



# Waste and Recycling Service Verification Guide

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# Manage Routes

## Route Manager

The **ROUTE MANAGER** is the master record for route details and scheduling in 360. To get there, hover over the ADMIN tab and click **ROUTE MANAGER**.

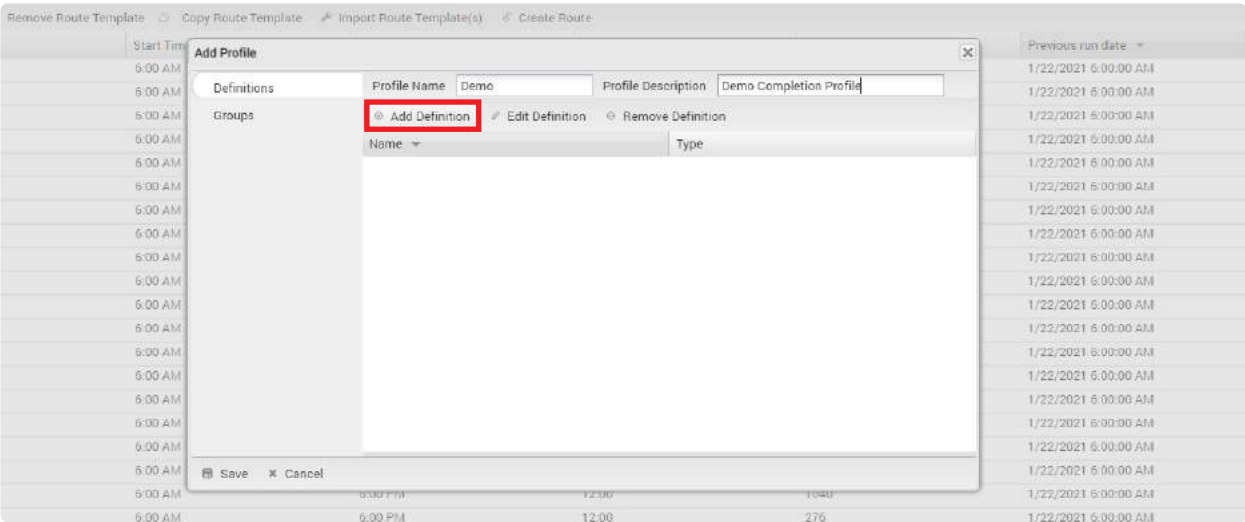
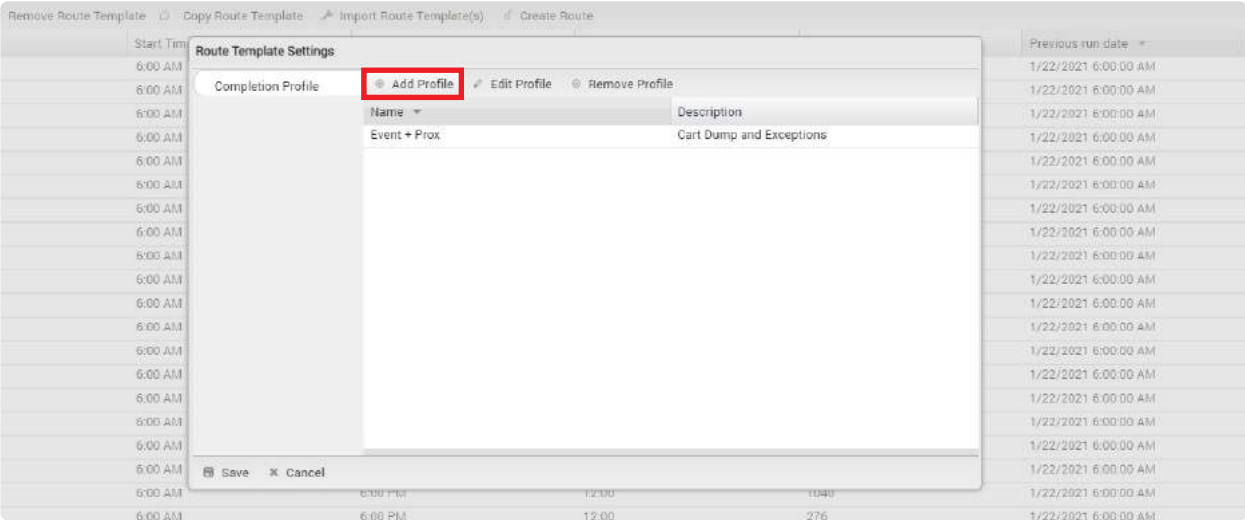
Name	Vehicle Name	Start Time	End Time	Duration	No. of Items	Previous run date	Next Run Date
1001R	WM105134	6:30 AM	6:00 PM	12:00	1099	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1002R	WM105135	6:30 AM	6:00 PM	12:00	1480	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1003R	WM105081	6:30 AM	6:00 PM	12:00	889	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1004R	WM105131	6:30 AM	6:00 PM	12:00	1227	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1005R	WM105068	6:30 AM	6:00 PM	12:00	1279	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1006R	WM105137	6:30 AM	6:00 PM	12:00	1190	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1007R	WM105138	6:30 AM	6:00 PM	12:00	1344	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1008R	WM105132	6:30 AM	6:00 PM	12:00	1193	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1009R	WM105140	6:30 AM	6:00 PM	12:00	1226	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1010R	WM105142	6:30 AM	6:00 PM	12:00	1045	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1011R	WM105145	6:30 AM	6:00 PM	12:00	1273	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1012R	WM105130	6:30 AM	6:00 PM	12:00	1272	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1013R	WM105135	6:30 AM	6:00 PM	12:00	1155	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1014R	WM105373	6:30 AM	6:00 PM	12:00	1340	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1015R	WM105133	6:30 AM	6:00 PM	12:00	1204	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1016R	WM105374	6:30 AM	6:00 PM	12:00	1104	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1017R	WM105144	6:30 AM	6:00 PM	12:00	1069	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1018R	WM105142	6:30 AM	6:00 PM	12:00	455	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1019R	WM105349	6:30 AM	6:00 PM	12:00	518	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1020R	WM104795	6:30 AM	6:00 PM	12:00	908	1/1/2021 6:00:00 AM	1/25/2021 6:00:00 AM
1021R	WM105141	6:30 AM	6:00 PM	12:00	399	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM
1022R	WM105143	6:30 AM	6:00 PM	12:00	1080	11/2/2020 6:00:00 AM	1/25/2021 6:00:00 AM

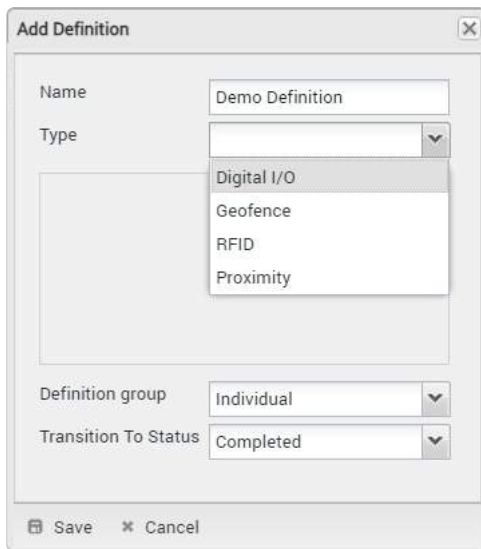
Once you have established your routes in 360, you will be able to easily adjust scheduling, assign routes to appropriate vehicles, and add/edit/remove addresses.

Prior to establishing your routes in 360, you will need to define a **COMPLETION PROFILE**, which determines how your service locations are statused (Complete, Exception, Missed). To set up your completion profile, click **GENERAL SETTINGS** in the top left hand corner of the **ROUTE MANAGER** page.

Name	Vehicle Name	Start Time	End Time	Duration	No. of Items
SR16R	WM105374	6:00 AM	6:00 PM	12:00	958
SR02R	WM105135	6:00 AM	6:00 PM	12:00	1059
SR10R	WM105142	6:00 AM	6:00 PM	12:00	1080
SR14R	WM105373	6:00 AM	6:00 PM	12:00	1098
SR21R	WM105141	6:00 AM	6:00 PM	12:00	678
SR03R	WM105081	6:00 AM	6:00 PM	12:00	991
SR04R	WM105131	6:00 AM	6:00 PM	12:00	1350
SR12R	WM105130	6:00 AM	6:00 PM	12:00	1121
SR15R	WM105132	6:00 AM	6:00 PM	12:00	1011
SR17R	WM105144	6:00 AM	6:00 PM	12:00	912
SR20R	WM104795	6:00 AM	6:00 PM	12:00	1080
SR09R	WM105140	6:00 AM	6:00 PM	12:00	1204
SR11R	WM105145	6:00 AM	6:00 PM	12:00	1067

Upon clicking **GENERAL SETTINGS**, you will reveal the **COMPLETION PROFILE EDITOR** where you can add/edit/remove your service definitions. Follow the steps below to create your first completion profile:





The 'Add Definition' dialog box contains the following fields and options:

- Name:** Demo Definition
- Type:** A dropdown menu with options: Digital I/O, Geofence, RFID, and Proximity.
- Definition group:** Individual
- Transition To Status:** Completed
- Buttons:** Save, Cancel

You may choose from 4 definitions:

**Digital I/O** – requires an event (typically a lift arm or PTO) within a specified distance of your service location to mark it as complete.

