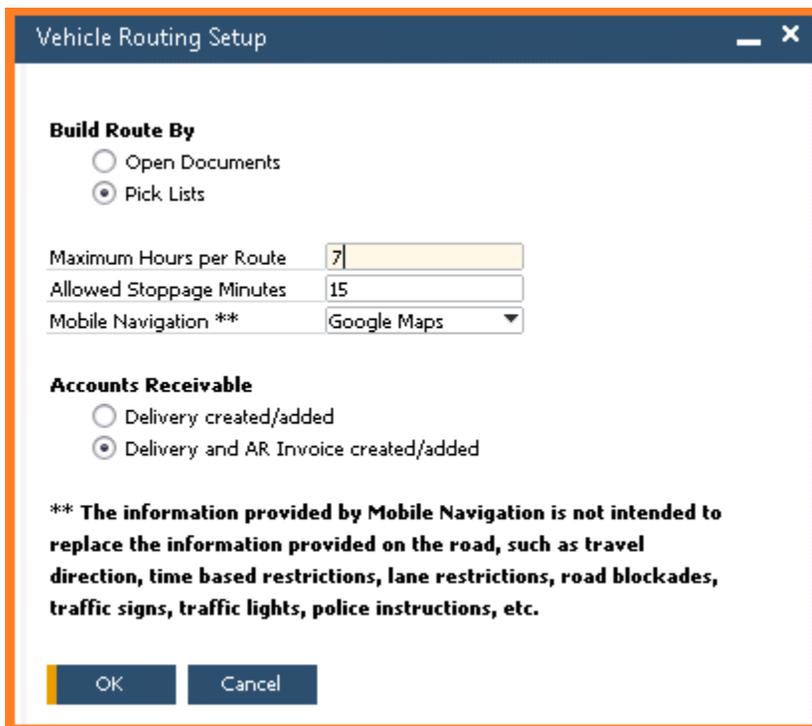
The Resolv Vehicle Routing allows you to schedule your vehicles deliver to your customers. Build routes, track vehicles, capture proof of delivery and update SAP Business One.

Setup

Vehicle Routing Setup

(Administration > Resolv Setup > Resolv Vehicle Routing > VR Setup)

This screen allows you to set certain options regarding Vehicle Routing.



Vehicle Routing Setup

Build Route By

Open Documents

Pick Lists

Maximum Hours per Route

Allowed Stoppage Minutes

Mobile Navigation **

Accounts Receivable

Delivery created/added

Delivery and AR Invoice created/added

**** The information provided by Mobile Navigation is not intended to replace the information provided on the road, such as travel direction, time based restrictions, lane restrictions, road blockades, traffic signs, traffic lights, police instructions, etc.**

Build Rout By: This determines which documents you will use to build you route. Either Open Documents or Pick Lists. For open documents, once a route id built, Advanced Allocations will generate the Pick Lists.

Maximum Hours per Route: Enter the maximum hours per route. This field is used for reference and does not affect Vehicle Routing.

Allowed Stoppage Minutes: How much time is allowed per stop. This field is used for reference and does not affect Vehicle Routing.

Mobile Navigation: Select the default navigation for the mobile user. Options are Apple Maps, Google Maps, HERE App, OsmAndApp and Waze App. This requires the Resolv Vehicle Routing GPS license.

Accounts Receivable: When completing each stop, Vehicle Routing can generate a Delivery and/or AR Invoice automatically based on this setting.

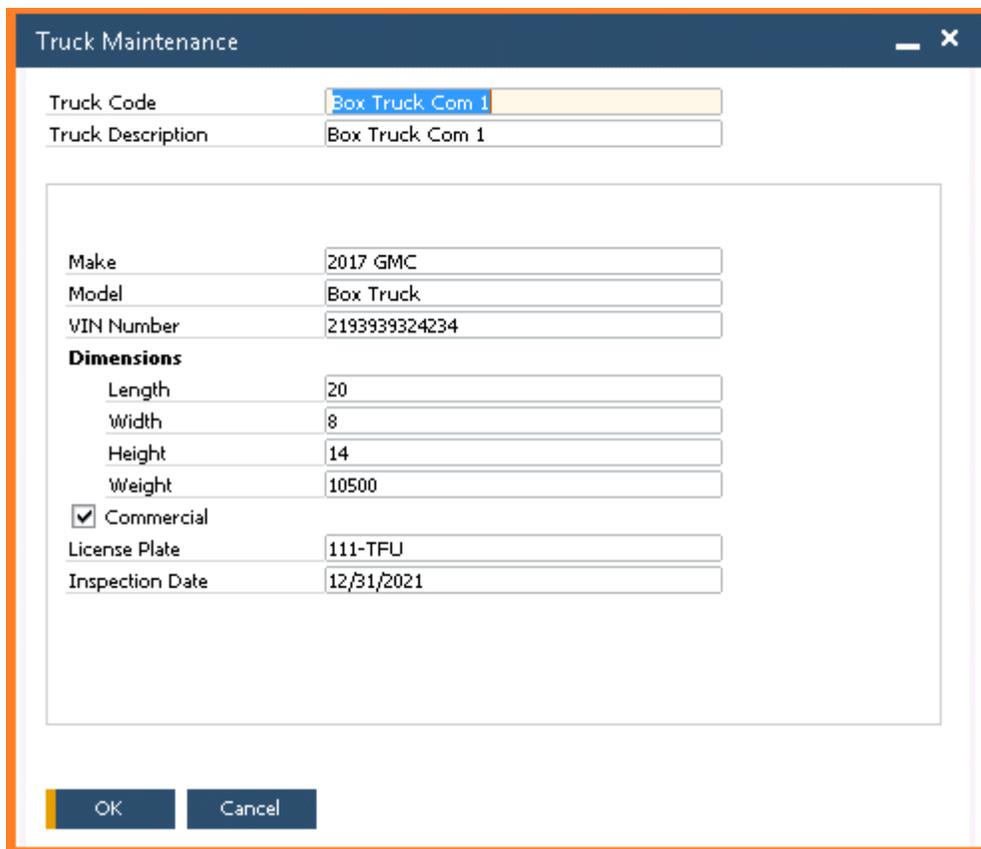
Delivery created/Added – A delivery will be automatically generated.

