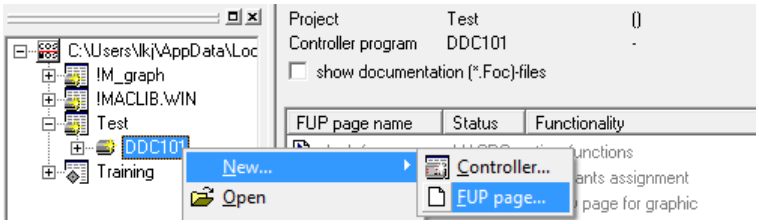
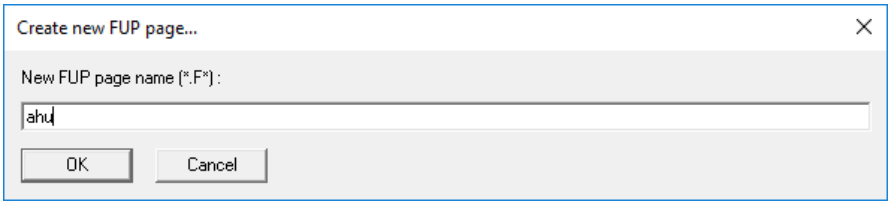
# TT180802 - FUP - Your First FUP Page

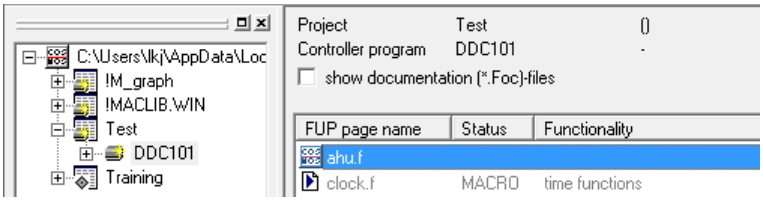
1. To add a new FUP page, click on the controller, right click, click “New”, “FUP page”