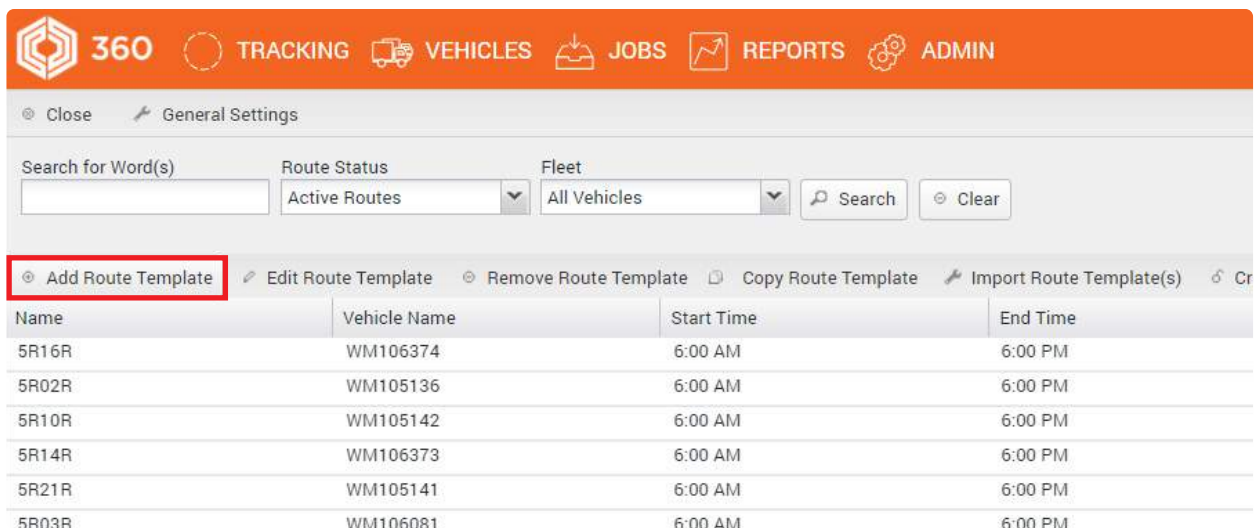
**Geofence** – requires entry/exit by a vehicle to a perimeter established in the **LOCATION MANAGER** to mark service as complete.

**RFID** – requires a RFID tag read to mark service as complete.

**Proximity** – requires the vehicle to travel within a specified distance of the service location to mark it as complete.

Your completion profile can be an **INDIVIDUAL** definition (only one requirement), or a **GROUP** of definitions to status a service location on a route (for example, RFID and Proximity).

Once your **COMPLETION PROFILE** is set up, you can **ADD** a new route by clicking **ADD ROUTE TEMPLATE** on the main **ROUTE MANAGER** page.



The Route Manager interface includes a navigation bar with icons for 360, TRACKING, VEHICLES, JOBS, REPORTS, and ADMIN. Below the navigation bar is a search section with a 'Search for Word(s)' input field, 'Route Status' (Active Routes), 'Fleet' (All Vehicles), and 'Search' and 'Clear' buttons. A toolbar below the search section contains the following actions: Add Route Template, Edit Route Template, Remove Route Template, Copy Route Template, Import Route Template(s), and a 'Cr' button. The main table displays route templates with the following data:

Name	Vehicle Name	Start Time	End Time
5R16R	WM106374	6:00 AM	6:00 PM
5R02R	WM105136	6:00 AM	6:00 PM
5R10R	WM105142	6:00 AM	6:00 PM
5R14R	WM106373	6:00 AM	6:00 PM
5R21R	WM105141	6:00 AM	6:00 PM
5R03R	WM106081	6:00 AM	6:00 PM

The 4-step Route Template Wizard will walk you through the required settings including Vehicle Assignment, Completion Profile assignment, start and end times for the route, the route addresses, and of course the schedule for the route.

Add Route Template ...

Step 1 of 4:

FleetAll VehiclesVehicleUnassigned

Route Template Configuration

Name

Completion Profile

Start Time

End Time

Culture

Time Zone

Unit System

Active

Coretex DRIVE Enabled

Demo Route

Demo

06:00AM

06:00PM

en-US

(UTC-05:00) Eastern Time (US & Canada)

Company

☒

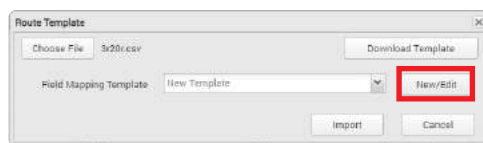
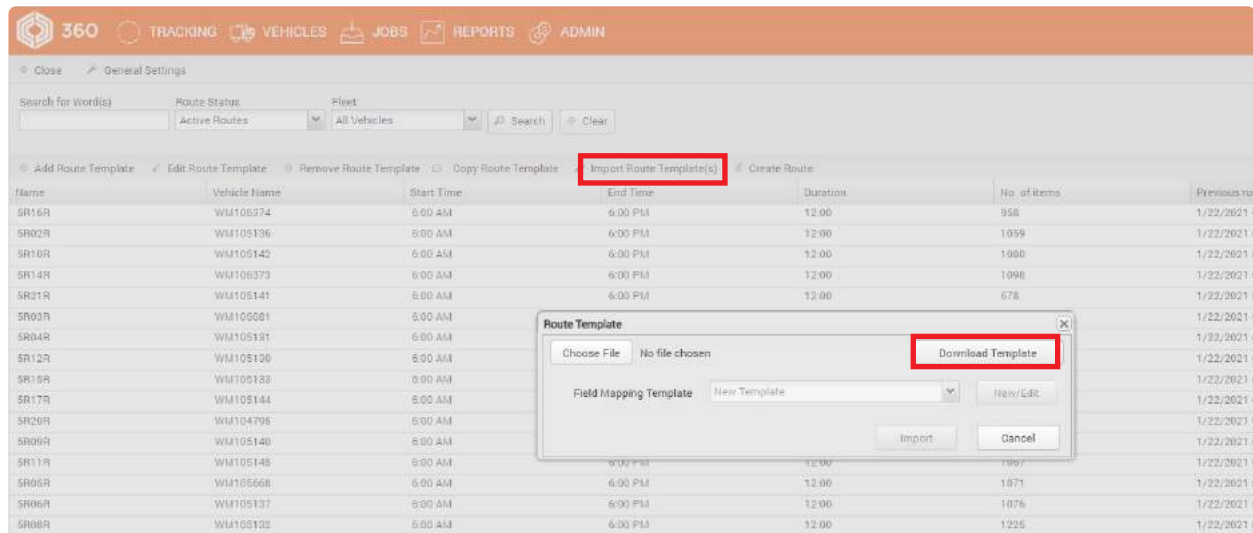
☐

Keep in mind that in order for your routes to be statused properly, they will **need to be assigned to the vehicle** running the route.

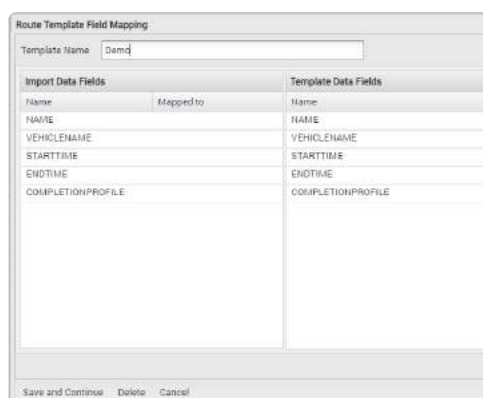
Upon initial setup, you may want to load your routes using our **BATCH IMPORT** capability. The first step in this process is to ensure that you have your **ROUTE TEMPLATES** set up in a CSV file, using the format provided below:

	A	B	C	D	E
1	NAME	VEHICLENAME	STARTTIME	ENDTIME	COMPLETIONPROFILE
2	R100A	ASL100	6:00am	5:00pm	Comp1
3					
4					
5					

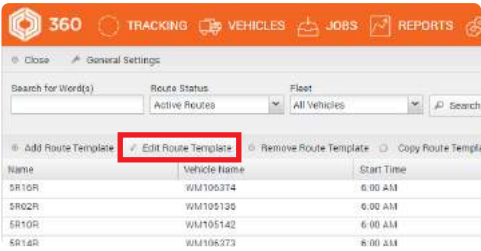
When you have your CSV file prepared, you can click **ADD ROUTE TEMPLATE** on the main **ROUTE MANAGER** page to start the import tool. You can also find an example CSV file format by clicking **DOWNLOAD TEMPLATE** in the import tool.



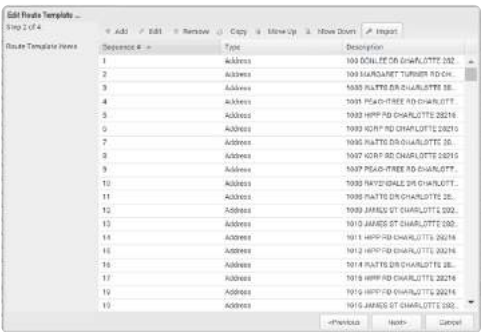
To load your CSV file and establish your route templates, click **CHOOSE FILE**, select your CSV file, then click **NEW/EDIT** to create or assign the correct **FIELD MAPPING TEMPLATE**.



This is the way we ensure that each column in your CSV file is assigned to the correct field in the Route Manager. Click, hold, and drag the correct **TEMPLATE DATA FIELDS** to the appropriate **IMPORT DATA FIELDS**. Be sure to click **SAVE AND CONTINUE**, and your Route Templates will be loaded and ready for Route Address import.



Once your route templates have been established, you can select a route and click **EDIT ROUTE TEMPLATE** to add daily, weekly, or monthly schedules and add Route Addresses.



Upon clicking **EDIT ROUTE TEMPLATE**, you will be guided through the Route Configuration Wizard just as you would upon adding the Route initially. In step 2, you are asked to add Route Addresses or "Route Template Items". You can do this individually, but we recommend adding all route addresses in bulk for the specified route by clicking **IMPORT**. For bulk address import, you will need to have each route available in CSV format using the template below as your guide. Similar to the **ROUTE TEMPLATE IMPORT**, you can find an example CSV file format by clicking **DOWNLOAD TEMPLATE** in the import tool.

	A	B	C	D	E	F	G	H	I
1	ITEM_TYPE	SEQUENCE_NUM	ADDRESS	LAT	LON	GEOFENCE	PRODUCT_TYPE	PRODUCT_NAME	RFID_TAG
2	ADDRESS	1	15110 Avenue of Science, San Diego, CA 92128	32.989634	-117.081441		96 Gallon Cart	Resi Recycling Cart	H01234567890
3									
4									

Keep in mind that not all fields are required. At a minimum, you need to provide **ITEM\_TYPE** (Address or Geofence) and either **ADDRESS** or **GEOFENCE** name, depending on **ITEM\_TYPE**.

Once you have created your route template and have added the route addresses, you will need to ensure that you have assigned the appropriate vehicle and have set up the recurring schedule. Now your route is ready for live statusing and analysis the next time it runs.

Should you find that you need to run an existing route “off-schedule” (one time variance from the existing schedule), you may do so by selecting the route from the list in the Route Manager and clicking **CREATE ROUTE**. This will bring up the details for the selected route, and allow you to make necessary changes prior to saving and adding this route to the current day’s active route list.

