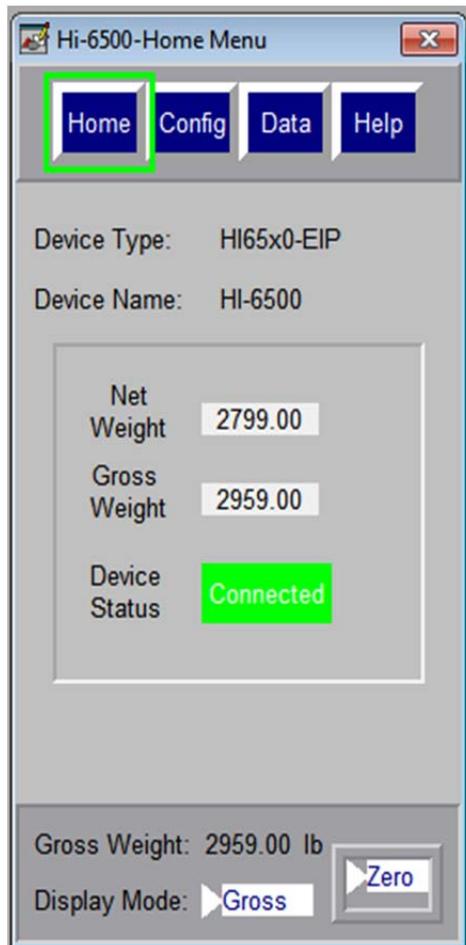


Guidelines for Installing HI 6500 Faceplates



ATTENTION: Faceplates provided by Hardy Process Solutions are open source, unlocked, HMI templates that may be downloaded from the Hardy website for free. All open source software, code and scripts are provided as-is and Hardy does not warranty or provide any technical support for open source software, code or scripts. As such, Hardy assumes no liability for potential harm or damage, software or hardware, which may result from the use of open source software, code or scripts. Furthermore, Hardy assumes no responsibility for their content or operation in any particular environment. Software, code and scripts are provided as examples only and will likely need to be modified for your particular use.

For further technical support installing, using, or modifying Faceplates; contact your nearest Rockwell Automation Technical Support Center.

SE Edition Instructions: Page 2

ME Edition Instructions: Page 9

SE Edition of the Faceplate

Importing Add On Instructions (AOI) into RSLogix® 5000

- Set up a new project in RSLogix
- Import the HI6500_Faceplate_AOI_v1_2. See Figure 1

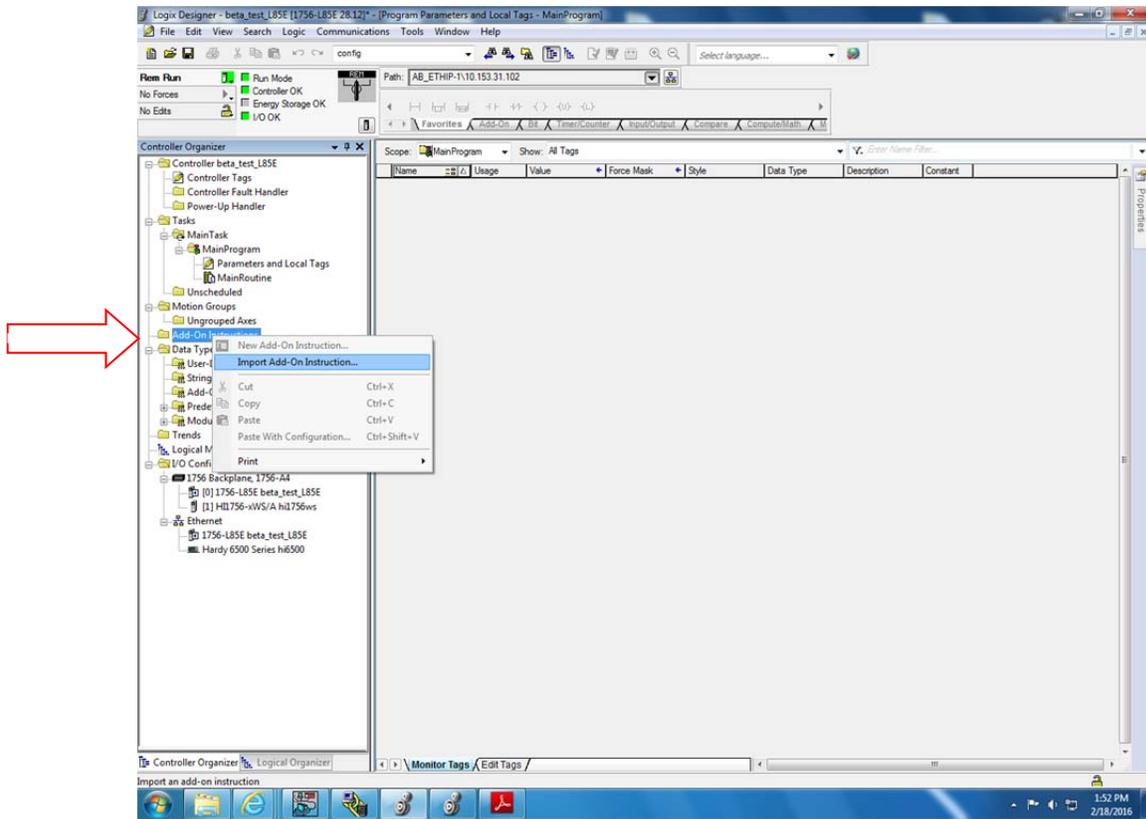


Figure 1

- Add the HI 6500 instrument to the I/O configuration structure. See Figure 2, note 1. Each instrument added should have a unique name.
- Add the AOI onto the main routine. See Figure 2, note 2.
 - Give the HI6500_Faceplate_AOI a name and create the tag. This will be a "HI6500_Faceplate_AOI" data type. Any name with alpha-numeric characters is valid. See Figure 2, note 3.
 - Inp_hi6500: Associate this label with the Input table for the HI 6500 instrument. Click and drop down the list to find the input tables for each device. Choose the one for the HI 6500 unit by its name in the controller tags. See Figure 2, note 3.
 - Out_hi6500: Associate this label with the Output table for the HI 6500 instrument. Click and drop down the list to find the output tables for each device. Choose the one for the HI 6500 unit by its name in the controller tags. See Figure 2, note 3.