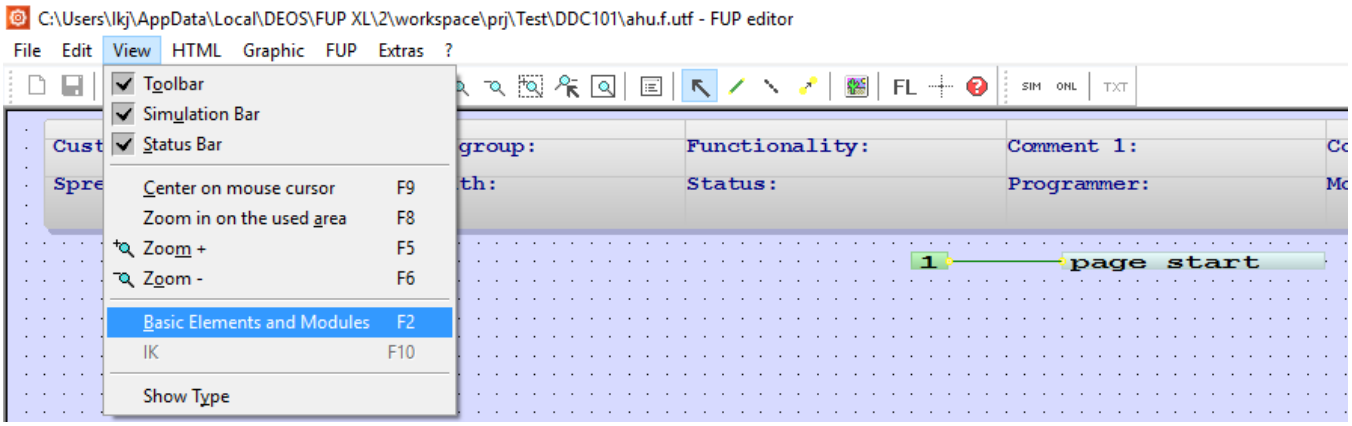

2. Type the FUP page name, e.g. ahu, and click OK



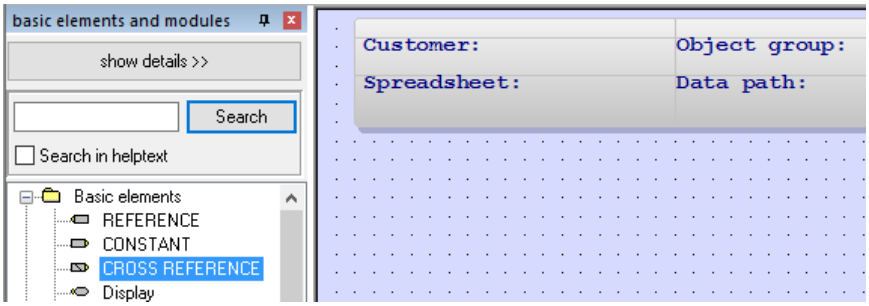

3. Double click on the FUP page to open it



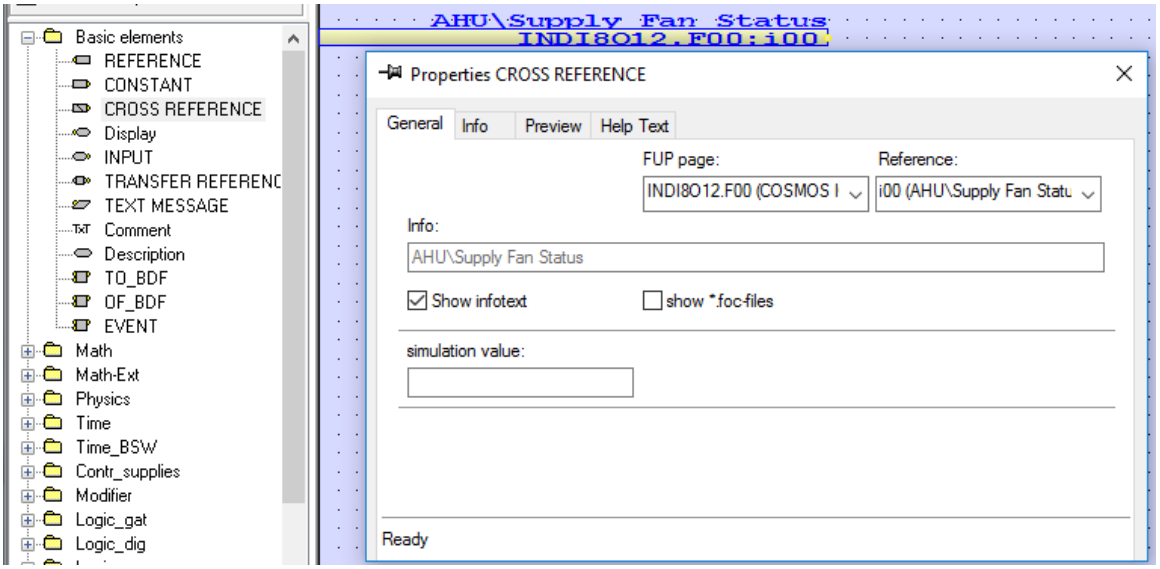

4. Click “View”, “Basic Elements and Modules” to see all the functional modules



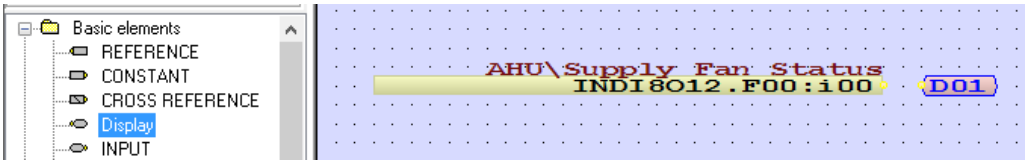

5. Now we want to read the DI points to your FUP page, click the “+” next to “Basic Elements”,



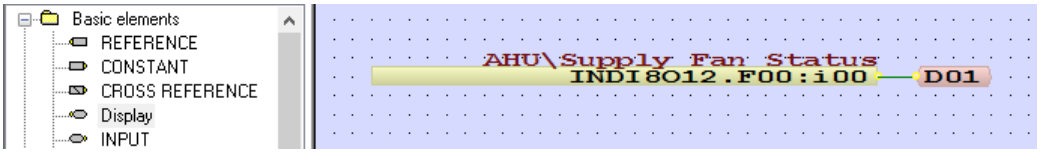

6. Drag and drop the “Cross Reference” to the page. Select “INDI8O12.F00” for the “FUP Page”, and select “i00 (AHU\Supply Fan Status) for the “Reference”. Close the window



