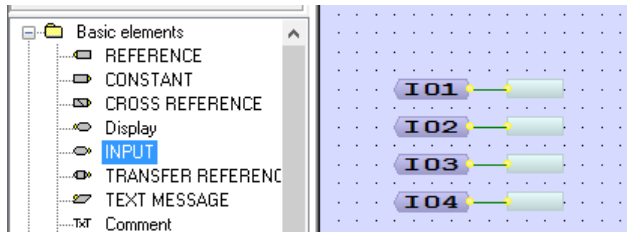
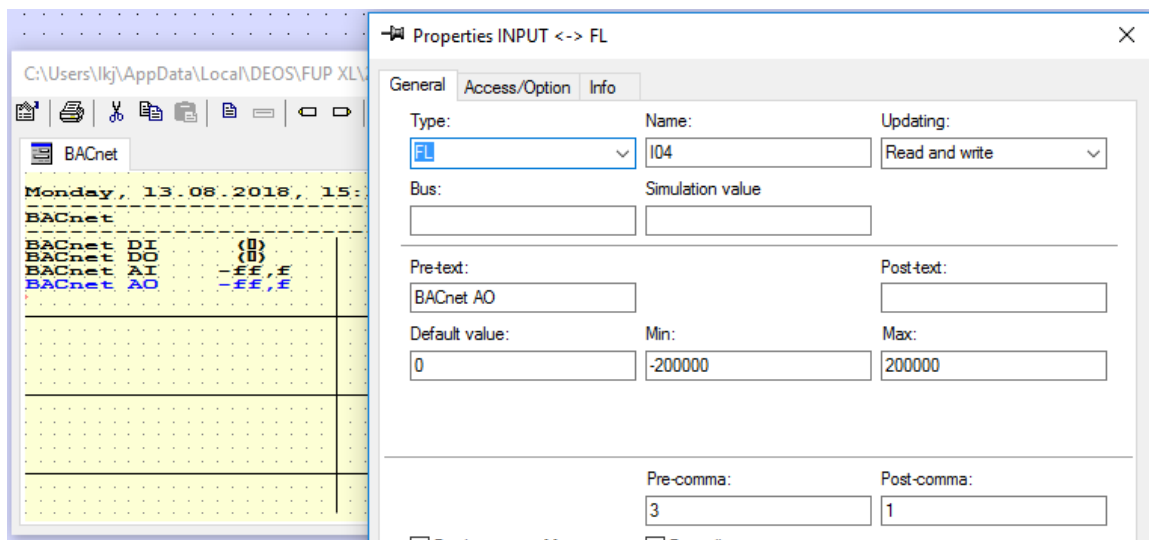



TT180813 - FUP - BACnet Integration

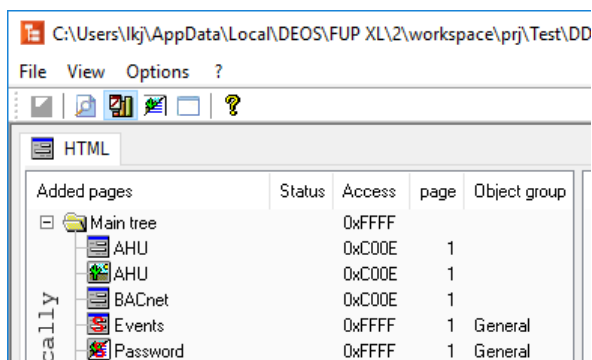
1. Please refer to “TT180808”, “TT180809” and “TT180812” to setup the BACnet MS/TP connection and to create the EDE file for FUP import
2. To read/write the 3rd party BACnet objects to/from the controller, we use BACnet client function. Start FUP, create a FUP page call “bacnet.f” and open it. Add 4 “Input” and 4 empty reference. Connect them together



