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Yard and Remote Tanks GPS

- ## Customer/Delivery Type Matrix

Customer/Delivery Type Matrix

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

ef Cust Type/Del Type Matrix
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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:

Load from Tank File

Delivery Type:

Delivery Method ☒ CI ☐ Track Usage

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

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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

Optimizer Maintenance

Yard and Remote Tanks GPS

Truck Maintenance

Driver Maintenance

Customer/Delivery Type Matrix

Weather Predictions

Climate Parameters

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Optigistics Parameters

Routes to Schedule

DegreeDay Region Conversion

ef Browse Climate Parameters

Division Number	Route	Peak Capacity - Gallons	Max Days per Week Scheduled	Avg Days per Week Scheduled
1	102	5500	6	5
1	202	7400	6	5
1	702	7500	6	5

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

Optimizer Maintenance

Yard and Remote Tanks GPS

Truck Maintenance

Driver Maintenance

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ef Browse - Optigistics Parameter

ParameterName	ParameterShortChar	ParameterLongChar	ParameterNum
CustTankFillFract	N		0.800000
DaysJulianAfter			2.000000
DaysJulianBefore			3.000000
DaysWillCallAfter			4.000000
DaysWillCallBefore			1.000000
DefaultJulianTankLevel			0.200000
DefaultWillCallMaxFillLevel			0.800000
DegreeDayBeginDate		10/05/2005	0.000000
DemoLowTankLimitFract	N		0.075000
DemoMode	I		0.000000
EmailTo			0.000000
EndLocation			999.000000

RRN
ParameterClass
File Order

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 Threshold	Limit Threshold	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	<input checked="" type="checkbox"/>	1 John Driver - home
1 SOFTWARE SOLUTIONS INTEGRATED	11 SOUTH INDY	20 / 1123	2012 KENWORTH	1 / 19	CURT MALICOAT	3	0.3000	0.2000	<input checked="" type="checkbox"/>	0
1 SOFTWARE SOLUTIONS INTEGRATED	12 WEST DANVILLE	55 / 1211	2021 KENWORTH	1 / 24	SHANNON FLAHERTY	3	0.3000	0.2000	<input checked="" type="checkbox"/>	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
1	AVON	-973933600	-437240600	10	110.00
1	BROWNSBURG	-972861100	-436015000	10	110.00
1	PLAINFIELD	-978924100	-428685500	10	150.00
1	DRIVER JOHN	-103185555	-48555555	0	0.00

Div	Route	Location Type
1	6	Non-Filling

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 Threshold	Limit Threshold	Schedule This Route	Start Loc
1 SKY COOPERATIVE	102 DANVILLE LP	102 / 100	2022 FREIGHT	1 / 4	FELIX SCOPE	4	0.2700	0.1700	<input checked="" type="checkbox"/>	0
1 SKY COOPERATIVE	202 MOORESVILLE LP	202 / 96	2021 FREIGHT	1 / 5	RUSS REMINGTON	4	0.2700	0.1700	<input checked="" type="checkbox"/>	0
1 SKY COOPERATIVE	702 PLAINFIELD LP	702 / 1	SP1 2016 FREIGH	1 / 1	SHANE STARK	4	0.2700	0.1700	<input checked="" type="checkbox"/>	0
1 SKY COOPERATIVE	102 DANVILLE LP	702 / 702	Cylinder	702 / 1	SHANE STARK	4	0.2700	0.1700	<input checked="" type="checkbox"/>	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

Customer#	Name	Schedule Date	Driver	Truck	Run	Sequence	Tank RRN	EstGal2Del	Tk Stat	Elapsed Distance	Elapsed Time	Ticket#	GalDel
122060	SALEM PROPANE-8	01/26/2024	4	100	1	1	2,614	300.00	dt+	10.60	0.50	0	0.00
115520	SALEM PROPANE-8	01/26/2024	4	100	1	2	2,321	150.00	dt+	13.50	0.80	0	0.00
115520	SALEM PROPANE-8	01/26/2024	4	100	1	3	2,322	300.00	dt+	13.60	1.00	0	0.00
128760	SALEM PROPANE-8	01/26/2024	4	100	1	4	2,885	300.00	dt+	16.40	1.30	0	0.00
123180	SALEM PROPANE-8	01/26/2024	4	100	1	5	2,662	300.00	dt+	19.80	1.70	0	0.00
129200	SALEM PROPANE-8	01/26/2024	4	100	1	6	2,904	314.50	kf+	21.80	2.00	0	0.00
111140	SALEM PROPANE-8	01/26/2024	4	100	1	7	2,125	388.60	kf+	24.60	2.30	0	0.00
127880	SALEM PROPANE-8	01/26/2024	4	100	1	8	2,848	331.60	kf+	28.00	2.60	0	0.00
124320	SALEM PROPANE-8	01/26/2024	4	100	1	9	2,702	300.00	dt+	30.00	2.90	0	0.00
125760	SALEM PROPANE-8	01/26/2024	4	100	2	1	2,771	635.10	kf+	35.80	4.00	0	0.00
117700	SALEM PROPANE-8	01/26/2024	4	100	2	2	2,424	300.00	dt+	39.10	4.30	0	0.00
109440	SALEM PROPANE-8	01/26/2024	4	100	2	3	2,051	313.00	kf+	40.50	4.60	0	0.00
126340	SALEM PROPANE-8	01/26/2024	4	100	2	4	2,784	300.00	dt+	43.00	4.90	0	0.00
126300	SALEM PROPANE-8	01/26/2024	4	100	2	5	2,782	303.60	kf+	43.20	5.20	0	0.00

Import Seq Import Date Import Time Fraction Full Before Delivery
 Beginning YRT Ending YRT

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 Threshold	Limit Threshold
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.
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