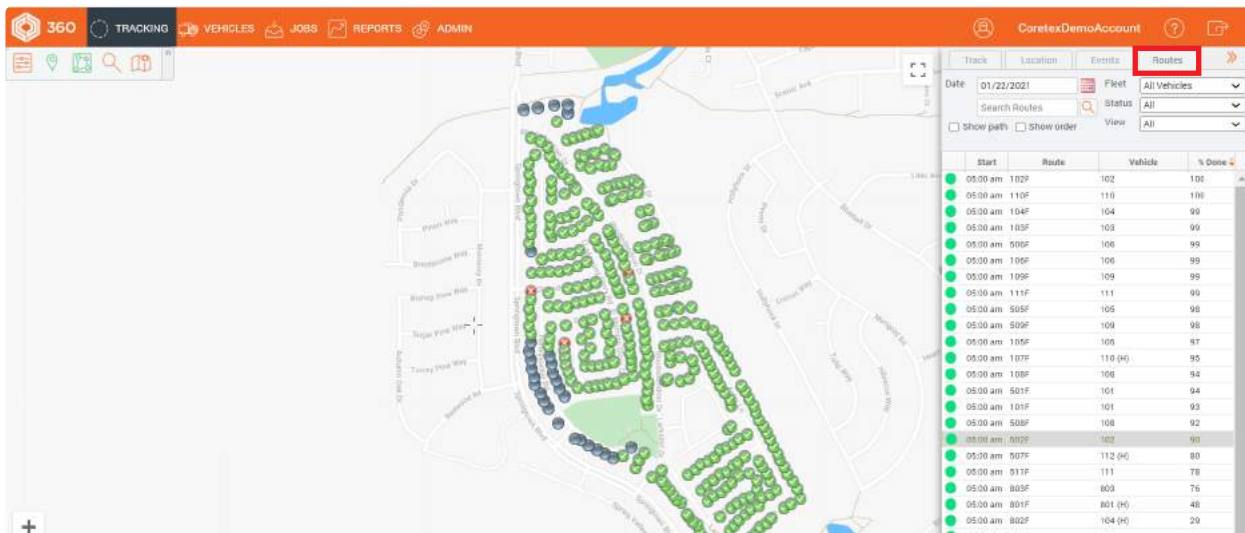
The screenshot displays the Coretex 360 software interface. At the top, there is a navigation bar with icons for TRACKING, VEHICLES, JOBS, REPORTS, and ADMIN. Below this, a search bar is visible. The main area shows a list of routes with columns for Route Name, Start Time, End Time, Duration, No. of Items, Previous run Date, and Next Run Date. A red box highlights the 'Create Route' button in the top right corner of the route list. A 'Create Route' dialog box is open, showing the 'General' tab. It includes fields for Name (4801R), Completion Profile (Event + Pros), Start Time (6:00 AM), and End Time (6:00 PM). The dialog box also has 'Save' and 'Cancel' buttons.



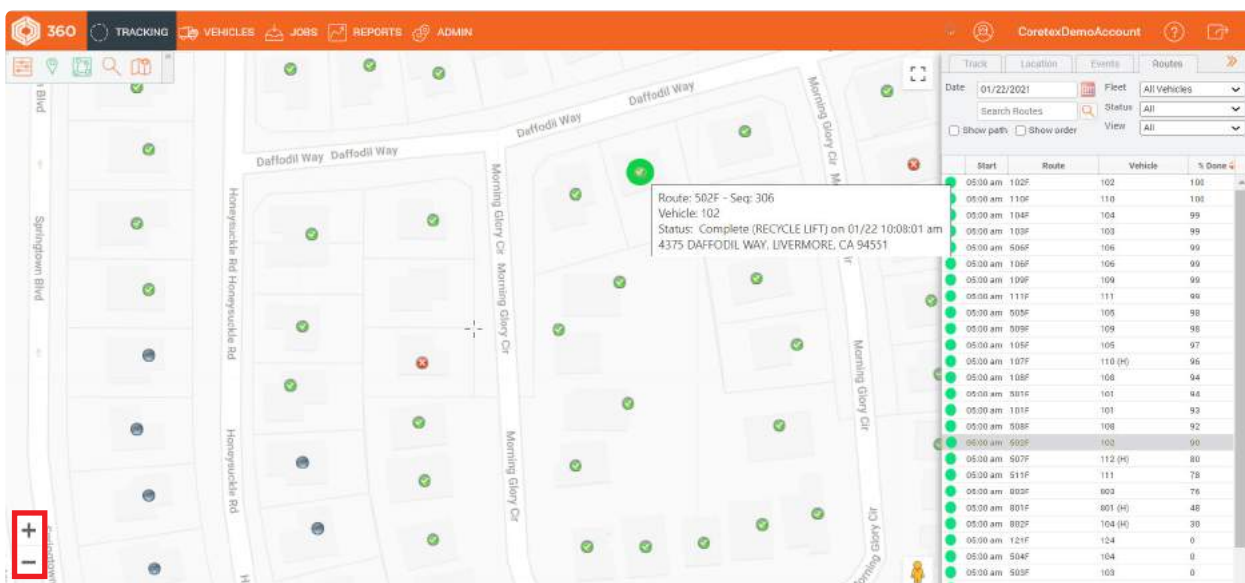
# Route & Service Verification Tools in 360

## Tracking Page

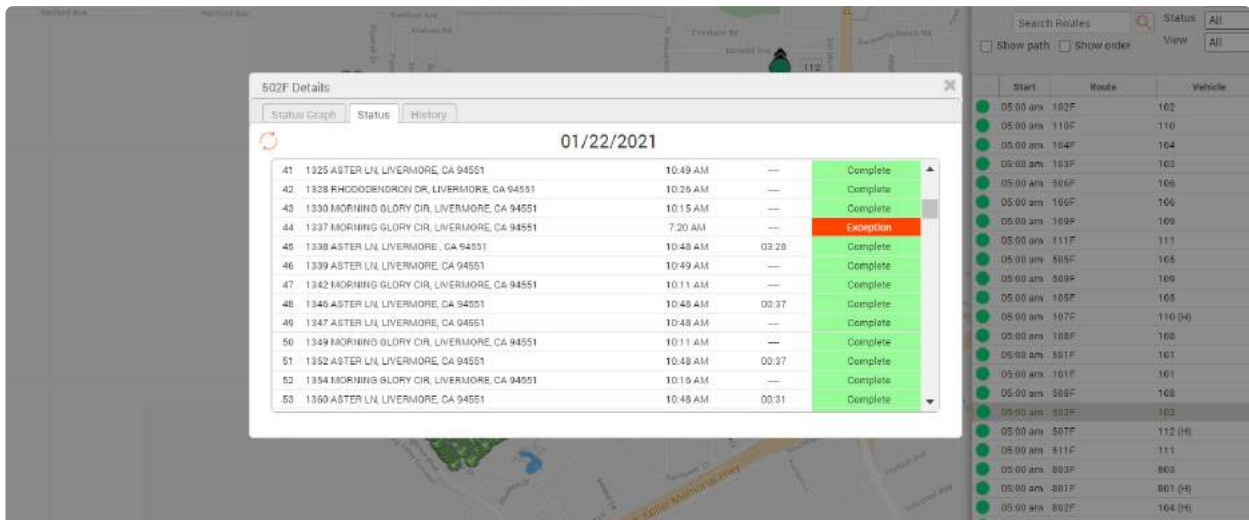
On the default home page (the Tracking page), click the **"ROUTES"** tab in the tracking sidebar to reveal the active routes (scheduled to be serviced on the current day), the vehicle assigned to that route, and % Done. Using the Date filter in the tab header will also allow you to view historical routes. Clicking a route will display each service location as a color coded icon on the map. Green = Complete, Grey = Pending (or incomplete), Red = Exception.



**Zoom** in on your route to view details in standard and satellite mapping views. Hovering over a **service location** will show the details for that stop including service status and completion method (if applicable).



Double click on the route (in the Routes tab of the tracking sidebar) to see Route Details. Navigate the tabs to view specific details including a Status Graph depicting progress vs. expectation, Status of the individual service locations, and History of the route over the prior 5 weeks.



## Dispatched Routes

Hover over the **JOBS** tab and click on Dispatched Routes to see Route Performance History, Work Order History, and to search for Service Verification by address, RFID tag or customer.

360

TRACKING

VEHICLES

JOB

REPORTS

ADMIN

CoretexDemoAccount

Routes

Work Orders

Service Verification

Dispatched Routes

Search Route Name:

Vehicle:

From: 01/15/2021

To: 01/22/2021

Search

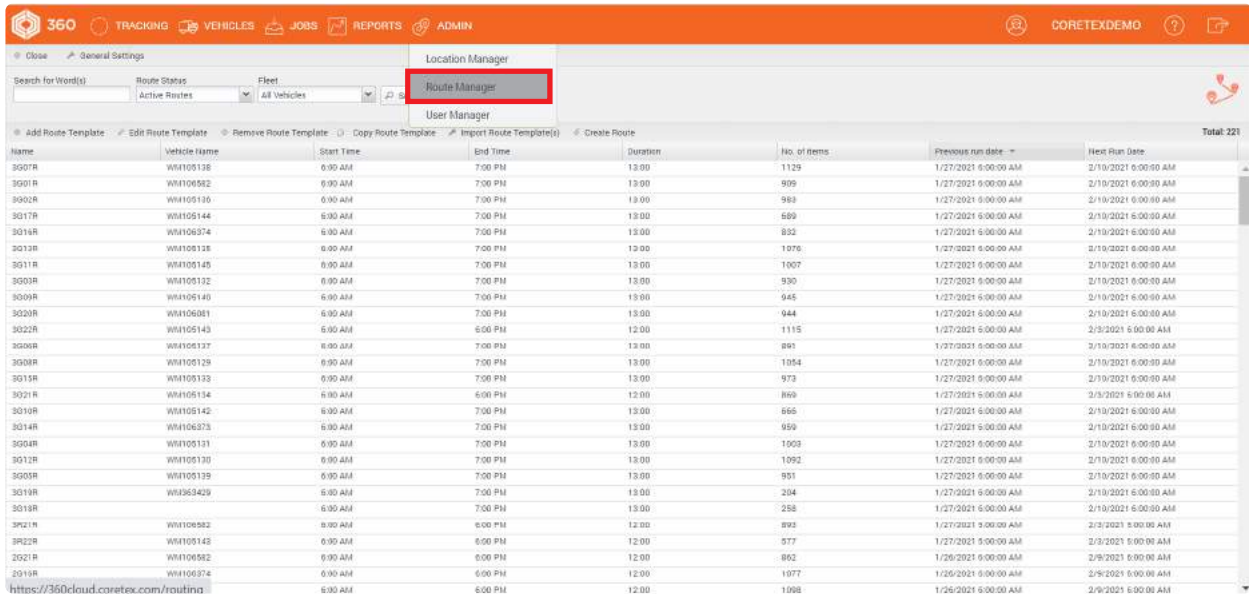
Clear

Export

Route Name	Vehicle Name	Scheduled Start Time	Actual Start Time	Scheduled End Time	Actual End Time	Duration	Stops	Completions	Exceptions	Completed
802M	802	1/18/2021 5:00:00 AM	1/18/2021 5:22:43 AM	1/18/2021 5:00:00 PM	1/18/2021 10:40:45 AM	05:18	1134	964	166	96
802W	802	1/20/2021 5:00:00 AM	1/20/2021 5:28:07 AM	1/20/2021 5:00:00 PM	1/20/2021 10:25:10 AM	04:57	1100	968	85	91
802H	802	1/21/2021 5:00:00 AM	1/21/2021 5:04:51 AM	1/21/2021 5:00:00 PM	1/21/2021 10:00:26 AM	04:56	1010	822	75	89
802T	802	1/19/2021 5:00:00 AM	1/19/2021 5:23:48 AM	1/19/2021 5:00:00 PM	1/19/2021 11:46:14 AM	06:23	982	834	57	86
506W	106	1/20/2021 5:00:00 AM	1/20/2021 5:31:43 AM	1/20/2021 5:00:00 PM	1/20/2021 11:27:34 PM	07:55	500	431	49	98
106M	106	1/18/2021 5:00:00 AM	1/18/2021 5:21:56 AM	1/18/2021 5:00:00 PM	1/18/2021 12:33:31 PM	07:12	459	422	30	99
506T	106	1/19/2021 5:00:00 AM	1/19/2021 5:22:26 AM	1/19/2021 5:00:00 PM	1/19/2021 10:04:30 AM	04:42	419	380	28	99
106H	106	1/21/2021 5:00:00 AM	1/21/2021 5:05:26 AM	1/21/2021 5:00:00 PM	1/21/2021 12:19:27 PM	07:14	479	424	27	94
506H	106	1/21/2021 5:00:00 AM	1/21/2021 5:03:17 AM	1/21/2021 5:00:00 PM	1/21/2021 2:35:29 PM	09:32	504	462	25	97
106M	106	1/18/2021 5:00:00 AM	1/18/2021 5:22:04 AM	1/18/2021 5:00:00 PM	1/18/2021 11:07:50 AM	05:45	460	417	25	96
106T	106	1/19/2021 5:00:00 AM	1/19/2021 5:23:49 AM	1/19/2021 5:00:00 PM	1/19/2021 11:40:47 AM	06:18	495	465	34	98
106F	106	1/22/2021 5:00:00 AM	1/22/2021 5:03:35 AM	1/22/2021 5:00:00 PM	1/22/2021 9:40:02 AM	04:37	387	354	22	97
505W	105	1/20/2021 5:00:00 AM	1/20/2021 5:07:06 AM	1/20/2021 5:00:00 PM	1/20/2021 10:11:29 AM	04:14	373	351	22	100
101T	101	1/19/2021 5:00:00 AM	1/19/2021 5:21:23 AM	1/19/2021 5:00:00 PM	1/19/2021 12:48:59 PM	07:27	523	475	21	95
101H	101	1/21/2021 5:00:00 AM	1/21/2021 5:05:02 AM	1/21/2021 5:00:00 PM	1/21/2021 10:57:29 AM	05:52	419	379	21	95
111H	111	1/18/2021 5:00:00 AM	1/18/2021 5:21:42 AM	1/18/2021 5:00:00 PM	1/18/2021 11:30:24 AM	06:09	499	467	21	98
506F	106	1/22/2021 5:00:00 AM	1/22/2021 5:03:41 AM	1/22/2021 5:00:00 PM	1/22/2021 10:49:31 AM	05:40	355	331	20	99
101F	101	1/23/2021 5:00:00 AM	1/23/2021 5:04:29 AM	1/23/2021 5:00:00 PM	1/23/2021 10:04:08 AM	05:00	372	327	20	93
106T	106	1/19/2021 5:00:00 AM	1/19/2021 5:22:39 AM	1/19/2021 5:00:00 PM	1/19/2021 12:30:19 PM	07:13	416	392	19	99
111H	111	1/21/2021 5:00:00 AM	1/21/2021 5:06:03 AM	1/21/2021 5:00:00 PM	1/21/2021 11:25:25 AM	06:19	458	435	17	99
501H	101	1/18/2021 5:00:00 AM	1/18/2021 5:21:37 AM	1/18/2021 5:00:00 PM	1/18/2021 10:00:48 AM	04:39	432	409	15	98
109H	109	1/18/2021 5:00:00 AM	1/18/2021 5:21:33 AM	1/18/2021 5:00:00 PM	1/18/2021 12:05:33 PM	09:42	425	406	14	99
501W	101	1/20/2021 5:00:00 AM	1/20/2021 5:28:36 AM	1/20/2021 5:00:00 PM	1/20/2021 9:26:37 AM	04:00	409	386	13	98
109H	109	1/21/2021 5:00:00 AM	1/21/2021 5:05:53 AM	1/21/2021 5:00:00 PM	1/21/2021 8:40:55 AM	03:36	427	431	12	99
109F	108	1/22/2021 5:00:00 AM	1/22/2021 5:04:52 AM	1/22/2021 5:00:00 PM	1/22/2021 11:45:21 AM	06:41	398	369	11	94
111W	111	1/20/2021 5:00:00 AM	1/20/2021 5:29:57 AM	1/20/2021 5:00:00 PM	1/20/2021 10:40:21 AM	05:11	458	440	11	96

## Route Manager

Hover over the **ADMIN** tab and click on Route Manager to view, add, edit or remove scheduled routes. You can also activate a route scheduled for a different day by selecting the route you want to activate and clicking "Create Route".



Name	Vehicle Name	Start Time	End Time	Duration	No. of items	Previous run date	Next Run Date
3007R	WM105138	6:00 AM	7:00 PM	13:00	1129	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3001R	WM106582	6:00 AM	7:00 PM	13:00	909	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3002R	WM105130	6:00 AM	7:00 PM	13:00	983	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3017R	WM105144	6:00 AM	7:00 PM	13:00	689	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3014R	WM106574	6:00 AM	7:00 PM	13:00	833	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3013R	WM105135	6:00 AM	7:00 PM	13:00	1076	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3011R	WM105145	6:00 AM	7:00 PM	13:00	1007	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3003R	WM105132	6:00 AM	7:00 PM	13:00	930	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3009R	WM105140	6:00 AM	7:00 PM	13:00	945	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3020R	WM106081	6:00 AM	7:00 PM	13:00	944	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3022R	WM105143	6:00 AM	6:00 PM	12:00	1115	1/27/2021 6:00:00 AM	2/3/2021 6:00:00 AM
3006R	WM105137	6:00 AM	7:00 PM	13:00	891	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3008R	WM105129	6:00 AM	7:00 PM	13:00	1054	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3015R	WM105133	6:00 AM	7:00 PM	13:00	973	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3021R	WM105134	6:00 AM	6:00 PM	12:00	869	1/27/2021 6:00:00 AM	2/3/2021 6:00:00 AM
3010R	WM105142	6:00 AM	7:00 PM	13:00	666	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3014R	WM106373	6:00 AM	7:00 PM	13:00	659	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3004R	WM105131	6:00 AM	7:00 PM	13:00	1003	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3012R	WM105130	6:00 AM	7:00 PM	13:00	1092	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3005R	WM105139	6:00 AM	7:00 PM	13:00	951	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3018R	WM1063429	6:00 AM	7:00 PM	13:00	234	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3018R		6:00 AM	7:00 PM	13:00	258	1/27/2021 6:00:00 AM	2/10/2021 6:00:00 AM
3021R	WM106582	6:00 AM	6:00 PM	12:00	893	1/27/2021 6:00:00 AM	2/3/2021 6:00:00 AM
3022R	WM105143	6:00 AM	6:00 PM	12:00	577	1/27/2021 6:00:00 AM	2/3/2021 6:00:00 AM
3021R	WM106582	6:00 AM	6:00 PM	12:00	862	1/26/2021 6:00:00 AM	2/9/2021 6:00:00 AM
3015R	WM106374	6:00 AM	6:00 PM	12:00	1077	1/26/2021 6:00:00 AM	2/9/2021 6:00:00 AM
		6:00 AM	6:00 PM	12:00	1098	1/26/2021 6:00:00 AM	2/9/2021 6:00:00 AM



# Monitor Service Events in 360

## Service Events

Coretex empowers customers to monitor several types of service events which denote completion of service and exceptions on assigned routes. Examples include Lift Arm events, Parking Brake events, PTO, and RFID reads. Customers can review these events in multiple ways.

## Visualizing Service Events on the map with Replay

On the Tracking Page, you can easily run a replay by selecting the vehicle and clicking the **REPLAY** icon just above the vehicle list.

The screenshot displays the Coretex 360 Tracking interface. The top navigation bar includes icons for TRACKING, VEHICLES, JOBS, REPORTS, and ADMIN. The main map area shows a street view with a vehicle icon labeled 'WM105135'. On the right side, there is a sidebar with tabs for Track, Location, Events, and Routes. Below these tabs is a 'Filter' dropdown set to 'Fleet' and a 'View' dropdown set to 'REPLAY'. A 'Search Vehicles' input field is also present. Below the search field is a table listing vehicles with columns for Vehicle ID, Location, and Speed. The vehicle 'WM105135' is highlighted in the list. Below the table, there is a 'Details' tab and a list of events for the selected vehicle.

