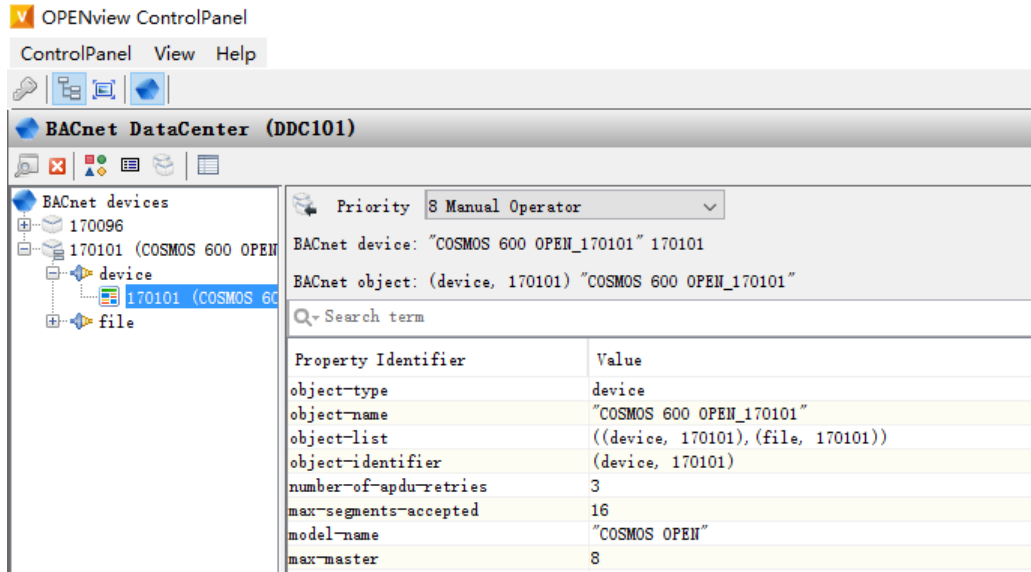
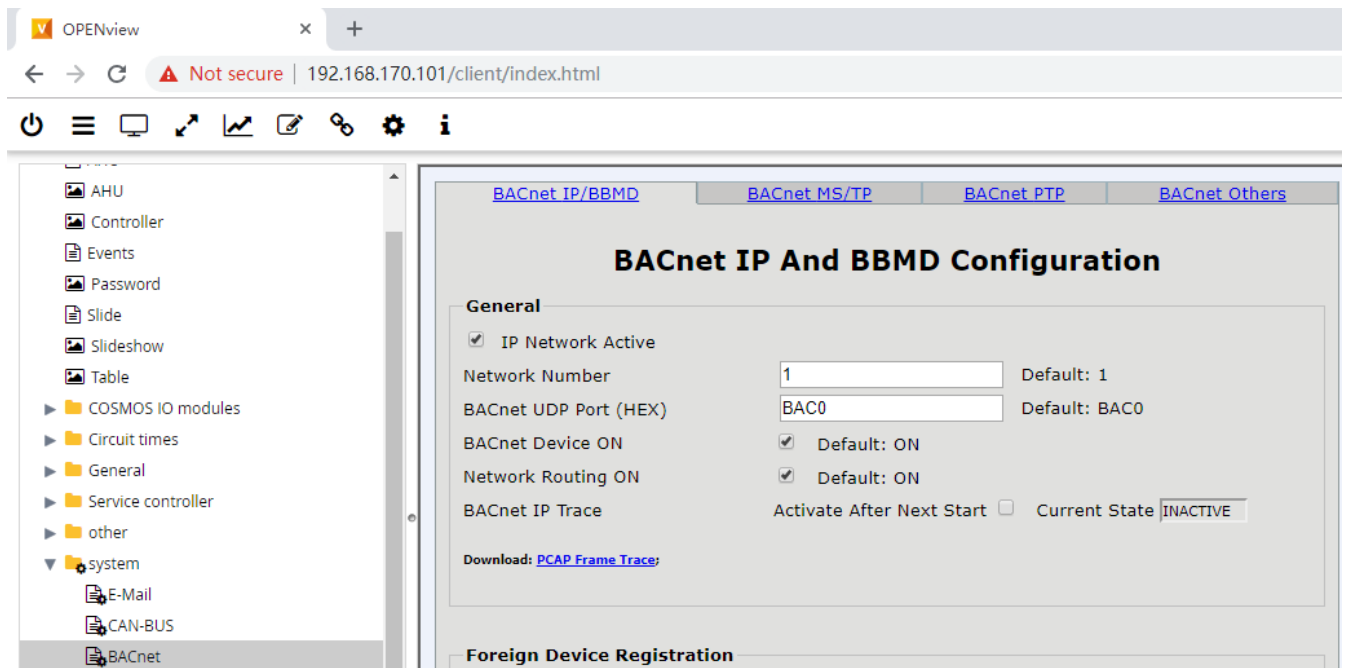


