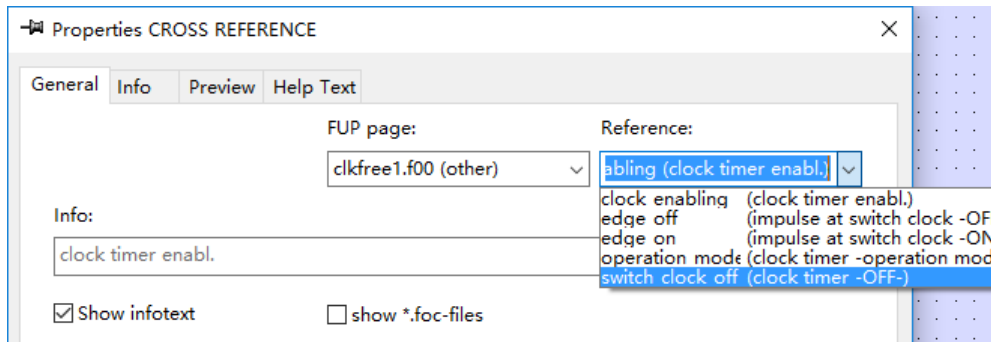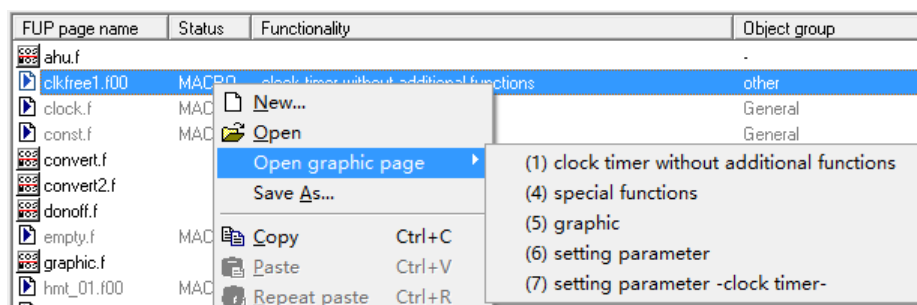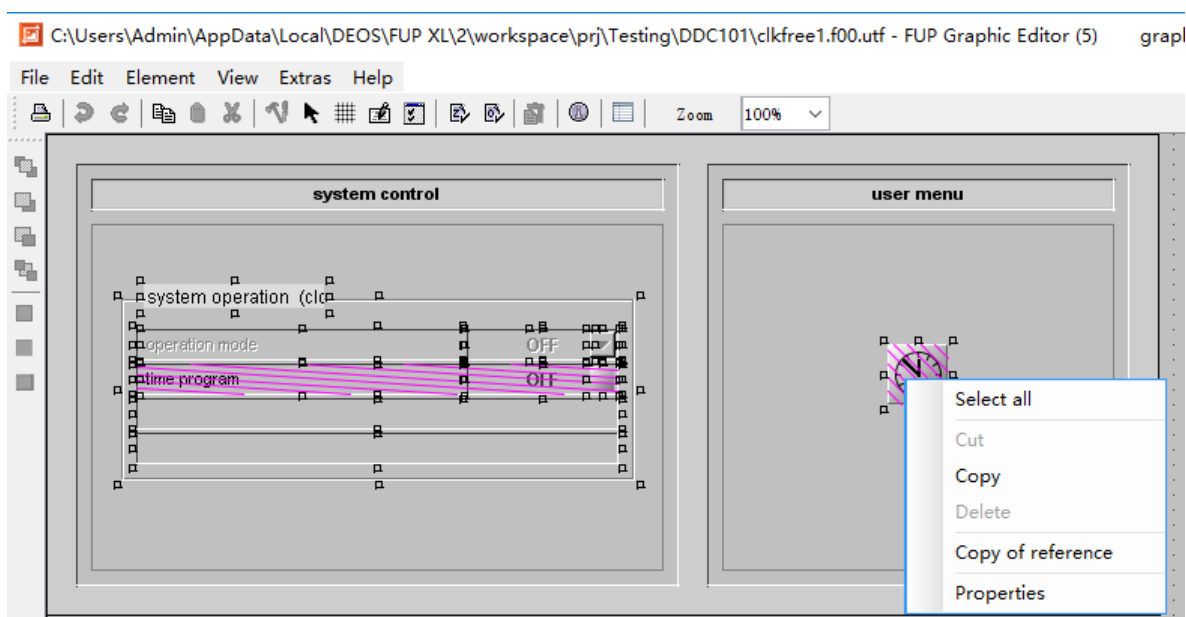# TT190805 – FUP - Macro Usage