Delivery and AR invoice created/added – A delivery and AR Invoice will be automatically generated.

Truck Maintenance

(Administration > Resolv Setup > Resolv Vehicle Routing > VR Truck Maintenance)

You must create one or more trucks. Trucks are assigned when you build your routes. The only required fields are Truck Code and Truck Description. The other fields are optional.



Truck Code	Box Truck Com 1
Truck Description	Box Truck Com 1
Make	2017 GMC
Model	Box Truck
VIN Number	2193939324234
Dimensions	
Length	20
Width	8
Height	14
Weight	10500
<input checked="" type="checkbox"/> Commercial	
License Plate	111-TFU
Inspection Date	12/31/2021

Truck Code: Enter a code for this vehicle (50 characters)

Truck Description: Enter the vehicle description (100 characters).

Make: Enter the vehicle make.

Model: Enter the vehicle model.

VIN Number: Enter the vehicle's VIN Number.

Dimensions:

Length – Enter the vehicle's length.

Width – Enter the vehicle's width.

Height – Enter the vehicle's height.

Weight – Enter the vehicle's weight.

Commercial: Check this box if this a commercial vehicle. If checked, a warning will be displayed in Route Manager if the driver does not have a commercial license.

License Plate: Enter the vehicle's license plate number.

Inspection Date: Enter the vehicle's next inspection date. If a date is entered, a warning will be displayed in Route Manager if the inspection date is past.

Route Maintenance

(Administration > Resolv Setup > Resolv Vehicle Routing > VR Route Maintenance)

This screen allows you to create your routes. Routes are assigned to the BP Ship To and are required when you build your routes.



Route Code	RT-1
Route Description	Route 1

OK Cancel

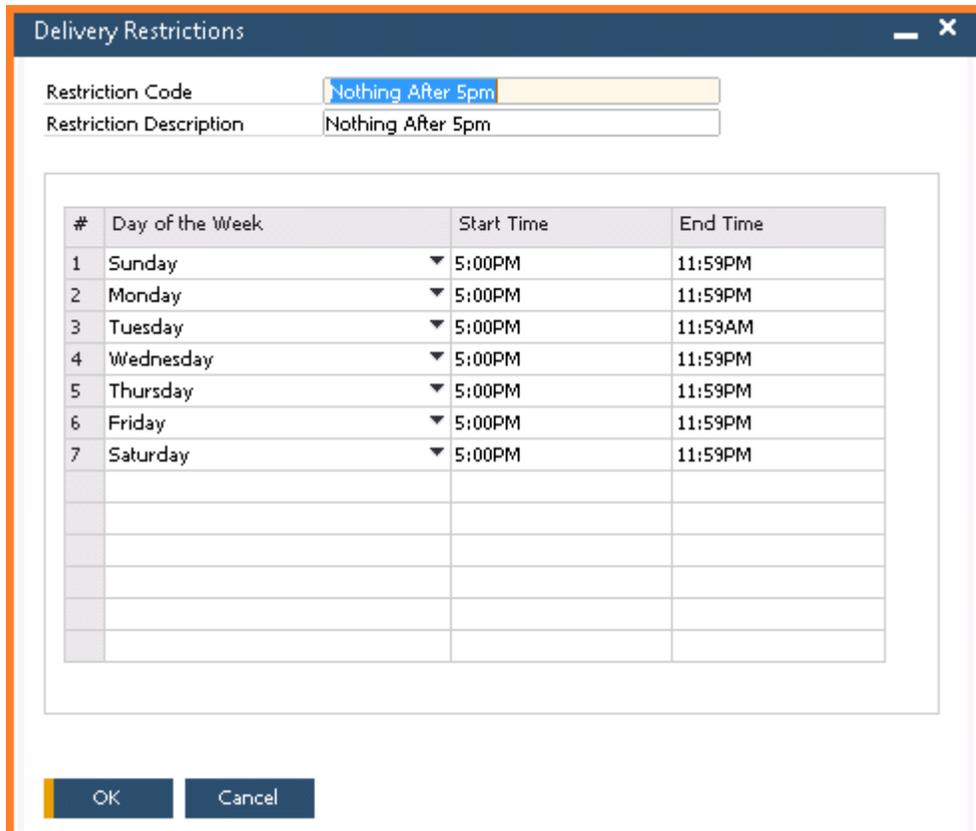
Route Code: Enter a code for this route (50 characters)

Route Description: Enter the route description (100 characters).