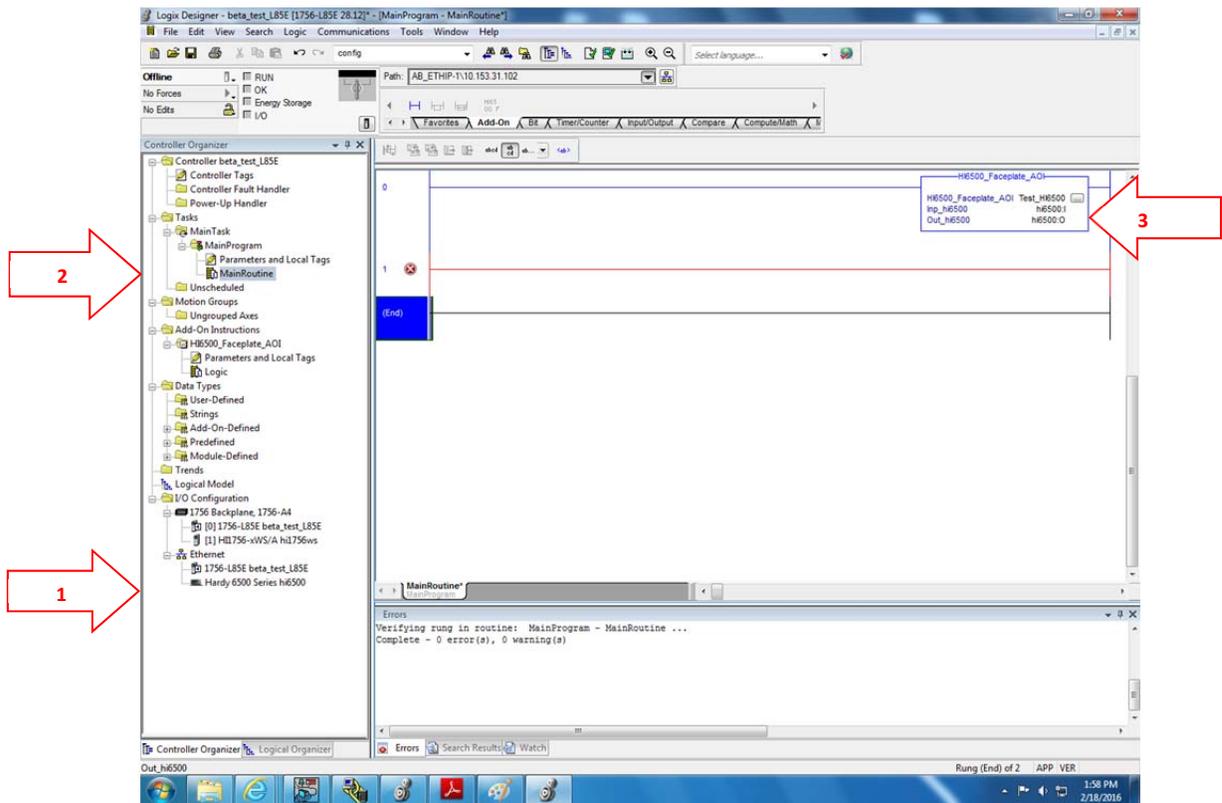


Figure 2

- Add additional AOI instructions into the main routine for each of the HI 6500 units.
 - Give each AIO instruction its own unique name and create the tag.
 - Associate the Inp_hi6500 and Out_hi6500 to the I/O tables for each device.
- After completing the steps above, download it to the PLC and make check for faults.

Importing Hardy Faceplates into FactoryTalk™ View SE

- Open FactoryTalk Studio
- Under application type select View Site Edition
- Create a new application: give it a name and hit create
- Add communication in FactoryTalk to create a link between FactoryTalk and RSLogix5000
 - Right click on the project name in the explorer navigation bar, found under Local (computer name). See Figure 3, note 1.

