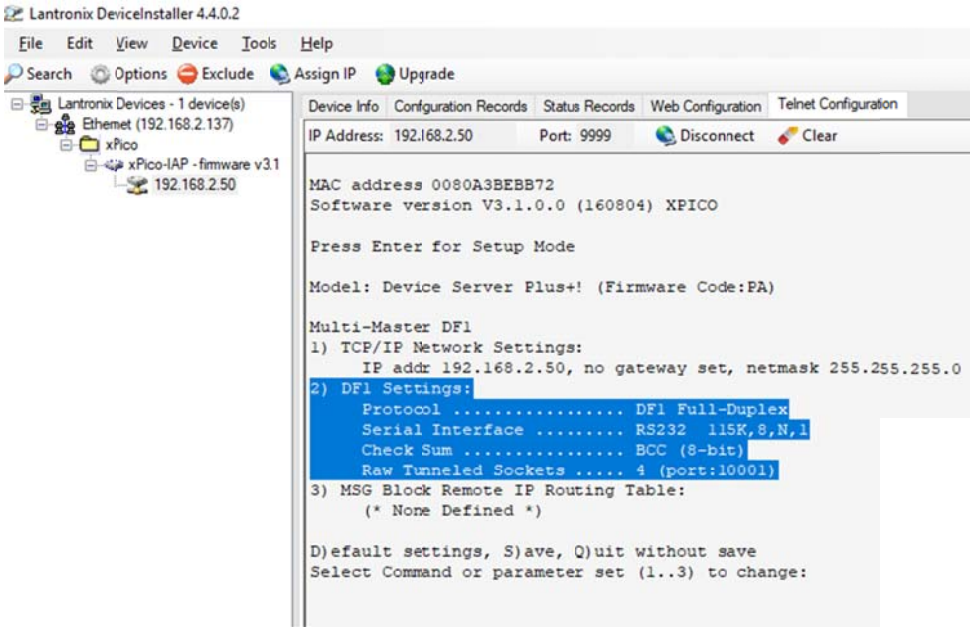
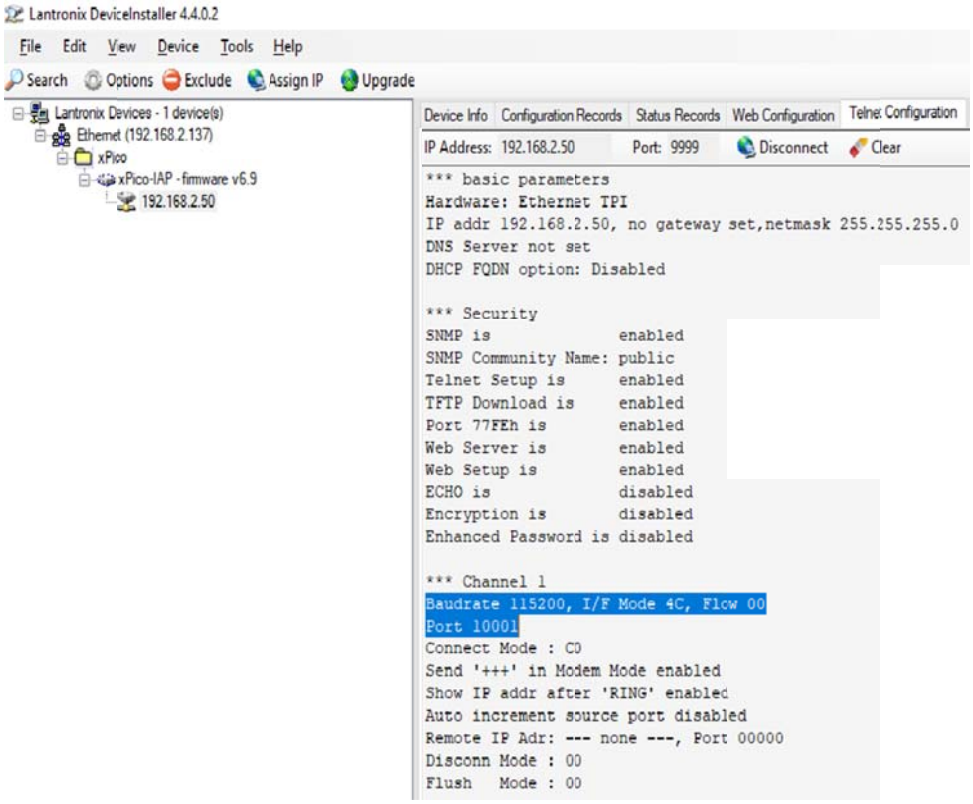
Trihedral VTSCADA setup with DL4500-EDH+ using Allen Bradley DF1 Driver (Tunnelled under Ethernet TCP/IP).

