



# Configuring and Managing Movements

Use the following procedure to configure and manage a Movement.

Prerequisites: You must belong to a FuelsManager user group with appropriate security access rights to view and modify data. Some pages may not be available for entry or edit depending on your user security rights.

Movement involves setting up and monitoring product movements in refineries and bulk storage facilities. It is used to configure and monitor product movements, which involves transferring product from one or more Sources to one or more Destinations.

In order to be able to track a movement, you must perform the following:

- 1) First, you must create a Movement (Point) derived from the Standard Movement Point Template.
- 2) You then configure the Movement Settings for the Movement Nodes (Points). The Movement Node can be a tank, a pipe, a truck, and so on.
- 3) You are then able to record the Movement from the Movement Summaries.
- 4) Archive information from Movements can be viewed from the Movement History.

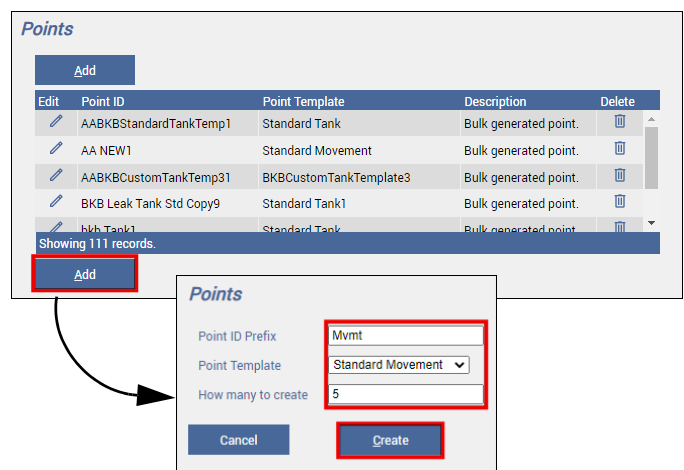
This document includes information for steps 1 and 2 above only. For step 3, see **QRG522 Recording Movements in Operate** for additional information. For step 4, see the **QRG524 Using Movement History** for more information.

## 1 Configuring a Movement Point

Follow the steps below to configure a Movement Point(s):

- 1) **Log in** to FuelsManager.
- 2) From the menu, select **Configuration > Inventory Management > Points**. The Points Configuration page displays.
- 3) Click **Add**. The Point Configuration page displays.
- 4) Enter the **Point ID Prefix**. This will be the prefix for the Points you create.  
 If you enter PT00, the Point ID of the Points created will have the prefix PT00 and incremented by one (1) to the total number of Points to create, such as PT001 to PT0010 (if creating 10 Points).
- 5) From the *Point Template* dropdown, select **Standard Movement** from the list.  
 Point Templates are predefined in FuelsManager. If Standard Movement is not listed, contact the Varec Help Desk.
- 6) Enter the **number of points** you want to create.
- 7) Click **Create** to create the point(s) based on your selections or click **Cancel** to discontinue action.

Movement Points created display in the Points Configuration summary list page. For more information on Points, see the *Points Configuration* help page on FuelsManager.



By default, all Movement Points derived from the Movement Point Template will have the appropriate Settings, Tags, Modules, and Alarms that are associated to the Movement Point Template. For more information on Point Templates, see the *Point Templates Configuration* help page on FuelsManager.

## 2 Configuring the Movement Settings

Movement Nodes, which are typically Tank Points should have been preconfigured for your Site. Do not edit or delete Points unless you are the System Administrator or System Integration Engineer. This could result in incorrect calculations or loss of FuelsManager functionality.

### Setting Up Movement Nodes

Follow the steps below to set up a Movement Node from the Movement Settings:

- 1) From the menu, select **Configuration > Inventory Management > Points**. The Points Configuration page displays.
- 2) Click the **Edit** icon next to the Point derived from a *Standard Movement* point template. The Point Editor multi-tab page displays.
- 3) Verify that you are on the **Settings** tab, and then click **Open Editor** next to *Movement Settings*. A multi-tab editor displays.
- 4) Select the **Setup** tab.
- 5) **Check** or **clear** the *Interlock Source & Destination Setpoints* check box.

When checked, this indicates that the *Source* and *Destination* set points are interlocked, such that if one set point value is changed, both are changed.

- When interlocked (checked) and you enter a *Source Target* of 30, when you add a *Destination Target*, 30 automatically shows as the *Target*. If you change the *Destination Target* to 50, the *Source Target* is automatically set to 50.
- When not interlocked (unchecked) and you change the *Source Target* to 30, the *Destination Target* remains the same.

- 6) **Check** or **clear** the *Include Handgauge Values* check box.

When checked, this indicates data from the hand gauge may be entered on the *Movement History* for this Movement Node (Tank Point).

- 7) Click **Add** to add a new Movement Node. A new row is added at the bottom of the table.
- 8) In the *Movement Node* dropdown list, select a **Movement Node** (Tank Point).

If there are no Movement Nodes (Tank Points) available in the dropdown, all Movement Nodes may have been previously assigned or you need to configure a new Tank Point (Point derived from the Standard Tank point template). See the *Points Configuration* help for more information on configuring a Point.

- 9) Select the **Direction** of the Movement Node:
  - **Source** - indicates this is the originating node.
  - **Destination** - indicates this is the target node.

FuelsManager allows adding of one Source to one or more Destinations, or multiple Sources to one Destination.