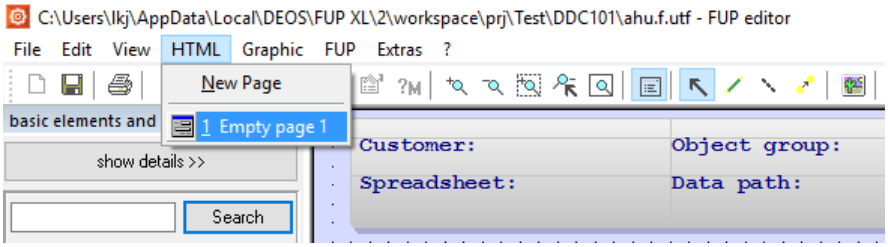

7. Drag and drop the “Display” to the page. This is use to display the value



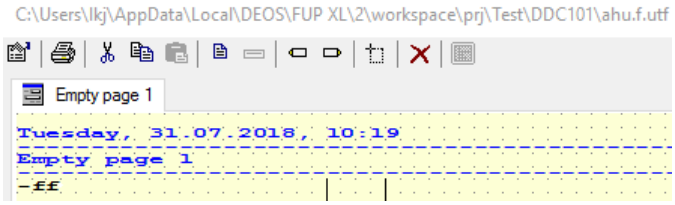

8. Drag and drop a line from the yellow dot of “Cross Reference” to the yellow dot of “Display”



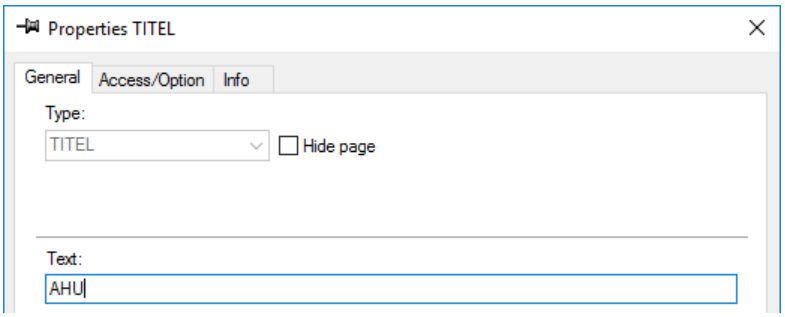

9. To create a HTML text page (Required step), click “HTML”, “Empty page 1”



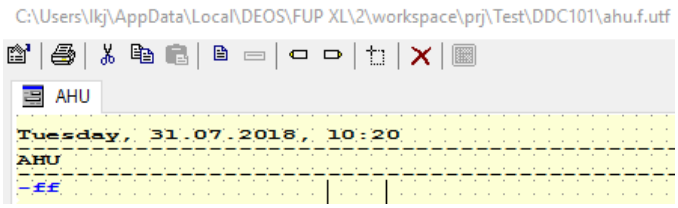

10. Double click on “Empty page 1” to change the name of the HTML page



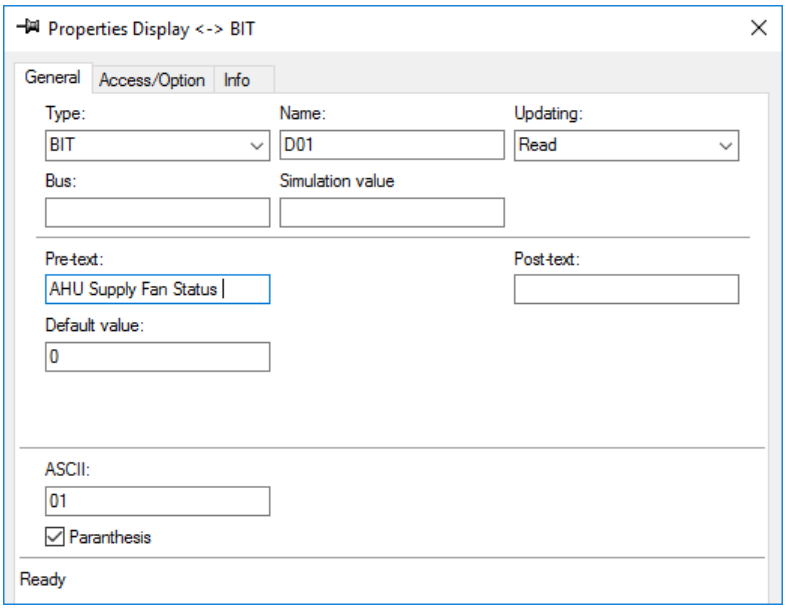

11. Change the “Text” to “AHU”, close the window



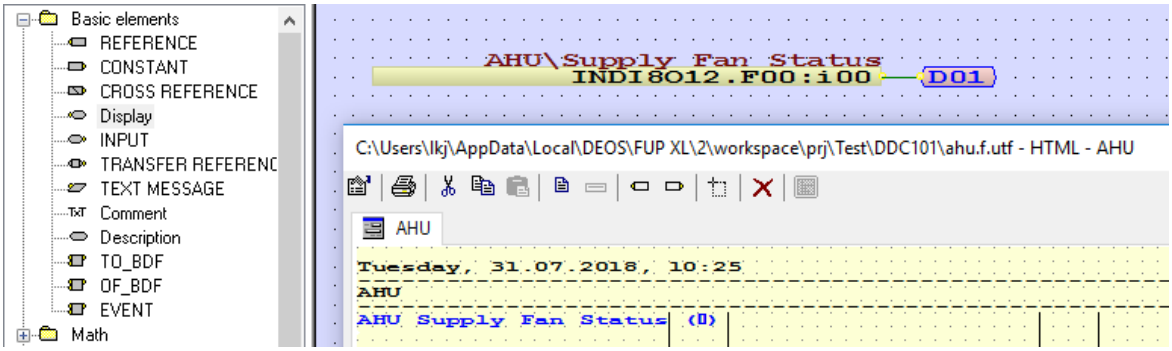
12. Double click on “-ff” to change the properties of the “Display”