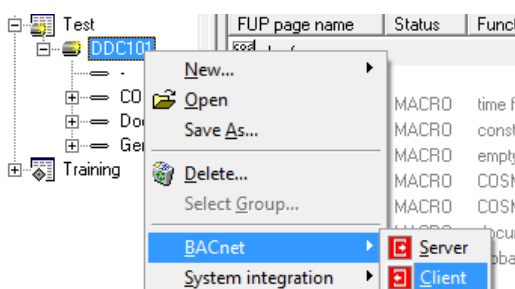
3. Rename the HTML page to “BACnet”, change the type of the first 2 points to “BIT”, the last 2 points to “FL”, change the “Post-comma” to 1 and type the “Pre-text” for these points as below



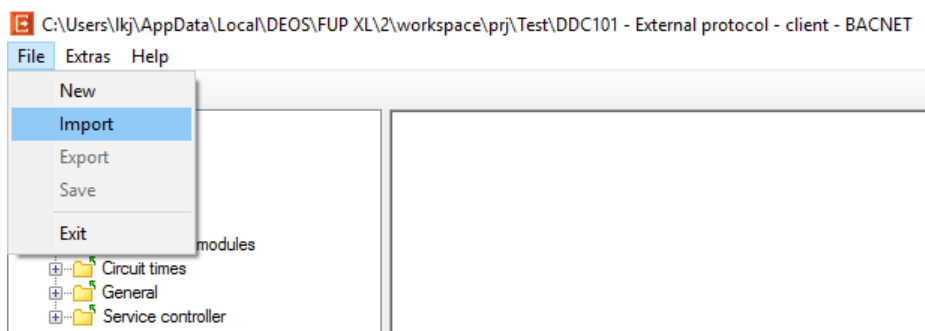
4. Click the  icon, and you should now see the new HTML page. Close it



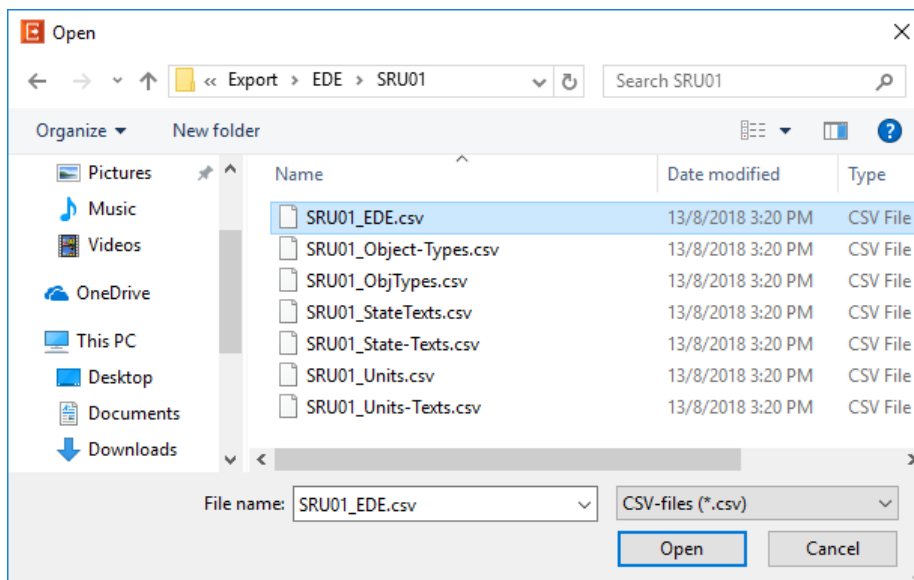
5. Right click the controller, click on “BACnet”, “Client”



