BACnet/IP Gateways

FAQ for GW-549x

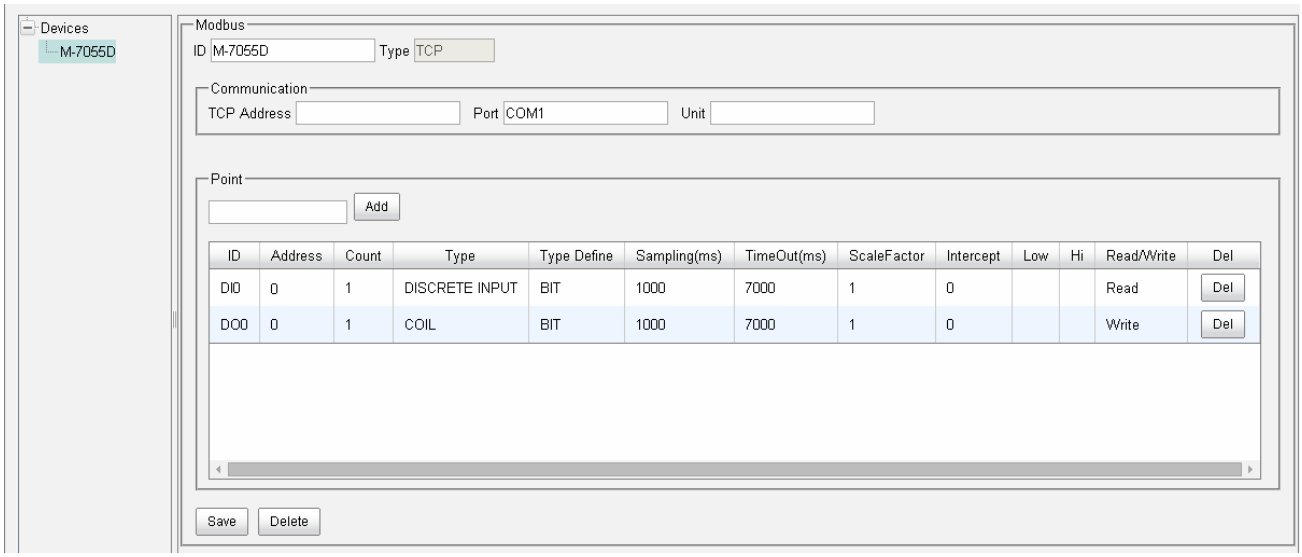
1. How to manipulate GW-549x via ICDT BACnet Pioneer?

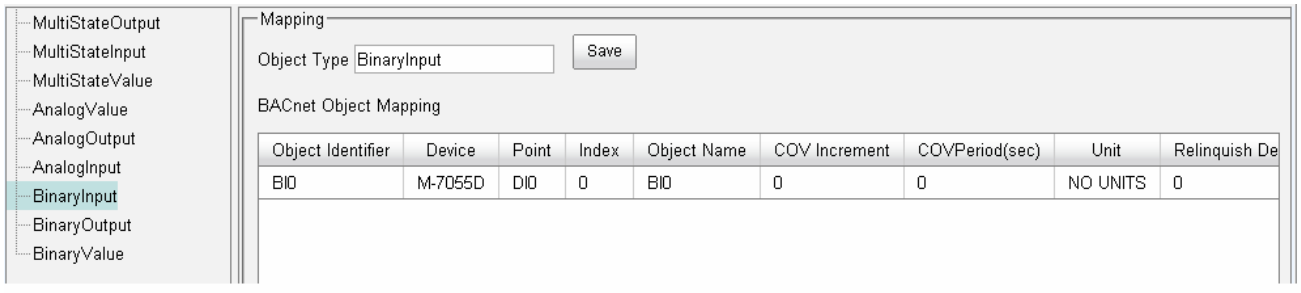
ICDT BACnet Pioneer is a free BACnet software and developed by ICDT Tech. Co. Ltd. The following example is how to switch on the DO[0] and read DI[0] back on the ICPDAS M-7055D, a Modbus/RTU Slave, connected to GW-5492 via ICDT BACnet Pioneer, and you can test GW-5493 in the similar way.

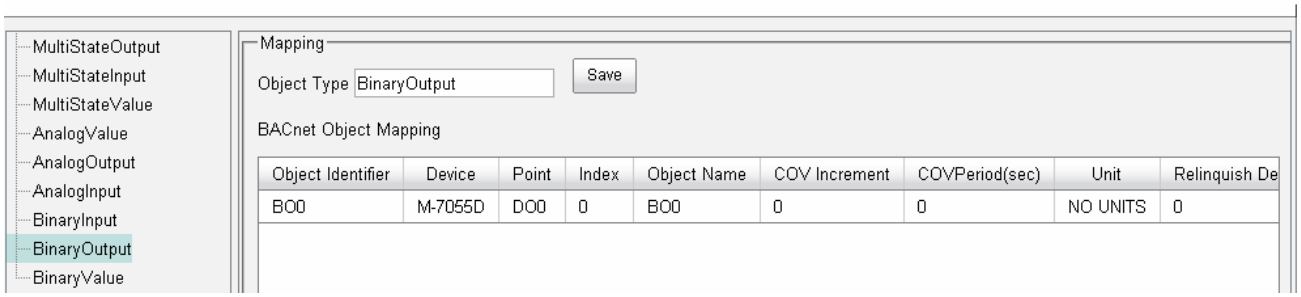
(1) Install the ICDT BACnet Pioneer
http://www.icdt.com.tw/main/index.php/2013-07-09-05-16-50/2013-07-18-14-43-35/file/24-bacnetpioneerv1001
Refer to the ICDT website for the details: http://www.icdt.com.tw

(2) M-7055D Setup as follows, DO.PWR wire to ***Power Supply +24VDC***, GND to ***Power Supply Ground***, and DO0 to DI0. Power up M-7055D and GW-5492 which LAN1 connects to the internet.

(3) GW-5492 is configured that ***BO0*** is mapping to DO0 of M-7055D and ***BI0*** is mapping to DI0 of M-7055D







Refer to the websites for details:

GW-549x：

http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/bacnet_ip/gateway/gw-5492.html

ftp://ftp.icpdas.com.tw/pub/cd/fieldbus_cd/bacnet/gateway/gw-5493/manual

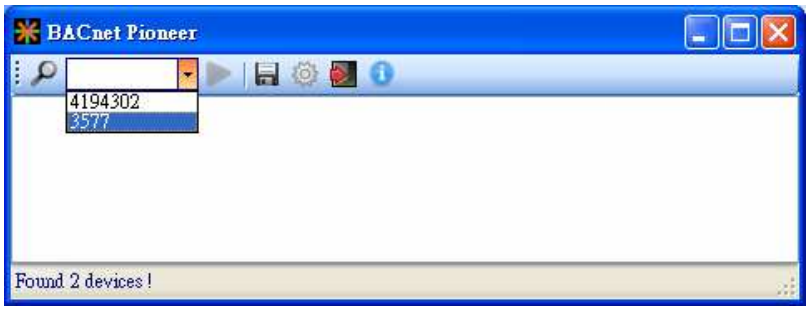
M-7055D：

http://www.icpdas.com/root/product/solutions/remote_io/rs-485/i-7000_m-7000/i-7055.html