## TT190603 – FUP - BACnet Server Setup

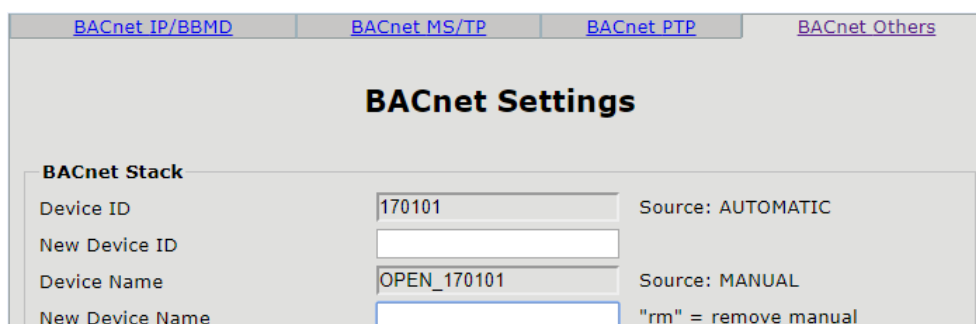
1. The OPEN controller is a BACnet BTL certified B-BC controller. BACnet IP is enabled by default, so you can see it directly in OPENview BACnet DataCenter (TT180810)



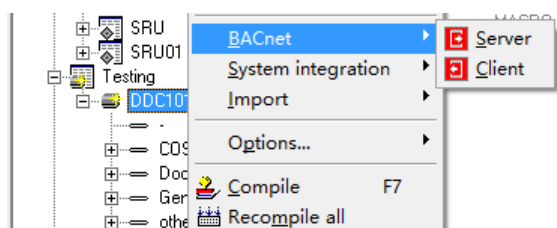
2. If you don't want others to see the controller in BACnet, you can disable it in OPENview, under "System", "BACnet", and un-check the "IP Network Active" option



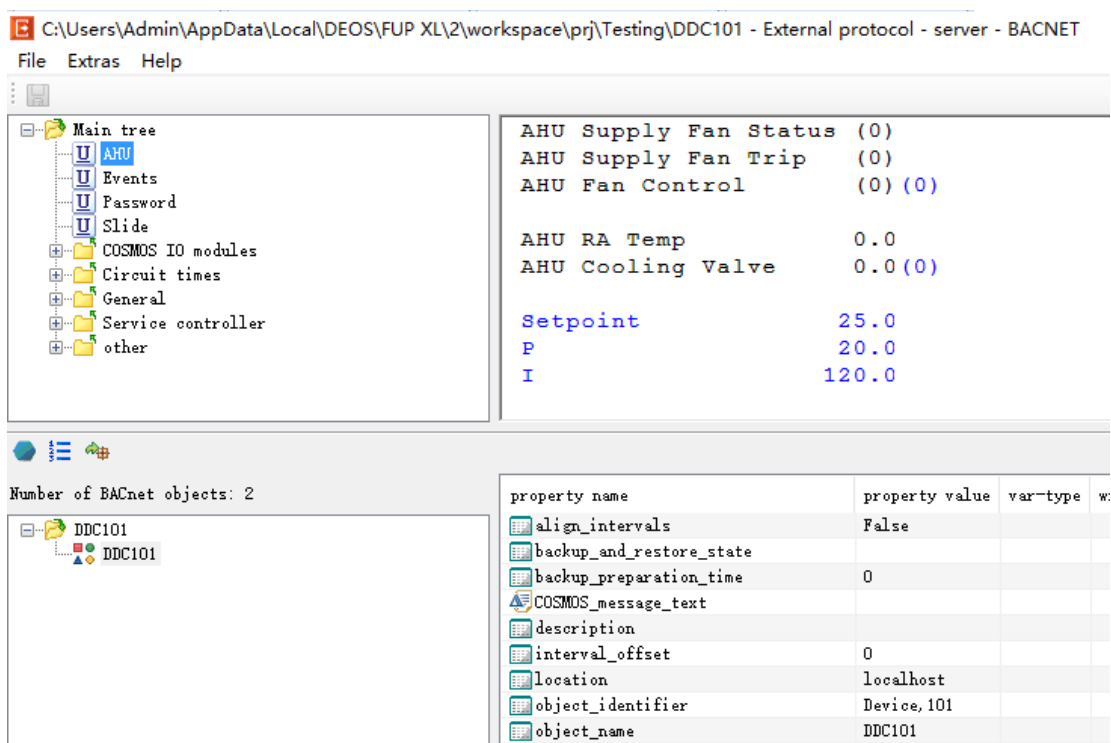
3. In the "BACnet Others" tab, you can manually change the BACnet device ID (default is last two 8 bits of the IP) and name. Click "Save Changes" to restart the BACnet process