Delivery Restrictions

(Administration > Resolv Setup > Resolv Vehicle Routing > VR Delivery Restrictions)

This screen allows you to create your delivery restrictions. Delivery restrictions are assigned to the BP Ship To.



#	Day of the Week	Start Time	End Time
1	Sunday	5:00PM	11:59PM
2	Monday	5:00PM	11:59PM
3	Tuesday	5:00PM	11:59AM
4	Wednesday	5:00PM	11:59PM
5	Thursday	5:00PM	11:59PM
6	Friday	5:00PM	11:59PM
7	Saturday	5:00PM	11:59PM

Route Code: Enter a code for this route (50 characters)

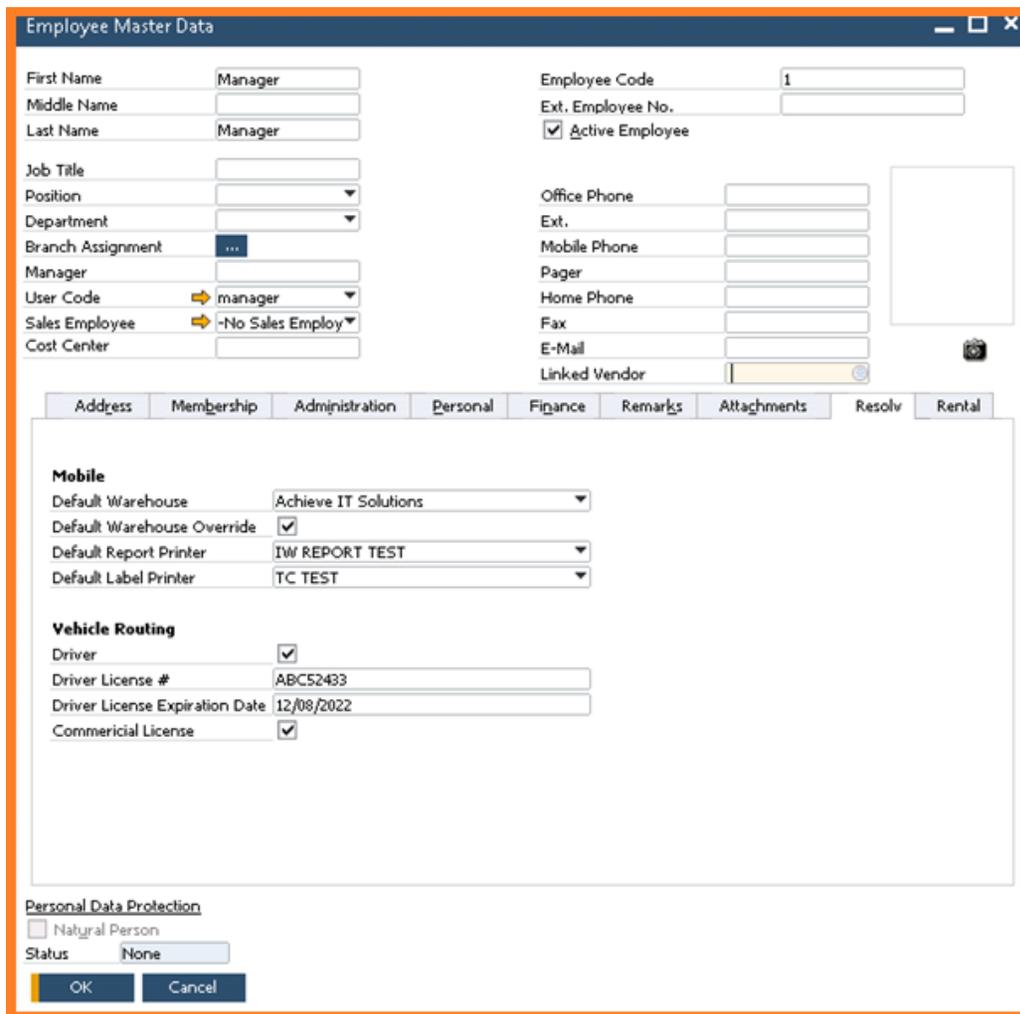
Route Description: Enter the route description (100 characters).

Here you can enter the day(s) of the week that deliveries should not occur or have time restrictions.

Employee Master

(Human Resources > Employee Master Data)

Here you setup your drivers. Each Driver must have an employee record and assigned to an SAP User Code.