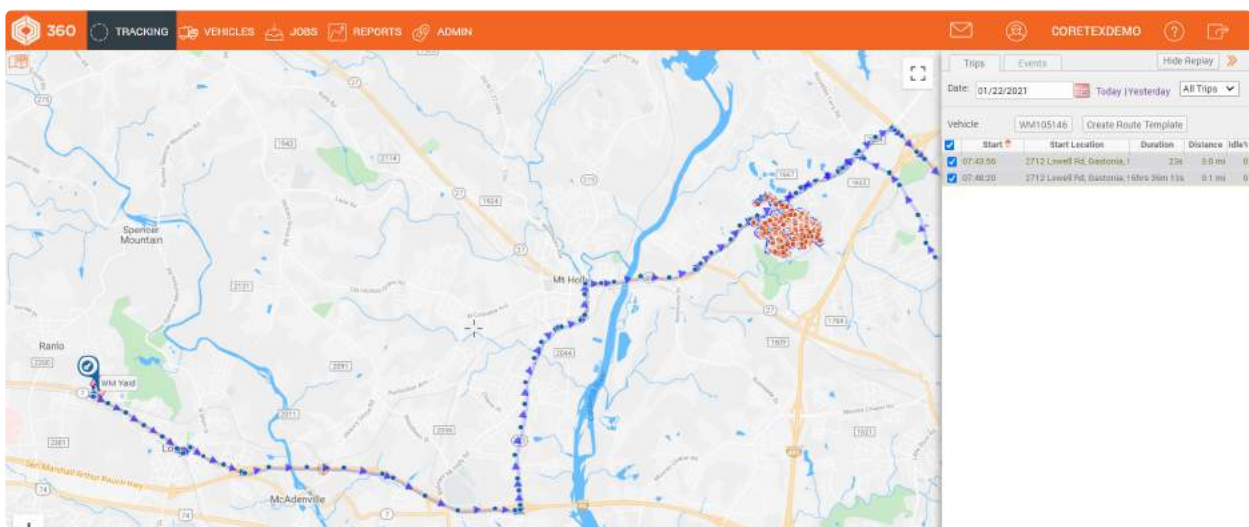
Vehicle	Location	Speed
WM105135	1211 Midtown Parkway, N.C. Dr.	0 mph
WM105136	2215 Parkridge Dr. Charlotte	0 mph
WM105137	4000 N. Graham St. Charlotte	0 mph
WM105138	8000 University Dr. Charlotte	19 mph
WM105139	8128 Lenoir St. Charlotte	3 mph
WM105140	2137 W. Trade St. Charlotte	2 mph
WM105141	1418 S. Bailey Dr. Charlotte	56 mph
WM105142	828 Walnut Ave. Charlotte	7 mph
WM105143	Freedom Dr. & Albemarle Dr.	22 mph
WM105144	2005 Reid Park Ln. Charlotte	0 mph
WM105145	Piazza Real Estate & Loans	0 mph
WM105146	724 Marquette Dr. Charlotte	2 mph
WM105147	5000 H.C. Dr. Charlotte	41 mph
WM105148	10023 Carver Falls Rd. Charlotte	0 mph
WM105149	1014 E. 1st St. Charlotte	0 mph
WM105150	5001 E. 1st St. Charlotte	0 mph

Below the table, the 'Details' tab is active, showing a list of events for the selected vehicle 'WM105135':

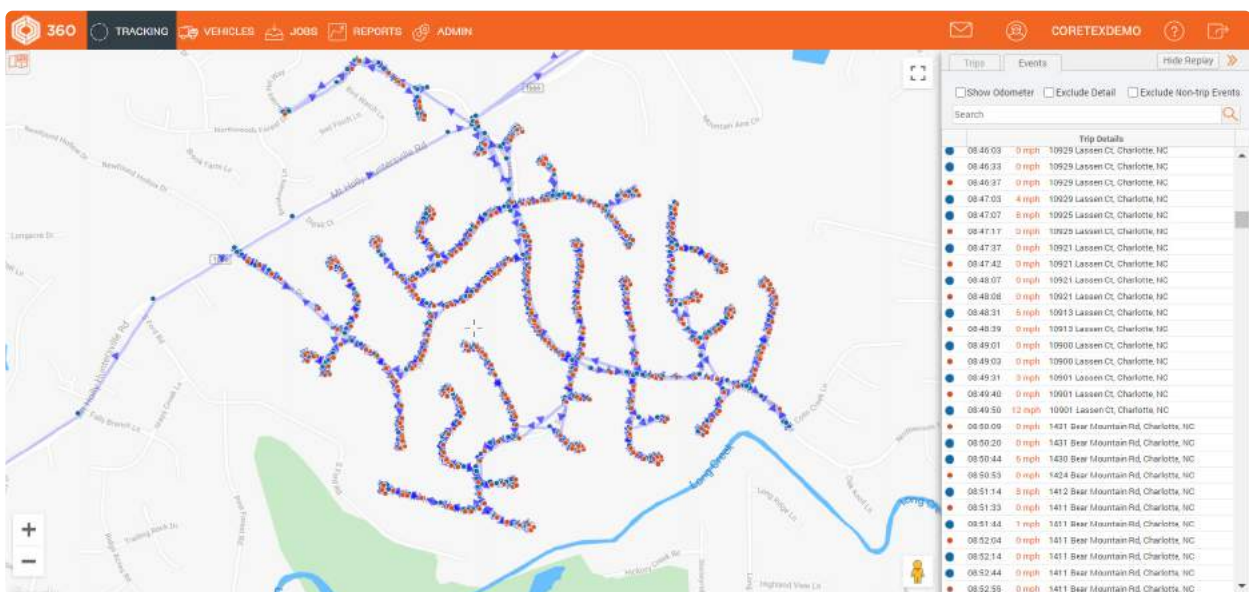
Event	Time
Motion Start	1/22/2021 2:20:05 PM
Motion Stop	1/22/2021 2:19:03 PM
Motion Start	1/22/2021 2:16:04 PM
Motion Stop	1/22/2021 2:15:50 PM
Motion Start	1/22/2021 2:15:16 PM

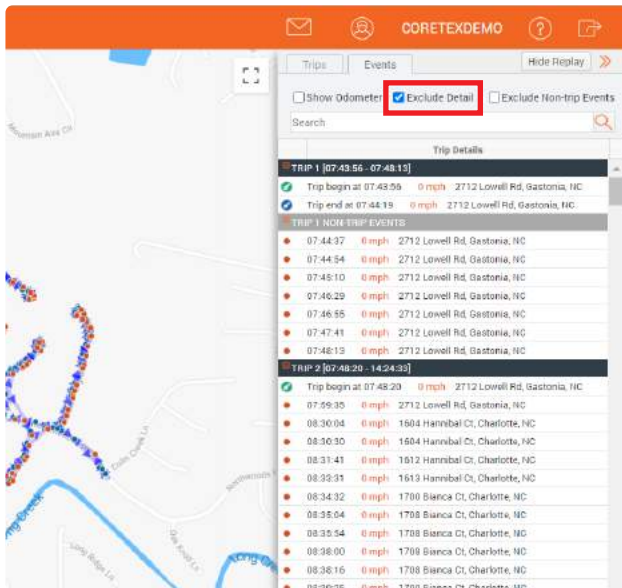
Once you click **“REPLAY”**, the grid will reveal each **“TRIP”** for your vehicle on the current day (with the option to select past dates as well). A **“TRIP”** is simply the period between ignition **ON** and ignition **OFF**. There may be many trips during your selected day, so if you are interested in a visual representation of the vehicle’s entire day, be sure to check all boxes.

The map will reveal all position data collected from the vehicle on the selected trips. Basic position data will be represented by a blue dot while **SERVICE EVENTS** will be represented by a red dot. This allows you to identify areas with high volumes of service, especially with high density residential routes.



Users can view all positions and events in chronological order (for the selected replay) by clicking the **EVENTS** tab in the tracking sidebar.



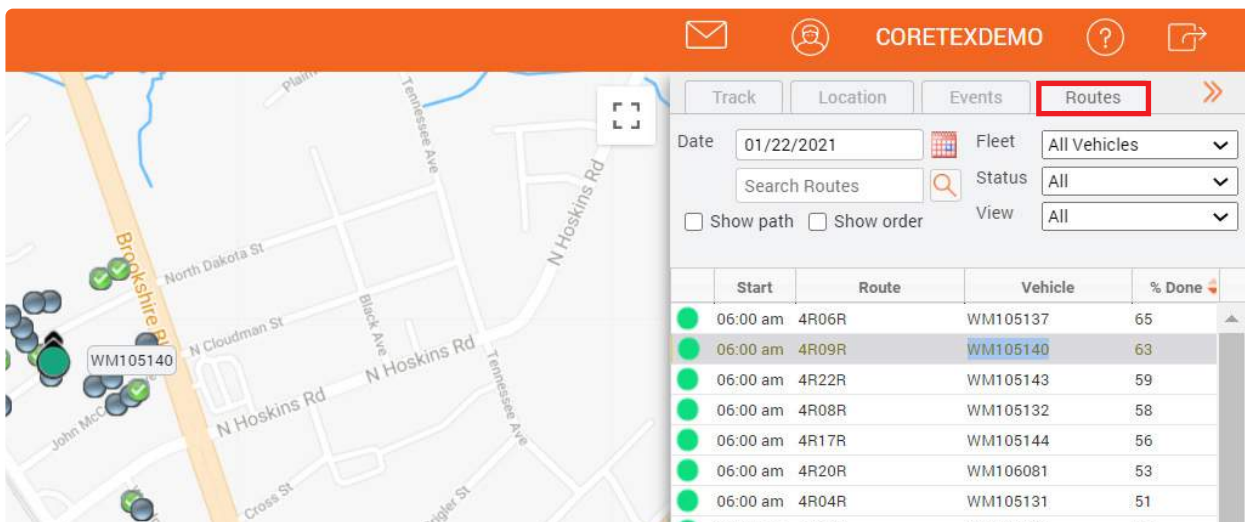


Users can click the box to “Exclude detail” (timed positions), revealing only events such as Ignition **ON**, Ignition **OFF**, Engine Idle, Service Events and RFID reads.