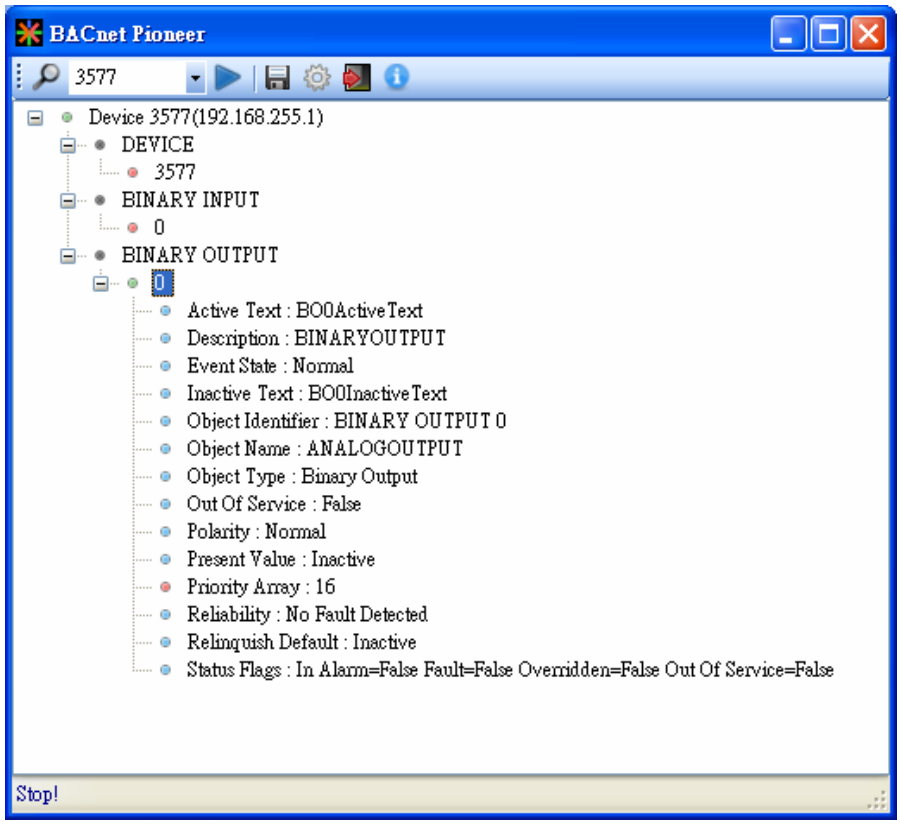
http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/7000dio.pdf

(4) Execute 

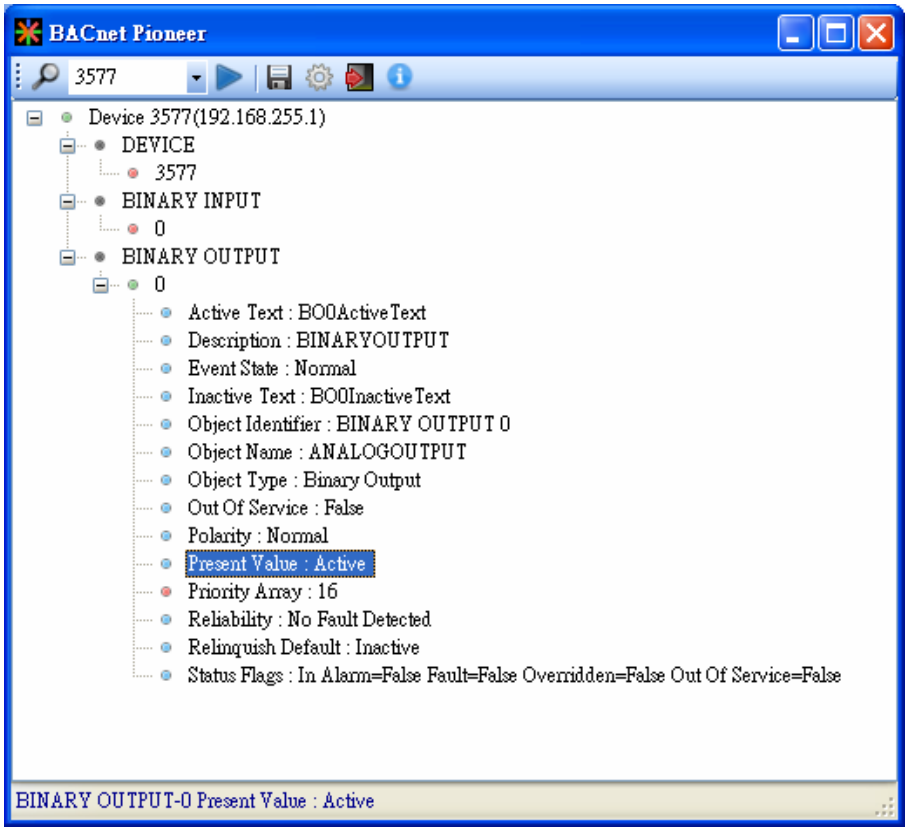
to get the Device ID/Instance of your computer and GW-5492 (default 3577). Choose ***3577***,



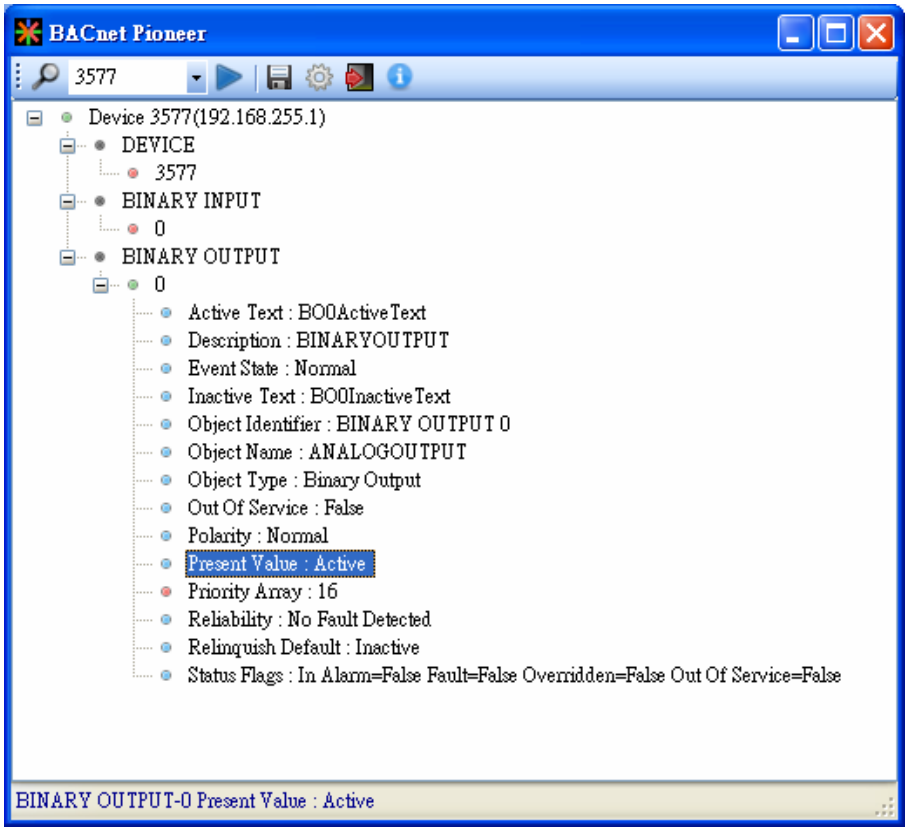
(5) Click on ***Device 3577(……)***, and it will scan the objects of GW-5492.



