OptimizerPlus+ Maintenance Tables

Last Modified on 02/05/2026 12:19 pm EST

Main Menu / Supervisor Menu / Maintenance Menu / Optimizer Maintenance

Yard and Remote Tanks GPS

1. Each Yard/Storage or non-filling location (drivers home) needs listed by Division with a description.

2. *X1* and *Y1* coordinates both need to display a negative sign (-) in front of the coordinate.

3. The coordinate needs to be 9 characters long except where longitude has 3 digits to the left of the decimal; then it requires 10 characters.

4. *Setup Mins* indicate the time required by drivers to hook/unhook the hose from the truck. For a non-filling location (drivers home) this will be 0.

5. *Pumping Glns/Min* are the pumping speeds from the storage tank into the truck. For a non-filling location (drivers home) this will be 0.

6. The table to the right will list the Division and Routes that will utilize the storage facility with a *Y* (Yard) indicating the start and end of a shift, an *N* (non-filling) to indicate the start of the first run (usually a drivers home) or a *T* (Tank) to indicate a filling option during the shift.

7. Each route must have one Yard but can have multiple refilling locations (*T*).

Customer/Delivery Type Matrix

Cust Type/Del Type Matrix

Division	Cust Type	Deliv Type	Optigistics Tank Type	SummerFill Tank Type
1	1	1	C	
1	1	2	A	S
1	1	3	J	
1	2	1	C	
1	2	2	A	S
1	2	3	J	
1	2	50	C	
1	3	1	C	
1	4	1	C	
1	4	2	A	S
1	4	3	J	
1	4	50	C	
1	5	1	C	S
1	5	2	C	S
1	5	3	J	S
1	9	1	C	S
1	102	1	C	
1	102	2	A	S
1	102	3	J	
1	102	50	C	

Customer Type: PROPANE - RESIDENTIAL

Delivery Type: WILL CALL   Delivery Method: CI   ☐ Track Usage

Load from Tank File

Menu items: Yard and Remote Tanks GPS, Truck Maintenance, Driver Maintenance, Customer/Delivery Type Matrix, Weather Predictions, Climate Parameters, Exclude Tanks from Export, Optigistics Parameters, Routes to Schedule, DegreeDay Region Conversion

1. **Load from Tank File** is only run during the implementation of the OptimizerPlus+ and should NOT be selected. When this program is run, it will populate all combinations of customer and delivery type that exist in the tank table for active tanks. However, the *Optigistics Tank Type* and *SummerFill Tank Type* will not be populated.

2. The *Optigistics Tank Type* will be one of the following:
   - **C** – Call-In
   - **A** – Auto Fill
   - **J** – Julian Schedule

3. The assignment of these tank types will let the OptimizerPlus+ know which scheduling parameters to follow when building route schedules.

4. To add a new combination, use **Ctrl+M**, arrow down to a new line, and add the new information.

5. *SummerFill Tank Type* is used for Summer Fill scheduling. The letter *S* will need entered for all auto schedule combinations that would receive a Summer Fill. If using a Customer Type that gets a Summer Fill paired with a Delivery Type of Will Call (Call-In), enter an *S* for that Call-In entry.

   Note: All other Will Call and Julian Delivery Types will export for a delivery when an active call-in order is entered, or a Julian Schedule is due.

Weather Predictions

Optimizer Maintenance

Yard and Remote Tanks GPS

Truck Maintenance

Driver Maintenance

Customer/Delivery Type Matrix

Weather Predictions

Climate Parameters

Exclude Tanks from Export

Optigistics Parameters

Routes to Schedule

DegreeDay Region Conversion

Browse Weather Table

Division	DD Region	Date	High	Low
1	1	11/03/2023	52	30
1	1	11/04/2023	58	40
1	1	11/05/2023	68	42
1	1	11/06/2023	58	43
1	1	11/07/2023	60	39
1	1	11/08/2023	55	38
1	1	11/09/2023	50	31
1	1	11/10/2023	44	23
1	1	11/11/2023	54	27
1	1	11/12/2023	59	29
1	1	11/13/2023	62	33
1	1	11/14/2023	66	44
1	1	11/15/2023	62	32

1. This table is populated automatically when the Software Degree Day runs during the Automated Task process.
2. Seven days of predictions are required for each active Division/Region. This count is including the current date.