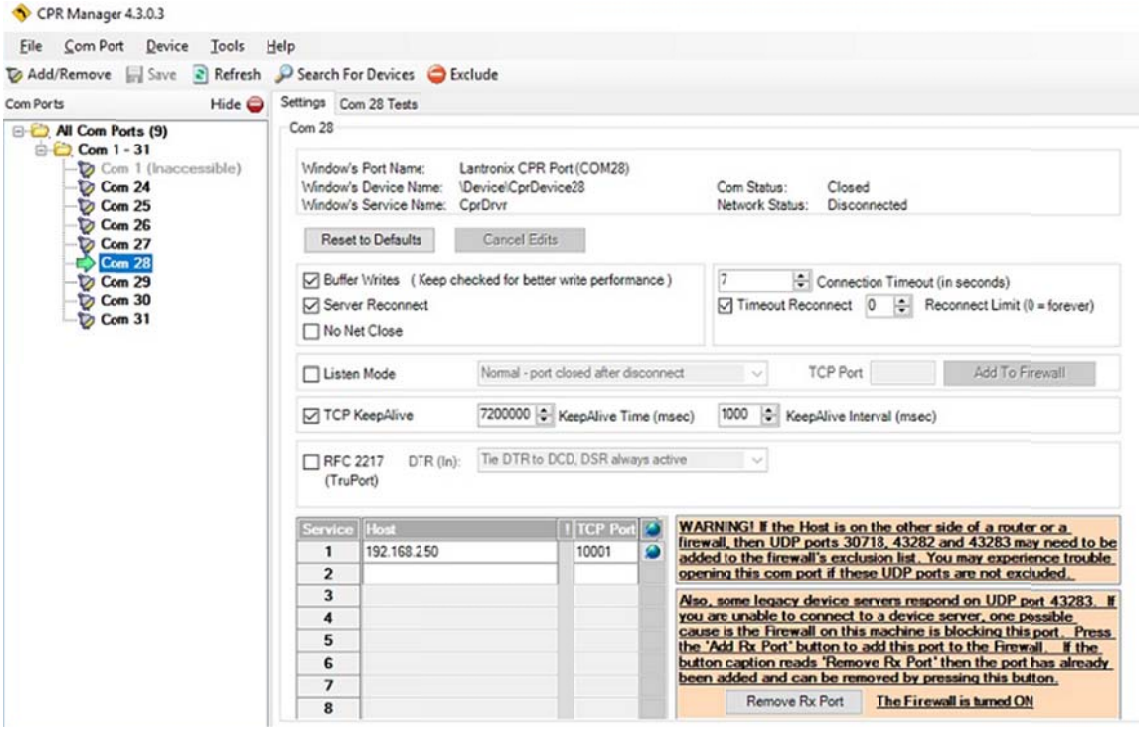
1st make sure you have set up the DL4500 IP address and telnet settings using Lantronix Device Installer
If you have a multi master it should look like similar to those seen below, please make sure the DF1 setting highlighted be exactly same.