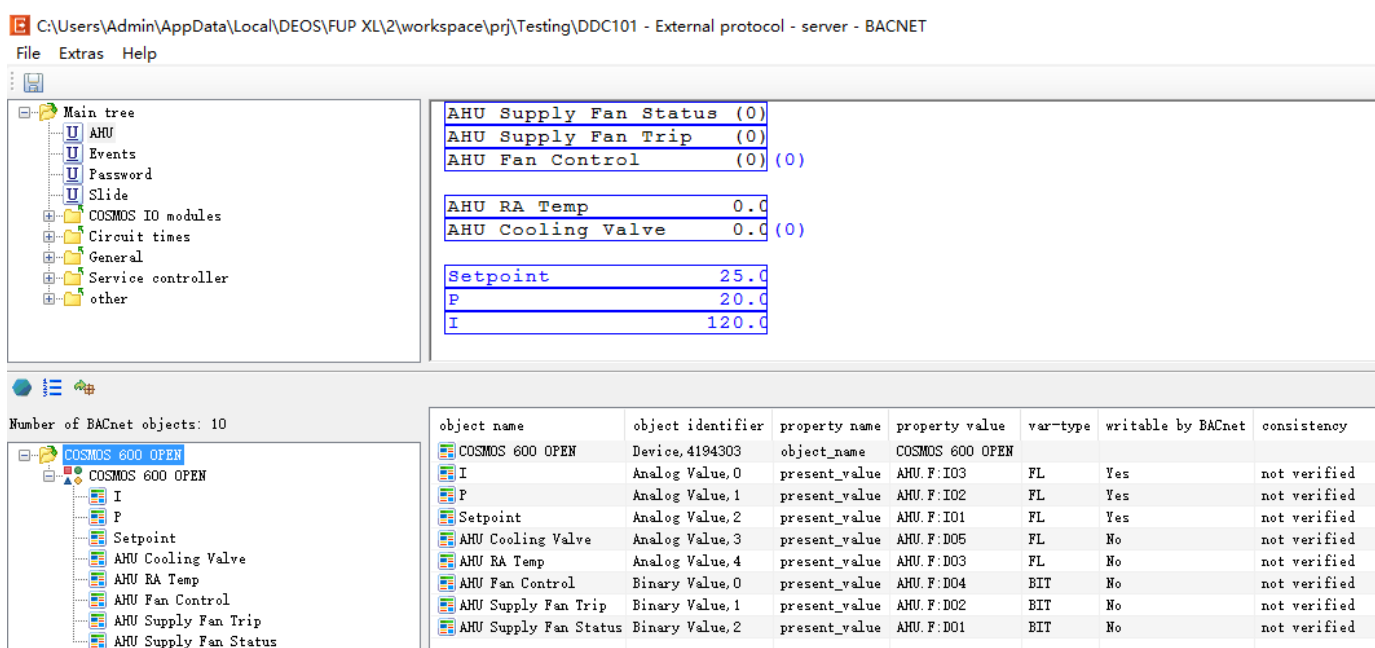
- To configure BACnet points for the controller, click on the controller, right click, click on “BACnet”, “Server”