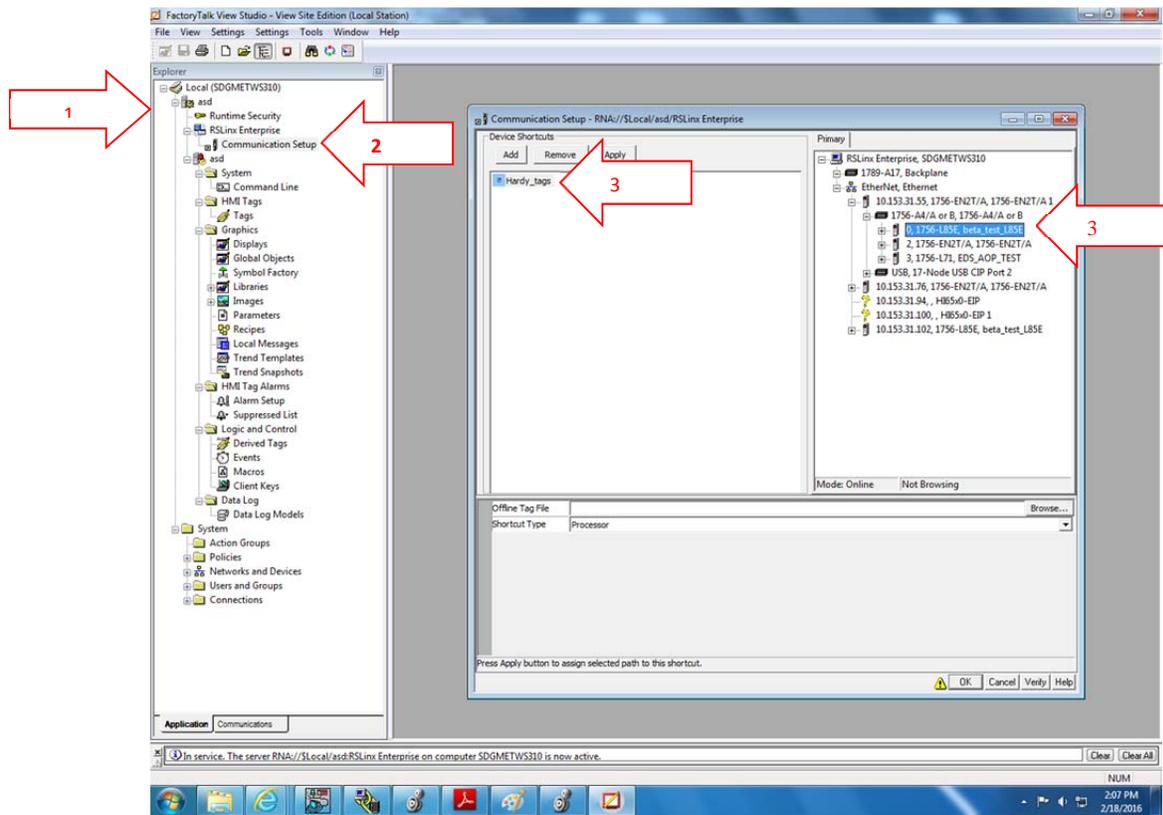


Figure 3

- First, add New Server and then add a Rockwell Automation Device Server (RSLinx Enterprise). The name can be left as it is the only server in the project. RSLinx Enterprise will appear in the explorer project tree; expand and double-click on “communication setup”. See Figure 3, note 2.
- Under device shortcuts, add a new shortcut: Name this shortcut to associate it with the Hardy 6500 instrument
- In the PRIMARY window expand the driver being used to connect with the PLC processor and highlight the processor. With both the processor and the shortcut tag names now highlighted; click ok then yes to apply changes. See Figure 3, note 3.
- When complete, this process will link the tags from the AOI in RSlogix to the tags in FactoryTalk.
- Import the Faceplate file into FactoryTalk as a Global Object
 - Right click on Global Objects and click on ‘Add Component into Application’, look for the faceplate files (Hardy_HI6500_SE.ggfx and Default Selection.ggfx) to add them under global objects. See Figure 4.
If multiple HI 6500 instruments are used, make copies of the Hardy_HI6500_SE.ggfx files and assign different names for each instrument.
 - Global objects can be modified allowing customization of the Faceplate to meet specific user requirements; for example if only a weight reading is required, a user can grab the object and move it to another custom display that has already been created.
 - Save changes of any modifications before exiting the program.

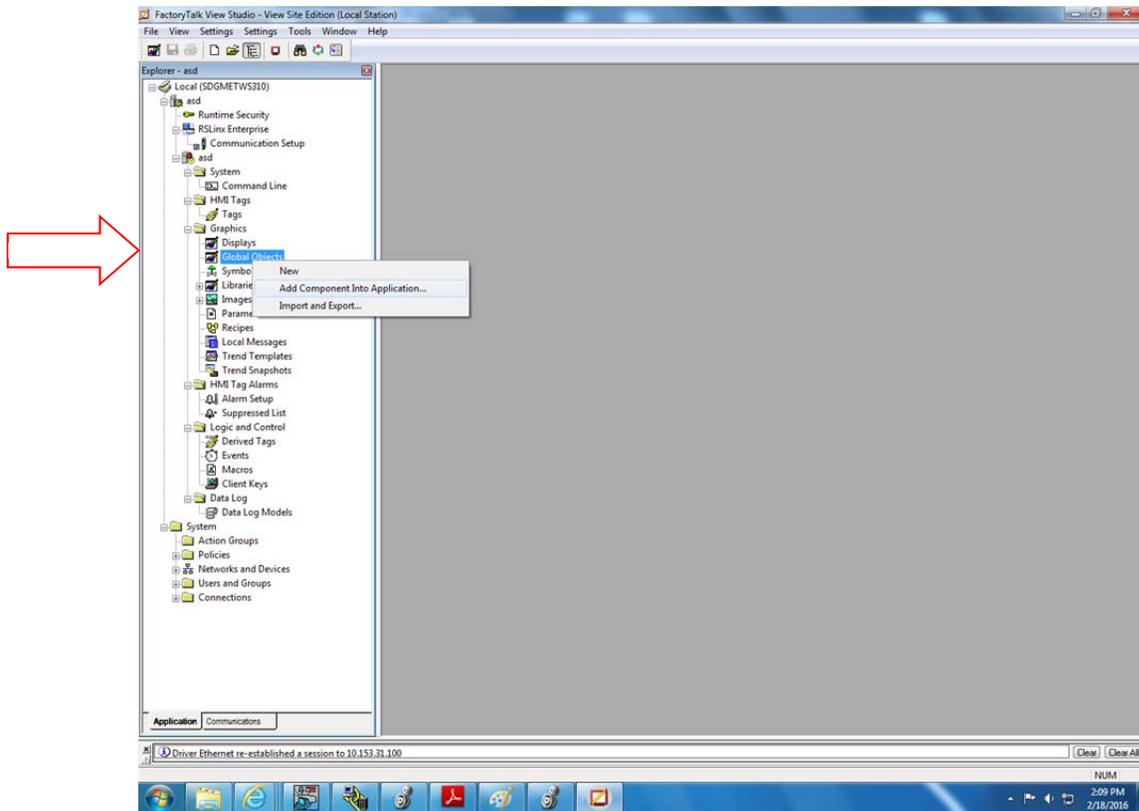


Figure 4

- To add faceplates to a display, right click on Displays, and then click on 'Add Component into Application'.

If no changes were made to the Global Object files, add the same two files into the Display section. If changes were made to Global Object files, save before adding to the Display section. Changed files to add to the Display section should be found in the directory where saved (typically c:/users/public/Public Documents/RSView Enterprise/SE/HMI Projects/<project name>/Global Objects).

