BACnet/IP Slave I/O Modules

FAQ for BNET-5000

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1. How to manipulate BNET-5000 via ICDT BACnet Pioneer?

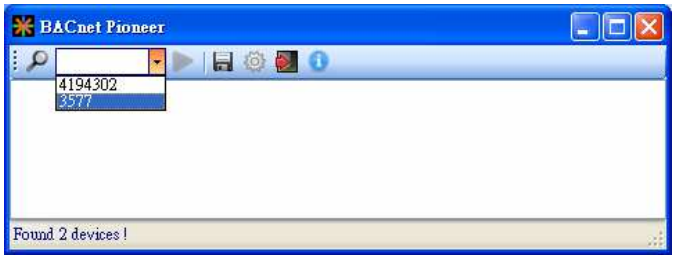
ICDT BACnet Pioneer is a free BACnet software and developed by ICDT Tech. Co. Ltd. The following example is how to switch on the DO[0] of BNET-5304 and read DI[0] back via ICDT BACnet Pioneer, and you can test BNET-5310 in the similar way.

(1) Install the ICDT BACnet Pioneer
http://www.icdt.com.tw/main/index.php/2013-07-09-05-16-50/2013-07-18-14-43-35/file/24-bacnetpioneerv1001
Refer to the ICDT website for the details: http://www.icdt.com.tw

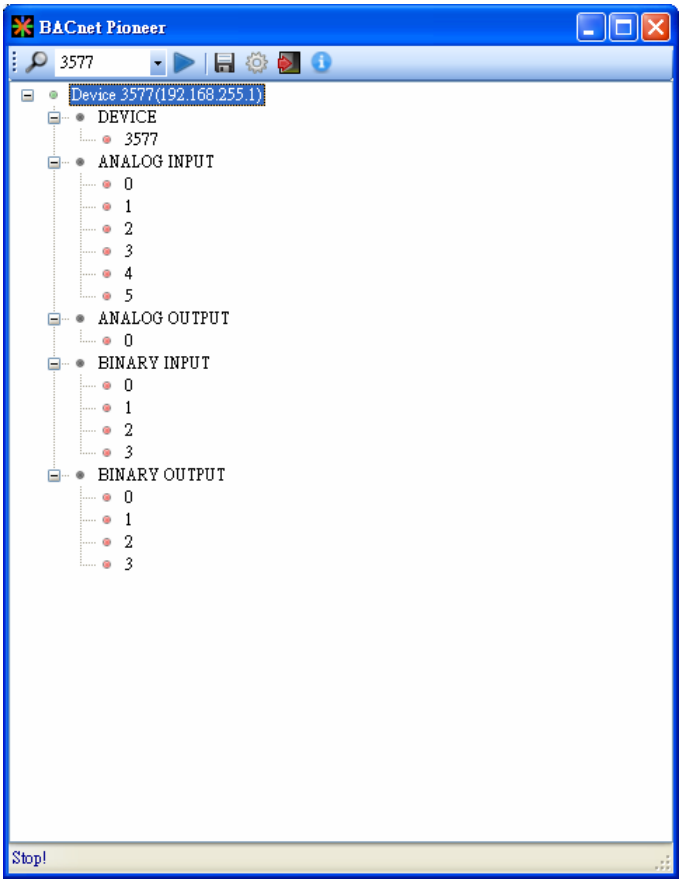
(2) BNET-5304 Setup as follows, DO.PWR wire to ***Power Supply +5VDC***, GND to ***Power Supply Ground***, and DO0 to DI0. Power up and LAN1 connect to the internet.

(3) Execute 

to get the Device ID/Instance of your computer and BNET-5304(the default is 3577). Choose ***3577***,