(6) Click on ***BINARY OUTPUT→0***, and it will scan the properties and values of ***BO0***. Notice ***Out Of Service*** is ***False.***

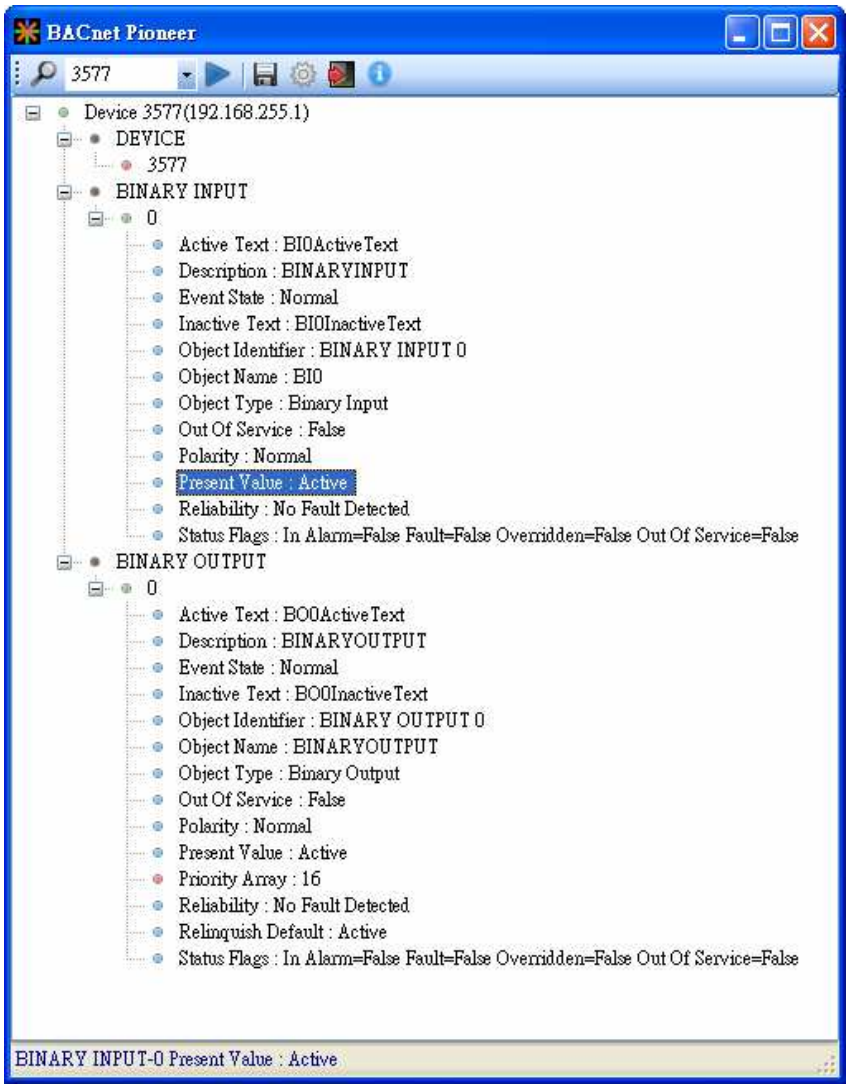


(7) Double Click on the item ***Present Value***, and set BO0 to ***Active***.



(8) Click on ***BINARY INPUT→0→Present Value***, and check the status of BI0 is ***Active***.

- Notice ***Out Of Service*** is ***False***
- In the ICDT Pioneer, the data will be updated while you click and stay on the item.



2. How to manipulate GW-549x via BACnet VTS?

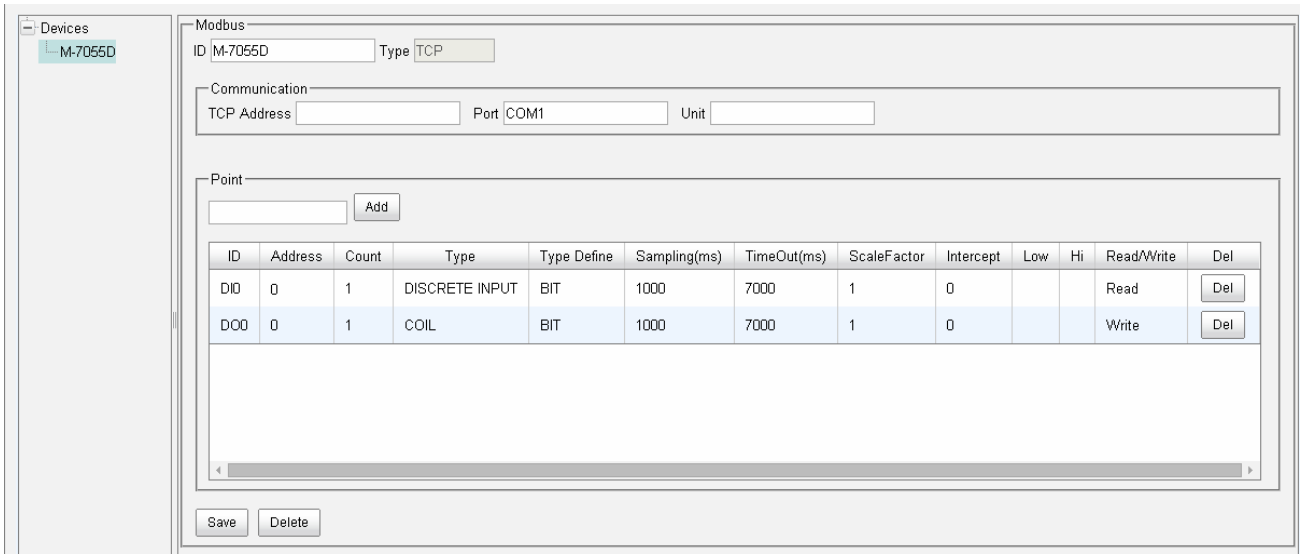
This part is The following example is how to switch on the DO[0] and read DI[0] back on ICPDAS M-7055D, a Modbus/RTU Slave, connected to GW-5492 via Visual Test Shell (VTS), and you can test GW-5493 with Modbus/TCP Slave in the similar way.

