Tank Farm Automation & Control

at Tank Farms, Terminals & Refineries

Automate your facility and reduce the amount of time your operators spend in the field by using industry standard open communication interfaces and FuelsManager's data point architecture.

Increased Safety with Control

FuelsManager Oil & Gas utilizes specialized data points to automate and control tank farm equipment, increasing safety and improving responsiveness. Combining new automation features with existing inventory management functionality in the same system reduces the complexity of your operations, simplifies IT support requirements, and improves productivity. It is also an ideal solution for introducing automation to a facility or when replacing older legacy automation systems or control panels.

Graphical Visualizations of Your Facility and its Operational Status

Your operators manage the automation and control of tank farm equipment with custom HMI graphic displays. These views can be built to replicate existing systems, which in turn provides an intuitive step to learning a new automation system. Each screen may include animate status information for instrumentation, pump, valve, flow and alarm status as well as "hot links" to other custom screens or floating graphic windows. For example, custom displays can be built to show a terminal overview, a pump and valve rack, load rack, tank-to-tank movement, or an emergency shut-down panel.

A Step Closer to Complete Systems Integration

FuelsManager supports host communications to DCS or MIS computer systems through OPC, specific device drivers, or MODBUS communications. Once field devices are integrated; data can be input, acquired, validated, displayed, or shared with other systems across your network.

These automation features also empower FuelsManager's optional modules. For example, the Web Server allows users to view a current snapshot of a site's custom HMI graphics over the internet, while the Movement Tracking system is able to automate the collection of data based on pump, value, or meter status.

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Data Connection & Automation Tools

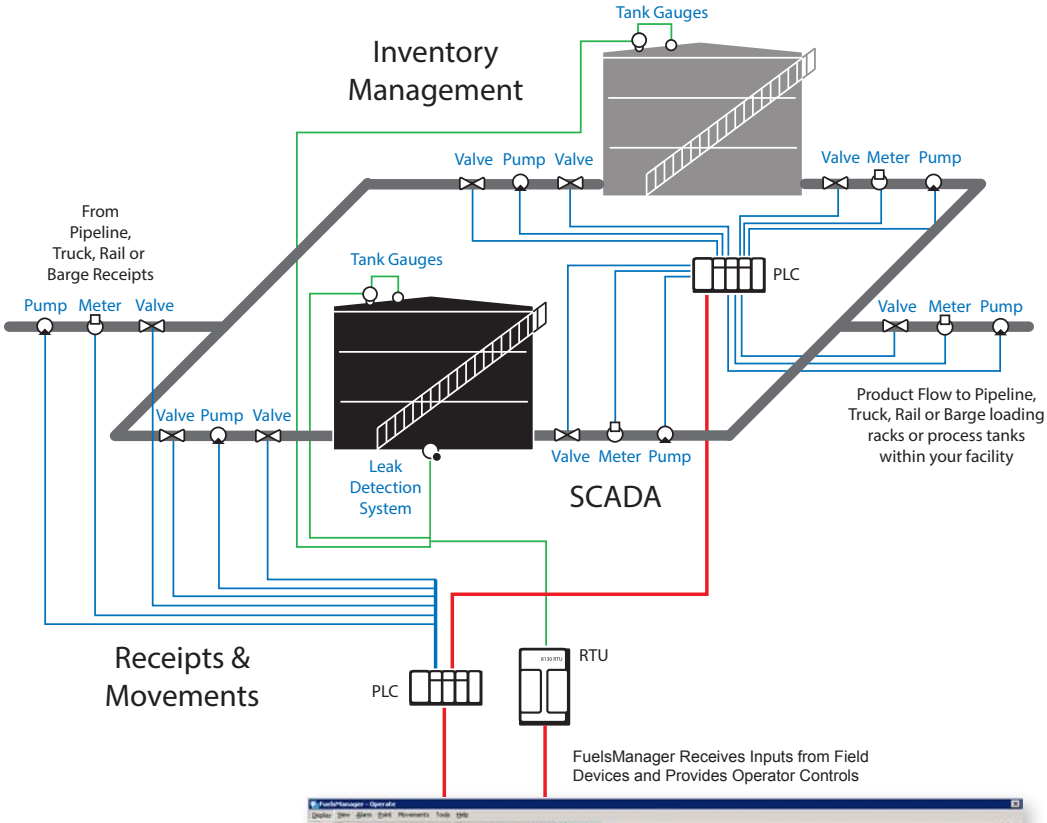
FuelsManager's data point architecture as well as simple logic translation tables, formulas, and an advanced scripting and complex logic Application Programming Interface (API) enables field device data to be input, acquired, validated, and then displayed.