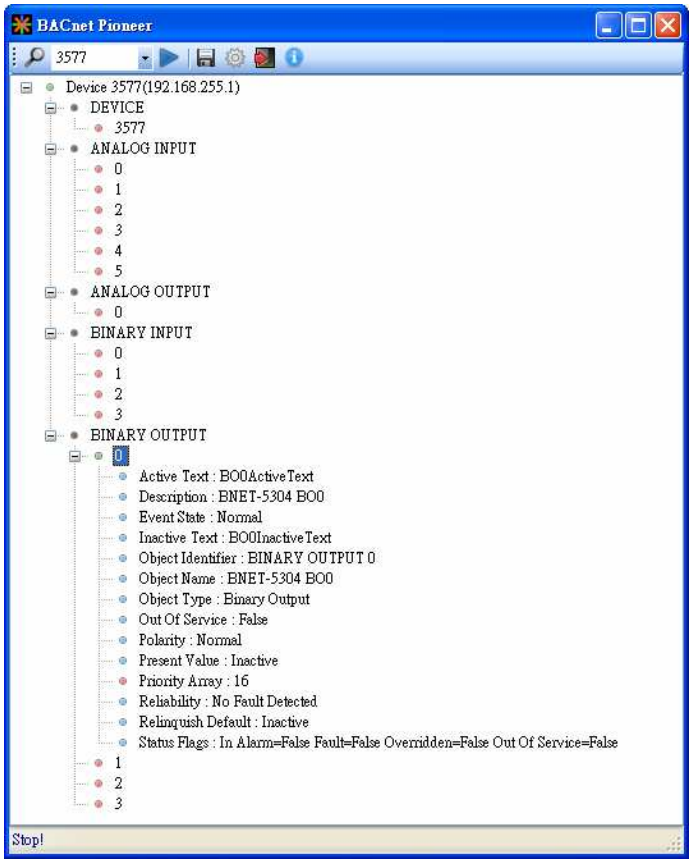


(4) Click on ***Device 3577(……)***, and it will scan the objects of BNET-5304.

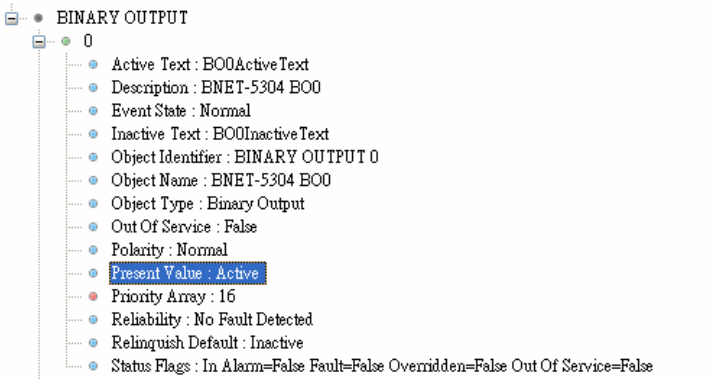


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(5) Click on ***BINARY OUTPUT→0***, and it will scan the properties and values of ***BO0***.

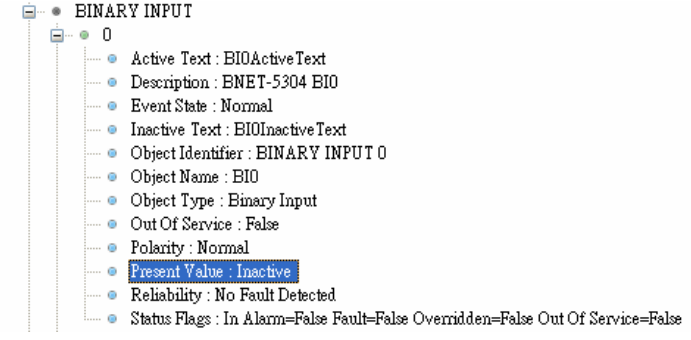


(6) Double Click on ***Present Value***, and set BO0 to ***Active***. (Notice ***Out of Service*** is ***False***)



(7) Click on BINARY INPUT(0(Present Value, and check the status of BI0 is Inactive.

- DI of BNET-5304 is Active while "Close GND." In this example, BI0 is Active while BO0 is Inactive.
- Notice Out of Service is False
- In the ICDT Pioneer, the data will be updated while you click and stay on the item.



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2. How to manipulate BNET-5000 via BACnet VTS?

This part is The following example is how to switch on the DO[0] of BNET-5304 and read DI[0] back via Visual Test Shell (VTS), and you can test BNET-5310 in the similar way.

(1) Get Visual Test Shell (VTS). Refer to the websites,

http://vts.sourceforge.net/ or http://sourceforge.net/projects/vts

(2) BNET-5304 Setup as follows, DO.PWR wire to ***Power Supply +5VDC***, GND to ***Power Supply Ground***, and DO0 to DI0. Power up and LAN1 connect to the internet.