Employee Master Data

First Name: Manager
 Middle Name:
 Last Name: Manager
 Job Title:
 Position:
 Department:
 Branch Assignment: ...
 Manager:
 User Code: manager
 Sales Employee: -No Sales Employ
 Cost Center:
 Employee Code: 1
 Ext. Employee No.:
 Active Employee
 Office Phone:
 Ext.:
 Mobile Phone:
 Pager:
 Home Phone:
 Fax:
 E-Mail:
 Linked Vendor:
 Address | Membership | Administration | Personal | Finance | Remarks | Attachments | **Resolv** | Rental

Mobile
 Default Warehouse: Achieve IT Solutions
 Default Warehouse Override
 Default Report Printer: IW REPORT TEST
 Default Label Printer: TC TEST

Vehicle Routing
 Driver
 Driver License #: ABC52433
 Driver License Expiration Date: 12/08/2022
 Commercial License

Personal Data Protection
 Natural Person
 Status: None
 OK Cancel

Resolv Tab > Vehicle Routing

Driver: Check this box to mark employee as a driver.

Driver License #: Enter the employee's driver license number.

Driver License Expiration Date: Enter the employee's driver license expiration date. If a date is entered, a warning will be displayed in Route Manager if the driver license is expired.

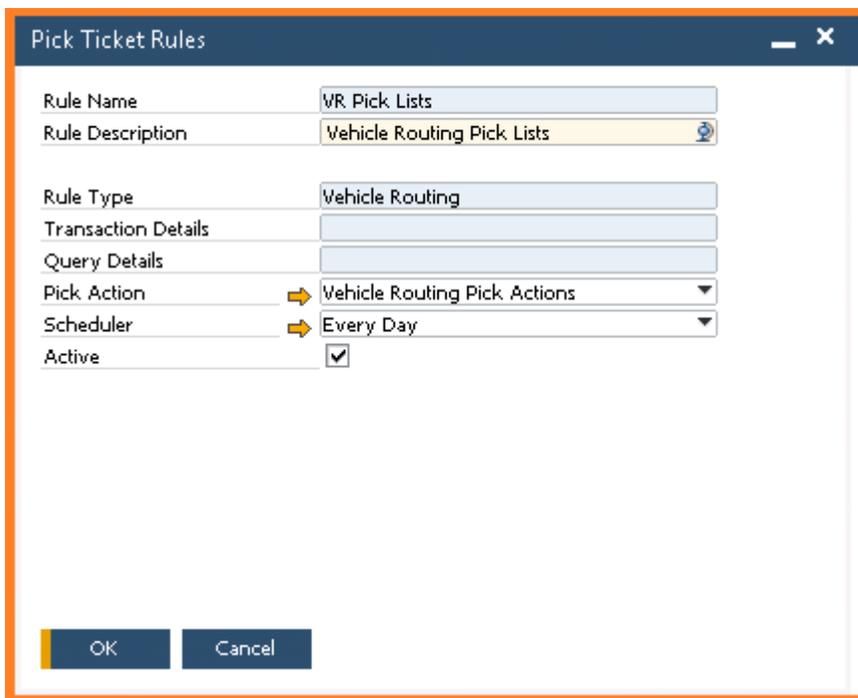
Commercial License: Check this box to if the employee has a commercial driver's license.

Advanced Allocations

When building routes by Open Documents, Advanced Allocations will create the Pick list when the route is built and ready to be processed.

(Administration > Resolv Setup > Resolv Advanced Allocations)

Pick Ticket Rules: There is a special Rule Type called “Vehicle Routing”. There need to be at least one rule configure with this rule type for Advanced Allocation to generate Vehicle Routing Pick Lists. Refer to the Resolv Advanced Allocations User Guide to configure Advanced Allocation.

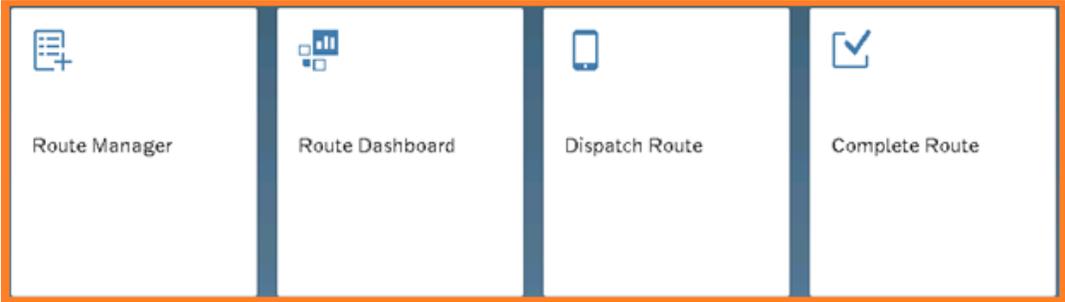


Rule Name	VR Pick Lists
Rule Description	Vehicle Routing Pick Lists
Rule Type	Vehicle Routing
Transaction Details	
Query Details	
Pick Action	Vehicle Routing Pick Actions
Scheduler	Every Day
Active	<input checked="" type="checkbox"/>