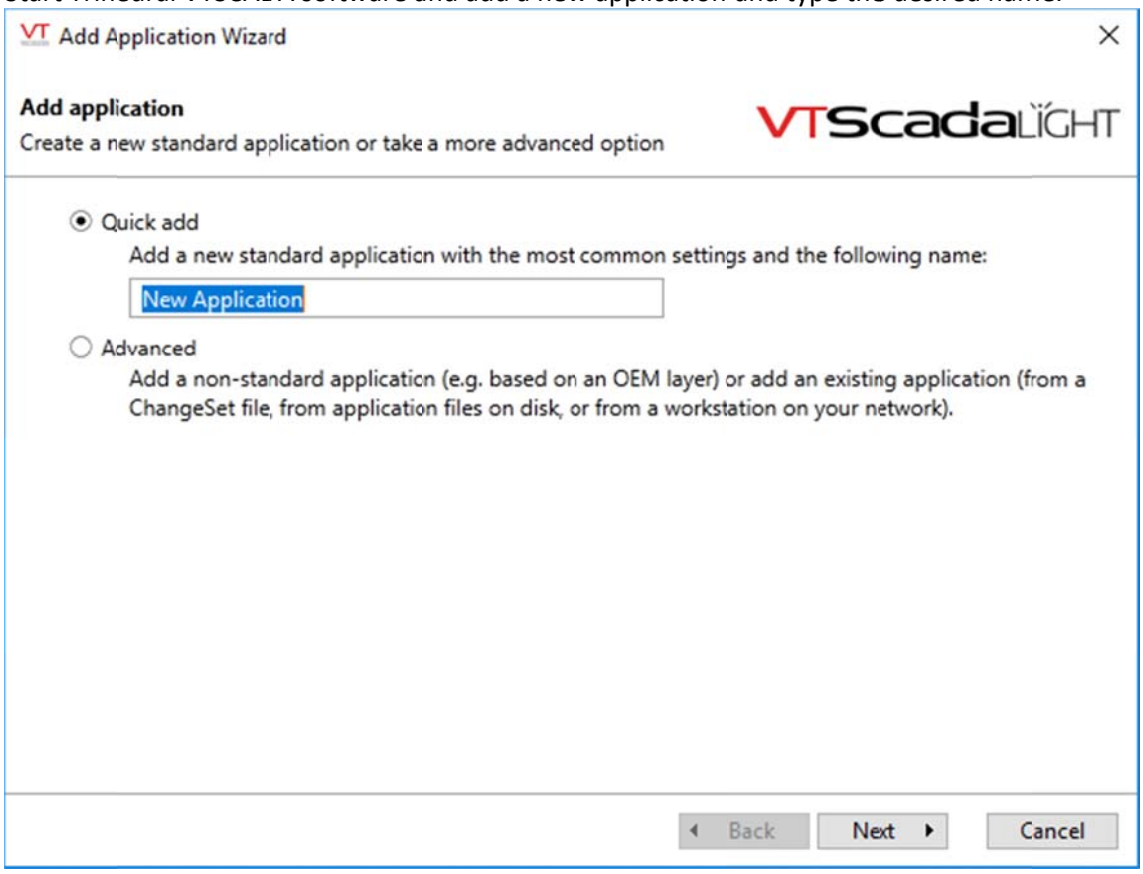
If you have a Standard Tunnel, it should look like similar to those seen below, again please make sure the DF1 setting highlighted be exactly same.