(3) Execute 

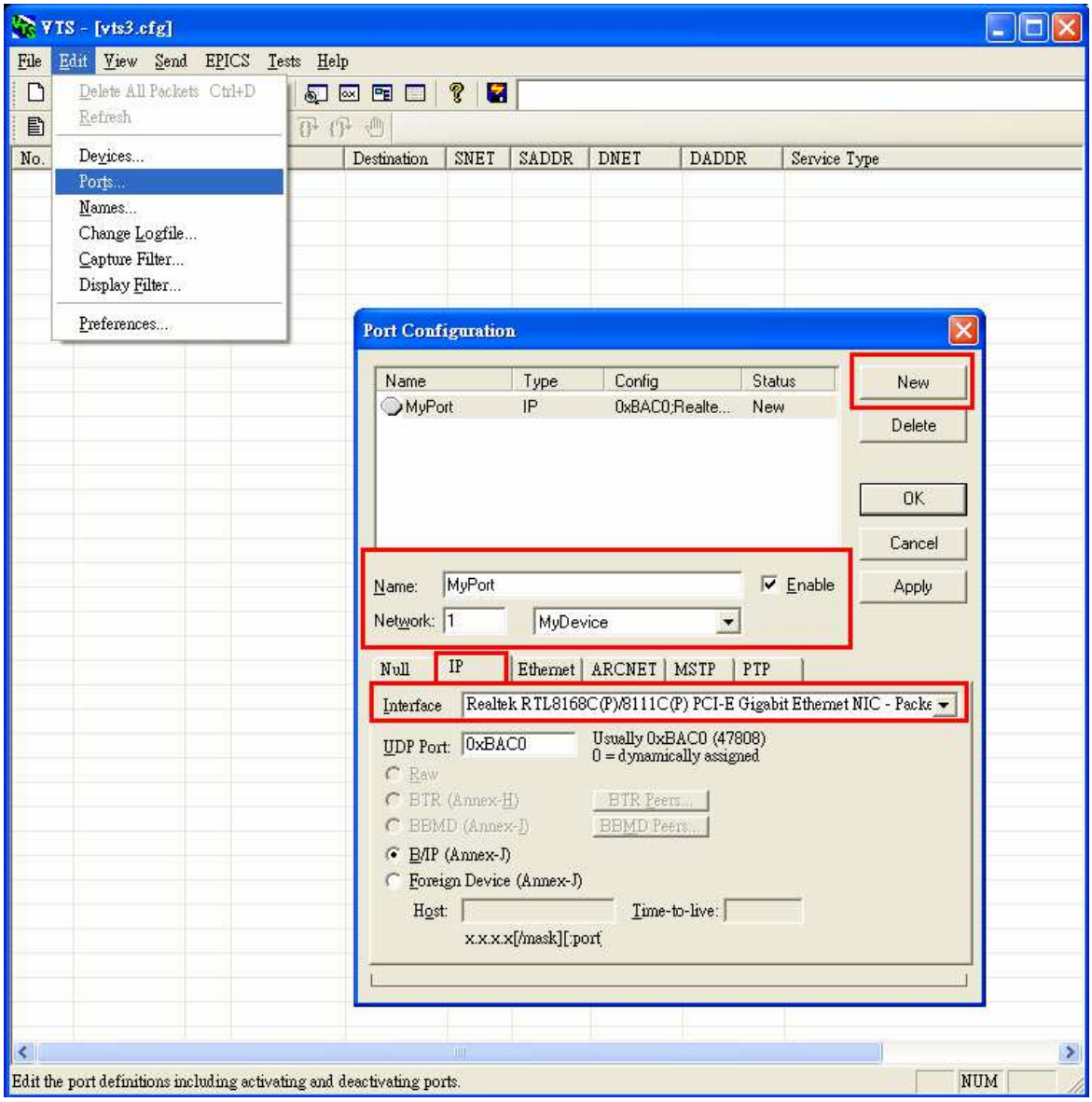
. If you've configured the Devices, Ports and Names in VTS, you can jump to step(7).

(4) Click on Edit(Devices…, set the Name to MyDevice, Instance to 1111, and push OK.

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(5) Click on ***Edit→Ports…***, push ***New*** button and configure as follows,

- Name set to ***MyPort***. Check on ***Enable***
- Network set to ***1***. Choose ***MyDevice***
- On ***IP*** Page, ***Interface*** choose one network device which can communicate with BNET-5304
- Push ***OK*** or ***Apply*** to continue