Climate Parameters

1. This information is provided by Optigistics during the OptimizerPlus+ implementation and will not be modified unless at the time of a rebalance.
2. These values are specified by Division/Route and will indicate the gallon volume that the Optimizer is told can handle during an average day/week.
3. When the value is exceeded, there is a notification on the daily Route Stats email.

Optigistics Parameters

1. The values in this table should not be touched except for the *EmailTo* line.
2. The *EmailTo* line will list the email address(es) that will be sent the daily Route Stats email. To edit this entry, use **Ctrl+M**, select in the *ParameterLongChar* field in the *EmailTo* line and add or delete email addresses accordingly.

Routes to Schedule

Division	Route	Div/Truck Assigned		Div/Driver Assigned		Max Truck Refills	Target Threshhold	Limit Threshhold	Schedule This Route		Start Loc
1 SOFTWARE SOLUTIONS INTEGRATED	10 EAST AVON	10 / 1122	2012 FREIGHTLIN	1 / 14	BRANDY WILLIAMS	3	0.3000	0.2000	☑	1	John Driver - home
1 SOFTWARE SOLUTIONS INTEGRATED	11 SOUTH INDY	20 / 1123	2012 KENWORTH	1 / 19	CURT MALICOAT	3	0.3000	0.2000	☑	0	
1 SOFTWARE SOLUTIONS INTEGRATED	12 WEST DANVILLE	55 / 1211	2021 KENWORTH	1 / 24	SHANNON FLAHERTY	3	0.3000	0.2000	☑	0	

1. All optimized routes must be in this table for the OptimizerPlus+ to build tank schedules.
2. To make an entry or modification, use **Ctrl+M**.
3. When entering the Truck and Driver, it is recommended to use **F5** and select from the maintenance box.
4. *Max Truck Refills* defines the maximum number of Runs the OptimizerPlus+ can schedule for that truck. This value must be greater than the Target Refill value for the truck in the *Browse Truck Extensions*.
5. *Target* and *Limit Thresholds* are in decimal form. For a delivery window of 20% - 30%, the *Target Threshold* is .30 and the *Limit Threshold* is .20.
6. *Schedule This Route* is checked for each active route in the table.
7. *Start Loc* is used if the route is starting at a non-filling location such as a driver's home. It is recommended to use **F5** and select from the *Maintenance* box. If the *Start Loc* is not a non-filling location then leave as 0.
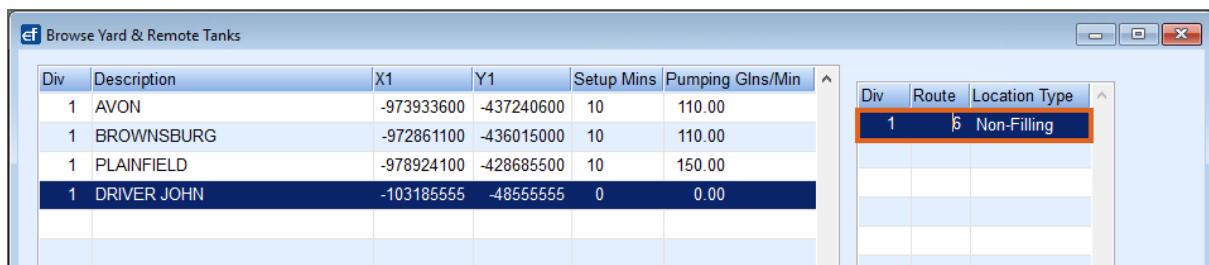
Setting OptimizerPlus+ to use a Non-Filling Location as Starting Location

OptimizerPlus+ can be set to start at a non-filling location such as a driver's home on the first run of the day.

