

Lab Exercise – Insert Pre-built ActiveX Control

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This module supports **TotalPlant** Solution (TPS) system network.

TPS is the evolution of TDC 3000^X.

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Lab Exercise

Introduction

The following concept lab shows you how to insert an ActiveX control into a GUS display.

Objectives

At the end of this lab exercise, you will be able to do the following:

- Insert an ActiveX control into a GUS Display.
- Modify the pre-built control properties to represent a process variable.
- Add script to collect process network data using the value property of the ActiveX control.

Design Criteria

Your example control can be modified to your liking. Experiment with the various properties of the control. As you will see in this lab, a control can be fairly intuitive to use with little or no documentation required to configure it.

Lab Prerequisites

Lab prerequisites are the following:

- GUS Display Builder R120 or later.
- One off process LCN control point.
- A registered ActiveX control

Lab Procedure

Step	Action
1.	From Windows Explorer, locate the regsvr32.exe file. Example path: Program Files/Honeywell/TPS/Base
2.	Drag and drop your ActiveX control onto the regsvr32.exe file. Result: You have registered an ActiveX control that will appear in the Display Builder's Insert>Control menu.
3.	From the Display Builder, open a new display.
4.	Select Insert>Control. Result: The Insert Control dialog appears.
5.	Your course manager will indicate which OCX to use. Select the control, then OK. Result: The cursor changes to a cross.
6.	Right click on a position in your display. Result: The control appears in the display. Note: Depending upon the release you are using, the control may not too appear legible at this time.
7.	Carefully resize the control by pressing the Shift key and dragging the corner handle of your control. Result: The control appears resized in the display. Note: Depending upon the release you are using, the control may still not appear legible at this time.
8.	If your control appears somewhat garbled, you can save, close, the re-open your GUS display. Result: The control appears re-sized in the display. Repeat Step 7 if still more re-sizing is necessary.
9.	Double click on the control to open its Property pages. Result: The property dialog appears for the control.
10.	Experiment with the ActiveX control's various properties to build an interface to your liking.
11.	Right click on the control to open a scripting window so that you can add script that will access a process network variable. Result: The script editor window opens.
12.	Select View>Properties so that you can scroll and see the available properties that you can access from script. Result: The Properties dialog appears.

Step	Action
13.	Add script to your ActiveX control that can access a process network variable. Most of the time, you use the Value property of the control. Example script: Sub OnDataChange() oleobject1.value=lc.n.tic21765.pv End Sub
14.	Save your display.
15.	Validate your display
16.	Run your display
17.	When satisfied that your display works correctly and after making any necessary save your changes, save your ActiveX display.

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