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Enabler Demonstration POS

Reference Guide

Revision 2.2
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International forecourt integration tool for Oil Companies
and Retail Automation Vendors

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Notes

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1 Introduction

The Demonstration POS application was developed to illustrate the use of the various Enabler forecourt control API and how these are implemented in integration with a POS application.

The application has been designed to illustrate both this integration process and also to demonstrate the practical application of forecourt control in a POS application. The Demonstration POS application uses the Enabler ActiveX controls available to developers and places the forecourt “controls” (the graphic Icon squares) on its POS screen for direct pump control.

As well as the ActiveX Demonstration POS, Enabler V4 includes the following Demo applications:

- PumpDemoWPF.exe – a C# application using the .NET API with our WPF sample controls.
- PumpDemo.Jar – a Java application using the Java API.

These are included when you choose the SDK option in the Enabler installer.

With the flexibility they offer, there are many ways to use the Enabler APIs. This example demonstrates the use of the ActiveX Pump controls with the visible property set to true. Most of the example code will remain the same even if you want to draw your own pump status icons.

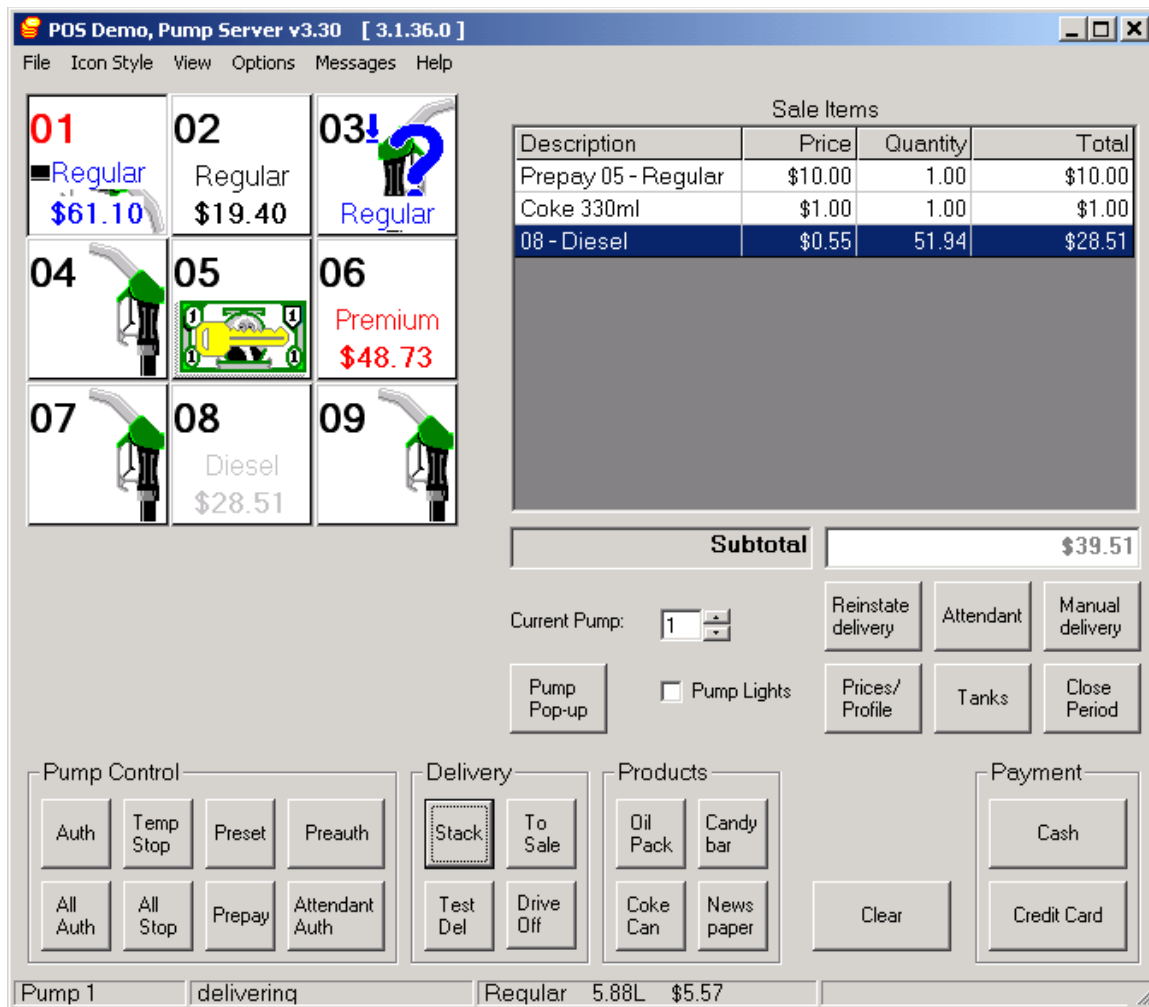
The Demonstration POS application includes most forecourt control functions found on modern service stations. When used with the ITL MPP Simulator software, it also provides an operational forecourt control demonstration capability on a standard Windows PC.