1. Navigate to *Supervisor Menu / Maintenance Menu / Optimizer Maintenance / Yard and Remote Tanks GPS*.
2. Select **Create** to add an entry for the non-filling location.
   Example: *Description – Driver's home.*
3. **Tab** to enter the coordinates of the driver's home.
4. The *Setup Mins* and *Pumping Glns/Min* should be set as *0*.
5. Tab to enter the *Div* and *Route* this entry is for and set the *Location Type* to *Non-filling*.
6. **Save** and close the *Yard and Remote Tanks GPS* window.

Div	Description	X1	Y1	Setup Mins	Pumping Glns/Min		Div	Route	Location Type
1	AVON	-973933600	-437240600	10	110.00		1	6	Non-Filling
1	BROWNSBURG	-972861100	-436015000	10	110.00				
1	PLAINFIELD	-978924100	-428685500	10	150.00				
1	DRIVER JOHN	-103185555	-48555555	0	0.00				

7. Next, select *Routes to Schedule*.
8. Hold **Ctrl + M** to change to *Modify* mode and double click or use **F5** to select the Non-Filling Start *Location Name*. If the Start Location for a route is the yard, the *Start Loc* field should remain set to *0*.

Division	Route	Div/Truck Assigned		Div/Driver Assigned			Max Truck Refills	Target Threshhold	Limit Threshhold	Schedule This Route	Start Loc
1 SKY COOPERATIVE	102 DANVILLE LP	102 / 100	2022 FREIGHT	1 /	4	FELIX SCOPE	4	0.2700	0.1700	☑	0
1 SKY COOPERATIVE	202 MOORESVILLE LP	202 / 96	2021 FREIGHT	1 /	5	RUSS REMINGTON	4	0.2700	0.1700	☑	0
1 SKY COOPERATIVE	702 PLAINFIELD LP	702 / 1	SP1 2016 FREIGH	1 /	1	SHANE STARK	4	0.2700	0.1700	☑	0
1 SKY COOPERATIVE	102 DANVILLE LP	702 / 702	Cylinder	702 /	1	SHANE STARK	4	0.2700	0.1700	☑	1 DRIVER JOHN

Browse Driver Extensions

Division Number	Driver	Driver Type	Pay Rate	Target Hours	Max Hours	Truck	Truck Division	RRN	
1	4	hourly	0.0000	8.00	10.00	0	0	520	
1	1234	hourly	14.0000	8.00	10.00	477	1	501	

1. There must be an entry for each driver and truck assigned to an active OptimizerPlus+ route listed in the *Routes to Schedule* table.
2. The table can be modified using **Ctrl+M**.
3. For location-based data setup, the drivers can be entered in Division 1.
4. The *Driver Type* is *hourly* with all lower-case characters.
5. *Pay Rate* is not a value that is in use but an entry must exist. It is recommended to use a standard default value across all drivers.
6. *Target* and *Max Hours* indicate to the OptimizerPlus+ the desired duration of the schedule while also indicating the maximum limit that it can schedule. The OptimizerPlus+ will not build a schedule surpassing the *Max Hours* limit. The time includes drive time leaving the Yard, setup and pump time at the customer tanks, setup and refill time at the Storage Tanks, and all drive time in between.
7. *Truck* and *Truck Division* must match what is listed in the *Routes to Schedule* table.
8. No action is needed for the *RRN* field.