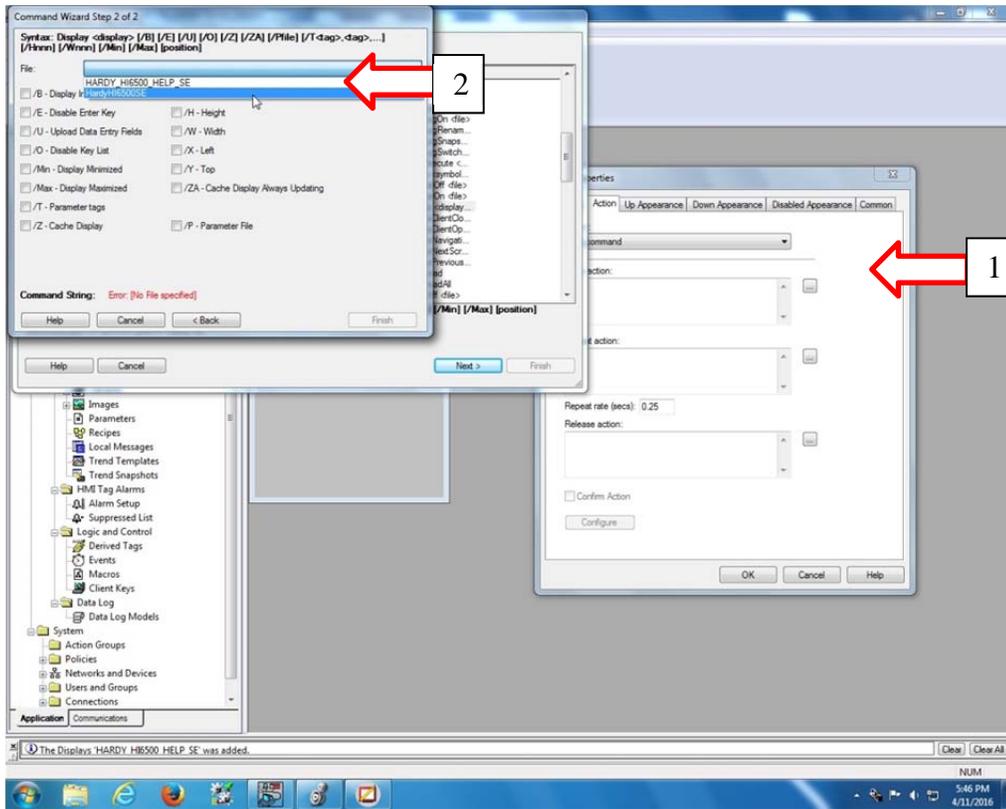
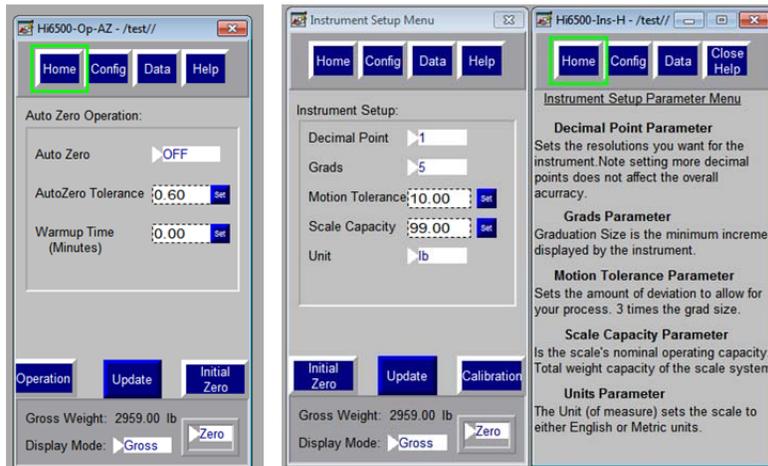
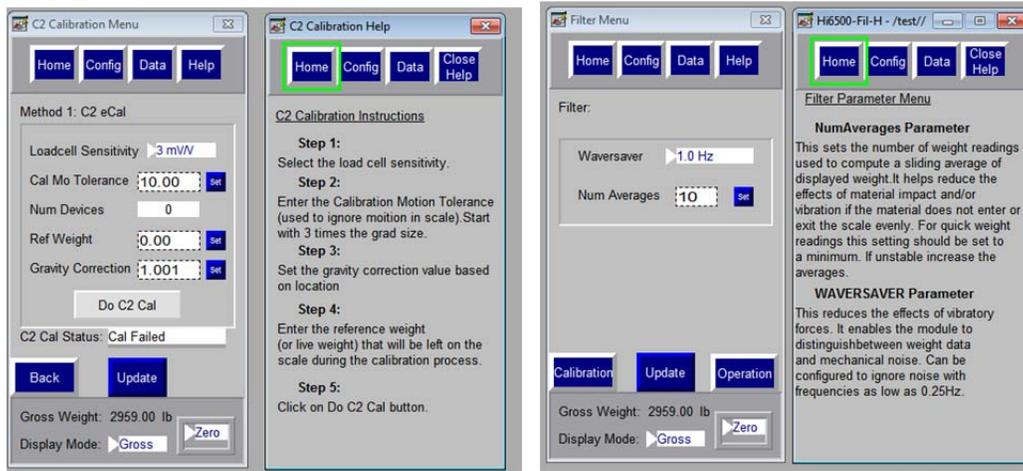


Figure 5

- If using the Default Selection display file, changes should be made to the button properties to ensure they point to the proper units. (Figure 5)
 - Open the Default Selection display file under the Global Objects.
 - Right click on the button to set up, click on properties. Under the “Action” tab, under the text box “press action”, delete the contents.
 - Click on the ... to the right of the “press action” box. (arrow 1)
 - Go to the All Commands and Macros, scroll down to “Display”. Double click on Display. Select the file name of your HI 6500 faceplate. (arrow 2)
 - Check the /T Parameters tags check box, Click on the ... to the right. (figure below) (arrow 1).