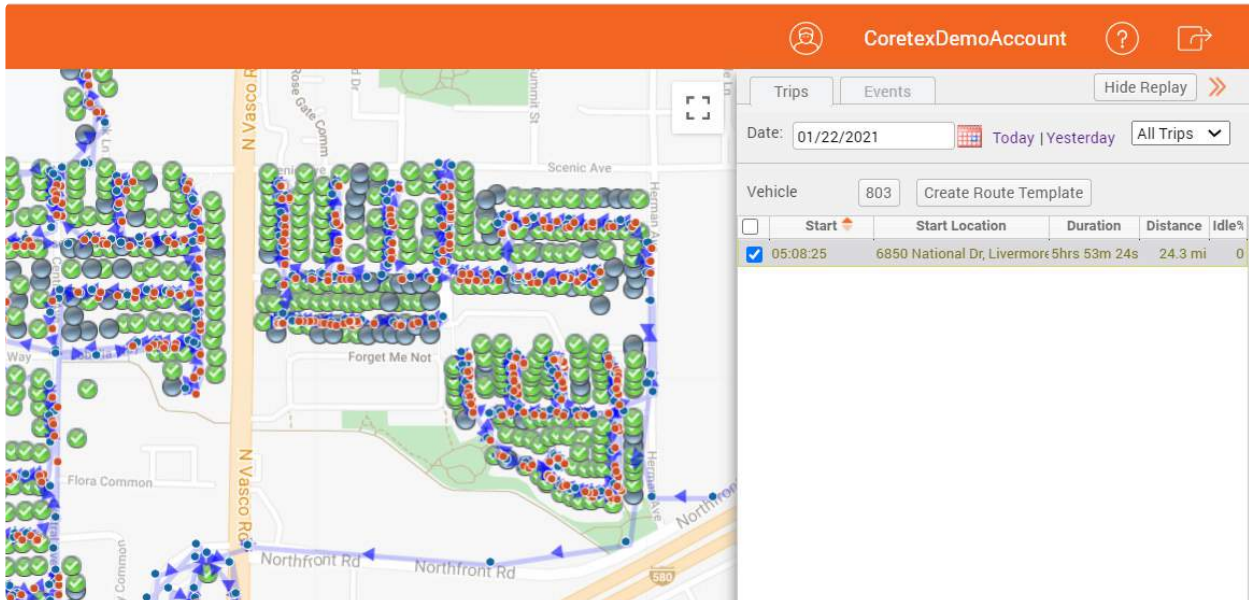
Hover over an event for a description, and click on an event to center the map on the location that event occurred.

## Reviewing Service Events as compared to a Scheduled Route

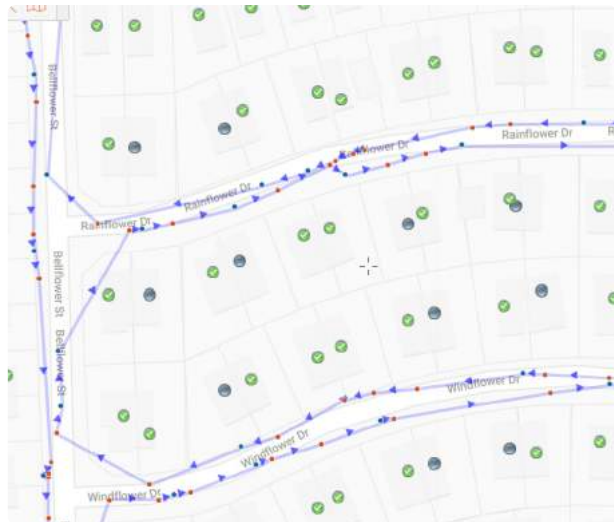
Users can layer a **REPLAY** over a Route for added clarity when verifying service visually. First, click the “Routes” tab in the tracking sidebar to reveal the active routes (scheduled to be serviced on the current day). Using the Date filter in the tab header will also allow you to view historical routes. Select the preferred route to display it on the map.



Once you have displayed your selected route, you can go back to the “Track” tab in the tracking sidebar and run a replay for the vehicle assigned to the selected route. This will allow you to see the route stops (with current status) and also the service events for a more detailed look at your truck’s route performance.



Use the satellite map layer and the zoom feature to customize the interface based on your service verification needs.



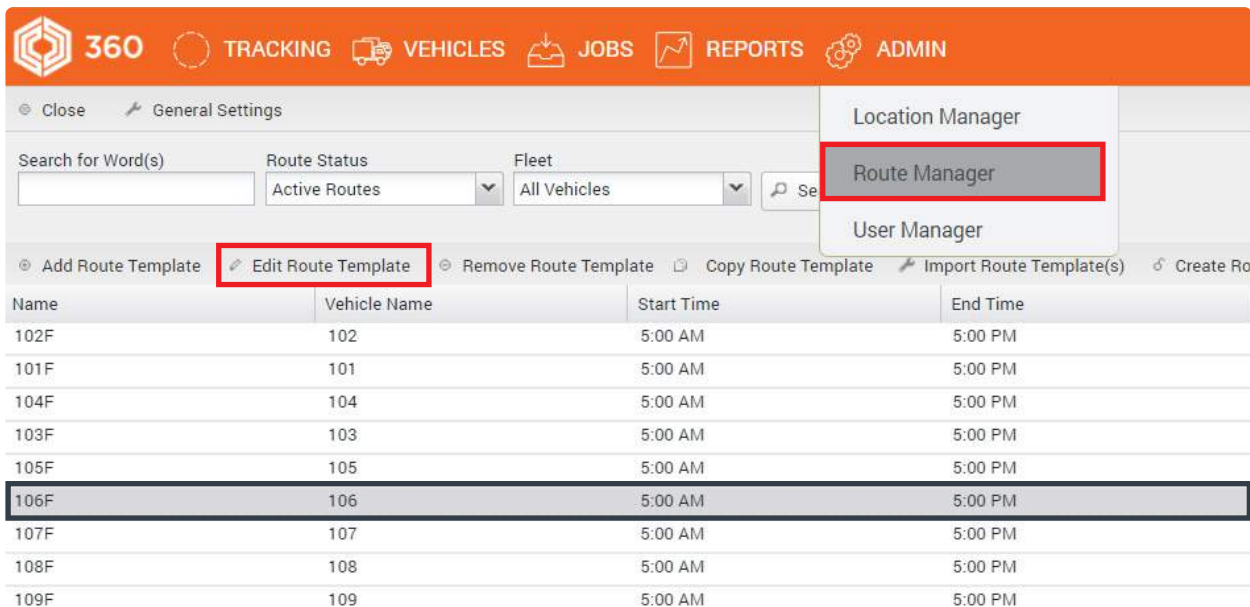
# Helper Truck Service

## Helper Trucks/Replacing a Truck on a Route

The Coretex route verification process relies on the assignment of trucks to routes in order to verify service at each stop on the route. If a truck is unable to perform its route due to breakdown or other truck specific issue, you have the ability to assign a new truck to that route. If a truck is behind on its route, you may assign one or more “Helper Trucks” to the route so all service on the route is considered. There are 2 ways to go about managing your route assignments in 360.

## Pre-Route Assignment Changes

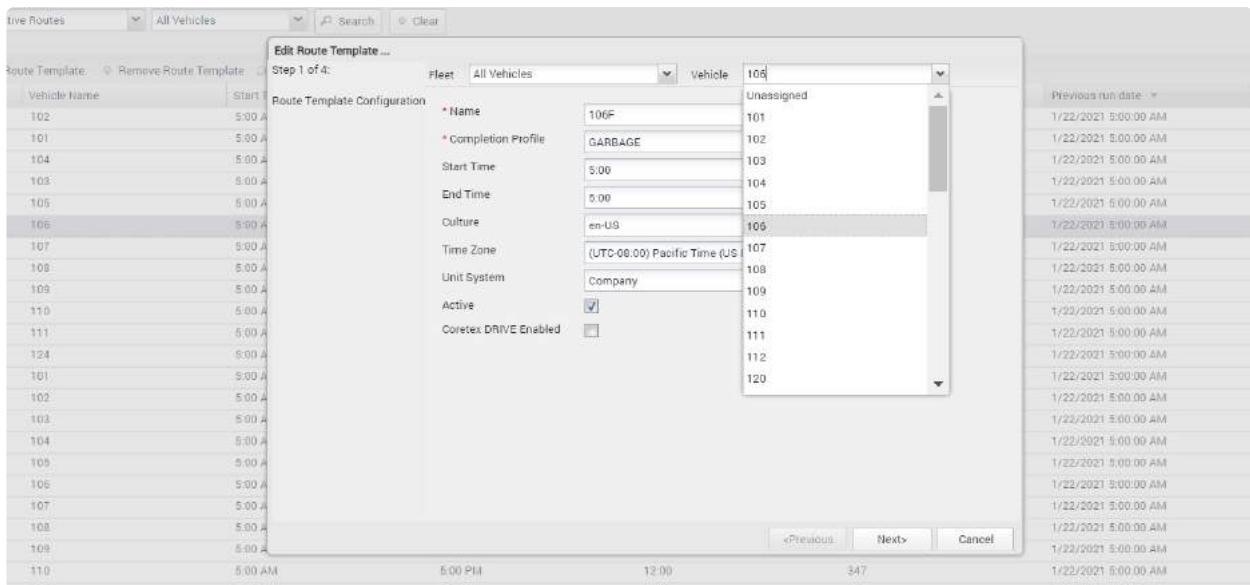
If you need to change the truck assigned to a route **PRIOR** to the scheduled start of the route, you may do so in the **ROUTE MANAGER**. Hover over the **ADMIN** tab and click on “**Route Manager**”. Select the route to reassign, and click “**Edit Route Template**”.



The screenshot shows the Coretex 360 interface. At the top is an orange navigation bar with icons and labels for TRACKING, VEHICLES, JOBS, REPORTS, and ADMIN. The ADMIN dropdown menu is open, showing options for Location Manager, Route Manager (highlighted with a red box), and User Manager. Below the navigation bar, there are search filters for Route Status (Active Routes) and Fleet (All Vehicles). A table of routes is displayed with columns for Name, Vehicle Name, Start Time, and End Time. The route 106F is highlighted with a black box, and the 'Edit Route Template' button is also highlighted with a red box.