OK Cancel

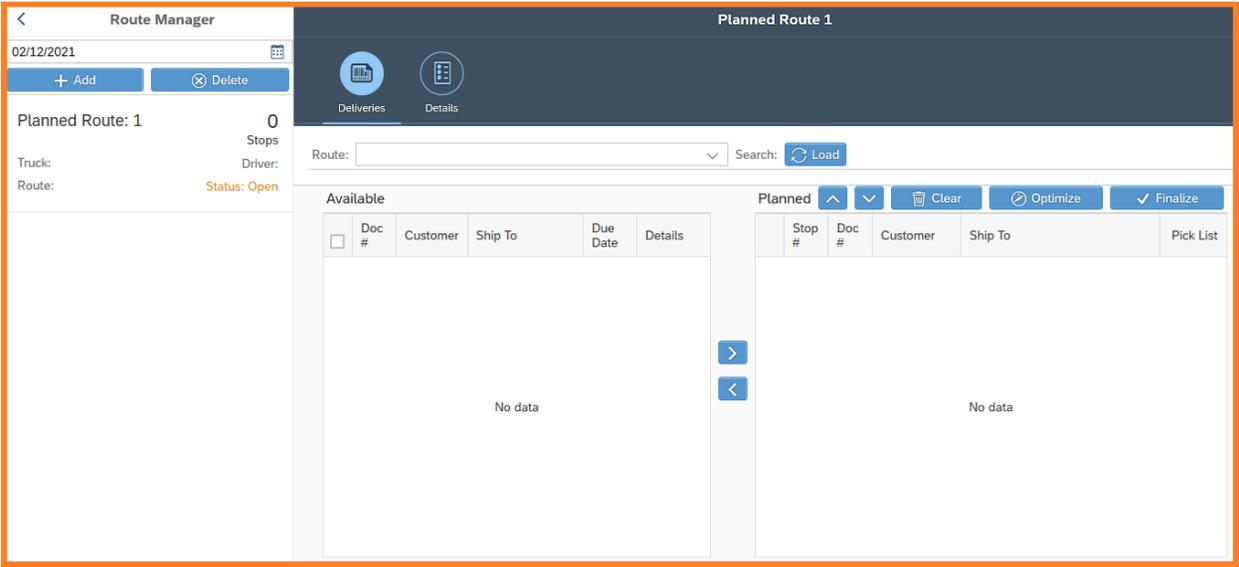
Vehicle Routing Mobile

(Main Menu > Vehicle Routing)

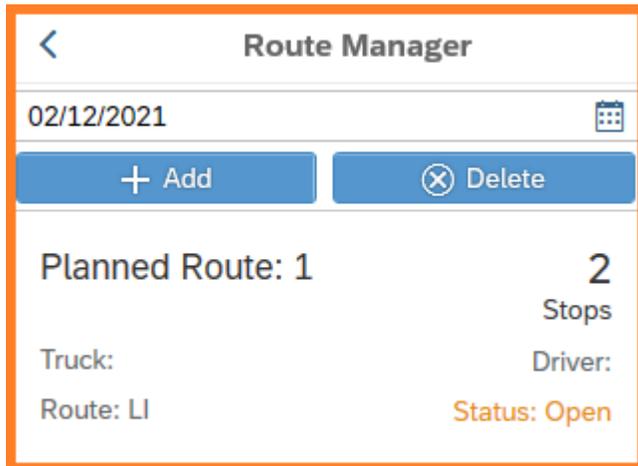


Route Manager

This screen allows you to build your routes for today.



Route Selection



Date: Select Route Date

Add Button: Creates a new route.

Delete Button: This allows you to delete this route or all routes for the specified date.

Planned Route Fields: These are informational only.

Planned Route – Today's route number.

Stops – Number of stops assigned to this planned route.

Truck – Truck assigned to this planned route.

Driver – Driver assigned to this planned route.

Route – Route assigned to this planned route.

Status – Planned route status.

Deliveries Tab

The screenshot displays the 'Deliveries Tab' interface. At the top, there are 'Deliveries' and 'Details' icons. Below them is a 'Route' dropdown menu set to 'LINY Route X' and a 'Search' field with a 'Load' button. The main area is divided into two sections: 'Available' and 'Planned'.

Available Table:

<input type="checkbox"/>	Doc #	Customer	Ship To	Due Date	Details
<input type="checkbox"/>	2513	Centerport Components -IW	180 Little Neck Rd Centerport NY 11721 USA	10/26/20 19	Details
<input type="checkbox"/>	2518	Walmart.com	17 JOHNSTONE RD GREAT NECK NY 11021-1521 USA	10/28/20 19	Details
<input type="checkbox"/>	2539	Walmart.com	17 JOHNSTONE RD GREAT NECK NY 11021-1521 USA	11/04/20 19	Details
<input type="checkbox"/>	2544	Centerport Components -IW	180 Little Neck Rd Centerport NY 11721 USA	11/07/20 19	Details
<input type="checkbox"/>	2559	Centerport Components -IW	180 Little Neck Rd Centerport NY 11721 USA	11/11/20 19	Details
<input type="checkbox"/>	2568	PPG - Syosset	125 MICHAEL DR SYOSSET NY 11791-5311 USA	11/15/20 19	Details
<input type="checkbox"/>	2613	Centerport Components -IW	640 Belle Terre Rd. Port Jefferson NY 11777 USA	11/26/20 19	Details
<input type="checkbox"/>	2656	Centerport Components -IW	640 Belle Terre Rd. Port Jefferson NY 11777 USA	12/23/20 19	Details
<input type="checkbox"/>	2665	Centerport Components -IW	640 Belle Terre Rd. Port Jefferson NY 11777 USA	12/24/20 19	Details
<input type="checkbox"/>	2666	Centerport Components -IW	640 Belle Terre Rd. Port Jefferson NY 11777 USA	12/24/20 19	Details