Figures 7-16

ME Edition of the Faceplate

Importing Add On Instructions (AOI) into RSLogix 5000

- Set up a new project in RSLogix
- Import the HI6500_Faceplate_AOI_v1_2. See Figure 17.

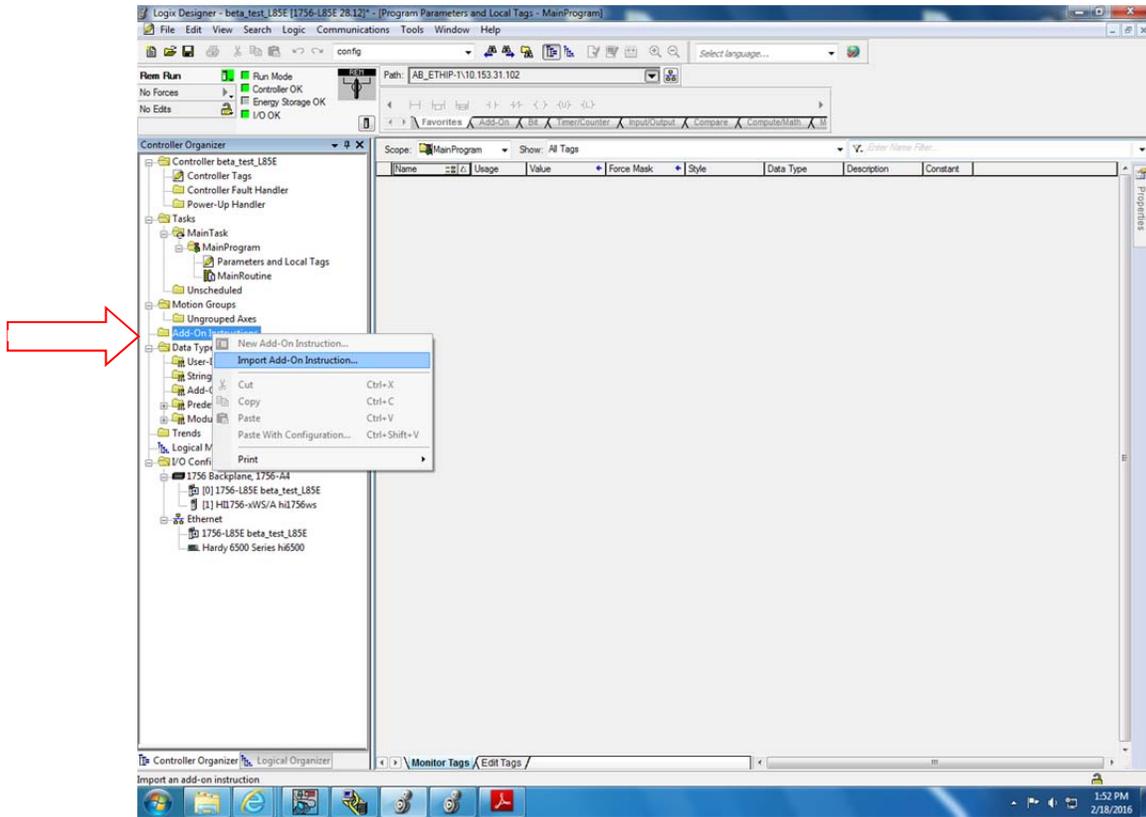


Figure 17

- Add the HI 6500 instrument to the I/O configuration structure. See Figure 18, note 1. Each instrument added should have a unique name.