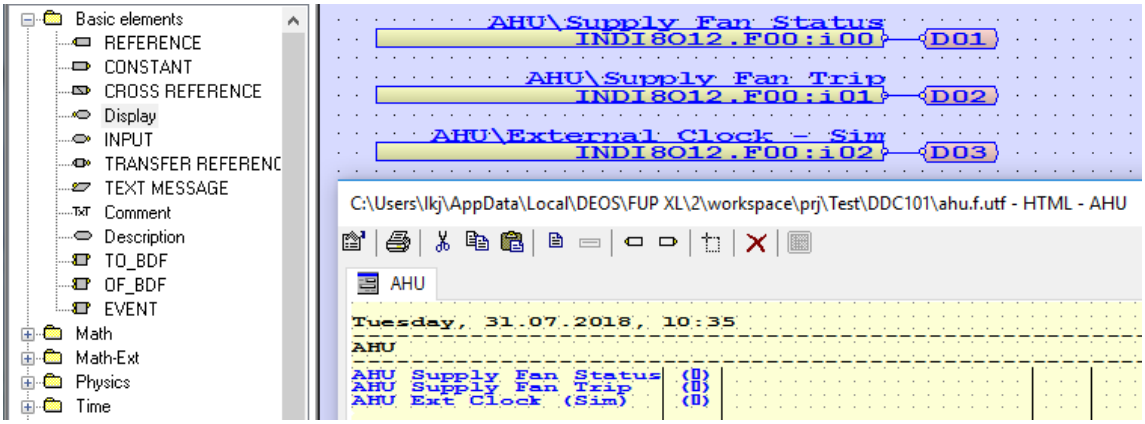

13. Change the “Type” to “BIT”, type in “AHU Supply Fan Status “ in the “Pre-text” field



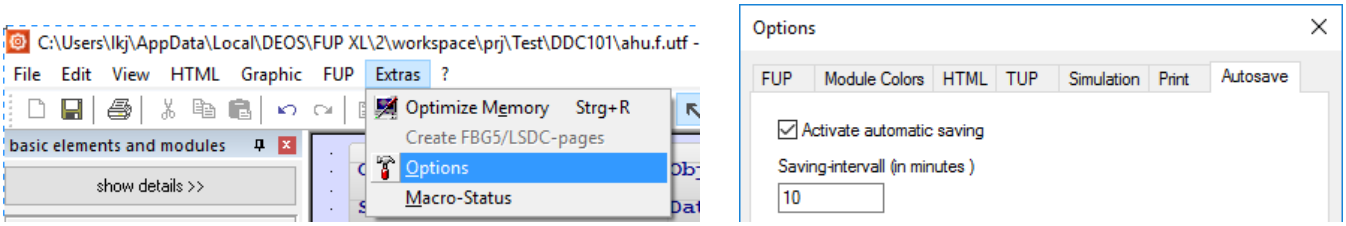

14. Now we’ve built a FUP page to read the value from the DI point, and display the value on the HTML text page



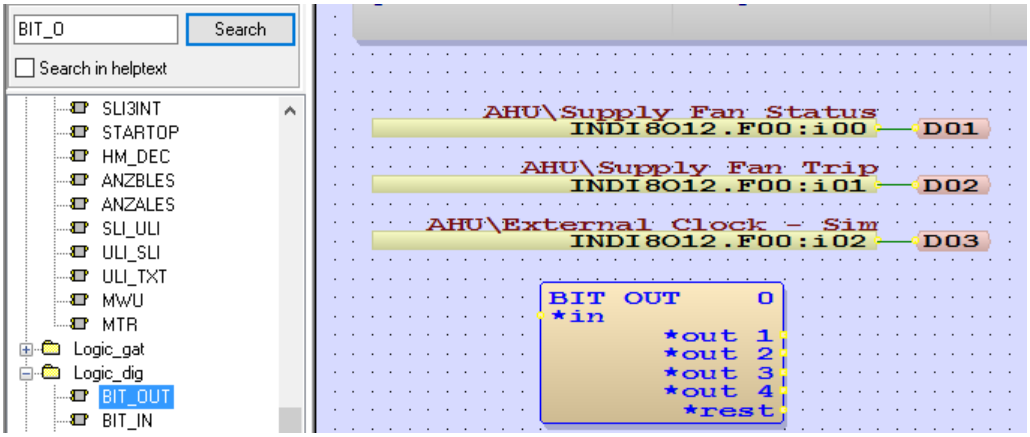

15. Please do the same for the “AHU Supply Fan Trip” and the “AHU\External Clock – Sim”. You can just select them all using the mouse and copy & paste 2 times, and the change the properties manually