Planned Table:

Stop #	Doc #	Customer	Ship To	Pick List
1	773	Centerport Components -IW	640 Belle Terre Rd. Port Jefferson NY 11777 USA	0
2	866	Walmart.com	1718 SUNRISE HWY MERRICK NY 11566-3749 USA	0

Buttons above the 'Planned' table include 'Clear', 'Optimize', and 'Finalize'. Navigation arrows are present between the two tables.

Route: Select the route for this planned route and select “Load”. This will filter the available documents by the route assigned to the BP Ship To.

Available: This is the list of documents available to be selected for this planned route. To add documents to the planned route, select the check box to the left of each document and then click the right arrow to move to the Planned grid.

Planned: This is the list of documents selected for this route. You can use the up and down arrows to manually adjust the order of the stops. Use the left arrow to remove a document from the route.

Clear Button: This will remove all stops from the route.

Optimize Button: This is only available if the Resolv Vehicle Routing GPS is purchased. This will rearrange the stops based on the starting location to be the most efficient. This will overwrite manually adjusted routes.

Finalize Button: This is only available if Build Route By is set to open documents in Vehicle Route Setup. Click this once all documents have been added to the route. This will submit a request to the Advanced Allocation processor to create the pick lists.

Details Tab

Planned Route 1



Deliveries



Details

Truck: 

Driver: 

Name: Manager Manager

Commercial License: Y

Driver License: ABC52433

Driver License Exp: 12/08/2022

Commercial Vehicle: Y

License Plate: 992-GT91

Length: 26

Width: 8

Height: 8

Truck: Select the truck for this planned route.

Driver: Select the driver for this planned route.

Truck and Driver Information:

Name – Name of driver.

Commercial License – Does the employee have a commercial driver’s license.

Driver License # – Employee’s driver license number

Driver License Expiration Date – Employee’s driver license expiration date

Commercial Vehicle – Is the truck a commercial vehicle.

License Plate – Truck’s license plate number.

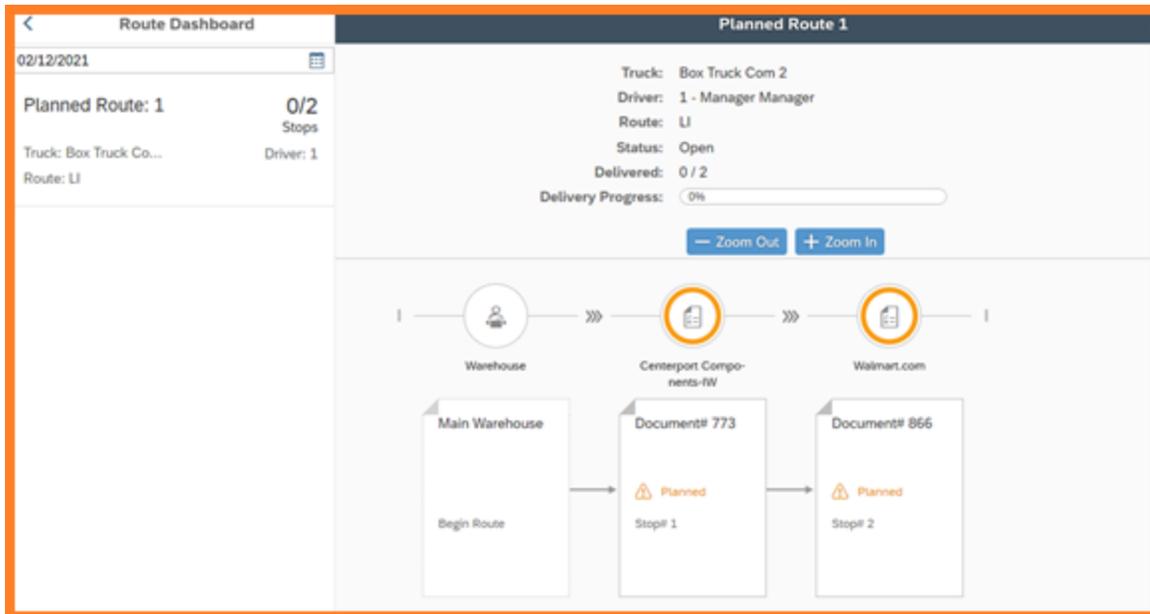
Length – The vehicle’s length.

Width – The vehicle’s width.