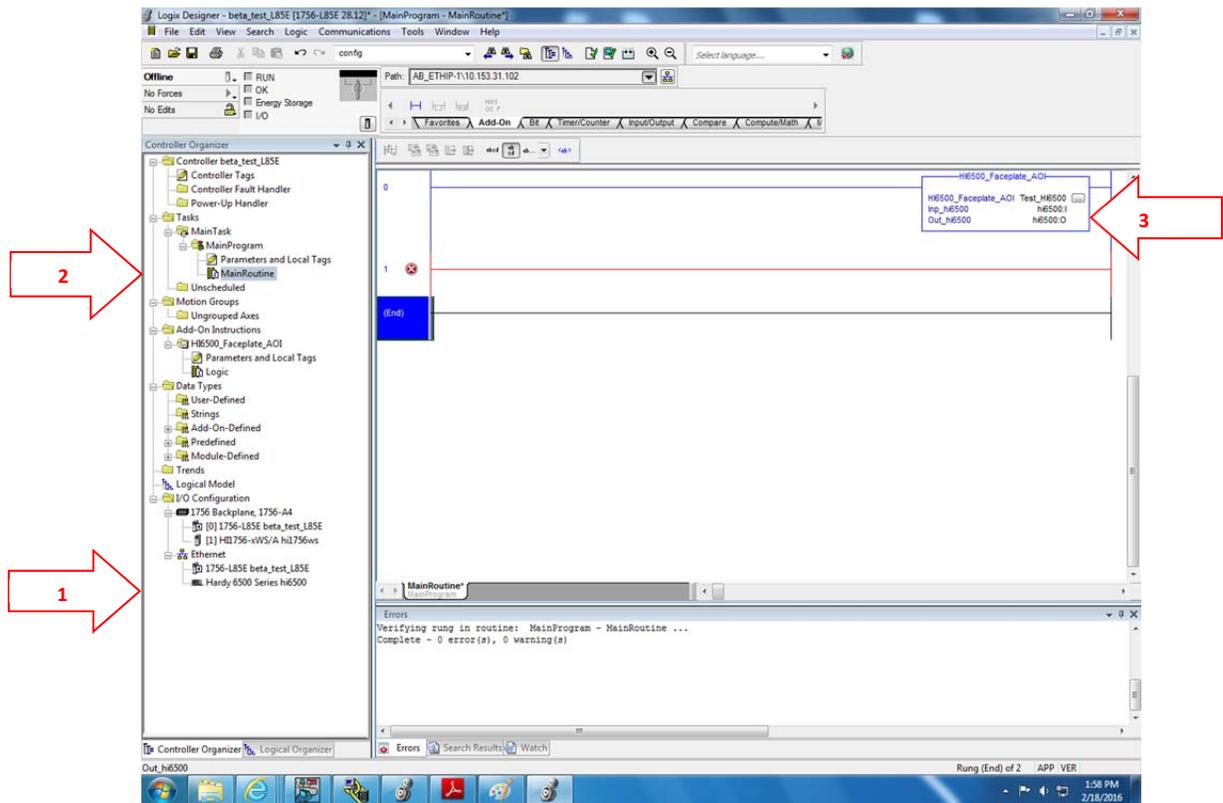


Figure 18

- Add the AOI onto the main routine See Figure 18, note 2.
 - Give the HI6500_Faceplate_AOI a name and create the tag. This will be a “HI6500_Faceplate_AOI” data type. Any name with alpha-numeric characters is valid.
 - Inp_hi6500: Associate this label with the Input table for the HI 6500 instrument. Click and drop down the list to find the input tables for each device. Choose the one for the HI 6500 unit by its name in the controller tags. See Figure 18, note 3.
 - Out_hi6500: Associate this label with the Output table for the HI 6500 instrument. Click and drop down the list to find the output tables for each device. Choose the one for the HI 6500 unit by its name in the controller tags. See Figure 18, note 3.
- Add additional AOI instructions into the main routine for each of the HI 6500 units.
 - Give each AIO instruction its own unique name and create the tag.
 - Associate the Inp_hi6500 and Out_hi6500 to the I/O tables for each device.
- After completing the steps above, download it to the PLC and make check for faults.

Importing Hardy Faceplates into FactoryTalk View ME

- Open FactoryTalk Studio
- Under application type select Machine Edition
- Create a new application: give it a name and hit create
- Add communication in FactoryTalk to create a link between FactoryTalk and RSLogix5000
 - RS Linx Enterprise already appears in the project tree. Expand and double-click on the “communication setup”.

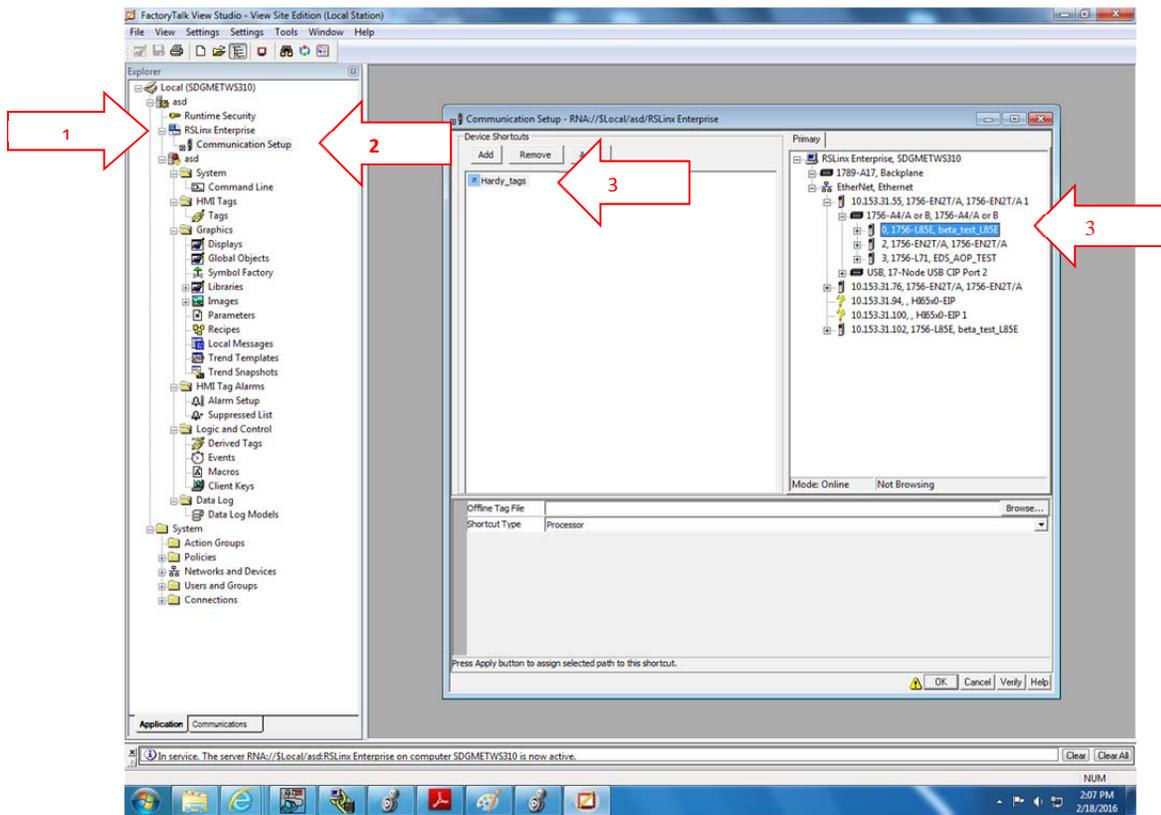


Figure 19

- Under device shortcuts, add a new shortcut: Name this shortcut to associate it with the Hardy instrument
- In the PRIMARY window expand the driver being used to connect with the PLC processor and highlight the processor. With both the processor and the shortcut tag names now highlighted; click ok then yes to apply changes. See Figure 19, note 3.
- When complete, this process will link the tags from the AOI in RSlogix to the tags in FactoryTalk.