1. In TT190101, we show you how to use the Time Schedule macro "clkfree" to control the AHU start/stop. Now we will show you more about macro usage in FUP. First, add a new FUP page called "macro"

2. Normally, there are many outputs (Reference) in each macro that you can use in your FUP page. To use it, add a "Cross Reference" in your FUP page, link it to the "clkfree" macro. In the "Reference" drop-down menu, you can see all the references in the macro
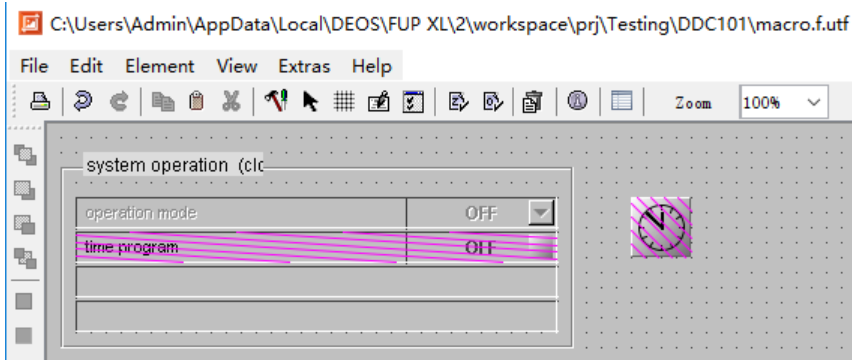

3. To see the graphic pages of the macro, click on "clkfree1.f00", right click, select "Open Graphic Page", and the select the graphic
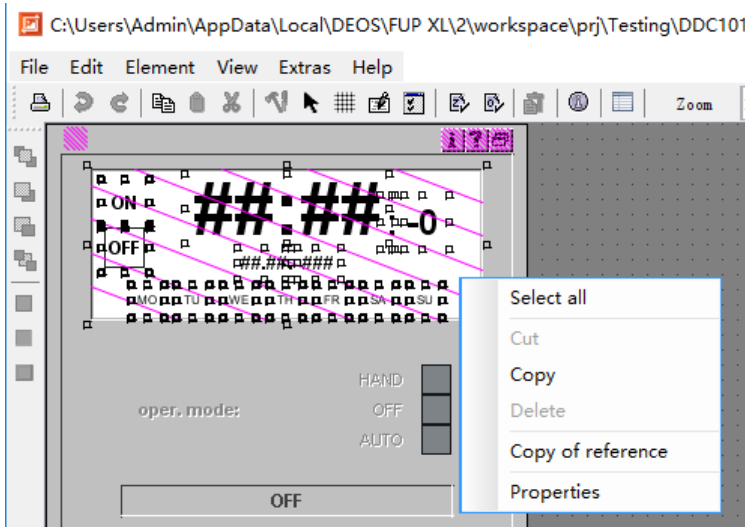

4. Select the graphic page (5) graphic to open it. Select the table and the button, right click, and select "Copy of reference"
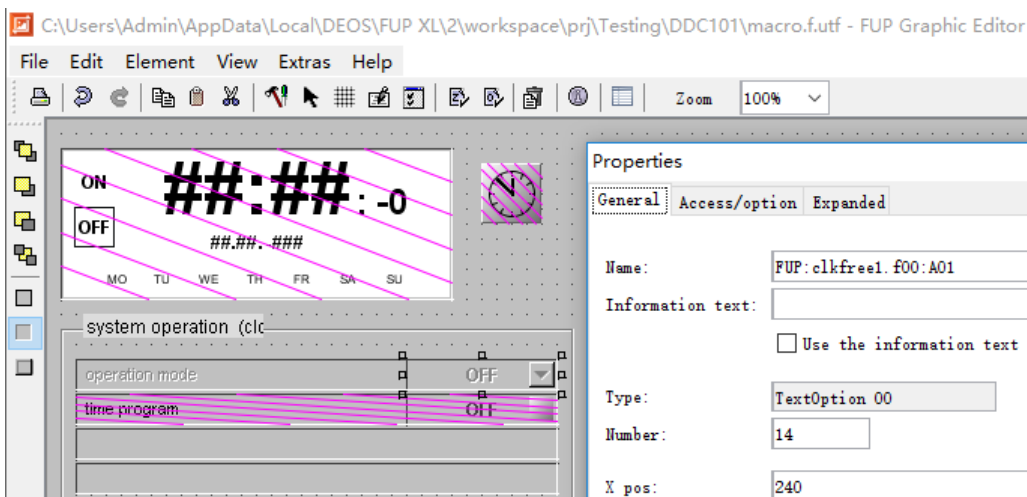