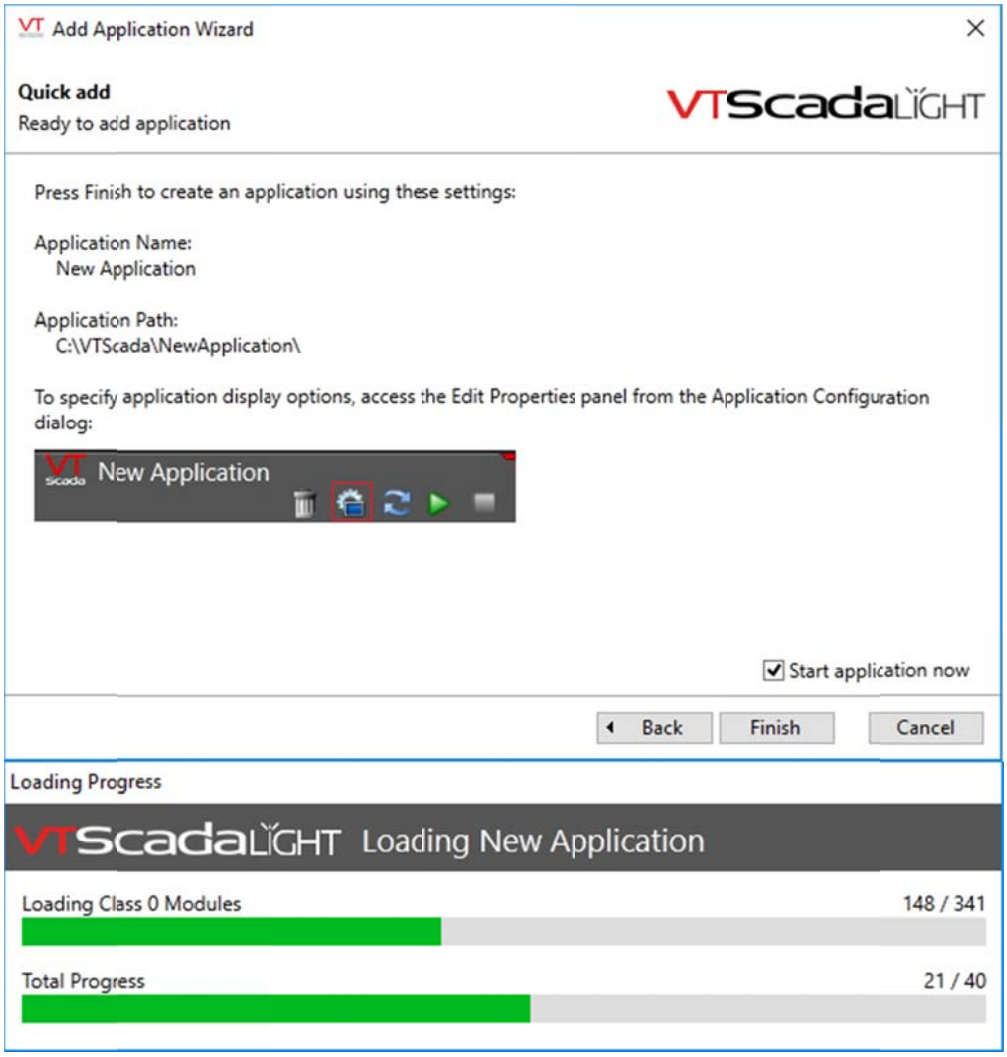


Also make sure that you have added and setup the Comport redirector port similar to that shown below, in our example we have set COM28, it can be any port available in the PC.

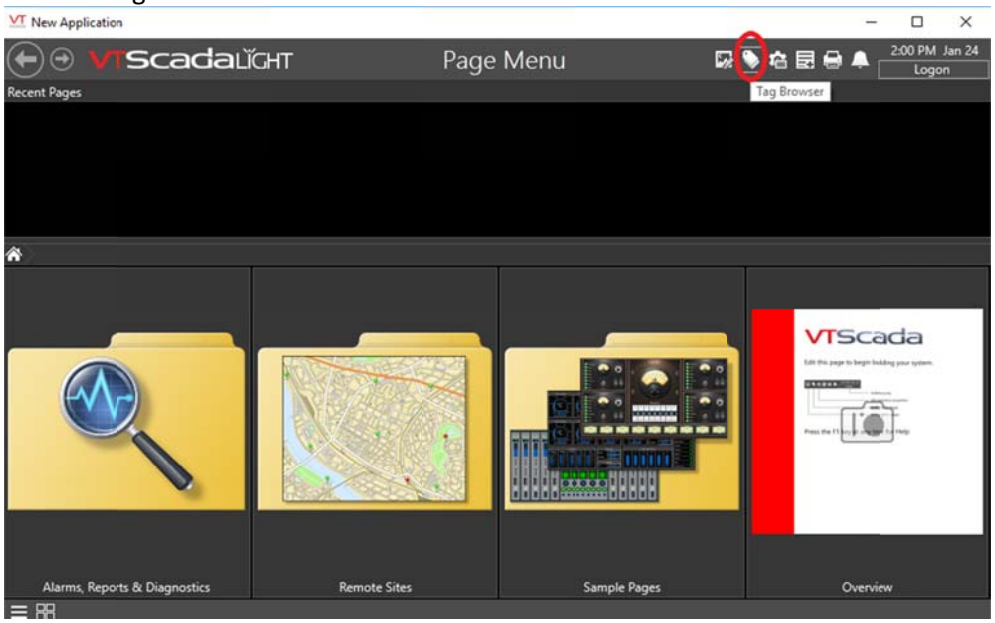


Start Trihedral VTSCADA software and add a new application and type the desired name.