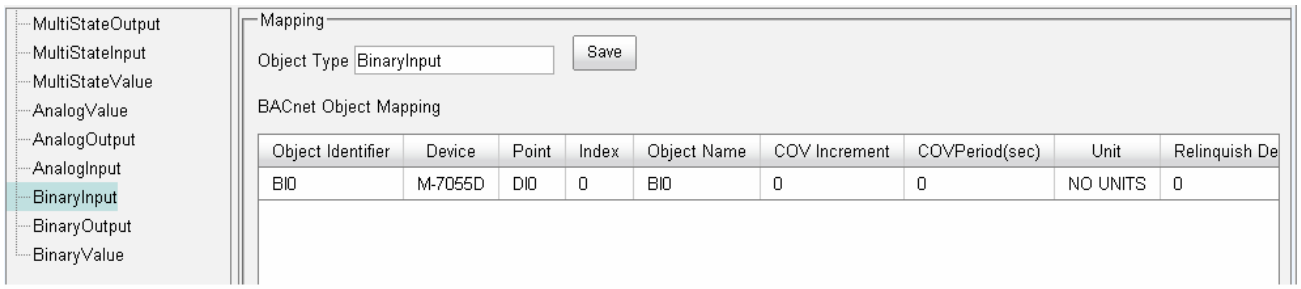
(1) Get Visual Test Shell (VTS). Refer to the websites,

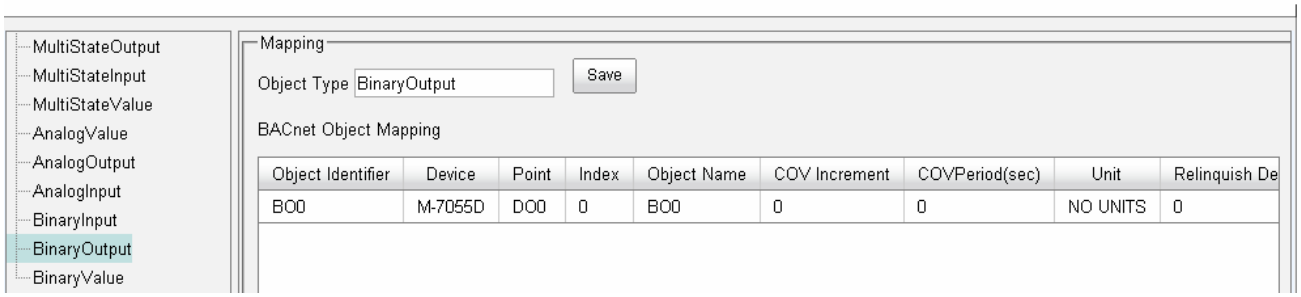
http://vts.sourceforge.net/ or http://sourceforge.net/projects/vts

(2) M-7055D Setup as follows, DO.PWR wire to ***Power Supply +24VDC***, GND to ***Power Supply Ground***, and DO0 to DI0. Power up M-7055D and GW-5492 which LAN1 connects to the internet.

(3) GW-5492 is configured that ***BO0*** is mapping to DO0 of M-7055D and ***BI0*** is mapping to DI0 of M-7055D







Refer to the websites for details:

GW-549x：

http://www.icpdas.com/root/product/solutions/industrial_communication/fieldbus/bacnet_ip/gateway/gw-5492.html

ftp://ftp.icpdas.com.tw/pub/cd/fieldbus_cd/bacnet/gateway/gw-5493/manual

M-7055D：

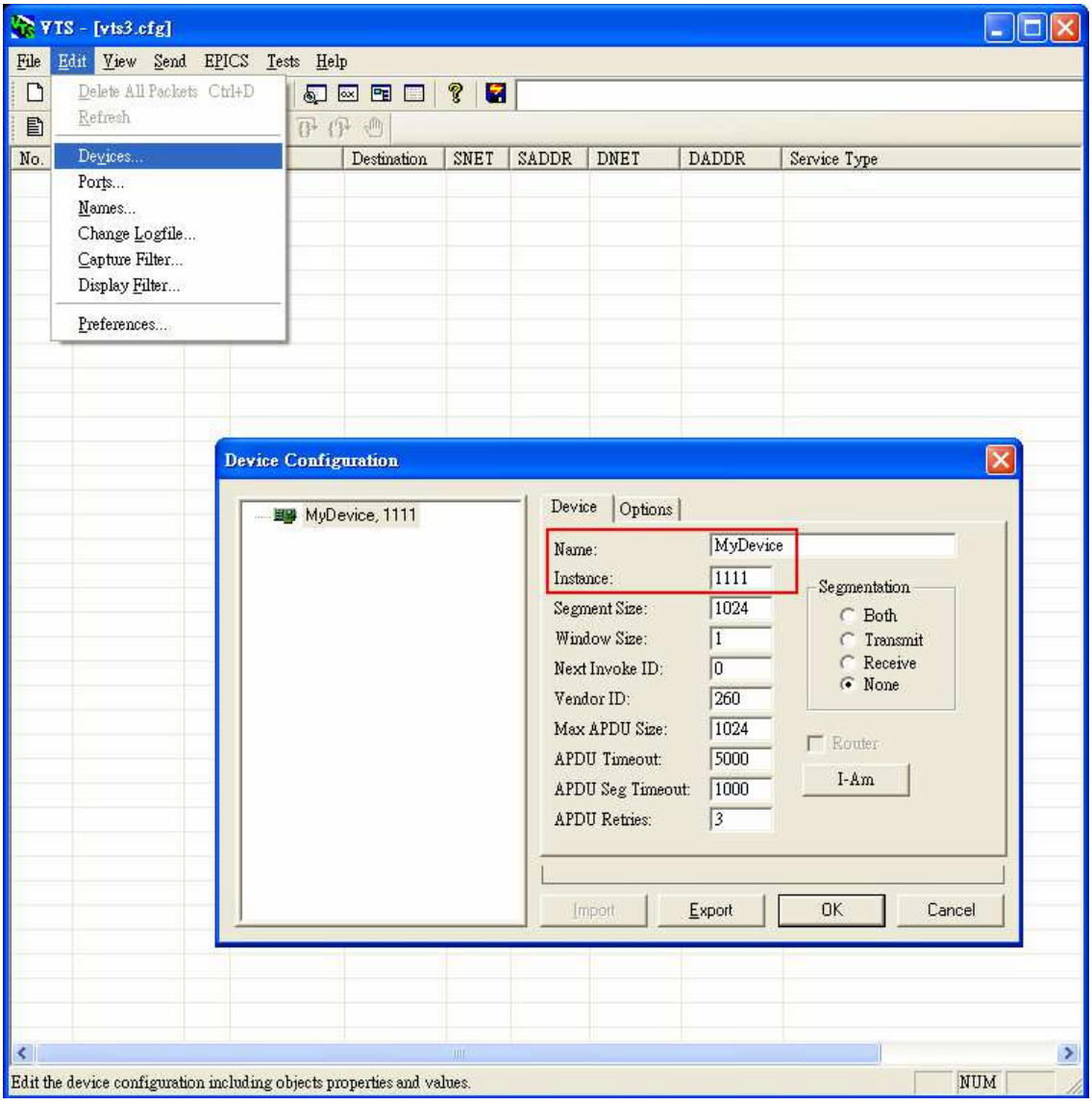
http://www.icpdas.com/root/product/solutions/remote_io/rs-485/i-7000_m-7000/i-7055.html

