Tank Groups

Last Modified on 04/15/2025 4:17 pm EDT

Tank Groups allow groups of tanks to be defined which will be delivered as one tank should certain tanks in the group be selected for scheduling.

Rules and Considerations

- All tanks in a Tank Group must be within the same Division and Route, but not limited to a single customer.
- A tank can only be a member of a single Tank Group.
- Tank Groups, where the total gallons required exceed the truck's capacity, will be ignored by the Optimizer. Any critical tanks from that group will still be viable candidates to be scheduled independent of the Tank Group.
- When building a Tank Group, the Optimizer does not route between all tanks but instead creates a composite tank, taking on the aspects of the most critical tank such as delivery type and GPS location. The capacity and delivery requirements of this composite tank are the sum of all its member tanks.
- Tank Groups created with tanks more than 1 mile apart will severely impact the Optimizer's efficiency.
- At least 1 tank in the Tank Group must be in the Optimizer tank set and be considered for scheduling to trigger the formation of the Tank Group.

Note: Tank Groups are supported in Summer Fill mode and during Exclusion Periods.

OptimizerPlus+ Tank Set – Tanks exported by Energy Force and identified by OptimizerPlus+ as viable scheduling candidates based on a multitude of parameters and factors.

Viewing the Tank Group Tab

Navigate to Supervisor Menu / Maintenance Menu / Optimizer Maintenance / Optimizer + Calendar Tool and select the Tank Groups tab.

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Exclusions Options Submodes Ta	ink Gr	oups				
Customers 1 <search></search>	*	<u>Available Tanks</u>	2	Groups 3 <new></new>		Member Tanks 4
Group Information 5				Tank Informatio	<u>n</u> 6	Member Of: -
Group Name:		Update Delete		Tank RRN:	0	Distance to Farthest Tank: 0
Tank Count:	0	Division:	0	Division:	0	Default Fill (Gallons): 0
Estimated Total Capacity:	0	Route:	0	Route:	0	Always Use Default Fill
Available Capacity:	0	Farthest Distance:	0	Capacity:	0	Always Fill This Tank
				Customer: -		
				Delivery Type:	0	Add Remove 7
v1.10.10					Cancel	Save Save & Close

1. **Customers** – A list of customers taken from Energy Force. Only those customers with active propane tanks are listed.

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This list is searchable by using the *Search* box above it. Type a customer number or portion of the customer's name then Tab to the list to repopulate it with anything matching the search phrase.

- 2. Available Tanks Active propane tanks for the selected customer with a Total Tank Capacity greater than 0.
- 3. **Groups** List of currently defined Tank Groups.
- 4. Member Tanks Tanks that are members of the selected Tank Group.
- 5. Group Information Displays various information about the selected Tank Group.
 - Group Name Descriptive name of the Tank Group; can be modified.
 - Tank Count Total # of tanks that are members of the selected Tank Group.
 - Estimated Total Capacity Estimated sum of the capacity required to deliver to all tanks in the selected group. Defined by adding 80% of each tank's capacity.
 - Available Capacity Value is the result of subtracting the Estimated Total Capacity from the truck's Total Capacity. If this value goes below 0 then it is displayed in red.
 - **Division** The division of the tanks in the group set when first tank is added.

- Route The route of the tanks in the group, set with the first tank is added.
- **Farthest Distance** Distance in miles between the 2 tanks of the selected Tank Group that are farthest apart. This value displays red when it exceeds 1 mile.
- 6. Tank Information Displays information about any 1 tank currently selected in the Available Tanks or

Member Tanks lists.