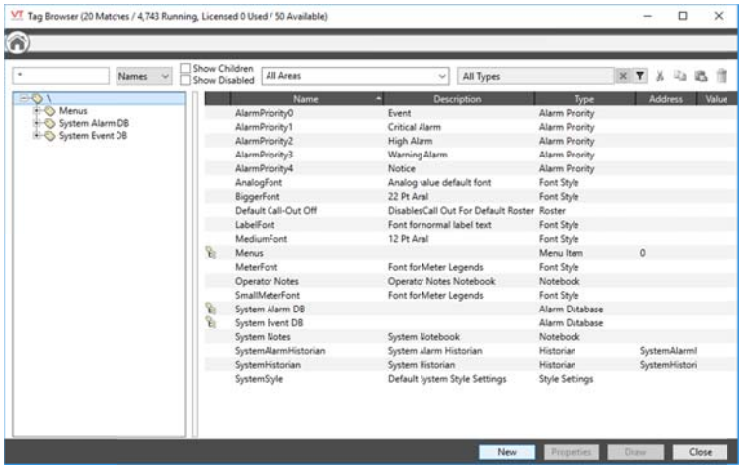




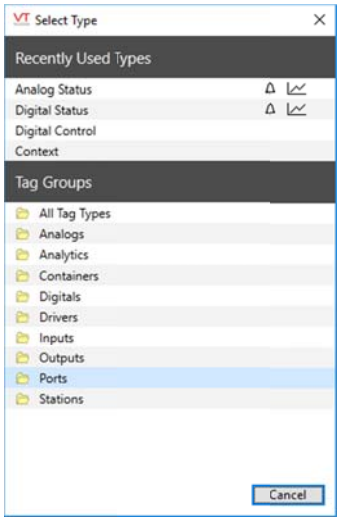
Click on Tag Browser



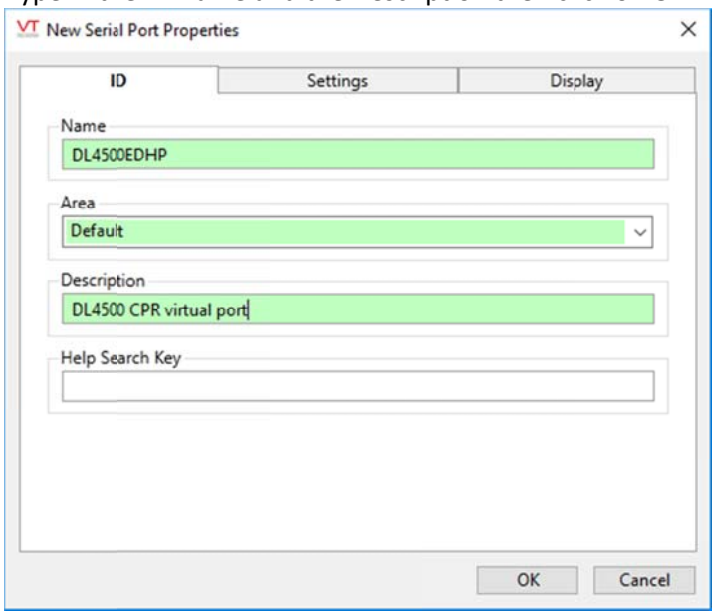
Click on New



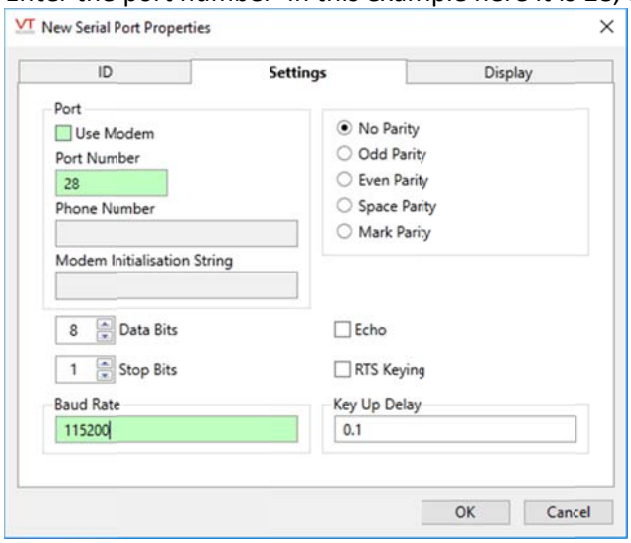
Click on Ports



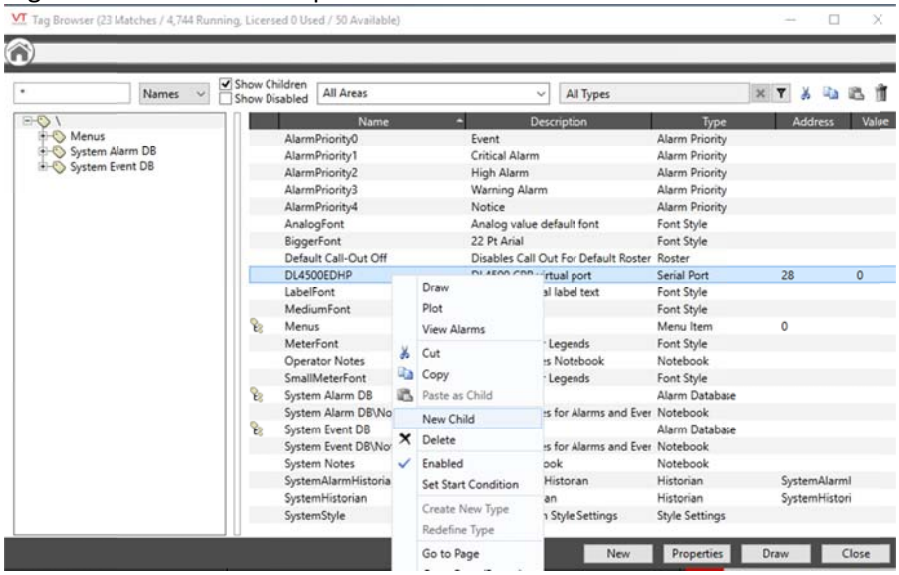
Type in the ID Name and the Description then click on OK