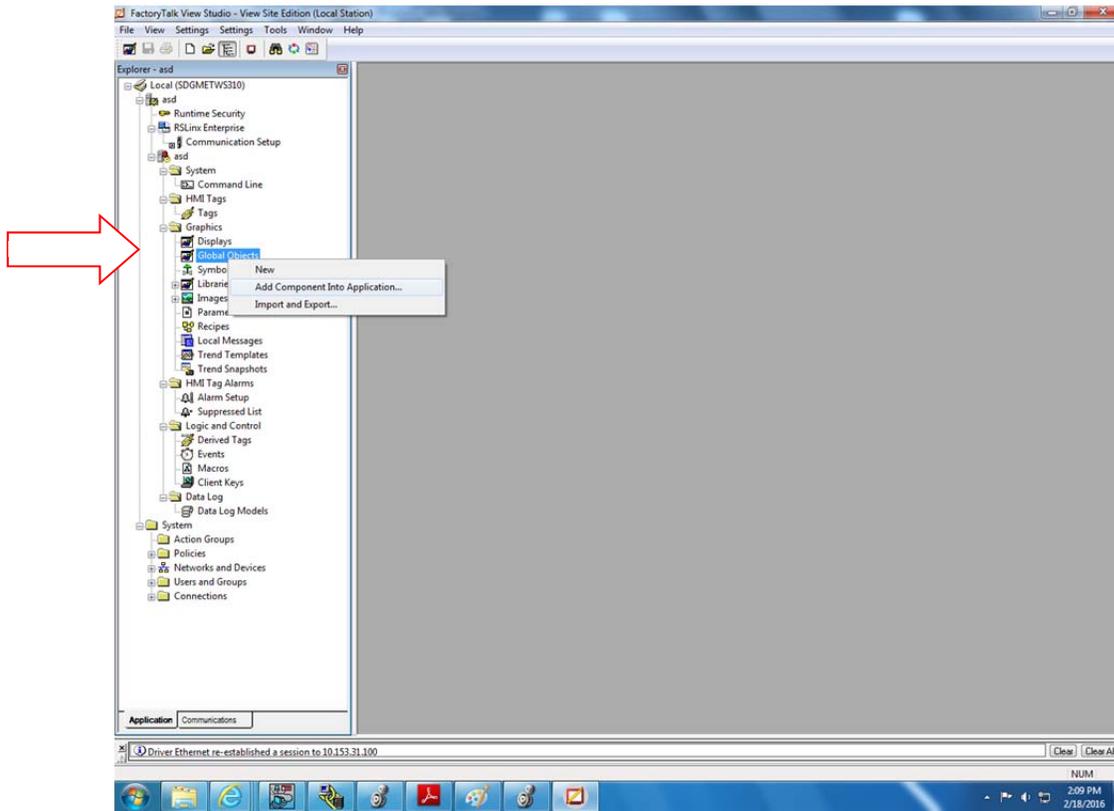


Figure 20

- Import the Faceplate file into FactoryTalk as a Global Object
 - Right click on Global Objects and click on 'Add Component into Application', look for the faceplate file (Hardy_HI6500_ME.ggfx to add under global objects. See Figure 20. If multiple HI 6500 instruments are used, make copies of the Hardy_HI6500_Faceplate_ME file and assign different names for each instrument.
 - Global objects can be modified allowing customization of the Faceplate to meet specific user requirements; for example if only a weight reading is required, a user can grab the object and move it to another custom display that has already been created.
 - Save changes of any modifications before exiting the program.

- To add faceplates to a display, right click on Displays, and then click on 'Add Component into Application'.
 - If no changes were made to the Global Object files, add the same file into the Display section. If changes were made to Global Object files, save before adding to the Display section. Changed files to add to the Display section should be found in the directory where saved (typically c:/users/public/Public Documents/RSView Enterprise/ME/HMI Projects/<project name>/Global Objects.
 - Users will need to add a button to open the faceplate. Under the Display section, double click on MAIN. Add a "GOTO Display button" (arrow 1).

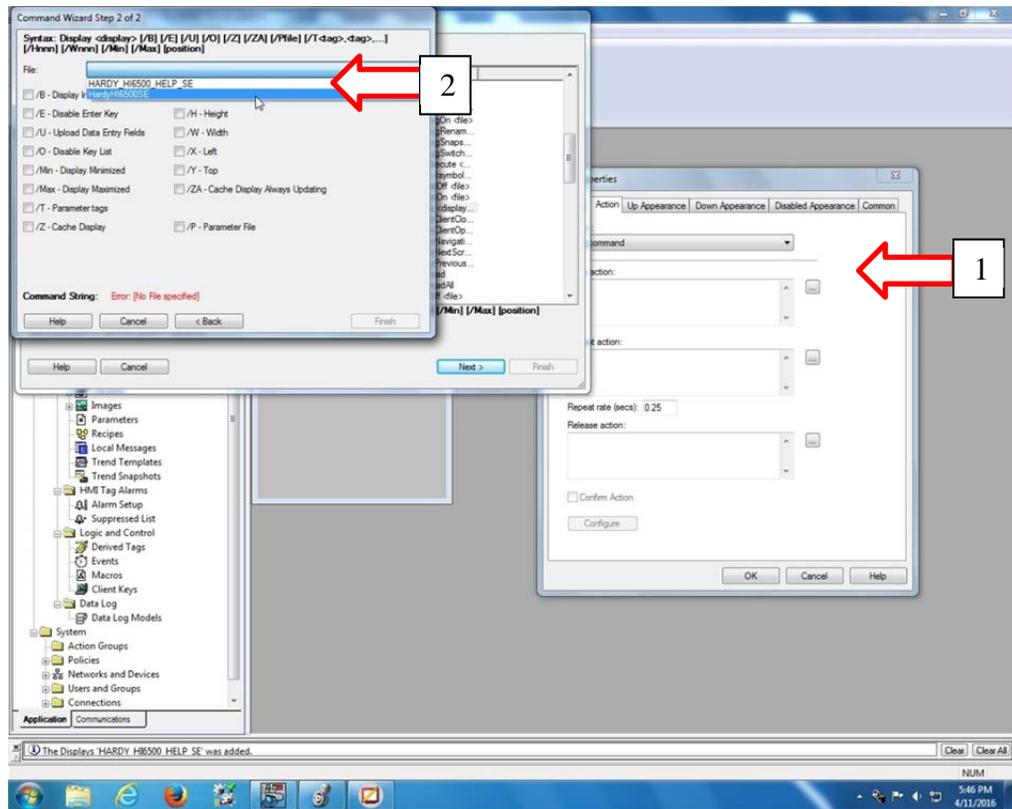


Figure 21

In the properties box for the button, set:

- Display field to the file for the Hardy unit. (arrow 2)
- Parameter list set to the tag created for the AOI in RS Logix (arrow 1 below figure)

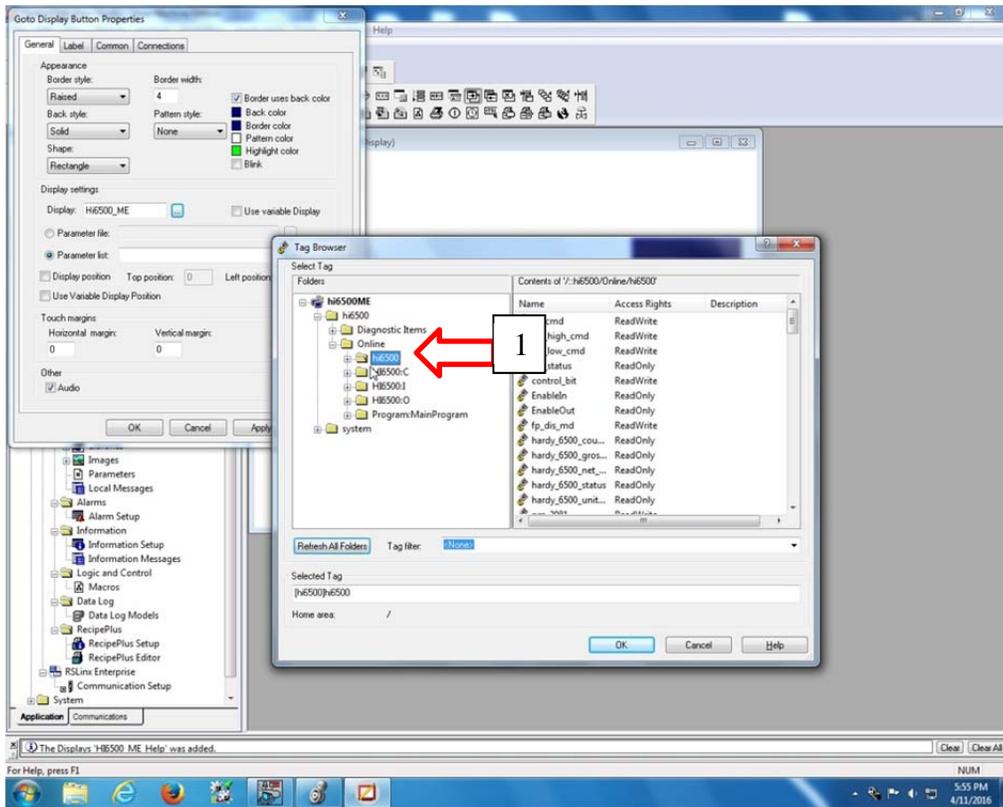
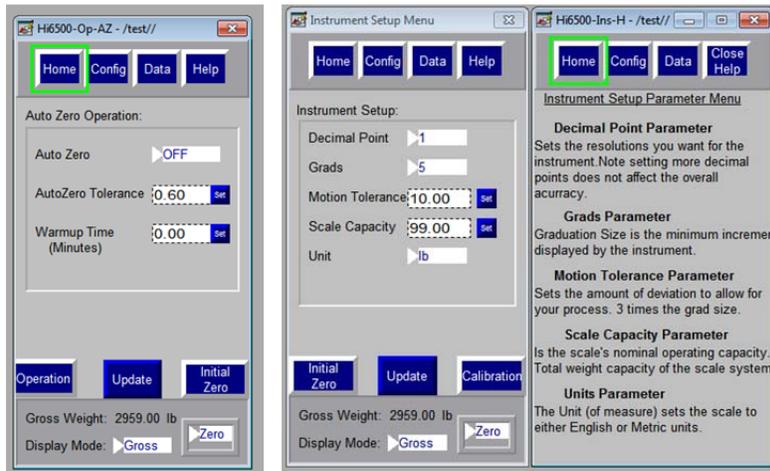
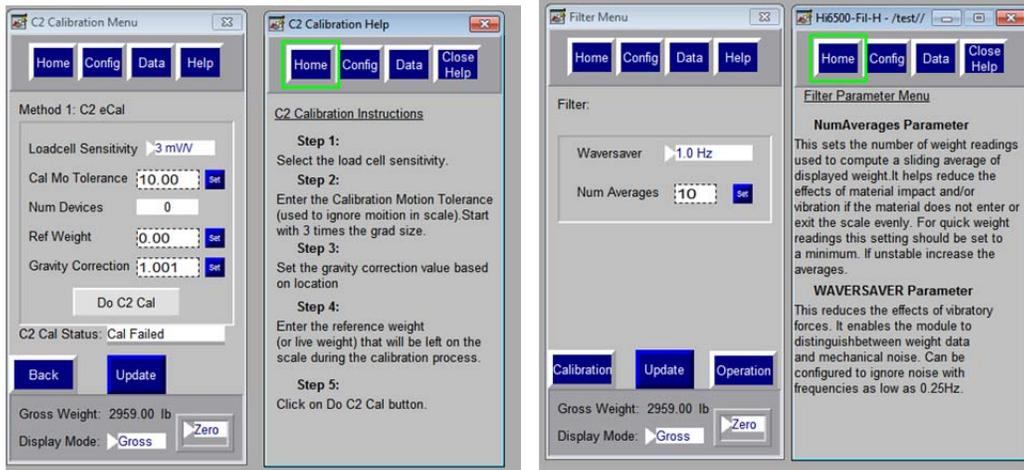


Figure 22

- Navigating the Faceplate
 - Under Display Mode be sure to select Gross or Net. Otherwise an error on the bottom of the Faceplate will appear. See Figures 23-32 below.
 - Navigate the Faceplate using the mouse and key board to enter values.





Figures 23-32