- Tank RRN Energy Force Tank RRN of selected tank.
- Division Division of selected tank.
- **Route** Route of selected tank.
- Capacity Total Tank Capacity of the selected tank (0 capacity tanks will not export to the OptimizerPlus+).
- Customer Name of customer tied to the tank.
- Delivery Type Numerical delivery type of selected tank.
- Member Of -The name of the group the tank belongs, otherwise displays a dash.
- **Distance to Farthest Tank** When a group is selected, the distance in miles from the selected tank to the farthest tank in the selected group. The tank does not need to be a member to show distance. If distance is greater than 1 mile, value will display red.
- **Default Fill (Gallons)** If this tank does not exist in OptimizerPlus+'s tank set and is marked as*Always Fill This Tank*, then the delivery amount specified here will be used for this tank when OptimizerPlus+ is calculating the tank group delivery size. This value cannot be 0.
- Always Use Default Fill When checked, the default fill value in above item will always be used and will override OptimizerPlus+'s estimated amount to fill an auto schedule or entered delivery amount for call ins specified in the Energy Force data export.
- Always Fill This Tank Checked by default, OptimizerPlus+ will always include the tank for delivery even if it doesn't exist in the OptimizerPlus+'s tank set. If nonexistent in the tank set, OptimizerPlus+ will use the *Default Fill Gallons* as the gallons to deliver. If box is unchecked, the tank will only be included in the schedule if it requires delivery defined by other parameters.
 - Example:
- Add/Remove Buttons Add button adds the selected tank to a group or updates the tanks settings or Remove button removes the selected tank from its assigned group.

Creating a Tank Group

Navigate to Supervisor Menu / Maintenance Menu / Optimizer Maintenance / Optimizer + Calendar Tool and select the Tank Groups tab.

- 1. Select the <NEW> entry from the Groups section.
- 2. In the Group Information section, type a descriptive name for the group.
- 3. Click Create.

Customers	Available Tanks	Groups	M	ember Tanks
<search></search>	Garage House	CNEW>		
10000				
Group Information		Tank Informa	tion 10429	Member Of:
Group Information Group Name: ABC Farms	Create 3	Tank Informa Tank RRN: 0 Division:	tion 10429 1	Member Of: Distance to Farthest Tank: Default Fill (Gallons):
Group Information Group Name: ABC Farms Tank Count: Estimated Total Capacity:	Create 3 0 Division: 0 Route:	Tank Informa Tank RRN: 0 Division: 0 Route:	tion 10429 1 5	Member Of: Distance to Farthest Tank: Default Fill (Gallons):
Group Information Group Name: ABC Farms Tank Count: Estimated Total Capacity: Available Capacity:	Create 3 0 Division: 0 Route: 0 Farthest Distance:	Tank Informa Tank RRN: 0 Division: 0 Route: 0.00 Capacity: Customer:	tion 10429 1 5 500	Member Of: Distance to Farthest Tank: Default Fill (Gallons):

- 4. Search the Customers search box for the first customer member of the Tank Group.
- 5. Select an Available Tank (if the tank already exists in another Tank Group, it cannot be added; the group it is a member of will be displayed in the *Member Of* field).
- 6. Edit the fill details for tank.

Customers			Available Tanks	Groups		Member Tanks
Williams	15		house 5	ABC Farms		
	100			N		
Group Infor	ABC Farms		Update Delete	Tank Information	24368	Member Of:
Group Inform Group Name: Tank Count:	nation ABC Fams	0	Update Delete Division:	Tank Information Tank RRN: 0 Division:	tion 24368 1	Member Of: - Distance to Farthest Tank: 0.03 Default Fill (Gallons): 100
Group Inform Group Name: Tank Count: Estimated Tota	ABC Farms	0	Update Delete Division: Route:	Tank Information Tank RRN: 0 Division: 0 Route:	tion 24368 1 4	Member Of: - Distance to Farthest Tank: 0.03 Default Fill (Gallons): 100 Aways Use Default Fill

- 7. Continue to add tanks, searching additional customers if necessary, and update fill details appropriately.
- 8. Click **Update** after each tank is added to update the Tank Group.

9. Click Save or Save & Close.

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Exclusions Options Submodes Tank	Groups	7	
Customers Williams	Available Tanks house shop	Groups <new> ABC Fams</new>	<u>Member Tanks</u> house shop
Group Information Group Name: ABC Farms	Undate Delete	Tank Information Tank RRN: 24369	Member Of: ABC Farms
Tank Count: 2 Estimated Total Capacity: 1600	Division: 1 Route: 4	Division: 1 Route: 4	Default Fill (Gallons): 100 Always Use Default Fill
Available Capacity: 2640	Farthest Distance: 0.00	Capacity: 1000 Customer: Delivery Type: 1	Aways Fill This Tank
v1.10.10		Cance	Save Save & Close

Editing a Tank Group

Navigate to Supervisor Menu / Maintenance Menu / Optimizer Maintenance / Optimizer + Calendar Tool and select the Tank Groups tab.