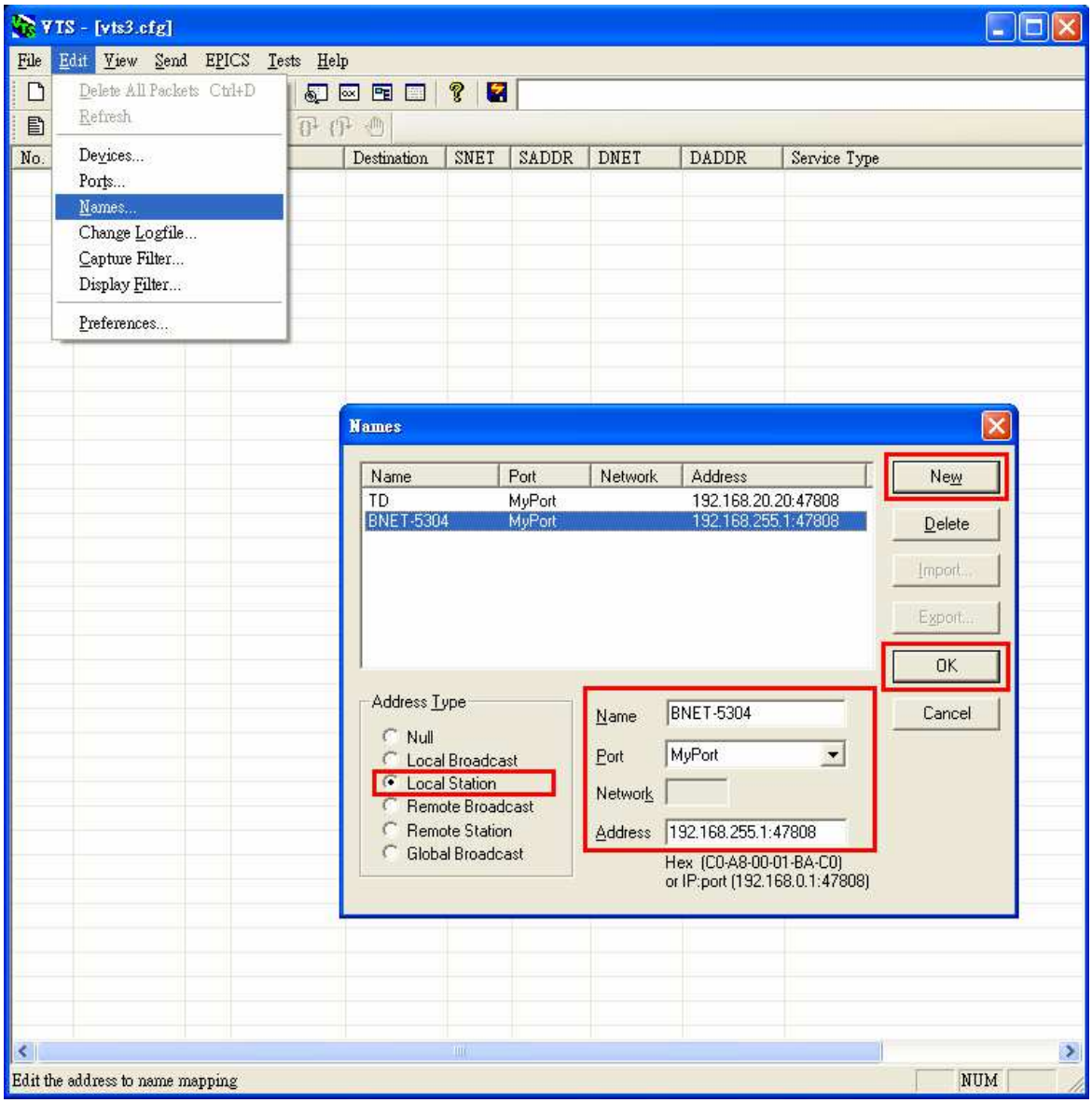


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(6) Click ***Edit→Names…*** , Push ***New*** button and the configuration as follows,

- Address Type choose ***Local Station***
- Name is ***BNET-5304***
- Port choose ***MyPort***
- Address set the IP of BNET-5304: ***192.168.255.1:47808 (BNET-5304's default setting)***
- Push ***OK*** and continue

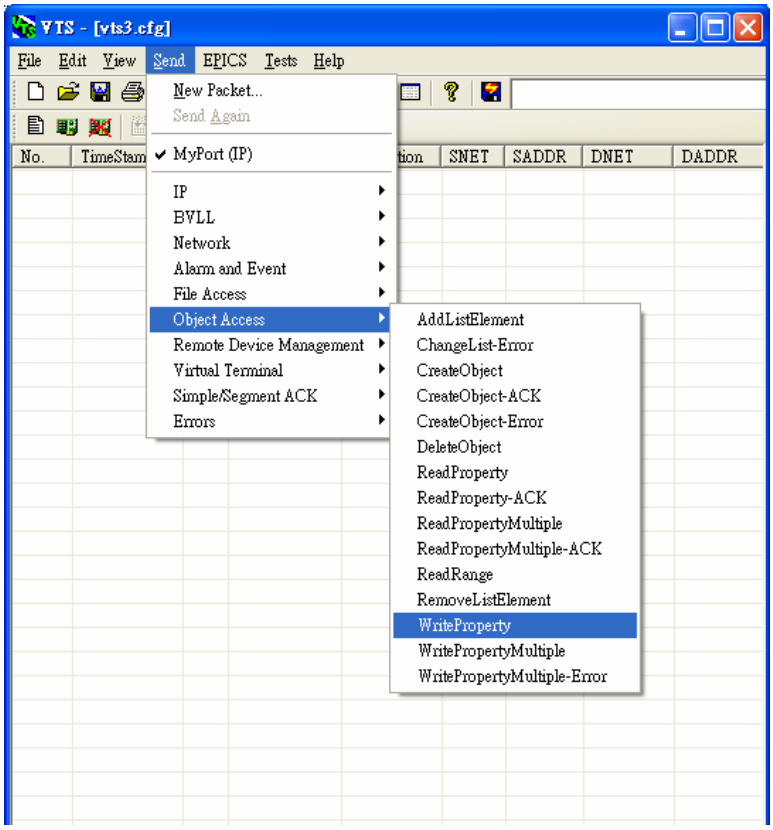
Notice: TD is for your computer, and do not remove it.