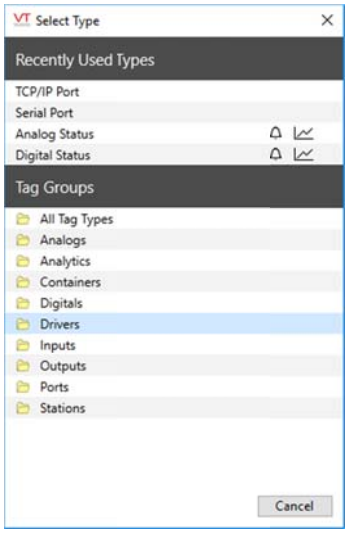
Enter the port number in this example here it is 28, then enter the port settings as shown and click OK.



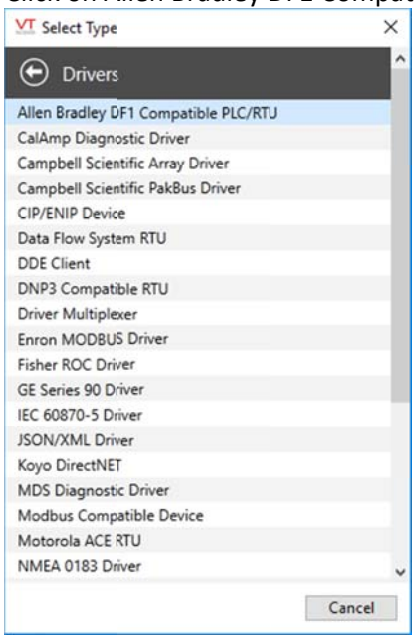
Right click on the created port and click on New Child a shown below.



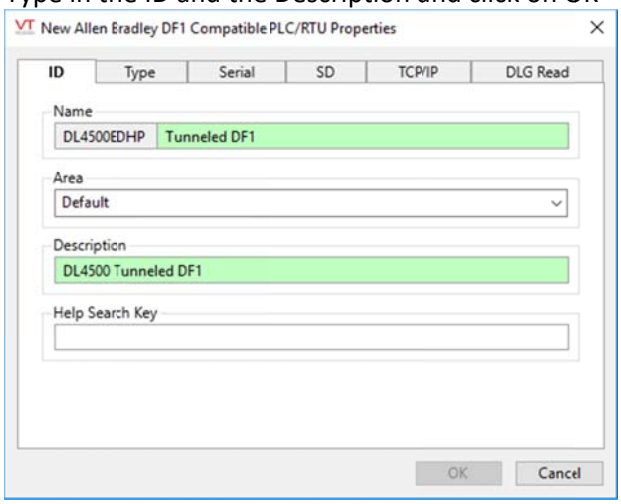
Click on Drivers



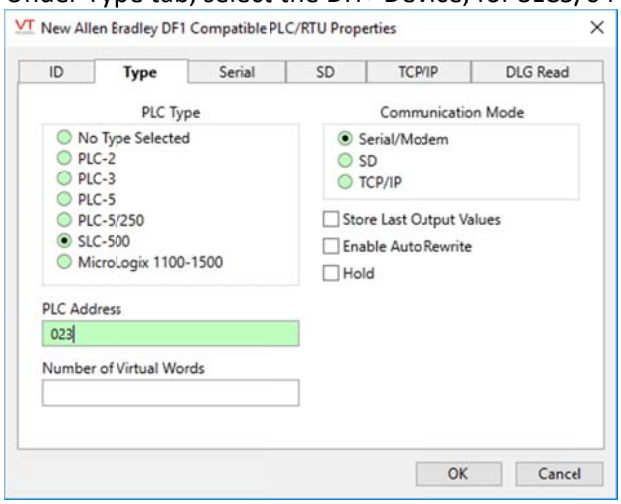
Click on Allen Bradley DF1 Compatible PLC/RTU



