
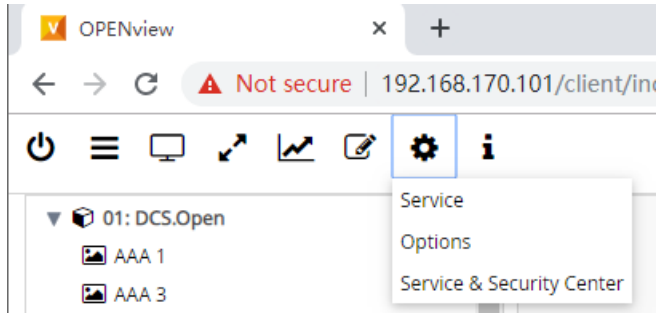


TT210704 – OPEN - BACnet Point Count

1. Our OPEN EMS controller support both BACnet client and server. For example, in an OPEN 600 controller, there are 250 BACnet objects license. This includes BACnet objects for both BACnet client and server.
2. To check how many licensed BACnet objects you've used in the controller. Start OPENview HTML5 in a browser, e.g. Chrome, click the “Services” button , and then click “Service”.



3. Click “Lognews.htm”.

Project name : Testing

Controller program name : DDC101

Page	Content
pview.htm	Show all running processes
shm.htm	Show all used shared memory blocks
lognews.htm	The latest entries of the log file

4. Scroll down to the bottom and you can see this line. In this example, we've used 10 BACnet objects for BACnet server, and 1 object for BACnet client.

BACnet -> INFO: BACnet Objects: Option Limit<250>, In Used<11>=Server<10>+Client<1>

5. If you've exceeded the limit, then you will see the message like below.

BACnet -> INFO: BACnet Objects: Option Limit<0>, In Used<52>=Server<20>+Client<32>

BACnet -> ERROR: BACnet option limit reached (limit 0). Objects discarded: 52/52

6. In FUP, “BACnet”, “Server” configuration, you can find also the “Number of BACnet objects”.

C:\Users\Admin\AppData\Local\DEOS\FUP XL\2\workspace\prj\Testing\DDC101 - External protocol - server - BACNET

File Extras Help

Main tree

AAA 1

Number of BACnet objects: 14

COSMOS 600 OPEN

COSMOS 600 OPEN

I

P

Setpoint

AHU Cooling Valve

AHU RA Temp

AHU Fan Control

AHU Supply Fan Trip

AHU Supply Fan Status

Input

Schedule

Calendar

Trendlog

object name	object identifier	property name	property value	var-ty
COSMOS 600 OPEN	Device, 4194303	object_name	COSMOS 600 OPEN	
I	Analog Value, 0	present_value	AHU. F: IO3	FL
P	Analog Value, 1	present_value	AHU. F: IO2	FL
Setpoint	Analog Value, 2	present_value	AHU. F: IO1	FL
AHU Cooling Valve	Analog Value, 3	present_value	AHU. F: DO5	FL
AHU RA Temp	Analog Value, 4	present_value	AHU. F: DO3	FL
AHU Fan Control	Binary Value, 0	present_value	AHU. F: DO4	BIT
AHU Supply Fan Trip	Binary Value, 1	present_value	AHU. F: DO2	BIT
AHU Supply Fan Status	Binary Value, 2	present_value	AHU. F: DO1	BIT
Input	Binary Value, 3	present_value	TRANSFER. F: IO1	BIT
Schedule	Schedule, 1	present_value		
Calendar	Calendar, 1	present_value	0	
Trendlog	Trend Log, 1	object_name	Trendlog	

7. Please note that this number is not “correct”, because when we calculate the BACnet point license in the controller, some BACnet objects are not count as they’re free of charge.
8. In the above example, there are actually 13 BACnet objects in our controller (BACnet server). However, the BACnet device object, schedule and calendar objects are not included in the license objects. So, only 10 BACnet objects are counted and it’s the same as you see in the Lognews.
9. In FUP, “BACnet”, “Client” configuration, you can also find the “Number of BACnet objects”.

C:\Users\Admin\AppData\Local\DEOS\FUP XL\2\workspace\prj\Testing\DDC101 - External protocol - client - BACNET

File Extras Help

Main tree

AAA 1

Number of BACnet objects: 10

COSMOS 600 OPEN_170101

COSMOS 600 OPEN_170101

- I
- P
- Setpoint
- AHU Cooling Valve
- AHU RA Temp
- AHU Fan Control
- AHU Supply Fan Trip
- AHU Supply Fan Status
- Input

object name	object identifier	property name	property value
COSMOS 600 OPEN_170101	Device, 170101	object_name	COSMOS 600 OPEN_170101
I	Analog Value, 0	present_value	0
P	Analog Value, 1	present_value	0
Setpoint	Analog Value, 2	present_value	0
AHU Cooling Valve	Analog Value, 3	present_value	0
AHU RA Temp	Analog Value, 4	present_value	0
AHU Fan Control	Binary Value, 0	present_value	0
AHU Supply Fan Trip	Binary Value, 1	present_value	0
AHU Supply Fan Status	Binary Value, 2	present_value	0
Input	Binary Value, 3	present_value	TRANSFER. F: IO2

10. Again, this number is not “correct”, because we only count the BACnet objects that you’ve linked to the FUP “Input” and/or “Display” as licensed objects.
11. In the above example, we only link 1 BACnet object in FUP (check “property value” column), so only 1 BACnet object is counted and it’s the same as you see in the Lognews.
12. In conclusion, always check Lognews for the correct licensed BACnet objects that you’ve used in the controller.

BACnet -> INFO: BACnet Objects: Option Limit<250>, In Used<11>=Server<10>+Client<1>