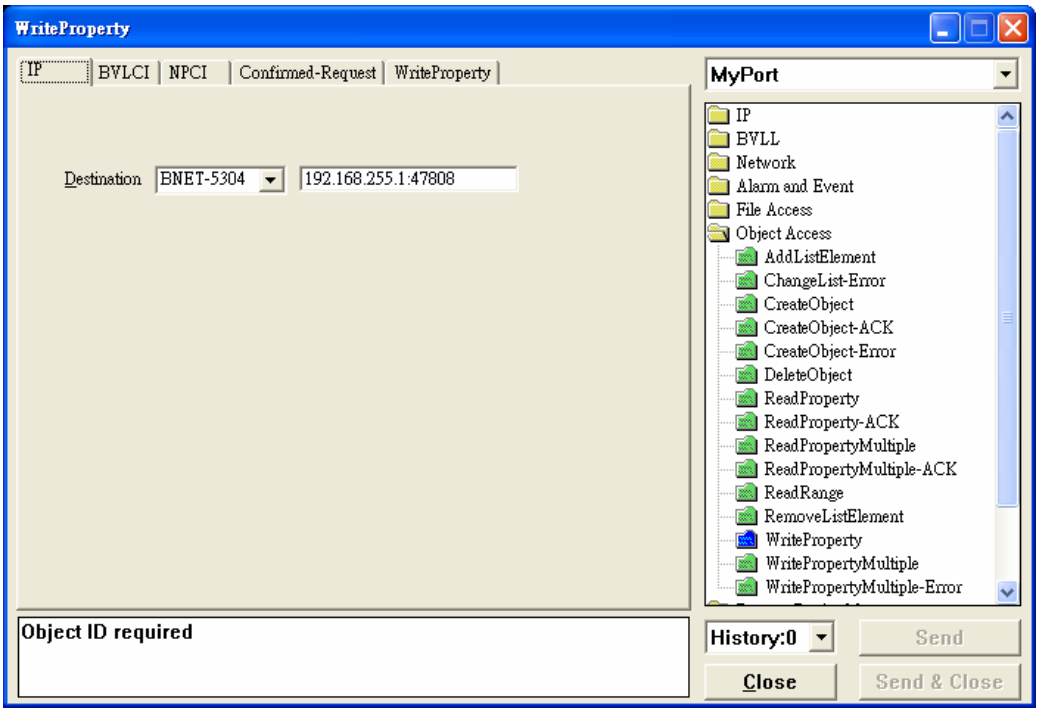
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Activate DO0

(7) Click on ***Send***→***Object Access***→***WriteProperty***, and WriteProperty window shows up.