Type in the ID and the Description and click on OK

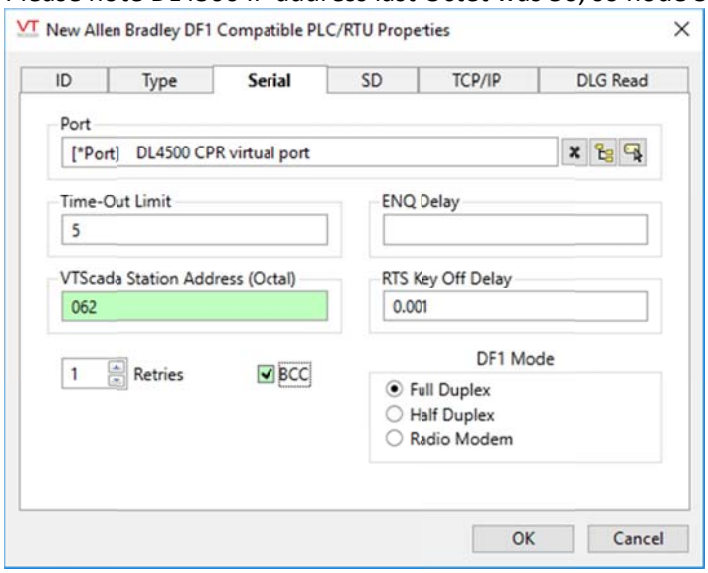


Under Type tab, select the DH+ Device, for SLC5/04 selected SLC-500, & it's node address 23 in Octal

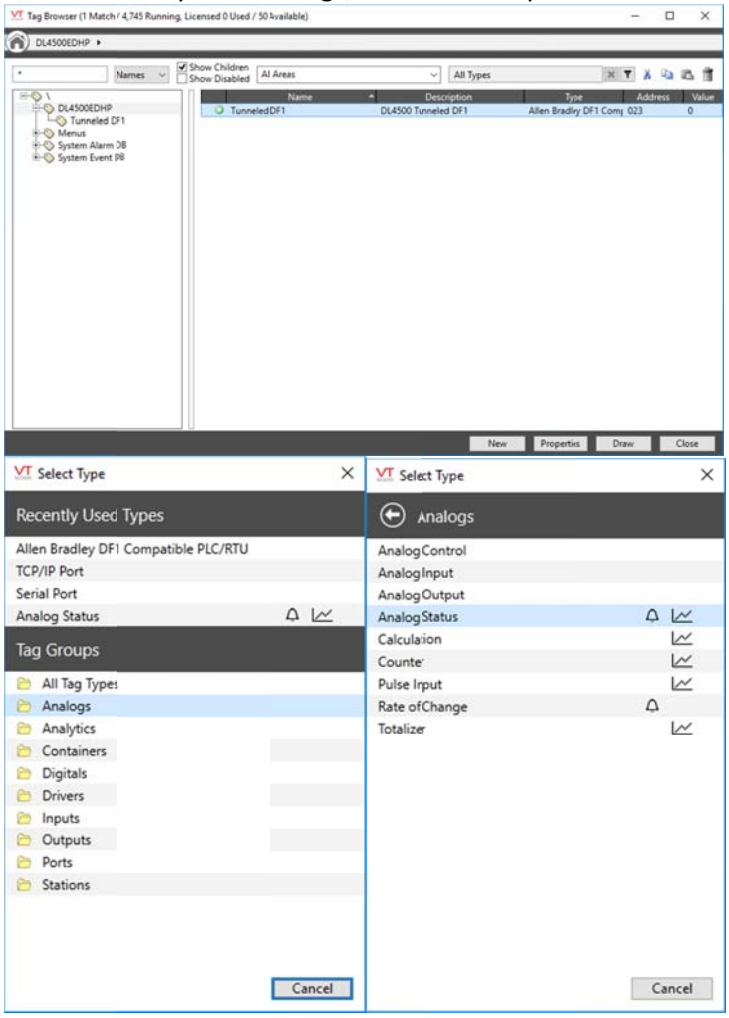


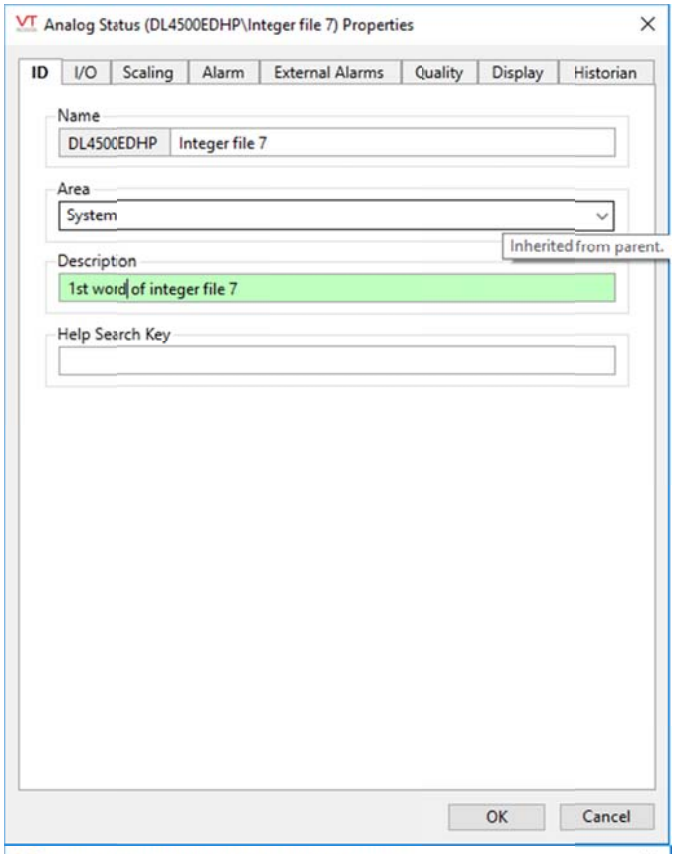
Here select the port for the driver, enter the DL4500 Node address, and make sure to check mark BCC and for DF1 mode select Full Duplex