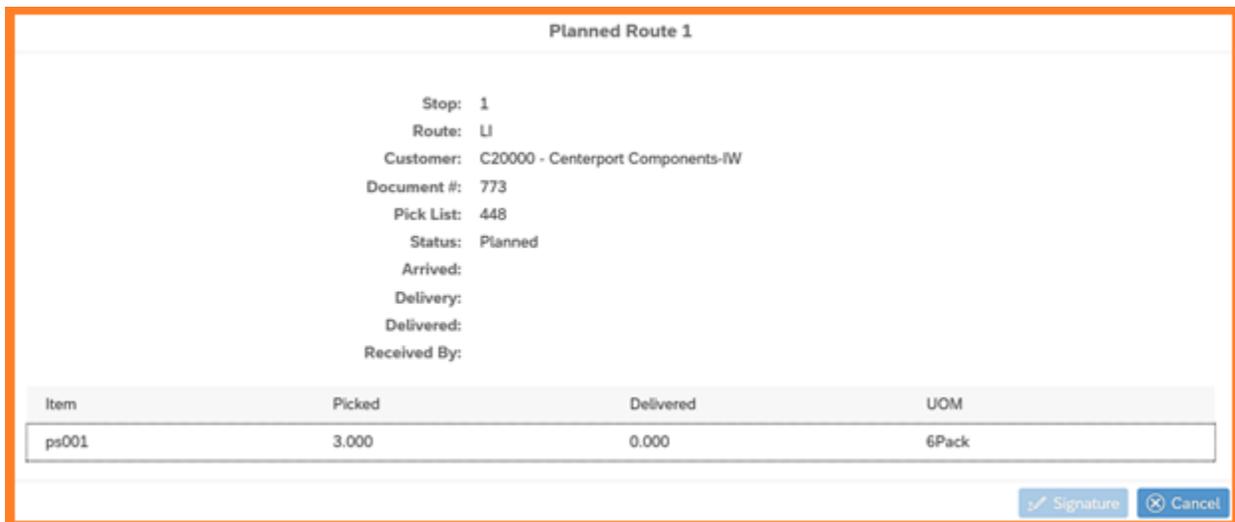
Height – The vehicle’s height.

Route Dashboard

The route dashboard allows you to view the status of each route by date. This is updated real time as the driver completes each stop.

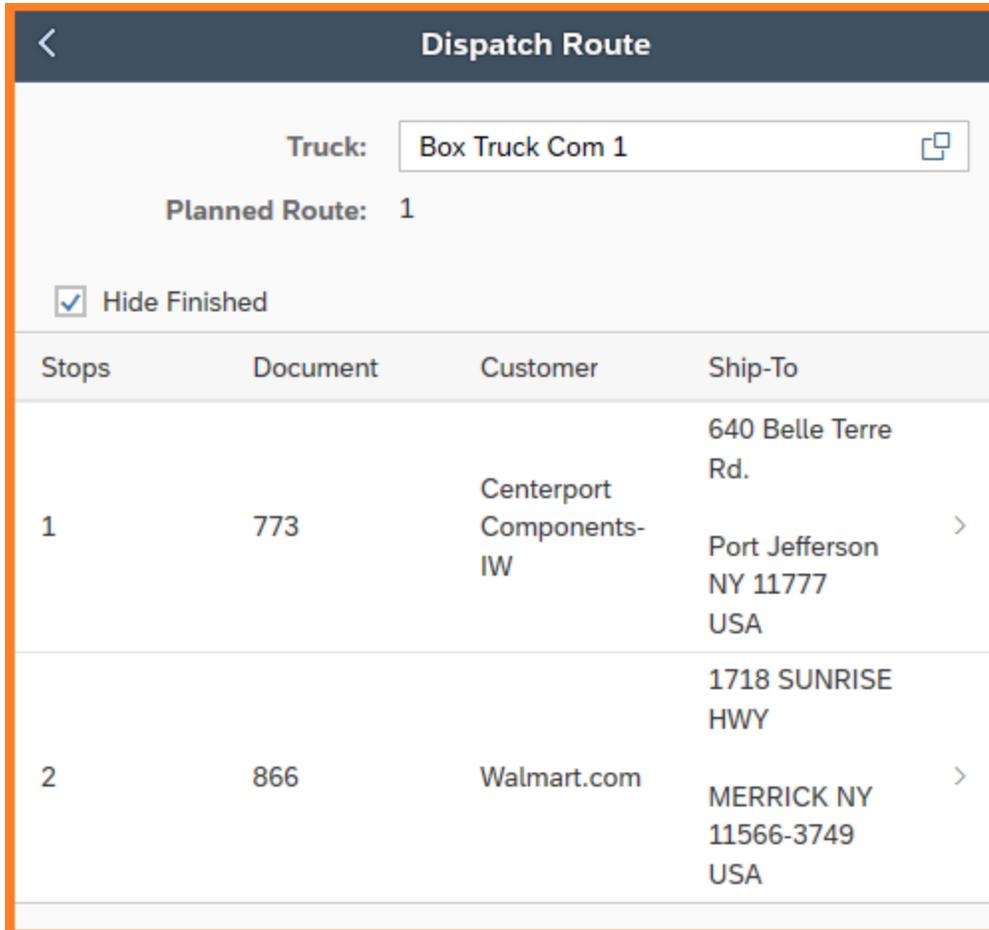


You can drill into each document to see the document details.