http://ftp.icpdas.com/pub/cd/8000cd/napdos/7000/manual/7000dio.pdf

(4) Execute 

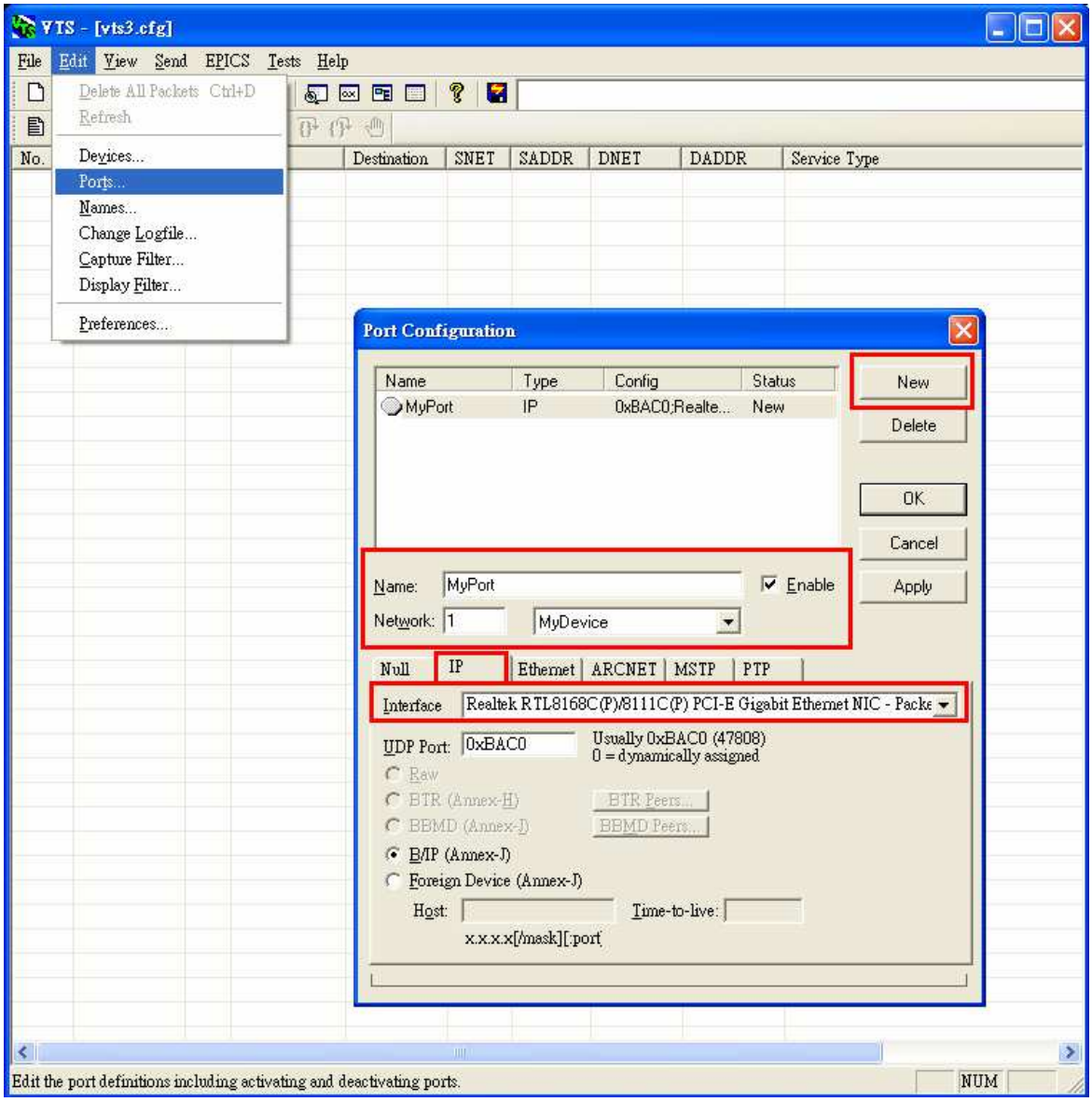
. If you've configured the Devices, Ports and Names in VTS, you can jump to step(8).

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



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

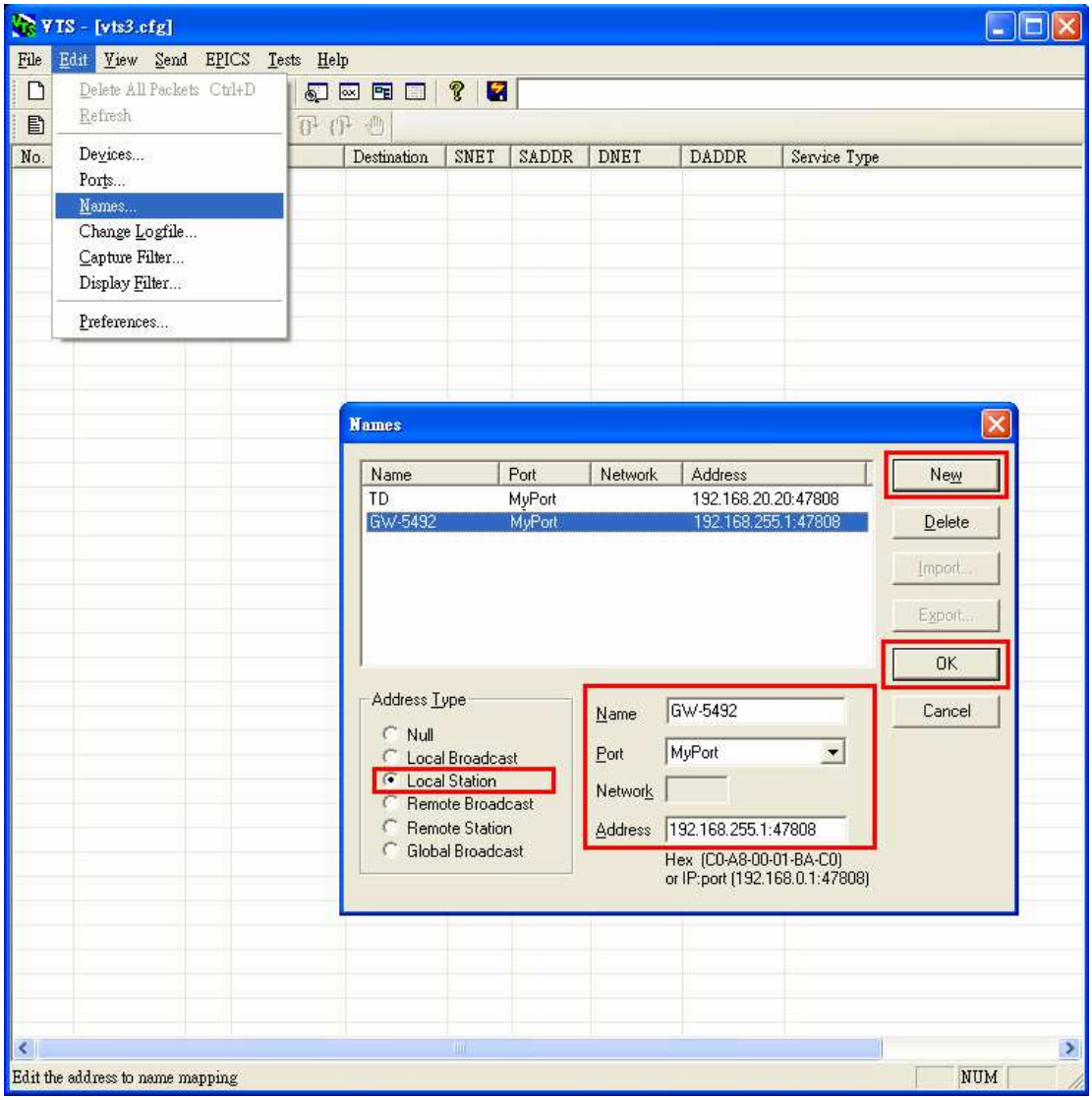
- Name set to ***MyPort***. Check on ***Enable***
- Network set to ***1***. Choose ***MyDevice***
- On ***IP*** Page, ***Interface*** choose one network device which can communicate with GW-5492
- Push ***OK*** or ***Apply*** to continue