Browse Truck Extensions

Truck	Starting Fill Perc	Gallons Per Minute	Max Fill Perc	Number of Drivers	Target Refills	Dollars Per Mile	Truck Tank Size	Division	Truck Tank Type	Average Speed	RRN	
100	0.00	66.00	0.80	1	2	4.75	3500	102	P	40.00	71	
96	0.00	66.00	0.80	1	2	4.37	3500	202	P	40.00	72	
1	0.00	67.00	0.80	1	3	4.75	3500	702	P	40.00	73	

1. There must be an entry for each truck assigned to an active OptimizerPlus+ route listed in the *Routes to Schedule* table.
2. The table can be modified using **Ctrl+M**.
3. *Starting Fill Perc* will be *0.00*.
4. *Gallons Per Minute* is the pumping speed of gallons from the truck to customer tanks.
5. *Max Fill Per* is the level the truck is loaded to at each fill in decimal form. For example, if the truck is filled to 80%, the value set on the truck will be .80.

6. The *Number of Drivers* is *1*.

7. *Target Refills* defines the number of Runs the OptimizerPlus+ will consider ideal for that truck. This value must be lower than the value in the *Routes to Schedule* table which defines the *Max Truck Refills* limit.

8. *Dollars Per Mile*, *Truck Tank Size*, and *Average Speed* values are entered per truck.

9. The Posting Division for the truck is the *Division*.

10. *Truck Tank Type* is *P*.

11. No action is needed for the *RRN* field.

Schedule Log

This table will show schedule information for current and historical schedules.

Modifications to Driver/Truck Settings

Driver Changes

Update Driver Hours

1. **Table** – Browse Driver Extensions
2. **Ctrl+M** to modify *Target* and *Max Hours* fields

Move Driver Route Assignment

1. **Table** – Driver Maintenance
2. **Verify/Add** driver to Energy Force Driver Maintenance
3. **Table** – Browse Driver Extensions
4. **Verify/Add** driver with all fields completed
5. **Table** – Routes to Schedule
6. **Ctrl+M** to modify the *Div/Driver Assigned* fields

Truck Changes

Update Truck Division

- **Table** – *Browse Truck Extensions*
    - Modify the *Division* field for the truck entry
- **Table** – *Browse Driver Extensions*
    - Modify the *Truck Division* for the Truck
- **Table** – *Routes to Schedule*
    - Modify the *Div/Truck Assigned* field

Move Truck to New Route/New Driver

- **Table** – *Routes to Schedule*
- **Table** – *Driver Extensions*

Modify Truck Refill Limit

- **Table** – *Browse Truck Extensions*
- **Table** – *Routes to Schedule*

Modify Truck Information

- **Table** – *Browse Truck Extensions*
    - Gallons Per Minute
    - Max Fill Perc
    - Dollars Per Mile
    - Average Speed

Route Changes

Modify Route Yard

- **Table** – *Yard and Remote Tanks GPS*

Important Considerations

1. The Route/Driver/Truck relationship must match between the *Routes to Schedule*, *Browse Driver Extensions*, and *Browse Truck Extensions* tables.

Routes to Schedule

	Division		Route	Truck Division	Truck Assigned		Driver Division	Driver Assigned		Max Truck Refills	Target Threshhold	Limit Threshhold
1	SOFTWARE SOLUTIONS INTEGRATED	1	EAST AVON	10	4456	2021 FREIGHTLIN	1	14	BRANDY WILLIAMS	3	0.3	0.2

Browse Driver Extensions

Division Number	Driver	Driver Type	Pay Rate	Target Hours	Max Hours	Truck	Truck Division
1	14	hourly	20	8	10	4456	10

Browse Truck Extensions

Truck	Starting Fill Perc	Gallons Per Minute	Max Fill Perc	Number of Drivers	Target Refills	Dollars Per Mile	Truck Tank Size	Division	Truck Tank Type	Average Speed
4456	0	45	0.8	1	3	4.5	3200	10	P	40

2. There can only be one *Yard* assigned to a *Route* and there must be a *Yard* assigned to a *Route*.

3. *Customer/Delivery Type Matrix* must have the Optigistics *Tank Type* of A, J, or C populated.

4. A driver's hours must be between 4 - 18.

5. All percentages are entered in decimal form in every OptimizerPlus+ Maintenance table.