Input, Output & Trigger Points

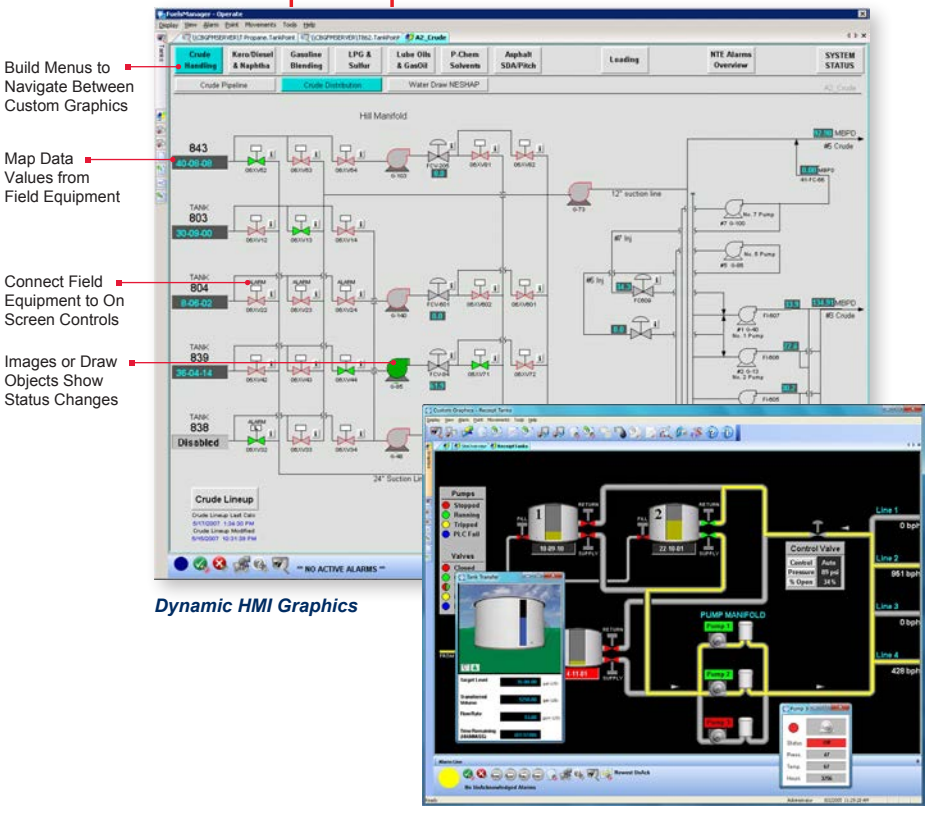
Input and output points are mapped to generic instrumentation and controls, database calculations, or manual inputs. Typically, these points are used to hold data for equipment that is not tank specific (i.e., pumps, valves, or motors).

Output points are used to transmit data from the database to field equipment. Typically, outputs are derived from an operator issuing commands; however, they can also be derived from an internal calculation process.

Triggered points are typically used to monitor database input from an instrument or gauge. Once the connected point changes, a trigger is sent to another point, such as an output point for an OPC server or a PLC.



FuelsManager Receives Inputs from Field Devices and Provides Operator Controls



Dynamic HMI Graphics

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