The application is largely independent of the input technology and is designed to be used with both touch screen and keyboard. This manual assumes that a keyboard and pointing device of some sort is used.

The POS application is a Win32 application that depends on access to the Enabler Pump Server (service) which requires Windows XP/Vista/7. If the Enabler service is not running the individual pump controls will be disabled and no interaction with the forecourt will be possible.

2 Screen layout

Once started it displays the current state of each pump configured in the Enabler database. The system has full control of the forecourt after establishing communication with the pumps.



POS Demo, Pump Server v3.30 [3.1.36.0]

File Icon Style View Options Messages Help

Sale Items			
Description	Price	Quantity	Total
Prepay 05 - Regular	\$10.00	1.00	\$10.00
Coke 330ml	\$1.00	1.00	\$1.00
08 - Diesel	\$0.55	51.94	\$28.51

Subtotal \$39.51

Current Pump: 1

☐ Pump Lights

Pump Control: Auth, Temp Stop, Preset, Preauth, All Auth, All Stop, Prepay, Attendant Auth

Delivery: Stack, To Sale, Test Del, Drive Off

Products: Oil Pack, Candy bar, Coke Can, News paper

Payment: Cash, Credit Card

Clear

Pump 1 delivering Regular 5.88L \$5.57

Resizing of the main window will be required to display all pump icons when setting up more than 12 pumps.

The state of the pump display changes automatically with the changes on each pump. The following examples from the Demo POS display indicates the following:



Pump 1 is reserved for a Prepay sale and the pump is locked for that customer to use. The Dollar bill symbol indicates a Prepay sales and the Key symbol indicates the pump is reserved.



Pump 2 is delivering and has running totals turned on showing the delivery progress. The 'sunken or pushed' button effect means the pump is selected, so pump control actions will affect this pump.



Pump 3 is idle and ready to use.



Pump 4 has completed delivery and the amount and grade are displayed waiting for the operator to take into a sale.

Note: For a touch screen interface, touching a 'control' (the 80 pixel by 80 pixel pump indicator), will select that pump to make it the current pump action what is the next logical event on that pump.

For example:

If it is "calling", then touching (or clicking on) the control will authorise that pump to start delivering fuel.

If it has a completed delivery, touching (or clicking on) the control can trigger adding the deliver to a sale for processing.

3 Menu Options

The Demonstration POS application includes a number of other functions to simulate the operation of a regular POS terminal such as Wet stock control functions and dry stock sale simulation.

There have been improvements from previous versions such as reorganization of several functions into application menus for better and simplified screen layout.

3.1 Icon Style Menu

This menu allows you to change the size of the pump icon using the built-in IconStyle property selectable from the following sizes (these sizes include the 2 pixel border):

- Large Icons 84 x 84 pixels
- Small Icons 74 x 49 pixels – useful if you need to conserve screen area
- Landscape 116 x 62 pixels

Selecting these different options will cause the icons to be re-arranged on the form depending on their size. These icons can be moved around as other windows controls..

As well as the size you can also select the following variations to the icon display:

- Flat border style (instead of the default 3D look)
- Display of Delivery Volume instead of Money.
- Display of background colors to indicate pump status as well as the icons (useful when using the small icon size).
- Display of both Money and Volume (only available for the large icon).

3.2 Options Menu

This menu includes a number of items that controls the behaviour of the Pump Icon and the popup window in response to user interaction.

3.2.1 Popup Enabled

This menu item determines whether the popup window should be displayed when a user interacts with the Pump Icon.

3.2.2 Modal Popup

This menu item determines the behaviour of the popup window – whether the form should be modal or non-modal.

3.2.3 Touch Screen

This menu item when checked widens the popup box of delivery entry to make it easier to click on and also allows selection of a delivery by a single click.

3.2.4 Quick Select

When this menu item is checked, a single click on the pump icon will move the current delivery into the current sale. Otherwise when it is unchecked, clicking current delivery will show a popup window.

3.2.5 Quick Auth

When this menu item is checked a single click on the pump icon will authorise a calling pump. Otherwise the popup window will be displayed when unchecked

3.2.6 User Input Enabled

This menu item enables/disables user interaction with the pump icons. Pump icons will ignore all user input including requests to display the popup box when unchecked (disabled).