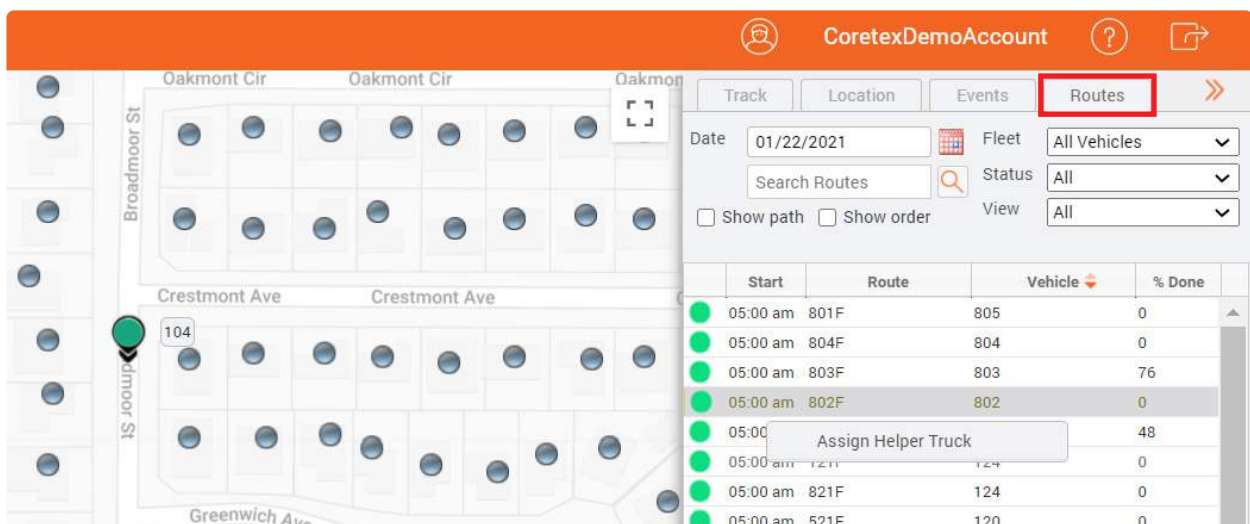
Name	Vehicle Name	Start Time	End Time
102F	102	5:00 AM	5:00 PM
101F	101	5:00 AM	5:00 PM
104F	104	5:00 AM	5:00 PM
103F	103	5:00 AM	5:00 PM
105F	105	5:00 AM	5:00 PM
106F	106	5:00 AM	5:00 PM
107F	107	5:00 AM	5:00 PM
108F	108	5:00 AM	5:00 PM
109F	109	5:00 AM	5:00 PM

Clicking “**Edit Route Template**” will reveal the configuration wizard for the selected route. Here, you will be able to change the vehicle assigned to the scheduled route by clicking the down arrow next to the currently assigned vehicle. You may now assign a new truck to the route by selecting from the list. Once the new truck has been selected, click “**Next**” on the bottom right until you reach the 4th step of the configuration wizard, when you will click “**Finish**”. You have now changed the truck assigned to this route. This truck assignment will remain until you use this method to change it again.

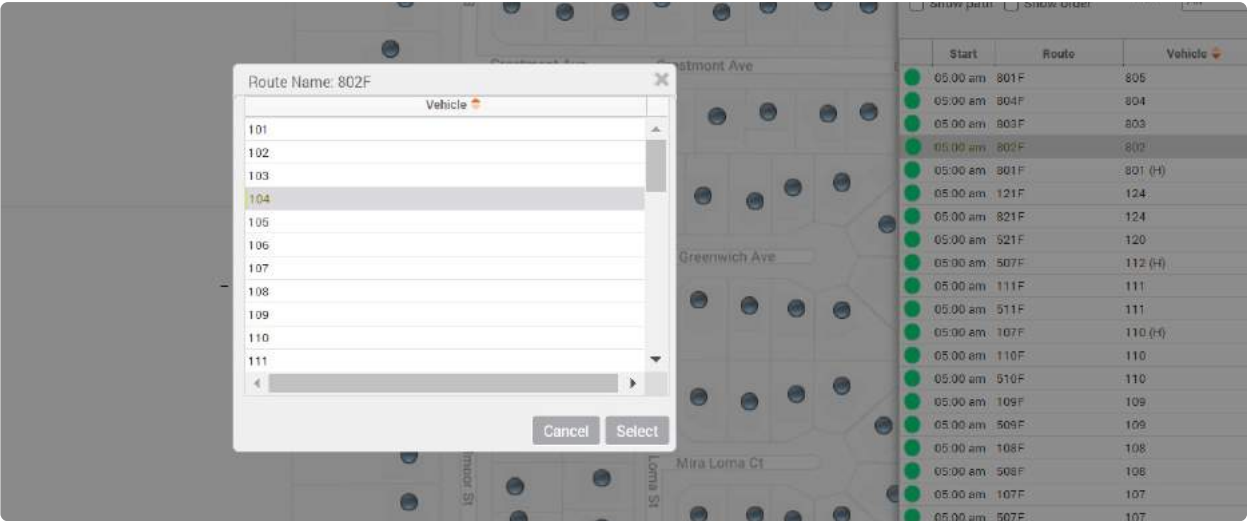


## Mid-Route Assignment Changes

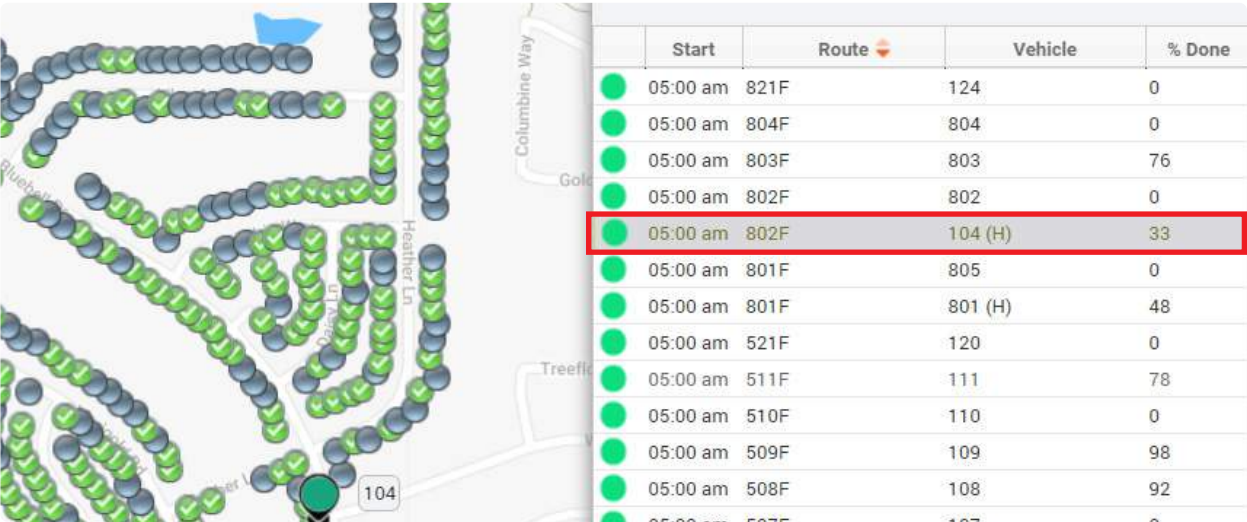
If you need to change the truck assigned to a route **DURING** to the scheduled route, or if you need to add a truck to a route for additional service, you may do so by **ADDING A HELPER TRUCK**. On the Tracking page, navigate to the Routes tab and right click on the route needing assistance.



Click on “Assign Helper Truck”, and you will reveal a vehicle list to select your “Helper Truck”.



Once you have selected your Helper Truck, you will see a new active route in your Routes tab. The Helper Truck route can be identified by the (H) noted next to the truck name.

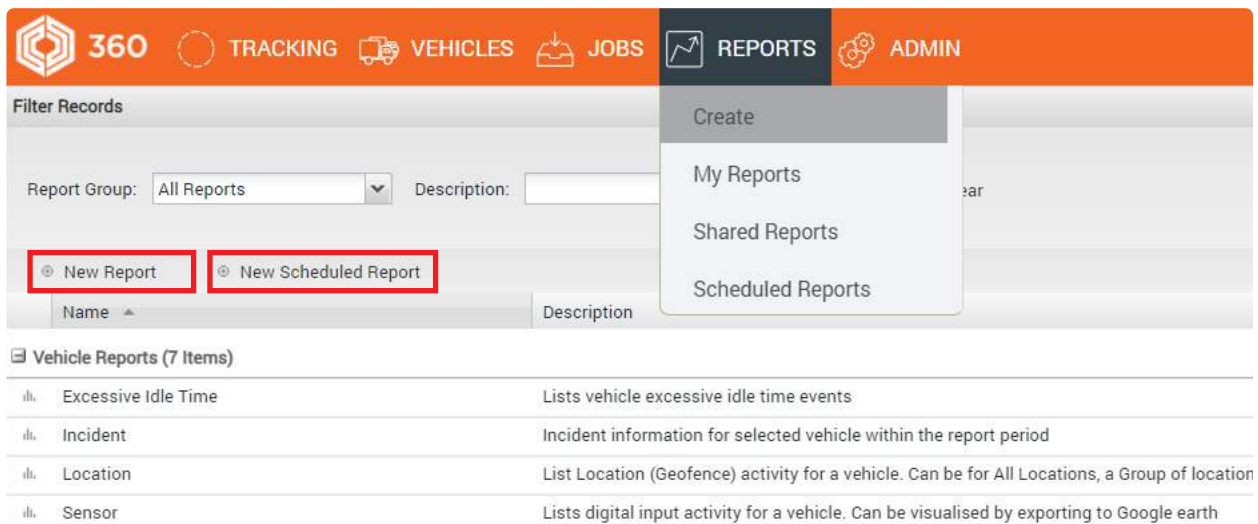


Once your Helper Truck has been assigned, the selected route will now consider service from both the originally assigned truck AND the Helper Truck. You may add as many Helper Trucks as necessary.