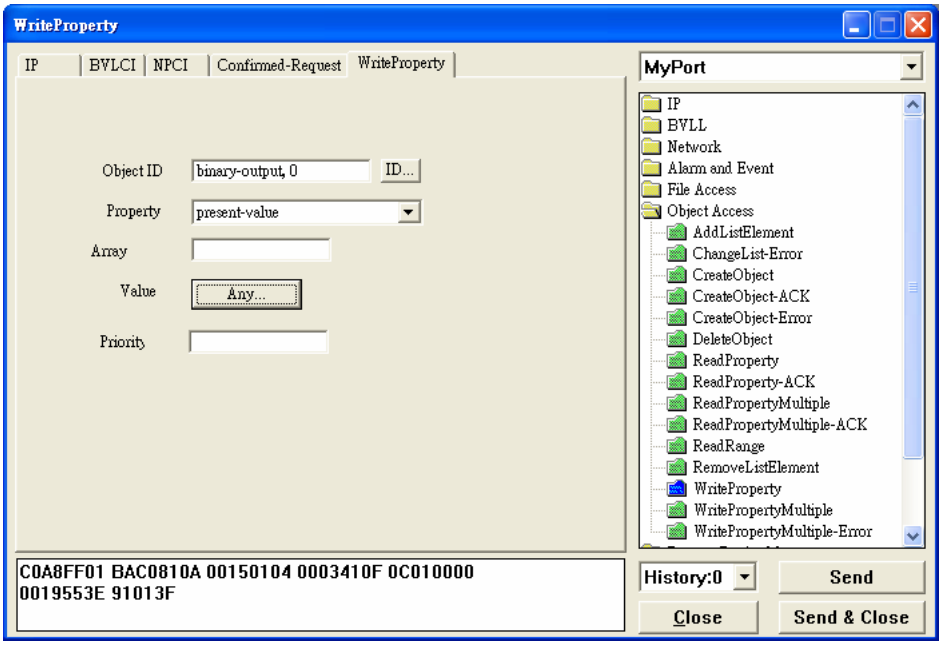


(8) WriteProperty →***IP*** Page：Destination chooses ***BNET-5304***

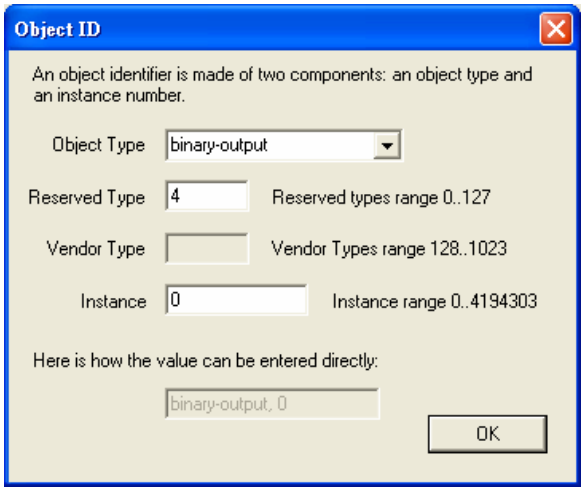


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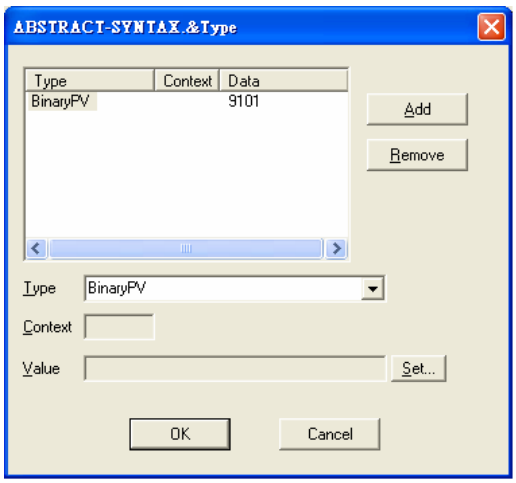
(9) WriteProperty →***WriteProperty*** Page, set ***binary-output, 0***, ***present-value***, ***BinaryPV(active)***, and push ***Send & Close*** button. The steps are described as follows,

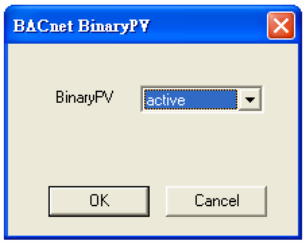


- Object ID: Push ***ID…*** button, and choose ***binary-output***, and instance is ***0*** while BO***0***.



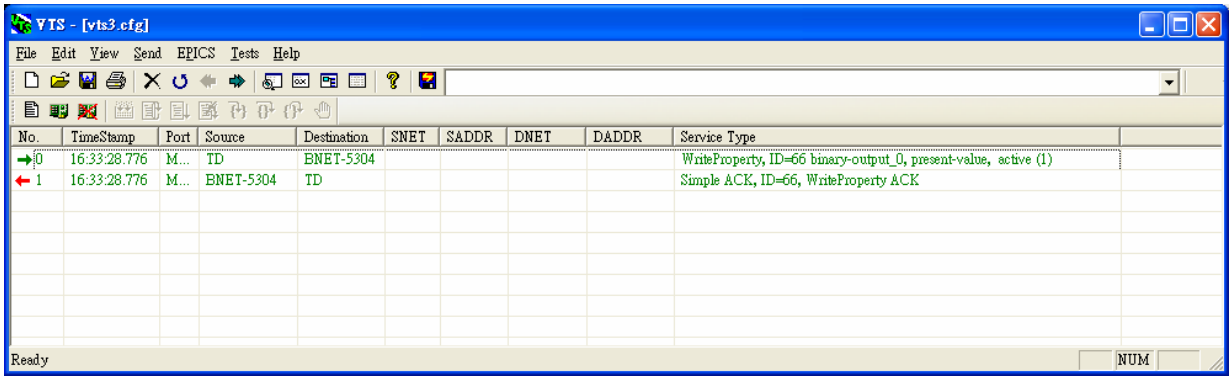
- Property choose ***Present-Value***
- Value: Push ***Any…*** button, and a window shows up. Push ***Add*** button, Choose ***BinaryPV*** and push ***Set…*** and set ***active***.