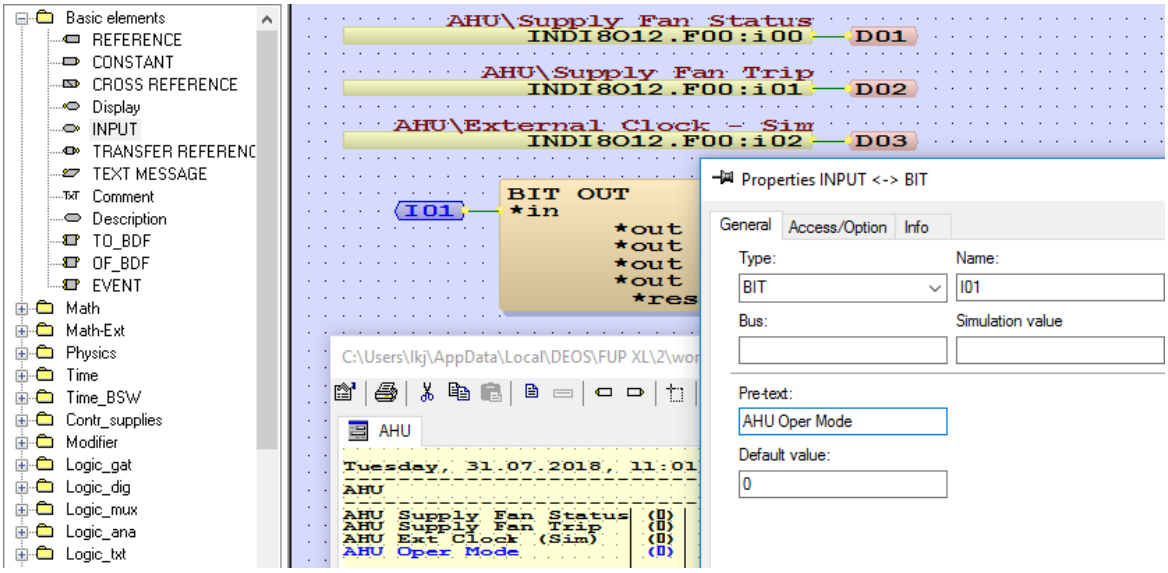
16. You can setup auto save of your FUP page. Click on “Extra”, “Options”. Click “Autosave” TAB, and enable “Activate Automatic Saving”, and click OK



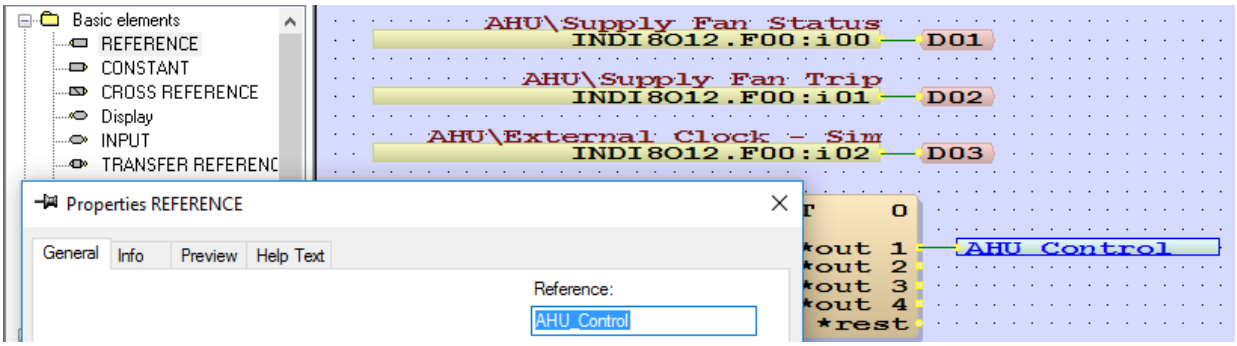

17. Now we want to control the AHU Supply Fan. To do it, we use a module call “BIT_OUT”. This is under “Logic_dig”, and you can search for it by typing “BIT_O” in the search box. This module is used to send a “1” to one of the 4 outputs based on the input value.