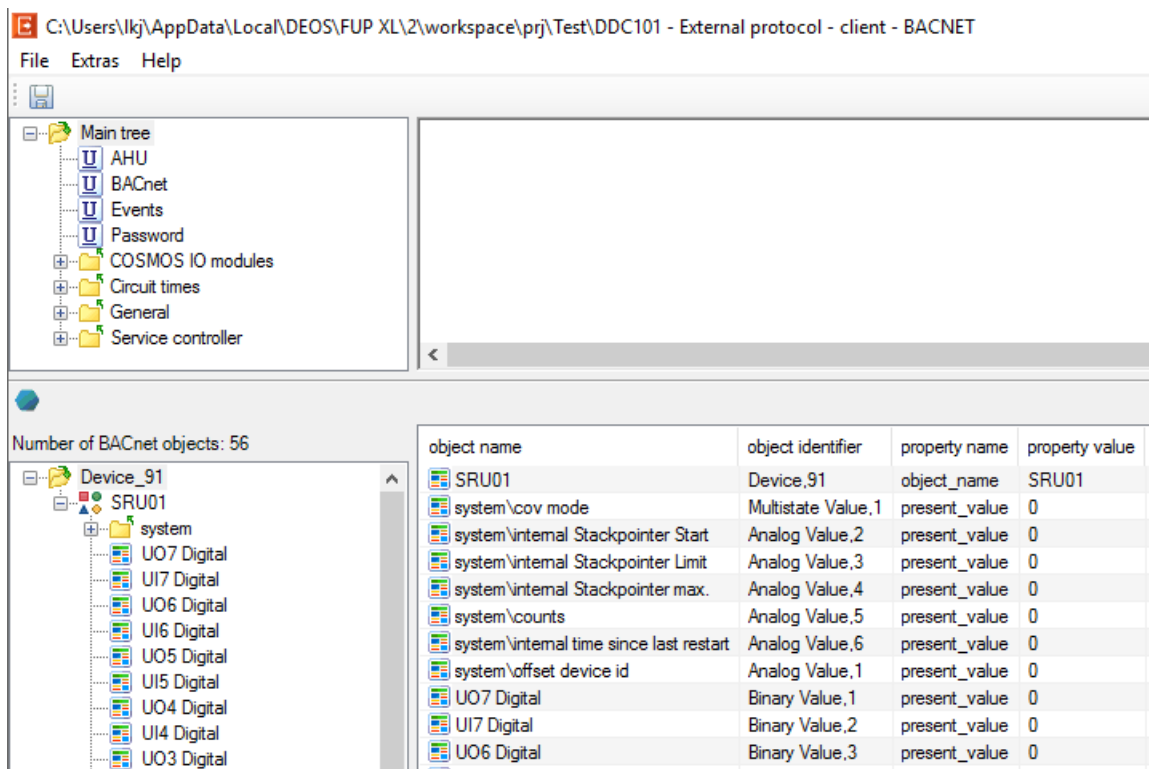
6. Click on “File”, “Import”



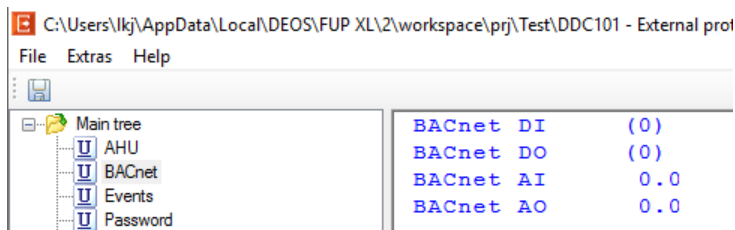
7. Select the EDE file, and click “Open”