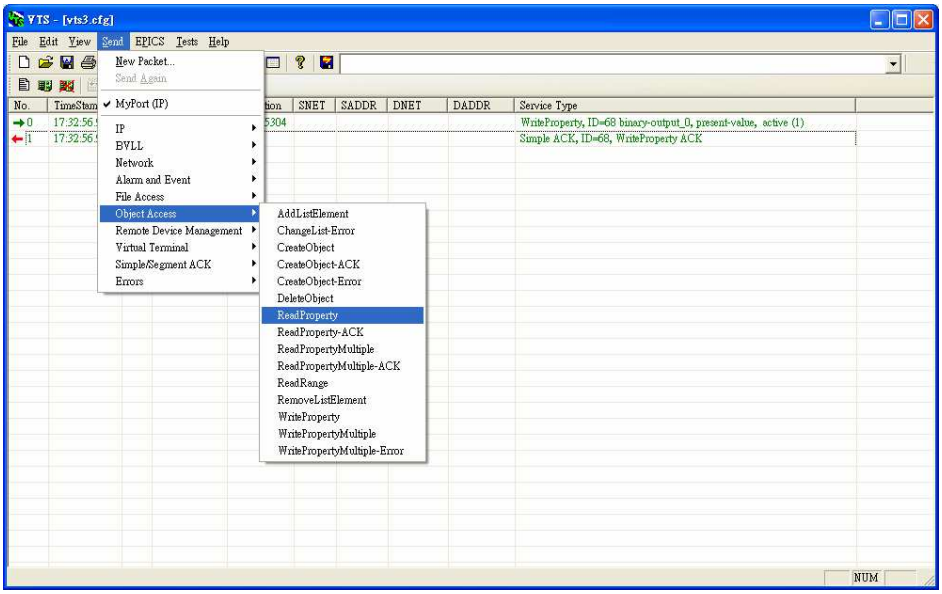
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- Push ***Send & Close*** button, and VTS will show the transmit packets and receive the BNET-5304 feedback one.

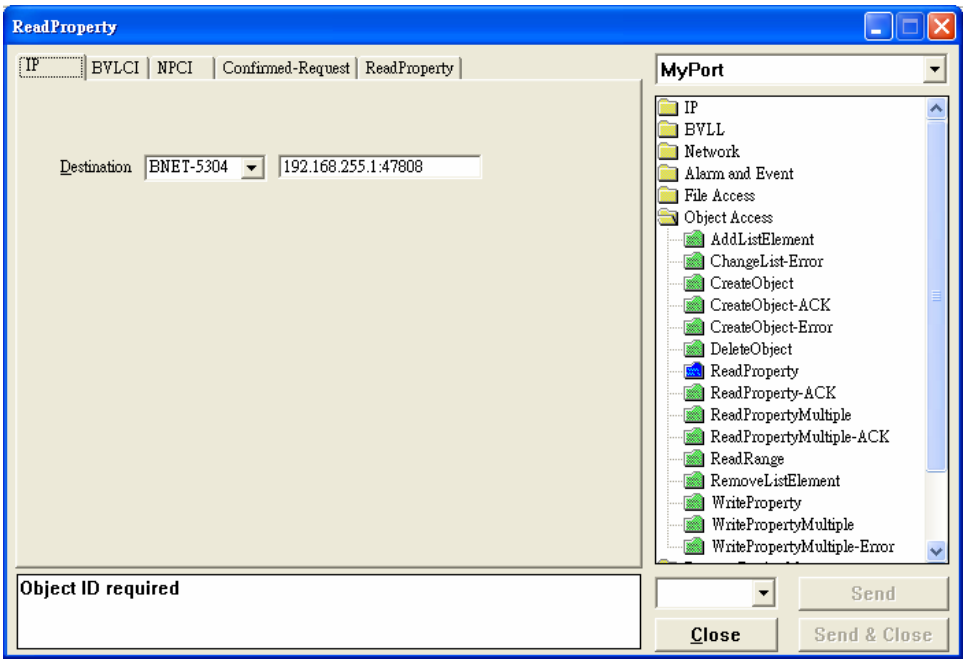


Get DI0 status (***Inactive***)

(10) Click ***Send***→***Object Access***→***ReadProperty***, and ReadProperty window will show up.