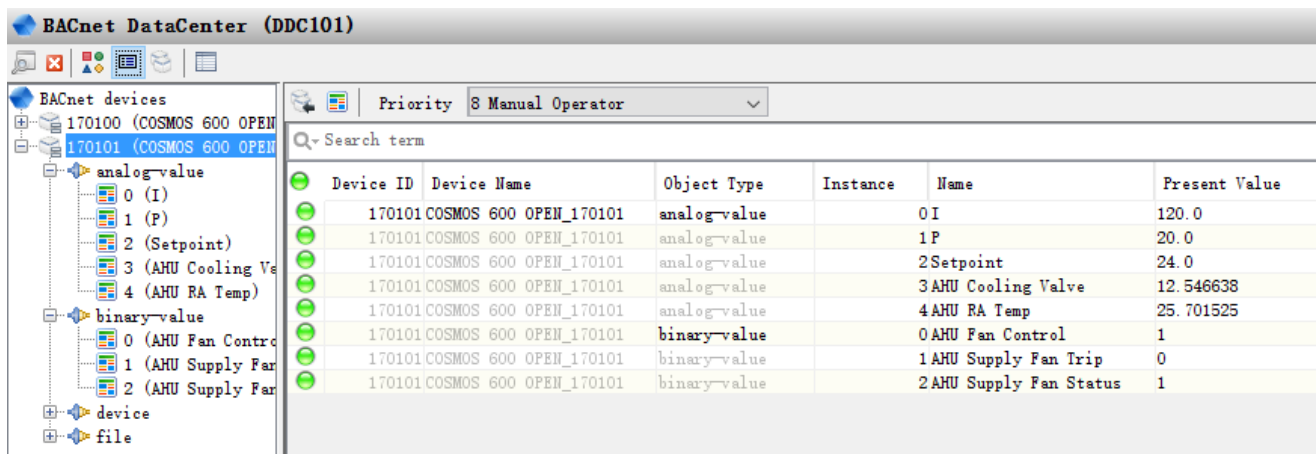
- Click on the BACnet controller on the bottom, you can also change the BACnet ID, name and description, etc. here



- Now click the “AHU” page on the top, click the “OPEN” folder on the bottom, and drag and drop the points you want to create as BACnet objects from top to bottom



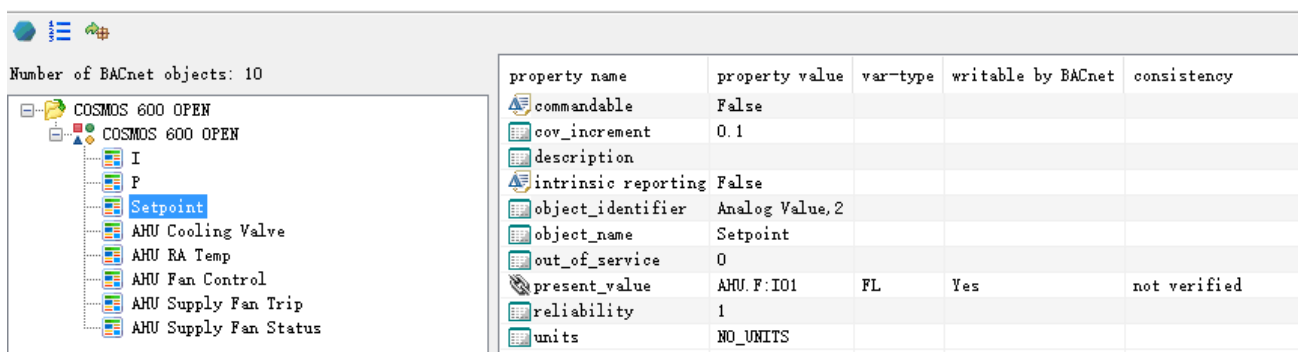
7. So all the BACnet object properties will be set automatically based on your FUP page settings. If you don't need to change anything, you can just compile and upload to the controller. Now in BACnet DataCenter, you should see all the BACnet points in the controller



The screenshot shows the BACnet DataCenter (DDC101) interface. On the left, a tree view shows the hierarchy of BACnet devices and their properties. The main window displays a table of BACnet points with the following columns: Device ID, Device Name, Object Type, Instance, Name, and Present Value.

Device ID	Device Name	Object Type	Instance	Name	Present Value
170100	COSMOS 600 OPEN	analog-value	0	I	120.0
170101	COSMOS 600 OPEN	analog-value	1	P	20.0
170101	COSMOS 600 OPEN	analog-value	2	Setpoint	24.0
170101	COSMOS 600 OPEN	analog-value	3	AHU Cooling Valve	12.546638
170101	COSMOS 600 OPEN	analog-value	4	AHU RA Temp	25.701525
170101	COSMOS 600 OPEN	binary-value	0	AHU Fan Control	1
170101	COSMOS 600 OPEN	binary-value	1	AHU Supply Fan Trip	0
170101	COSMOS 600 OPEN	binary-value	2	AHU Supply Fan Status	1