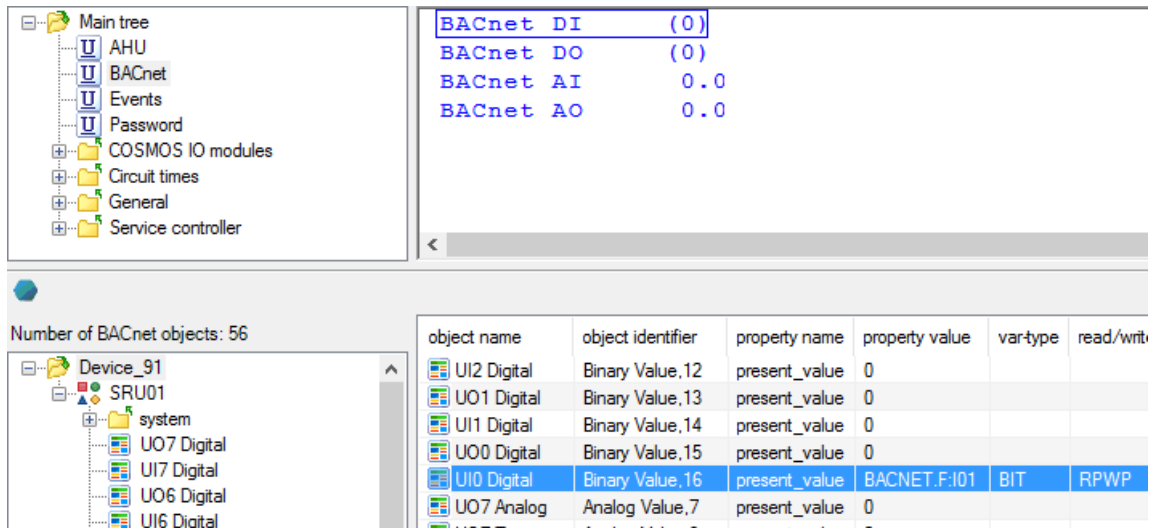
8. Click on the device and you can see all the BACnet objects in the device



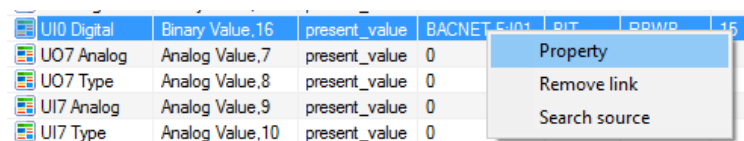
9. Click on the HTML page “BACnet”, and you should see the 4 points you created



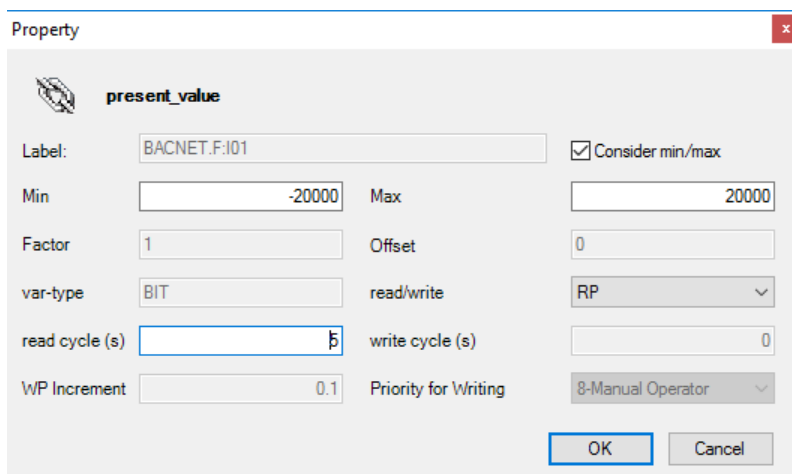
10. Drag and drop the “BACnet DI” point to any BACnet Binary Input (BI) or Binary Value (BV) object



11. Right click on the BACnet object and click on “Property”



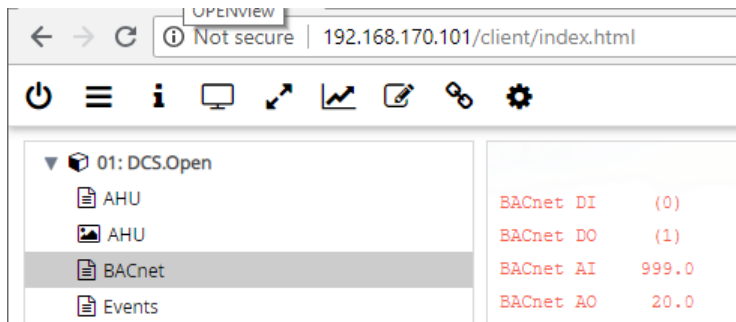
12. Change the “read/write” to “RP” and the “read cycle (s)” to 5. Click OK