Edit Tank Group Description/Name

- 1. Select the Tank Group from the *Groups* list to edit.
- 2. The Group Information section will update with the current details of the group selected.
- 3. To change the name of the group, type in a new description.
- 4. Click Update.

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Exclusions Options Submodes	Tank Gro	oups				
Customers	^	Available Tanks SHERIFF IC. HOUSE-PRI MANIFOLDED		Groups <new> ABC Farms SSI Sample</new>	1	Member Tanks house shop
Group Information	2			Tank Informa	tion	Member Of: SSI Sample
Group Name: NEW ABC Farms		Update Le		Tank RRN:	16462	Distance to Farthest Tank: 0.04
Tank Count:	2	Division:	1	Division:	1	Default Fill (Gallons): 100
Estimated Total Capacity:	1600	Route:	4	Route:	1	Always Use Default Fill
Available Capacity:	2640	Farthest Distance:	0.00	Capacity:	2000	🗹 Always Fill This Tank
				Customer:		
				Delivery Type:	1	Update Remove
v1.10.10					Canc.	Save Save & Close

Edit Tank Fill Details in Existing Tank Group

- 1. Select the Tank Group from the *Groups List* to edit. The *Group Information* section will update with the current details of the group selected.
- 2. Select the Member Tank to view the Tank Information.
- 3. Update the Fill Details by:
 - 1. Entering a set *Default Fill (Gallons)* amount.
 - 2. Option to Always Use Default Fill amount.
 - 3. Option to Always Fill This Tank.
- 4. Once edits are complete, click **Update**.
- 5. Click Save or Save & Close.

Customers			Available Tanks	Groups	Member Tanks
<search></search>	R	^	HOUSE	ABC Farms SSI Sample	house 2 shop
		~			
aroup Information	ABC Farms		Update Delete	Tank Information Tank RRN: 2436	Member Of: ABC Farms 8 Distance to Farthest Tank: 0.00
Group Inform Group Name: Fank Count:	nation ABC Farms	2	Update Delete Division:	Tank Information Tank RRN: 2436 Division:	Member Of: ABC Farms B Distance to Farthest Tank: 0.00 Default Fill (Gallons): 350
Group Inform Group Name: Fank Count: Estimated Tota	nation ABC Fams al Capacity:	2	Update Delete Division: Route:	Tank Information Tank RRN: 2436 1 Division: 4 Route:	Member Of: ABC Farms Bistance to Farthest Tank: 0.00 Default Fill (Gallons): 350 Always Use Default Fill

Add a Tank in Existing Tank Group

- 1. Select the Tank Group from the *Groups List* to edit. The *Group Information* section will update with the current details of the group selected.
- 2. Search the *Customers* search box for the Customer with the tank to add.
- 3. Select the tank from the Available Tanks list.
- 4. Edit the fill details for selected tank.
- 5. Click Add.
- 6. Click Save or Save & Close.

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Exclusions Op	tions Submodes	Tank Gr	oups					
Customers wilson	2		Available House	Tanks 3	Groups <new> ABC Fams SSI Sample</new>	1	Member Tanks SHERIFF C. HOUSE-PRI	
Group Inform	nation		Undate	Delete	Tank Informa	tion 26437	Member Of: -	
Tank Count:	Coroampie	2	Division:	1	Division:	1	Default Fill (Gallons): 100	
Estimated Tota	Capacity:	2000	Route:	1	Route:	1	Always Use Default Fill	4
Available Capa	city:	2000	Farthest Dist	tance: 0.04	Capacity:	250	Always Fill This Tank	
					Customer: Delivery Type:	1	Add 5 emove	
v1.10.10						Canc	6 Save Save & Close	

Remove a Tank in Existing Tank Group

- 1. Select the *Tank Group* from the *Groups List* to edit. The *Group Information* section will update with the current details of the group selected.
- 2. Select the *Member Tank* to remove.
- 3. Click Remove.
- 4. Click Save or Save & Close.