The first screenshot shows a table of points:

Edit	Point ID	Point Template	Description	Delete
<input checked="" type="checkbox"/>	CM1	Standard Movement	Bulk generated point.	<input type="checkbox"/>
<input type="checkbox"/>	CM2	Standard Movement	Bulk generated point.	<input type="checkbox"/>
<input type="checkbox"/>	CO_20230419_Mvmt_3EDIT	Standard Movement	Bulk generated point.	<input type="checkbox"/>
<input type="checkbox"/>	CO_20230419_Mvmt_4	Standard Movement	Bulk generated point.	<input type="checkbox"/>
<input type="checkbox"/>	Friday Standard Tank1	Standard Tank	Bulk generated point.	<input type="checkbox"/>
<input type="checkbox"/>	Https_test1	Standard Tank1	Bulk generated point.	<input type="checkbox"/>
<input type="checkbox"/>	Https_test2	Standard Tank1	Bulk generated point.	<input type="checkbox"/>

The second screenshot shows the 'Settings' tab for 'CM1' with the 'Open Editor' button highlighted.

The third screenshot shows the 'Setup' tab for 'CM1' with the 'Interlock Source & Destination Setpoints' and 'Include Handgauge Values' checkboxes highlighted.

Movement Node	Direction	IF	Transfer Mode	Target	Individual Node Control
FF Standard Tank1	Source		Level	-1000	True
FF Standard Tank2	Destination		Level	1000	<input checked="" type="checkbox"/>

- 10) Select the **Transfer Mode** type:
  - **Level** - allows you to set the final volume of product to move (transfer).  
For example, if **Level** is selected and the **Target** is 10,000, when the destination node reaches 10,000 gallons, the movement stops. If the tank volume was at 8,000 gallons prior to starting the movement, this means 2,000 gallons was moved (transferred).
  - **Batch** - allows you to set the Target value of product to move (transfer).  
For example, if **Batch** is selected and the **Target** is 500, this means 500 gallons is the total product to move (transfer).
- 11) Enter the **Target** amount in gallons to move.

- 12) **Check** or **clear** the *Individual Node Control* check box - indicates Individual Node Control is enabled.  
When checked, displays **True** in the column.

When set to **True**, the controlling Movement sets the *Transfer Mode* and *Target*, but does not set the node as *Active* until the Operator selects that node and activates it from the Movement Summary. See **QRG522 Recording Movements in Operate** for additional information on the Movement Summary.

- 13) Add more Movement Nodes as necessary.
- 14) Click **Save** to save the data in the Movement Module Editor.  
You may need to click out or tab out of the table to end edit mode.
- 15) Click **Close** to close the editor and go back to the Point Editor Settings tab.

For more information on editing and/or deleting Movement Nodes, see the *Movement Settings* help page on FuelsManager.

### Configuring the Movement Recording Settings

Follow the steps below to configure the settings to record a Movement:

- 1) From the menu, select **Configuration > Inventory Management > Points**. The Points Configuration page displays.
- 2) Click the **Edit** icon next to the Point derived from a *Standard Movement* point template. The Point Editor multi-tab page displays.
- 3) Verify that you are on the **Settings** tab.
- 4) Click **Open Editor** next to Movement Settings. The multi-tab Movement Module Editor displays.
- 5) Select the **Recording** tab.
- 6) Enter the **Order #** for this Movement.
- 7) **Check** or **clear** the *Send To Accounting* check box.  
When checked, this indicates a transaction will be created with this Order number and sent to Accounting. The transaction created (example: Receipt or Transfer) will depend on the transaction alias associated with the Movement on the Movement Summary.
- 8) Enter a **Comment**, if desired.
- 9) To set a *Planned Start Time*, **check** the *Set Pending Status* check box.  
When checked, this enables the *Planned Start Time* field and allows you to set it.
- 10) Enter or select the **Planned Start Time**.
- 11) **Check** or **clear** the *Delete After Completion* check box.  
When checked, this indicates that the Movement will be deleted from the Movement Summary when the movement is completed.

12) **Check or clear** the *Stop/Halt based on Zero Flow* check box.

When checked, this indicates that FuelsManager will stop the Movement when it detects no product is flowing when the set Zero Flow Hold Off Time is exceeded.

Checking this field disables the *Use Control Tag Start/Stop* check box.

- a) In the *Zero Flow Hold Off Time (min.)* field, enter the **number of minutes** to hold off stopping the Movement when a zero product flow is detected.

This field is limited up to five digits. When this number of minutes is exceeded, the Movement is stopped.

13) **Check or clear** the *Start Time based in Non Zero Flow* check box.

When checked, this indicates that the *Start Time* does not show when zero flow is detected. As soon as flow is detected, the *Start Time* is updated (shown on the Movement Summary).

Checking this field disables the *Use Control Tag Start/Stop* check box.

- 14) To use a control tag to *Start* or *Stop* this Movement, **check** the *Use Control Tag Start/Stop* check box. - indicates that the Tag selected controls when the Movement starts and/or stops.

This field is available only if none of these are checked: *Stop/Halt based on Zero Flow* or the *Start Time based in Non Zero Flow* check boxes.

- 15) Select the **Control Tag** from the list.  
16) In the *Ticket Name* field, select the **name of the report** you want to print for this Movement.  
17) Select the **Printer** where this Movement is printed.  
If the Printer is not listed, you may need to configure it through Windows.  
18) Click **Save** to save the Recording Settings.  
19) Click **Close** to close the Movement Module Editor and go back to the Point Editor Settings tab.

You may also create Movements and Movement Nodes from Movement Summaries. See **QRG521 Recording Movements in Operate** for more information.