5. Go back to the "macro" FUP page, add a new graphic page, change the title to "Macro", and paste the copied item onto the graphic
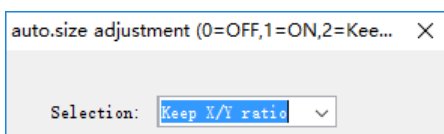
6. You can also copy any part on the graphic, and then put it onto your own graphic. Please make sure you use "Copy of reference" instead of just copy and paste. For example, we copy the date/time display from graphic page (1)
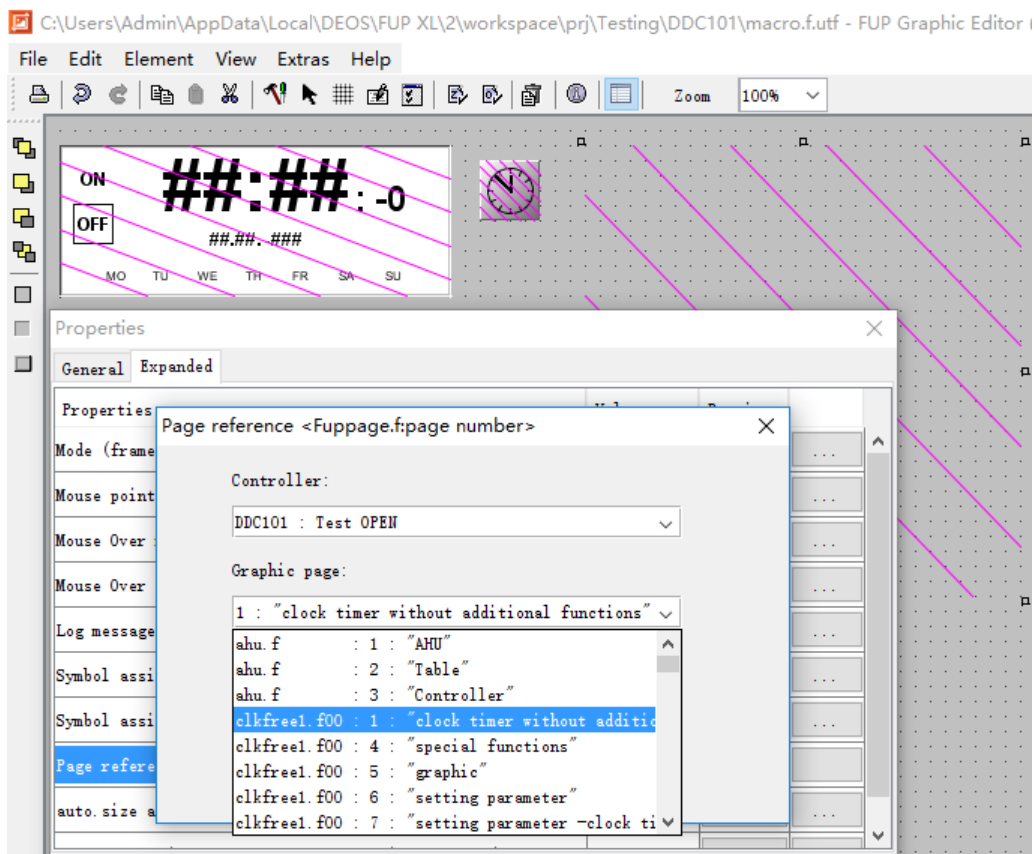

7. When you double-click on the item, you can see that the "Name" is a bit different. Normally, it should be like "FUP:A01" where "A01" is the name of the Input or Display. Now, you can see the FUP page name in between, meaning that the value shown is come from the "clkfree1.f00" FUP page

8. If you want to show the whole graphic page of the macro in your own graphic page, you can use the graphic element "Dialog01", under "Control elements". One best thing of using "Dialog01" is you can adjust the size of the dialog by using the "Auto size adjustment" option

9. Compile and upload it to the controller. Now you can try the different ways to operate the macros in your own project