Search> NEW HOUSE (NEW) ABC Farms SSI Sample SSI Sample SSI Sample Group Information Tank Information Group Name: SSI Sample Update Delete Tank RRN: 26437 Distance to Farthest Tank: 55.56 Tank Count: 3 Jivision: 1 Division: 1 Division: 1 Default Fill (Gallons): 100 Estimated Total Capacity: 2200 Route: 1 Available Capacity: 1800 Farthest Distance: 55.56 Capacity: 250 Aways Fill This Tank	Justomers			Available Tanks	Groups	Member Tanks
Group Information Tank Information Member Of: SSI Sample Group Name: SSI Sample Update Delete Tank RRN: 26437 Distance to Farthest Tank: 55.56 Tank Count: 3 Division: 1 Division: 1 Default Fill (Gallons): 100 Estimated Total Capacity: 2200 Route: 1 Route: 1 Aways Use Default Fill Available Capacity: 1800 Farthest Distance: 55.56 Capacity: 250 Aways Fill This Tank	<search></search>	<u>5</u>	^	NEW HOUSE	<new> ABC Fams SSI Sample</new>	SHERIFF C. HOUSE-PRI House
Count: 3 Division: 1 Division: 1 Default Fill (Gallons): 100 Estimated Total Capacity: 2200 Route: 1 Route: 1 Always Use Default Fill Available Capacity: 1800 Farthest Distance: 55.56 Capacity: 250 Always Fill This Tank	Group Infor	nation	v	Ladata Dalata	Tank Information	Member Of: SSI Sample
Estimated Total Capacity: 2200 Route: 1 Route: 1 Aways Use Default Fill Available Capacity: 1800 Farthest Distance: 55.56 Capacity: 250 Aways Fill This Tank Customer:	aroup Name.	55i Sampie	3	Division: 1	Division: 1	Default Fill (Gallone): 100
Available Capacity: 1800 Farthest Distance: 55.56 Capacity: 250 🗹 Always Fill This Tank	Tank Count:		2200	Route: 1	Route: 1	Always Use Default Fill
L Listomer"	Tank Count: Estimated Tota	al Capacity:				

Deleting a Tank Group

Navigate to Supervisor Menu / Maintenance Menu / Optimizer Maintenance / Optimizer + Calendar Tool and select the Tank Groups tab.

- 1. Select the *Tank Group* from the *Groups List* to delete. The *Group Information* section will update with the current details of the group selected.
- 2. Click the **Delete** button in the *Group Information* section.
- 3. Click Save or Save & Close.

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	Exclusions Options Submodes	Tank Gr	oups					
	Customers		Available Tanks	<u> </u>	<u>Groups</u>		<u>Member Tanks</u>	
	<search></search>		NEW HOUSE		<new> ABC Farms</new>		SHERIFF C. HOUSE-PRI	
		^		1	SSI Sample		House House	
	5 mm							
	10 million							
	2 2 2 2 2 2 2 2	-						
	2 mm - 2 mm	~						
	0 17 1				T 1 1 <i>C</i>			
	Group Information				lank Informa	ation	Member Of: SSI Sample	
	Group Name: SSI Sample		Update Delete	e	ank RRN:	26437	Distance to Farthest Tank: 55.56	
	Tank Count:	3	Division:	1	Division:	1	Default Fill (Gallons): 100	
	Estimated Total Capacity:	2200	Route:	1	Route:	1	Always Use Default Fill	
	Available Capacity:	1800	Farthest Distance:	55.56	Capacity:	250	🗸 Always Fill This Tank	
					Customer:			
					Delivery Type:	1	Update Remove	
,	v1.10.10					Canc	Save Save & Close	

WARNING: Users assume all risks associated with modifying the behavior of the OptimizerPlus+ from its default or recommended settings.