Dispatch Route

This screen is what the driver uses to make the deliveries.



Stops	Document	Customer	Ship-To
1	773	Centerport Components-IW	640 Belle Terre Rd. Port Jefferson NY 11777 USA
2	866	Walmart.com	1718 SUNRISE HWY MERRICK NY 11566-3749 USA

Truck: The driver selects their truck, and the planned route will populate.

Planned Route: This is the planned route number.

Hide Finished: When checked this will filter out the completed stops.

Process Flow: The driver selects the first route. If GPS is licensed, the app specified in Vehicle Routing setup will open with the driving directions in a new window. Resolv Mobile will proceed to the Dispatch Route Detail screen waiting for arrival.

Dispatch Route Detail

Arrived at Destination

Item	Ord Qty	Deliver Qty	Confirm	UOM	Bin
No data					

Confirm Delivery

When at destination, driver clicks Arrived at Destination.

Item	Ord Qty	Deliver Qty	Confirm	UOM	Bin
ps001	3.000	3.000	SAVE	6Pack	02-C-2

Here the driver confirms the item, quantity, serial, and batch information and saves each row. The red Save button will change to a green Edit button. This line is now completed. Driver repeats this until all lines are completed. Once all lines are completed, the driver select Confirm Delivery button. This will bring up the signature capture screen.

Deliver Qty – This is the quantity delivered for each item.

Save\Edit Button – This will confirm each line.

Confirm Delivery – Select this when all lines are completed.



The customer signs and enters their name in Received By field.

Signature Capture Area – Customer signs with finger or stylist.

Received By – Customer who signed for the delivery.

Clear Button – clears the signature capture and received by fields.

Accept Button – Accept the signature and completes the stop. This will create Delivery\AR

Invoice based on Vehicle Routing setting.

Cancel Button – Returns back to the Arrived At Destination screen.

Dispatch Route Detail

Arrived at Destination

Item	Ord Qty	Deliver Qty	Confirm	UOM	Bin
A00005	1.000	1.000	EDIT	Manual	02-A-0
ps001	1.000	1.000	EDIT	6Pack	02-C-2

Dispatch Route Detail

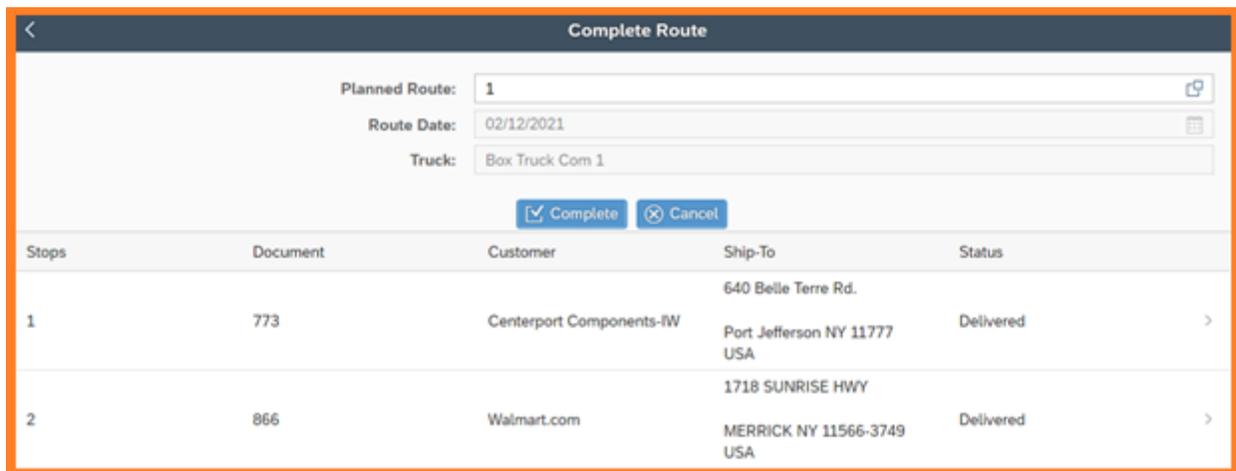
Delivery and AR Invoice: POST of all records was successful.

OK

Confirm Delivery

Complete Route

When the driver arrives back at the warehouse. The route needs to be completed. This will close the Planned route for the truck. If any inventory is not delivered or refused, the system will prompt for a return bin. The picked inventory will be transferred to the return bin and the route will be closed.



Stops	Document	Customer	Ship-To	Status
1	773	Centerport Components-IW	640 Belle Terre Rd. Port Jefferson NY 11777 USA	Delivered
2	866	Walmart.com	1718 SUNRISE HWY MERRICK NY 11566-3749 USA	Delivered

Planned Route: Select the planned route to complete.

Complete Button: Select to complete this route.

Cancel Button: Select to cancel out without updating.

Return Bin prompt when there is undelivered inventory. Accept with complete this out and cancel will return to previous screen.