3.2.7 Pump Lights

The **Pump Lights** tick box will turn the lights for all pumps on the forecourt (if functionality is available for pump type and communications protocol).

3.2.8 Clear Completed Preauths

When menu item is checked, a completed preauth transaction will be cleared automatically. If not checked, the user needs to click a button to close the preauth dialog.

3.3 Messages Menu

This includes options to display pop-up messages for:

- Server Errors – error messages posted by the Enabler Server to connected applications
- Server Messages

3.4 Help Menu

The **About** menu item displays the version number of Demonstration POS.



4 Pump Control Buttons

Auth

The **Auth** button authorises a pump that is calling for authorisation. Depending on the option menu settings, pressing or clicking on the pump icon has the same effect

Temp
Stop

The **Temp Stop** button stops a single pump (the current pump not stopped). Once the pump is stopped, the Auth button restarts the pump if current pump is stopped.

All
Auth


The **All Auth** button will authorise any pumps currently calling or will restart any pumps that have been Temp Stopped or All Stopped.

All
Stop

The **All Stop** key will stop delivery on all pumps. Pumps can be either restarted individually or all together by using the **All Auth** button.

Preset

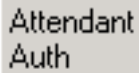
The **Preset** button sets a value limit before a post pay delivery is started by displaying a dialog box to select the grade and amount limit to be allowed. The selected **Preset** is limited to current delivery.

Preauth

The **Preauth** button initiates a pre-authorised sale by reserving the pump in a dialog box (pops up after pressing **Preauth**) and authorised with selected amount and grade. The delivery details are retrieved when delivery is completed

Prepay

The **Prepay** button initiates a Prepay sale by presenting a dialog box is displayed where to select the desired grade and amount limit.

Attendant
Auth

The **Attendant Auth** button is similar to the **Auth** button except for asking association of authorisation with an attendant number which is recorded with release information. Thus all delivery authorisation associated with an attendant number is recorded.

5 Delivery Buttons

Stack

The **Stack** button manually places the Current Delivery into the memory stack. The automatic alternative for stacking current delivery is setting the Auto Stacking in Enabler Site Mode setup.

To
Sale

The **To Sale** button will put the Current Delivery into the sale list.

Test
Del

The **Test Delivery** button will clear the selected delivery as a Test which uses the Enabler API to mark this delivery as a pump test operations and separate them of deliveries for customers.

Drive
Off

The **Drive Off** button clears an unpaid delivery (customer drives off without paying) This delivery will show in a separate category on Wetstock report.

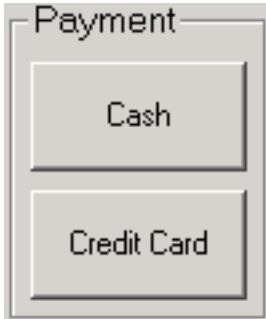
6 Product Buttons



These buttons are simulated a list of dry stock items in the sale list. Buttons are linked to products which will insert the description and value of the product into the main POS display item list. These product items can be used to combine with Fuel sales items from live pumps or the MPP Simulator software.

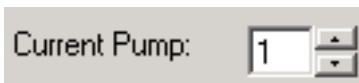


7 Payment Buttons

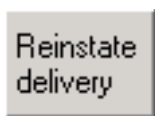


These sample payment buttons simulate transaction payment by Cash or Credit Card.

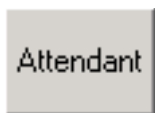
8 Other Buttons




The Current Pump spin control displays the current pump and allows tp select pumps by typing in the textbox or pressing the up/down arrow button. . Pumps can be also selected by clicking the pump control..



To reinstate a cleared delivery enter the delivery ID for the required delivery (reinstating delivery will also remove clearing delivery event)



The **Attendant** button logs an attendant to a pump to automatically authorise the pump record the attendant details to deliveries. The Attendant button displays a dialog box to do a pump logon or logoff.

Manual
delivery

The **Manual delivery** button creates a manual delivery for a mechanical pump. The delivery volume, value and price are entered at the popup box and the delivery will be created on the selected pump. The Manual **delivery** is available only for mechanical pump types.

Prices/
Profile

The **Prices/Profile** button will display a dialog box to edit grade pricing and current mode edited.

Tanks

The **Tanks** button shows details of selected tank (useful when connecting a Tank Gauge to the system).

Close
Period

The **Close Period** button closes a selected period type in the Enabler database.

Clear

The **Clear** button clears the sale window either before or after a sale has been finalised. Selected delivery items will be released back to the pump icon when sales windows cleared before finalized.