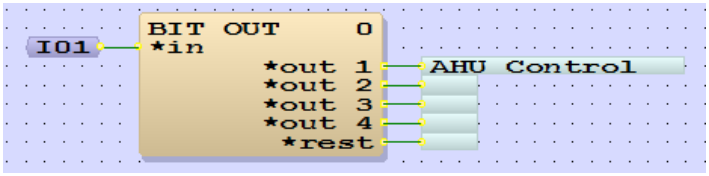

18. Drag and drop an “Input” and connect it to the “in” of the “BIT_OUT” module. Open the HTML page, change the “Pre-text” of this “Input” to “AHU Oper Mode”



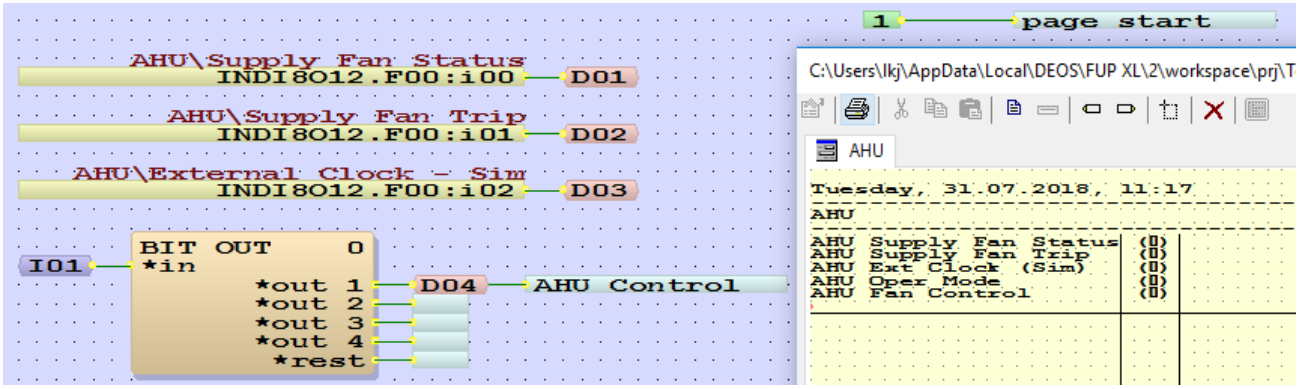

19. Drag and drop a “Reference”, connect it to “out 1”, and change the name to “AHU_Control”



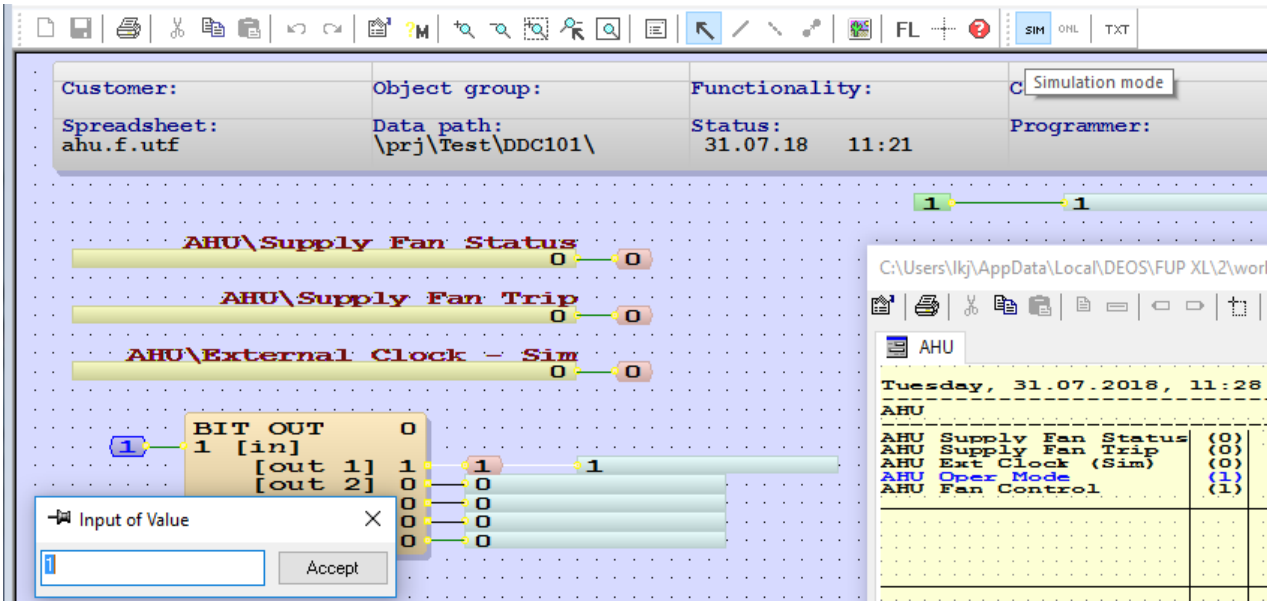
20. Drag and drop a “Reference”, connect it to “out 2”, and change the name to “__” (2 underscores). This is used to connect to the un-used outputs of the modules. Copy and paste it 3 times and connect them like below