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

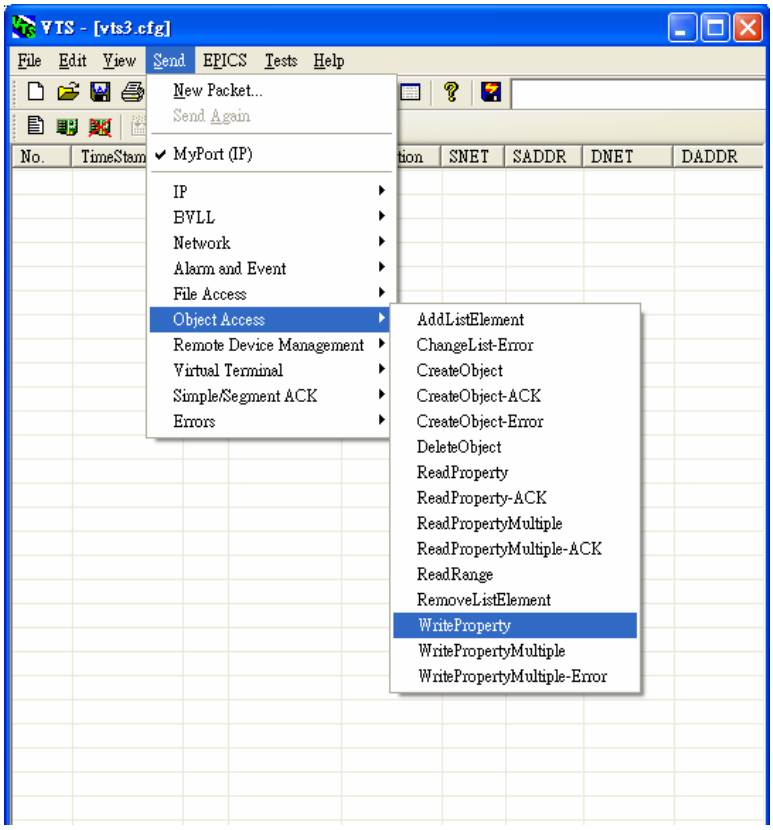
- Address Type choose ***Local Station***
- Name is ***GW-5492***
- Port choose ***MyPort***
- Address set the IP of GW-5492: ***192.168.255.1:47808 (GW-5492's default setting)***
- Push ***OK*** and continue