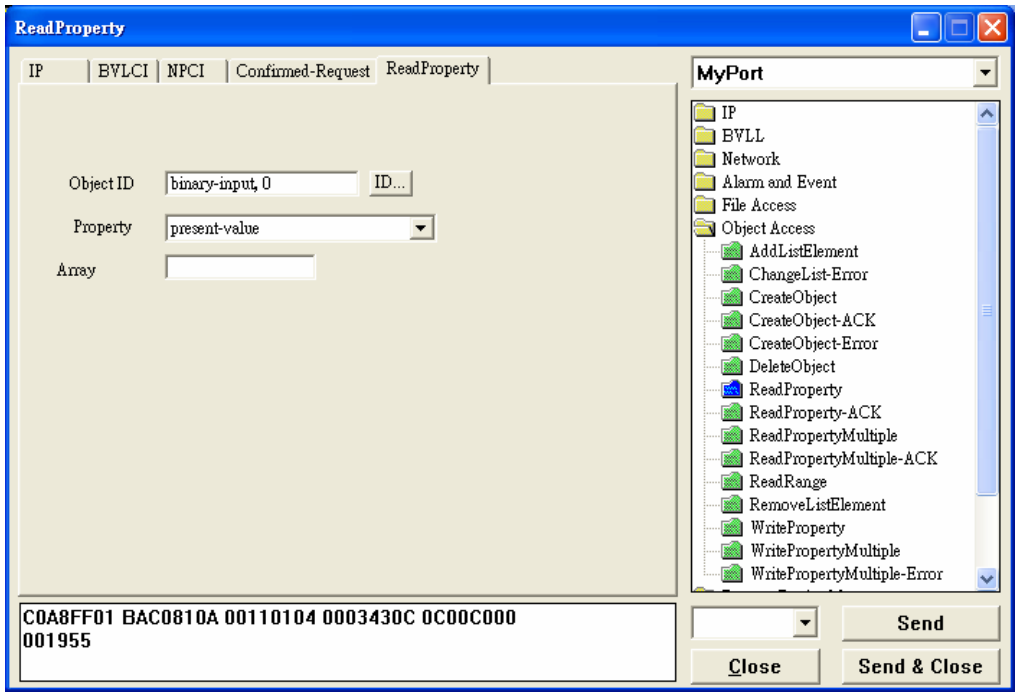


(11) ReadProperty →***IP*** Page: Destination chooses ***BNET-5304***

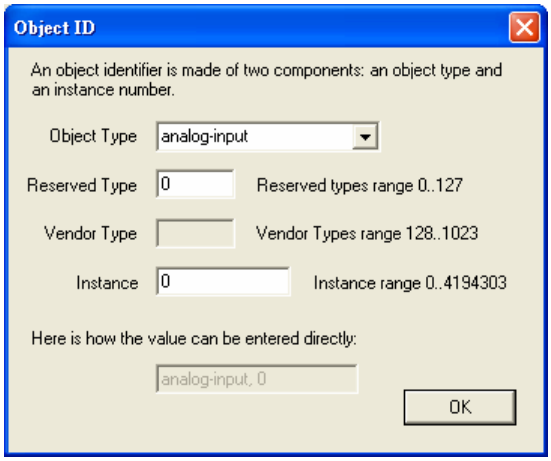


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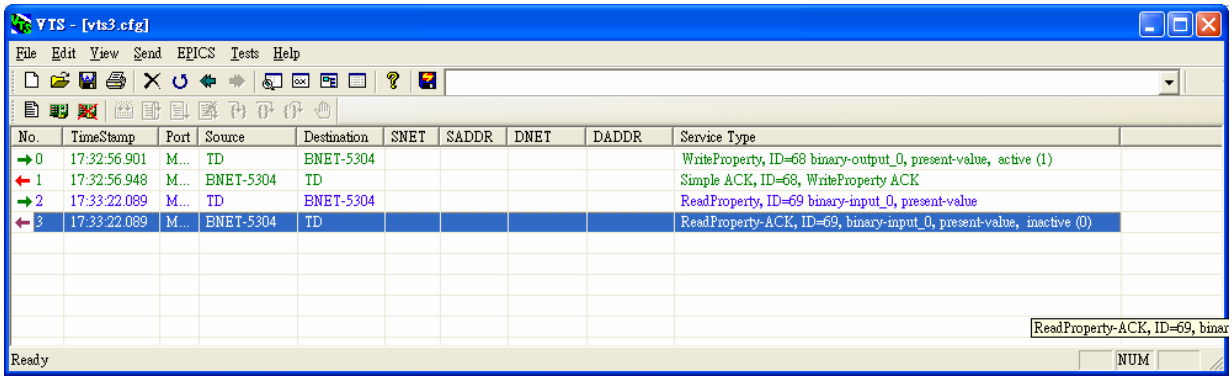
(12) ReadProperty→***ReadProperty*** Page, set ***binary-input, 0*** 、 ***present-value, and push Send & Close*** button. The steps are described as follows,



- Object ID: Push ***ID…*** button and choose ***binary-input***, and instance is ***0*** while BO***0***.



- Property: choose ***Present-Value***
- Push ***Send & Close*** button, and VTS transmits packet and you can confirm that BNET-5304's DI0 is ***Inactive.***
  Notice: BNET-5304's DI is ***Active*** while "Close GND." In this example, BI0 is ***Active*** while BO0 is ***Inactive***.



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