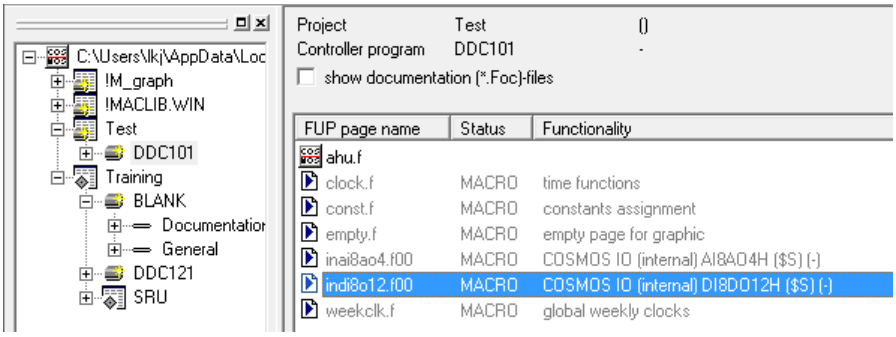

21. Finally, connect a “Display” to “out_1”, and change the “Pre-text” to “AHU Fan Control”



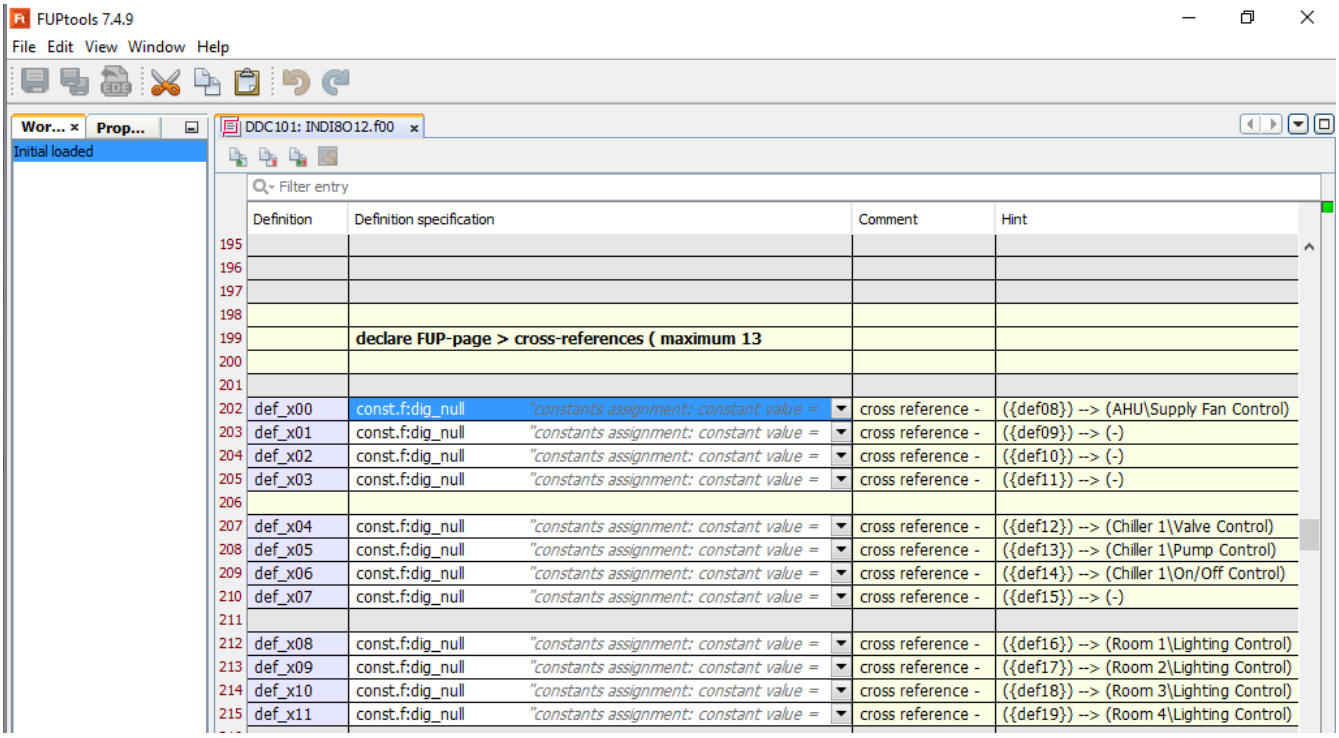

22. Now you can test your program in Simulation Mode. Click the “SIM” button on the Toolbar, try double click on the “Input” next to “in” (AHU Oper Mode), change the value to “1” and click “accept”. You should see the output (AHU Fan Control) change to “1”



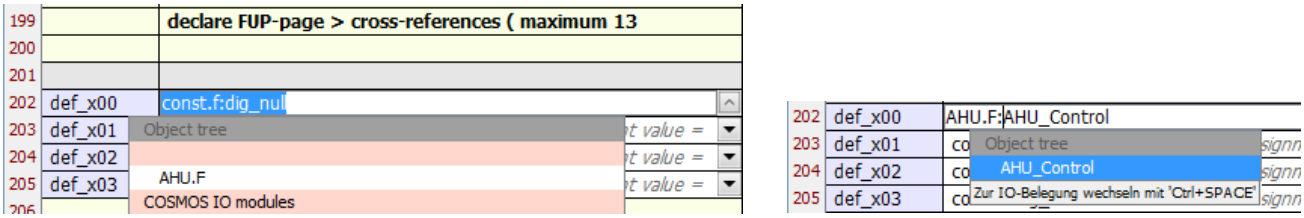

23. Save and close the FUP page
24. The last step is to send the output to the DO module. Double click on the “indi8do12.f00” module



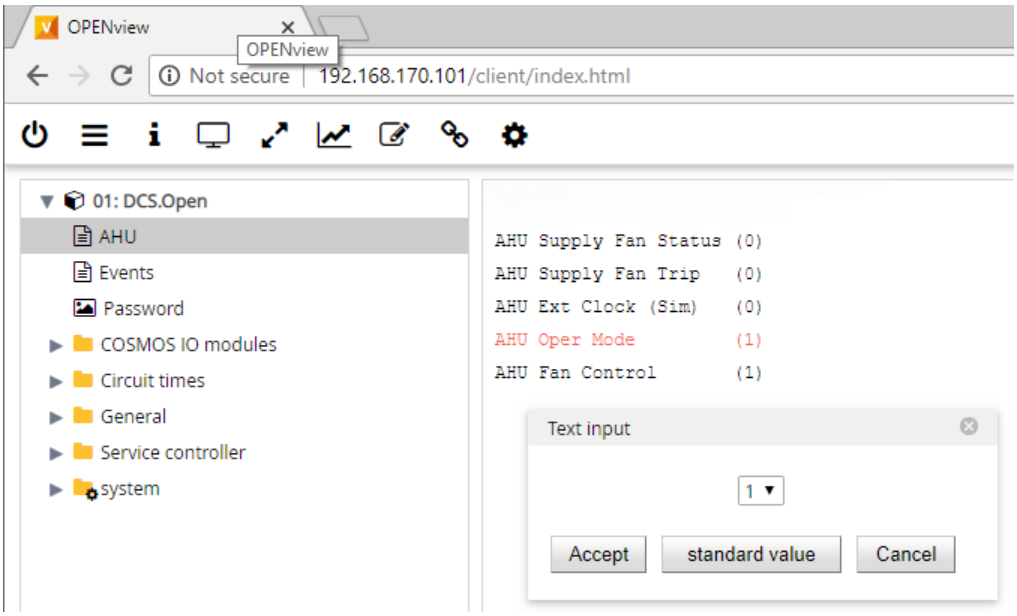
25. Scroll down and find “declare FUP-page > cross-reference”, and you should see “def_x00” (around line 200). This is DO0 (AHU\Supply Fan Control)




26. From the pulldown menu, click on “AHU.F”, and then click on “AHU_Control”. Save and close it




27. Compile and upload the new program to your controller
28. Now you can see the new “AHU” page on your controller. Click on it, click “AHU Oper Mode”, change the value to “1”, and click “Accept”. The DO0 LED on your controller should turn on. You can also check the DI points by connecting the inputs




29. You can also check your program online using the “ONL” button in your FUP page, it is next to the “SIM” button