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

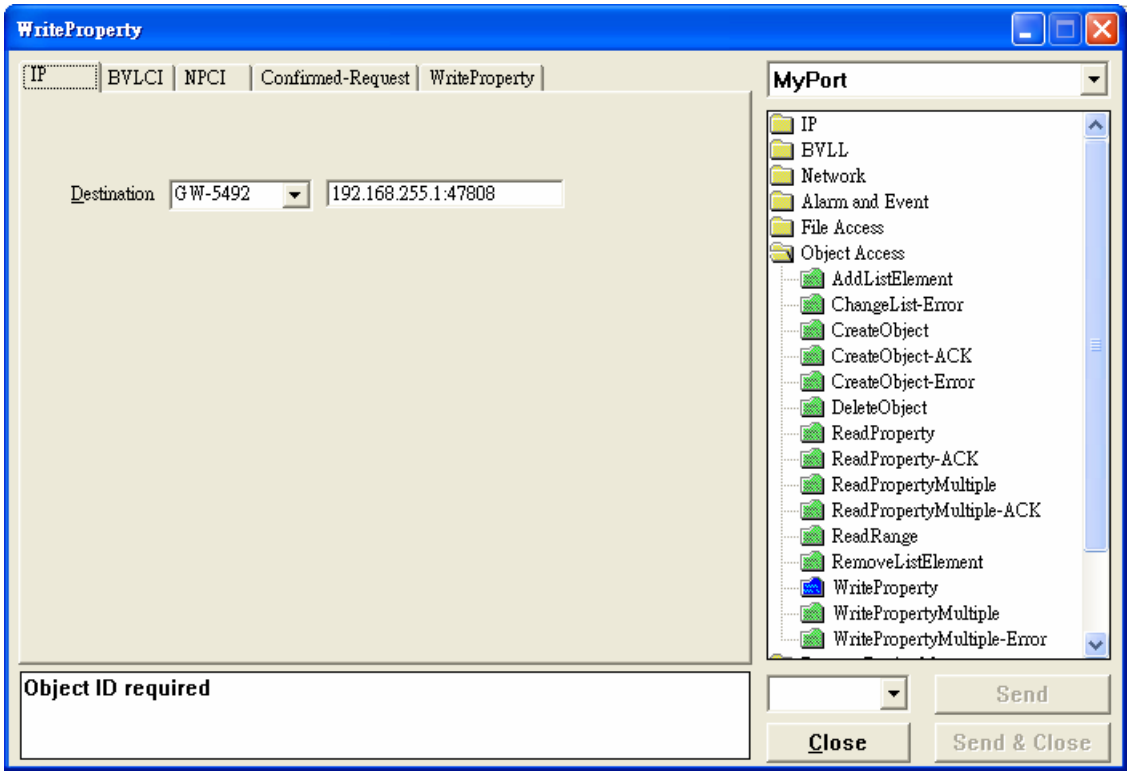


Activate DO0

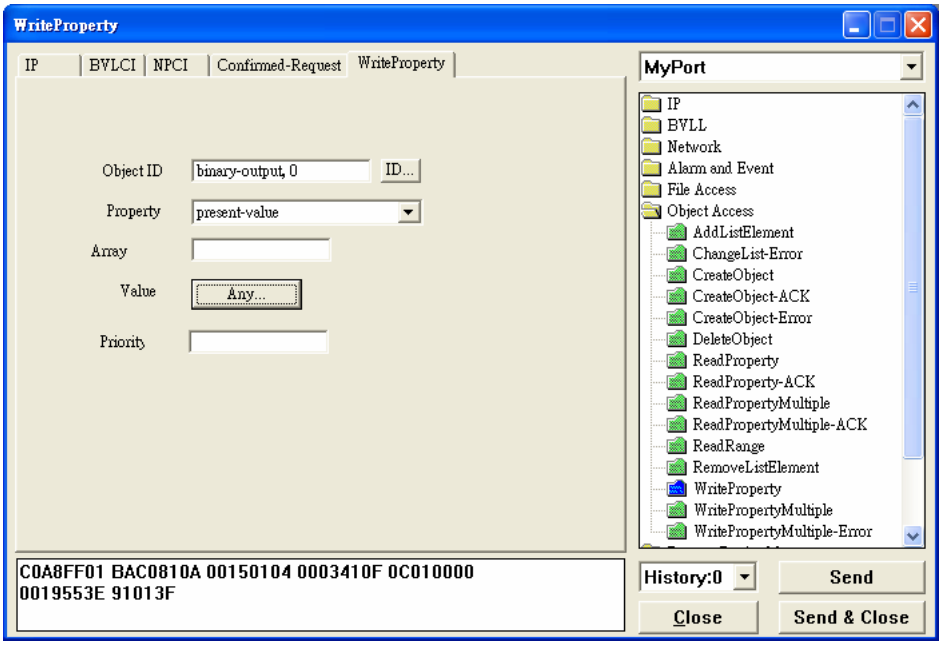
(8) Click on ***Send***→***Object Access***→***WriteProperty***, and WriteProperty window shows up.



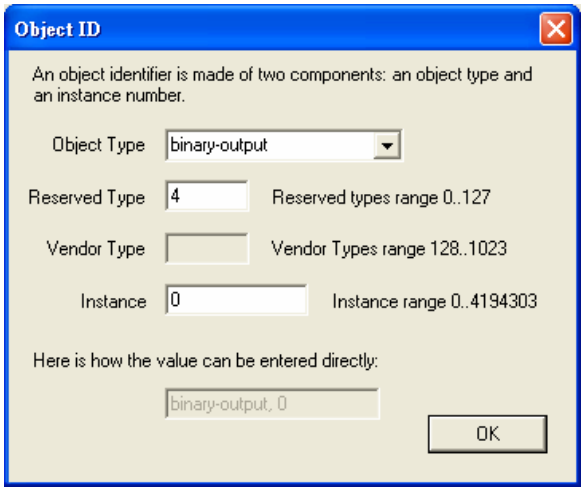
(9) WriteProperty →***IP*** Page：Destination chooses ***GW-5492***



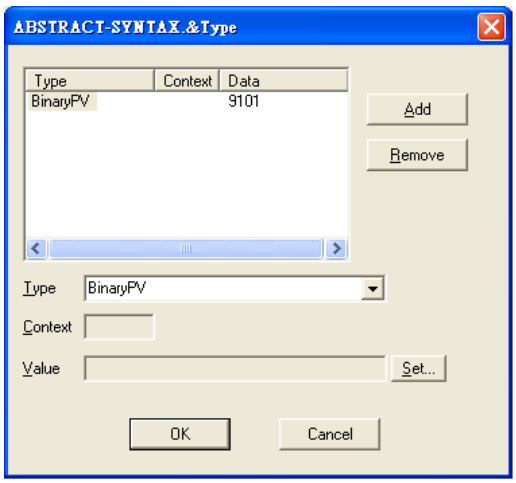
(10)WriteProperty →***WriteProperty*** Page, set ***binary-output, 0***, ***present-value***, ***BinaryPV(active)***, and push ***Send & Close*** button. The steps are described as follows,

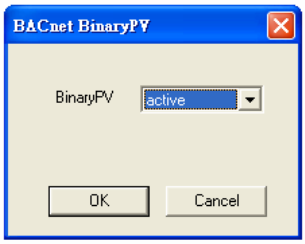


- Object ID: Push ***ID…*** button, and choose ***binary-output***, and instance is ***0*** while BO***0***.

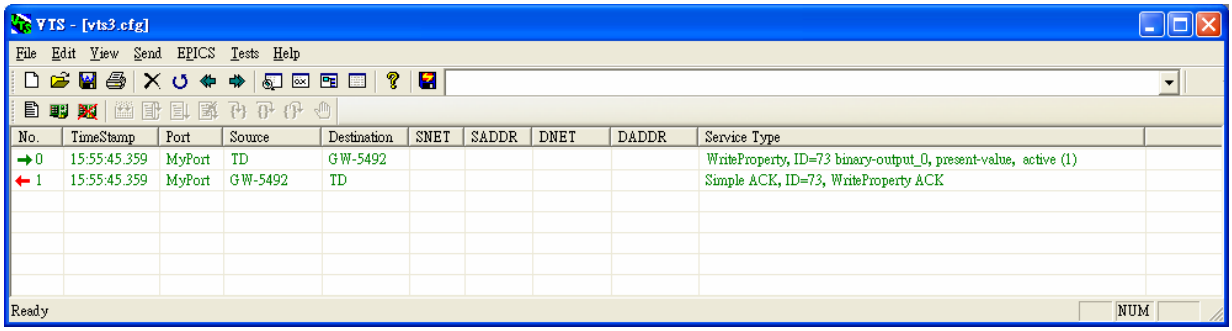


- Property choose ***Present-Value***
- Value: Push ***Any…*** button, and a window shows up. Choose ***BinaryPV*** and push ***Set…*** and set ***active***.