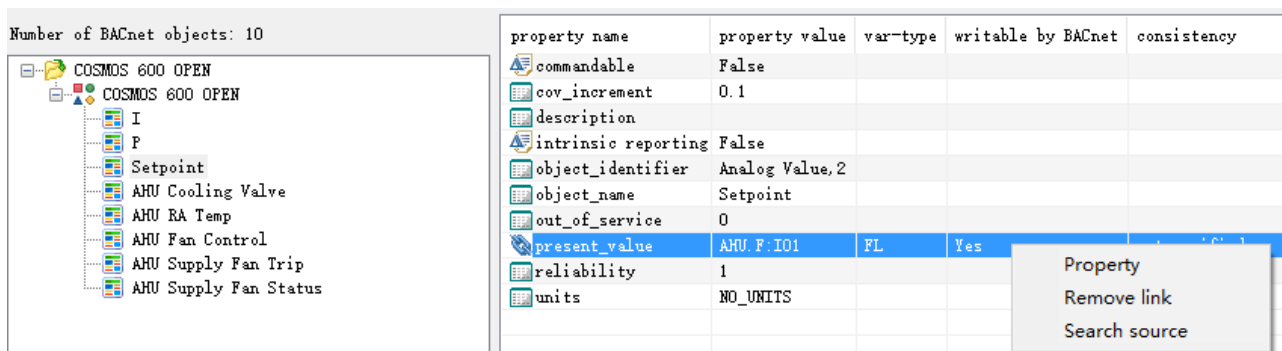
8. If you want to change the BACnet object property in FUP, then go back to the “BACnet”, “Server” setting, click on the BACnet object and you can see all the BACnet properties



The screenshot shows the BACnet DataCenter interface with the properties of a BACnet object displayed. The left pane shows the tree view with the 'Setpoint' object selected. The right pane shows a table of properties with the following columns: property name, property value, var-type, writable by BACnet, and consistency.

property name	property value	var-type	writable by BACnet	consistency
commandable	False			
cov_increment	0.1			
description				
intrinsic reporting	False			
object_identifier	Analog Value, 2			
object_name	Setpoint			
out_of_service	0			
present_value	AHU.F:IO1	FL	Yes	not verified
reliability	1			
units	NO_UNITS			

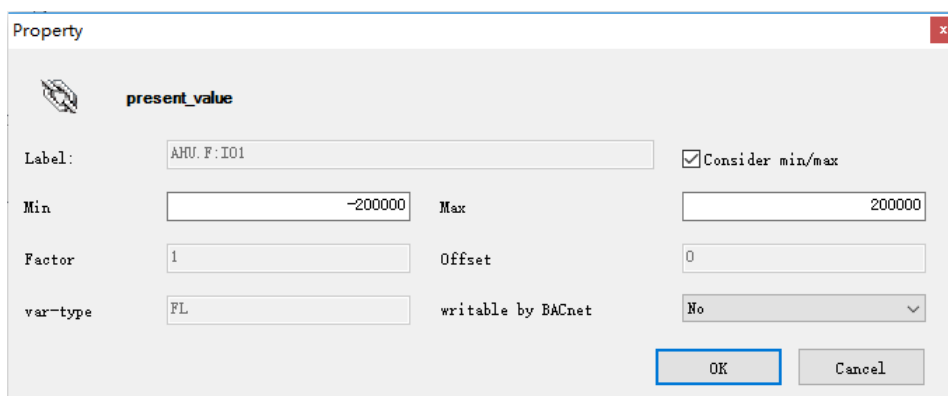
9. To change the property, right click on each property, and select “Property”



The screenshot shows the BACnet DataCenter interface with the properties of a BACnet object displayed. The left pane shows the tree view with the 'Setpoint' object selected. The right pane shows a table of properties with the following columns: property name, property value, var-type, writable by BACnet, and consistency. A context menu is open over the 'present\_value' row, showing the options: Property, Remove link, and Search source.

property name	property value	var-type	writable by BACnet	consistency
commandable	False			
cov_increment	0.1			
description				
intrinsic reporting	False			
object_identifier	Analog Value, 2			
object_name	Setpoint			
out_of_service	0			
present_value	AHU.F:IO1	FL	Yes	not verified
reliability	1			
units	NO_UNITS			

10. For example, you can set the “Writable by BACnet” to “No”, so the setpoint cannot be changed via BACnet



The screenshot shows the 'Property' dialog box for the 'present\_value' property. The dialog box contains the following fields and options:

- Label: AHU.F:IO1
- Min: -200000
- Max: 200000
- Factor: 1
- Offset: 0
- var-type: FL
- writable by BACnet: No
- Consider min/max: ☒

The dialog box has 'OK' and 'Cancel' buttons at the bottom.