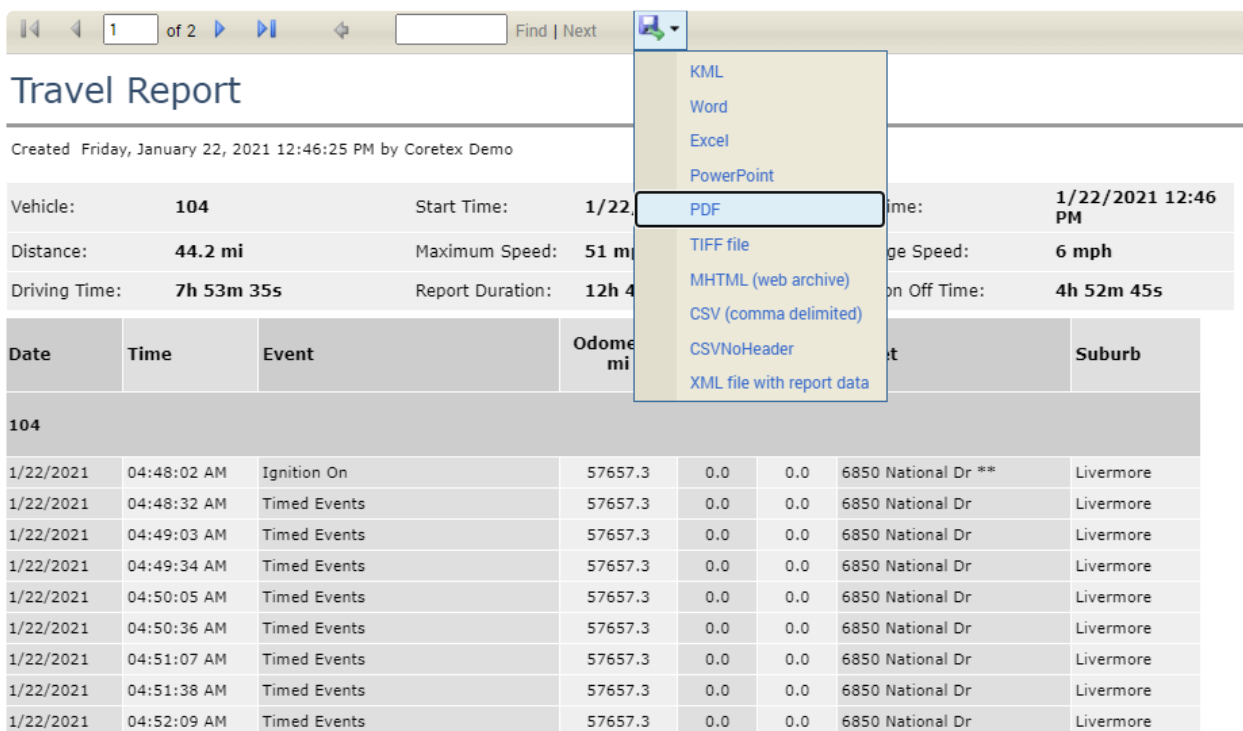
# Route & Service Verification Reports

## Reports

By clicking on the Reports tab in 360, you can **create** and **schedule** various reports which are grouped and listed with brief descriptions.



When you run a new report, the results will show as a page in your browser with the option to download the report in several formats.



Date	Time	Event	Odometer (mi)	Suburb
1/22/2021	04:48:02 AM	Ignition On	57657.3	Livermore
1/22/2021	04:48:32 AM	Timed Events	57657.3	Livermore
1/22/2021	04:49:03 AM	Timed Events	57657.3	Livermore
1/22/2021	04:49:34 AM	Timed Events	57657.3	Livermore
1/22/2021	04:50:05 AM	Timed Events	57657.3	Livermore
1/22/2021	04:50:36 AM	Timed Events	57657.3	Livermore
1/22/2021	04:51:07 AM	Timed Events	57657.3	Livermore
1/22/2021	04:51:38 AM	Timed Events	57657.3	Livermore
1/22/2021	04:52:09 AM	Timed Events	57657.3	Livermore

Below is a quick summary of the 5 most popular reports for our Waste and Recycling customers:

## Travel Report

A user configurable history of vehicle activity including timed events (GPS position reports), motion start, motion stop, engine idle, inputs (Cart Dumped), RFID reads and much more.

Travel Report					
Created Friday, January 22, 2021 3:56:29 PM by CORETEX DEMO					
Vehicle:	<b>WM105144</b>		Start Time:	<b>1/22/2021 7:30 AM</b>	End Time: <b>1/22/2021 3:53 PM</b>
Date	Time	Event	Odometer mi	Street	Suburb
<b>WM105144</b>					
1/22/2021	07:30:14 AM	Motion Stop	129838.1	3712 Mt Holly-Huntersville Rd	Charlotte
1/22/2021	07:30:24 AM	Motion Start	129838.1	3712 State Rd 2004	Charlotte
1/22/2021	07:33:42 AM	Motion Stop	129838.1	2469 Mountain Park Dr	Charlotte
1/22/2021	07:36:08 AM	Dumped	129838.1	2469 Mountain Park Dr	Charlotte
1/22/2021	07:36:08 AM	H688600000000000000004340605	129838.1	2469 Mountain Park Dr	Charlotte
1/22/2021	07:36:44 AM	Motion Start	129838.1	2455 Mountain Park Dr	Charlotte
1/22/2021	07:36:52 AM	Dumped	129838.1	2455 Mountain Park Dr	Charlotte
1/22/2021	07:36:52 AM	H00000000000000000000474950	129838.1	2455 Mountain Park Dr	Charlotte
1/22/2021	07:36:55 AM	Motion Stop	129838.1	2469 Mountain Park Dr	Charlotte
1/22/2021	07:37:10 AM	Motion Start	129838.1	2455 Mountain Park Dr	Charlotte

## Route Status Report

Status info for each service location on a route including when the location was serviced, which truck serviced the location and method of verification (proximity, cart dump, tablet, RFID)

Route Status Report				
Created Friday, January 22, 2021 3:58:28 PM by CORETEX DEMO				
Start Date:	<b>1/22/2021</b>			
End Date:	<b>1/22/2021</b>			
Route Name:	<b>4r17r</b>			
Route Name:	<b>4R17R</b>			
Route Start Time	<b>1/22/2021</b>			
Vehicle Name	Status	Stops	Time Of Event	Verification Method
WM105144	Completed	2475 MOUNTAIN PARK DR CHARLOTTE	1/22/2021 7:36:08 AM	Cart Dumped
WM105144	Completed	2848 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:38:26 AM	Cart Dumped
WM105144	Completed	2903 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:38:26 AM	H0000000000000000000000485135
WM105144	Completed	2838 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:39:04 AM	Cart Dumped
WM105144	Completed	2843 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:39:05 AM	H0000000000000000000000478354
WM105144	Completed	2828 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:39:23 AM	Cart Dumped
WM105144	Completed	2833 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:39:23 AM	H0000000000000000000000485133
WM105144	Completed	2823 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:39:54 AM	Cart Dumped
WM105144	Completed	2815 MT ISLE HARBOR DR CHARLOTTE 28214	1/22/2021 7:40:17 AM	H0000000000000000000000476424

## Route Participation Report

Historical route report noting all participating service locations per route displayed as a percentage of the total route.

Route Participation Report			
Created Friday, January 22, 2021 4:00:16 PM by CORETEX DEMO			
Start Date:	1/21/2021		
End Date:	1/22/2021		
Route Name:	All Routes		
Route Name:	4R01R		
Route Start Time:	1/22/2021 6:00:00 AM		
Total Route Participation Percentage:	56		
Vehicle Name	# Complete	# Stops	Participation %
WM105134	617	1102	56
Route Name:	4R02R		
Route Start Time:	1/22/2021 6:00:00 AM		
Total Route Participation Percentage:	57		
Vehicle Name	# Complete	# Stops	Participation %
WM105136	654	1141	57
Route Name:	4R04R		
Route Start Time:	1/22/2021 6:00:00 AM		
Total Route Participation Percentage:	51		


## Route Missed Stops Report

All service locations on a historical route NOT serviced or marked with an exception.

Route Missed Stops Report		
Created Friday, January 22, 2021 4:03:00 PM by CORETEX DEMO		
Start Date:	1/22/2021	
End Date:	1/22/2021	
Route Name:	4r17r	
Route Name:	4R17R	
Vehicle Name:	WM105144	
Service Date	Sequence #	Address
1/22/2021 6:00:00 AM	2	Address: 10010 GRANITE TRAIL LN CHARLOTTE 28214
1/22/2021 6:00:00 AM	10	Address: 10209 BROKEN STONE CT, CHARLOTTE, NC 28214
1/22/2021 6:00:00 AM	15	Address: 10314 CARVER FALLS RD CHARLOTTE 28214
1/22/2021 6:00:00 AM	17	Address: 10322 CARVER FALLS RD CHARLOTTE 28214
1/22/2021 6:00:00 AM	18	Address: 10326 CARVER FALLS RD CHARLOTTE 28214
1/22/2021 6:00:00 AM	45	Address: 11011 ROZZELLES FERRY RD CHARLOTTE 28214
1/22/2021 6:00:00 AM	46	Address: 11011 ROZZELLES FERRY RD CHARLOTTE 28214
1/22/2021 6:00:00 AM	48	Address: 11125 ROZZELLES FERRY RD CHARLOTTE 28214
1/22/2021 6:00:00 AM	50	Address: 11201 ROZZELLES FERRY RD CHARLOTTE 28214
1/22/2021 6:00:00 AM	58	Address: 11219 STONY PATH DR CHARLOTTE 28214

## Route Exceptions Report

A history of route exceptions (Not Out, Contaminated, Blocked) including which truck noted the exception, time of the exception, and service address.

<div> <div>1 of 6</div> <div>Find   Next</div> </div>			
Route Exceptions Report			
Created Friday, January 22, 2021 1:14:02 PM by Admin User			
Start Date:	1/22/2021		
End Date:	1/22/2021		
Route Name:	All Routes		
Route Name:	101F		
Date:	1/22/2021		
Vehicle Name:	101		
Event Time	Location	Vehicle Name	Exception
1/22/2021 9:14:04 AM	1636 AUTUMN OAK DR, LIVERMORE , CA 94551	101	Exception (NOT OUT)
1/22/2021 7:26:08 AM	1980 PONDEROSA DR, LIVERMORE, CA 94551	101	Exception (NOT OUT)
1/22/2021 7:21:20 AM	2035 MONTEREY DR, LIVERMORE, CA 94551	101	Exception (NOT OUT)
1/22/2021 10:03:21 AM	2073 BLUEBELL DR, LIVERMORE, CA 94551	101	Exception (NOT OUT)
1/22/2021 7:24:42 AM	2128 PONDEROSA DR, LIVERMORE, CA 94551	101	Exception (NOT OUT)
1/22/2021 6:40:09 AM	2131 SHETLAND RD, LIVERMORE, CA 94551	101	Exception (NOT OUT)