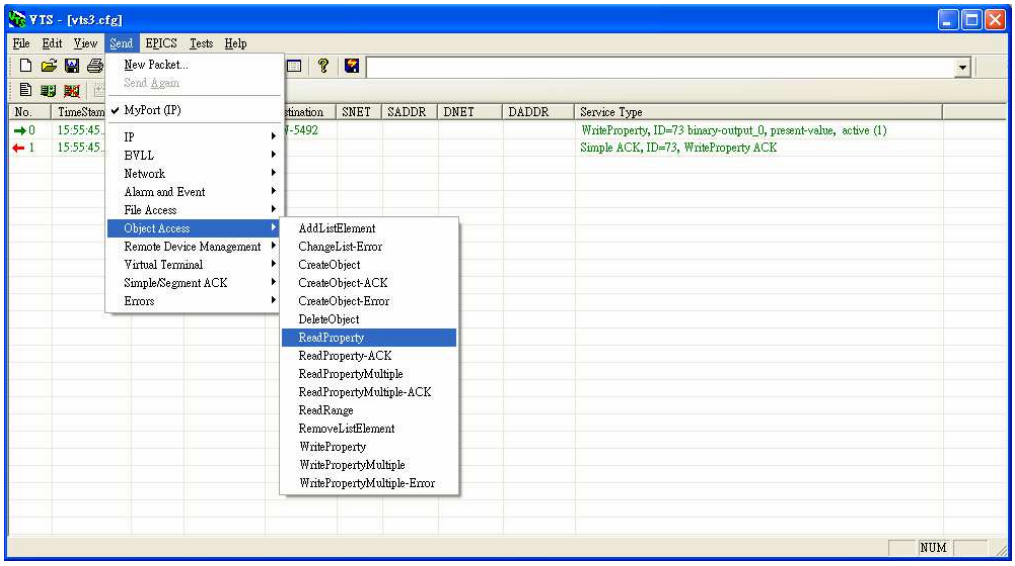


- Push ***Send & Close*** button, and VTS will show the transmit packets and receive the GW-5492 feedback one.

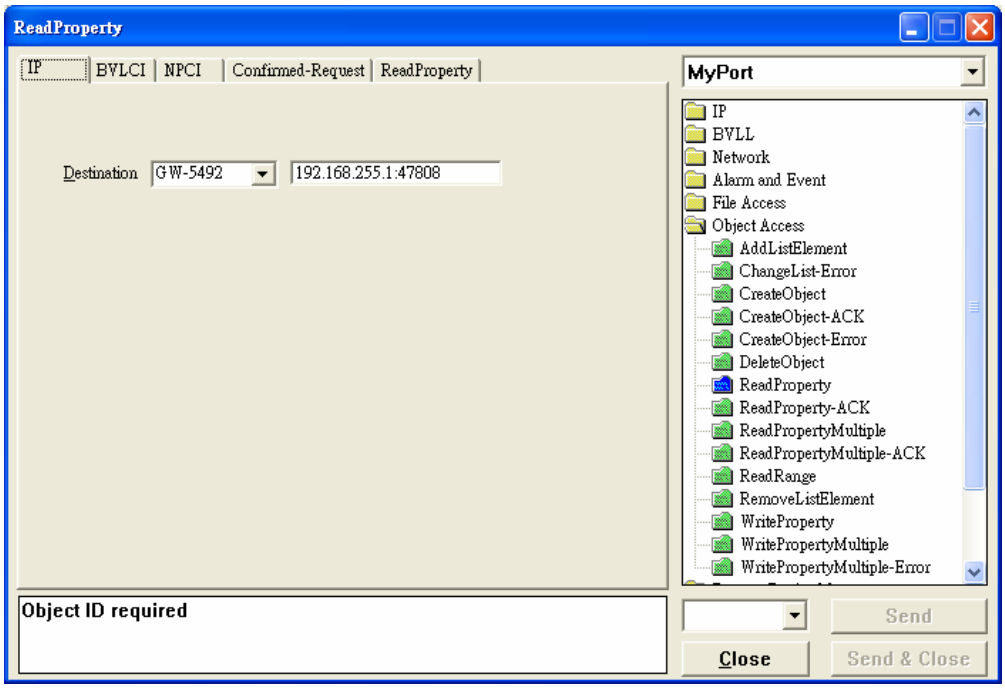


Get DI0 status (***Active***)

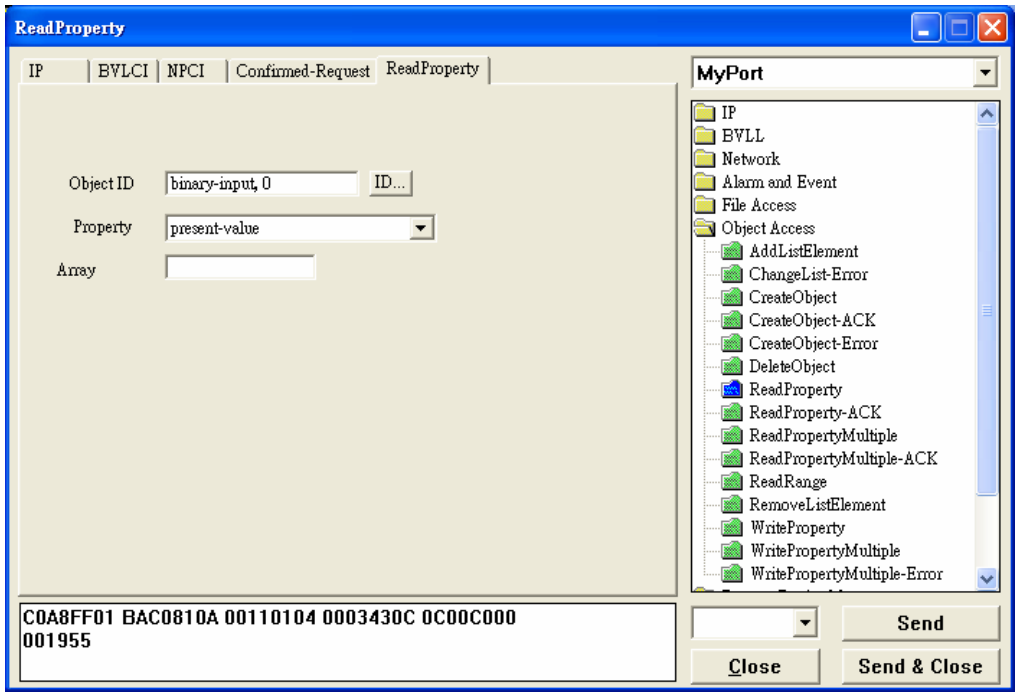
(11) Click ***Send***→***Object Access***→***ReadProperty***, and ReadProperty window will show up.



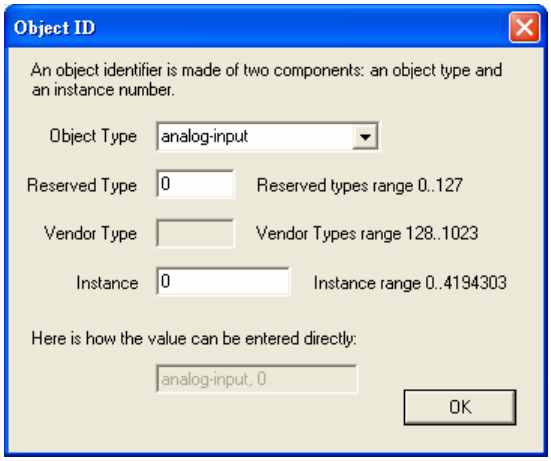
(12) ReadProperty →***IP*** Page: Destination chooses ***GW-5492***



(13) 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 GW-5492's DI0 is ***Active.***