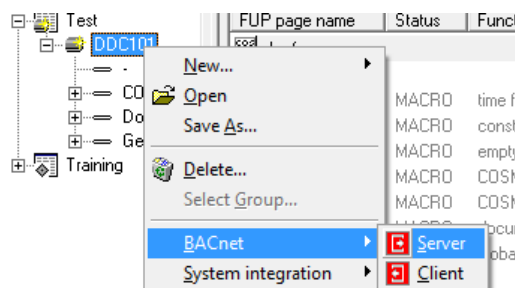
13. The other BACnet objects are link like this

object name	object identifier	property name	property value	var-type	read/write	read cycle (s)	write cycle (s)	WP Increment
UO0 Digital	Binary Value,15	present_value	BACNET.F:I02	BIT	RPWP	5	0	0.1
UI0 Digital	Binary Value,16	present_value	BACNET.F:I01	BIT	RP	5	0	0.1
UO7 Analog	Analog Value,7	present_value	BACNET.F:I04	FL	RPWP	5	0	0.1
UI7 Analog	Analog Value,9	present_value	BACNET.F:I03	FL	RP	5	0	0.1

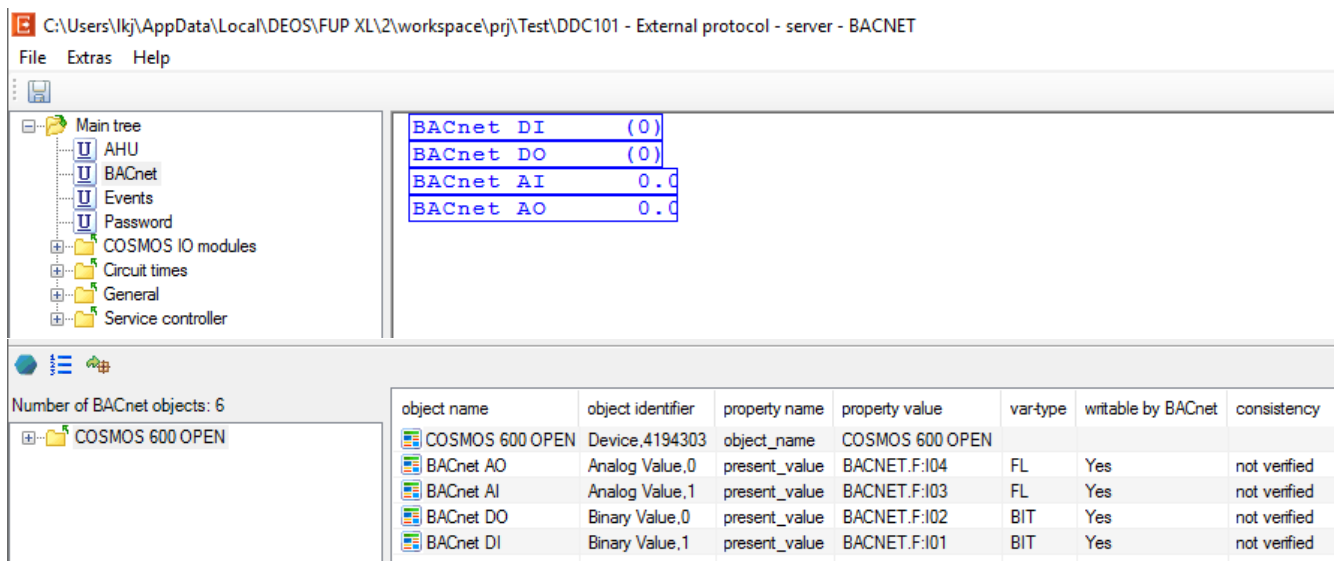
14. Save and close the window. Compile and upload to the controller, and then you can read/write the 3rd party BACnet objects through browser in our controller



15. On the other hand, if you want to create BACnet objects in the controller, so that 3rd party system can read/write our controller points via BACnet, you can use the BACnet server function. Right click the controller, click on “BACnet”, “Server”



16. Click on the BACnet page, drag and drop the points to the bottom. Save, compile and upload



17. Start any 3rd party BACnet browser, and you can see the BACnet objects in our controller