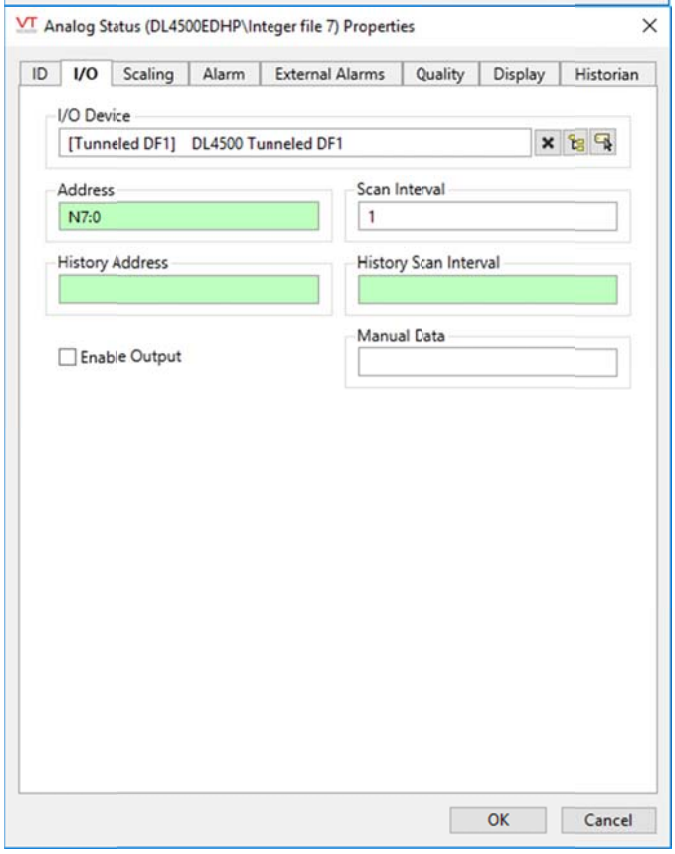
Please note DL4500 IP address last Octet was 50, so node 50 decimal = 62 Octal, as station address.

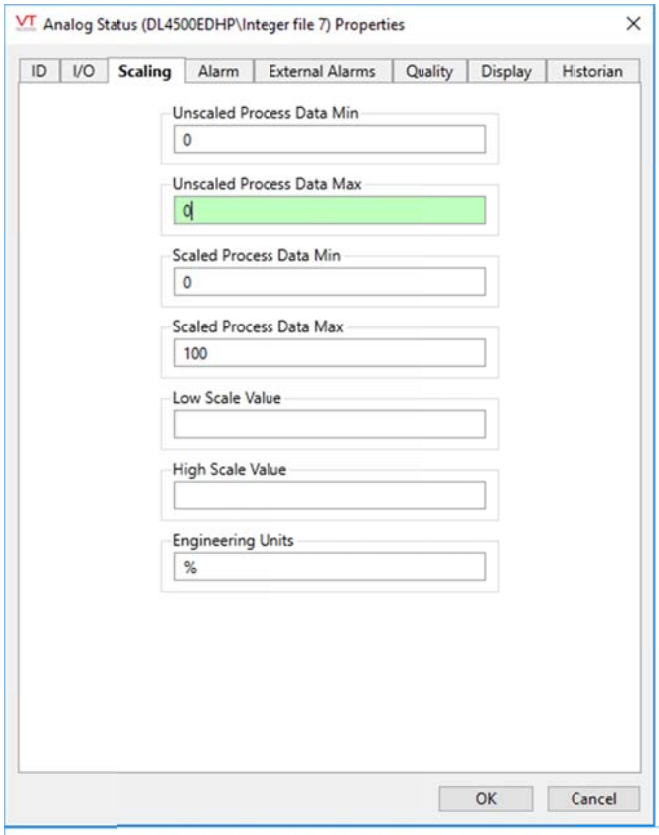


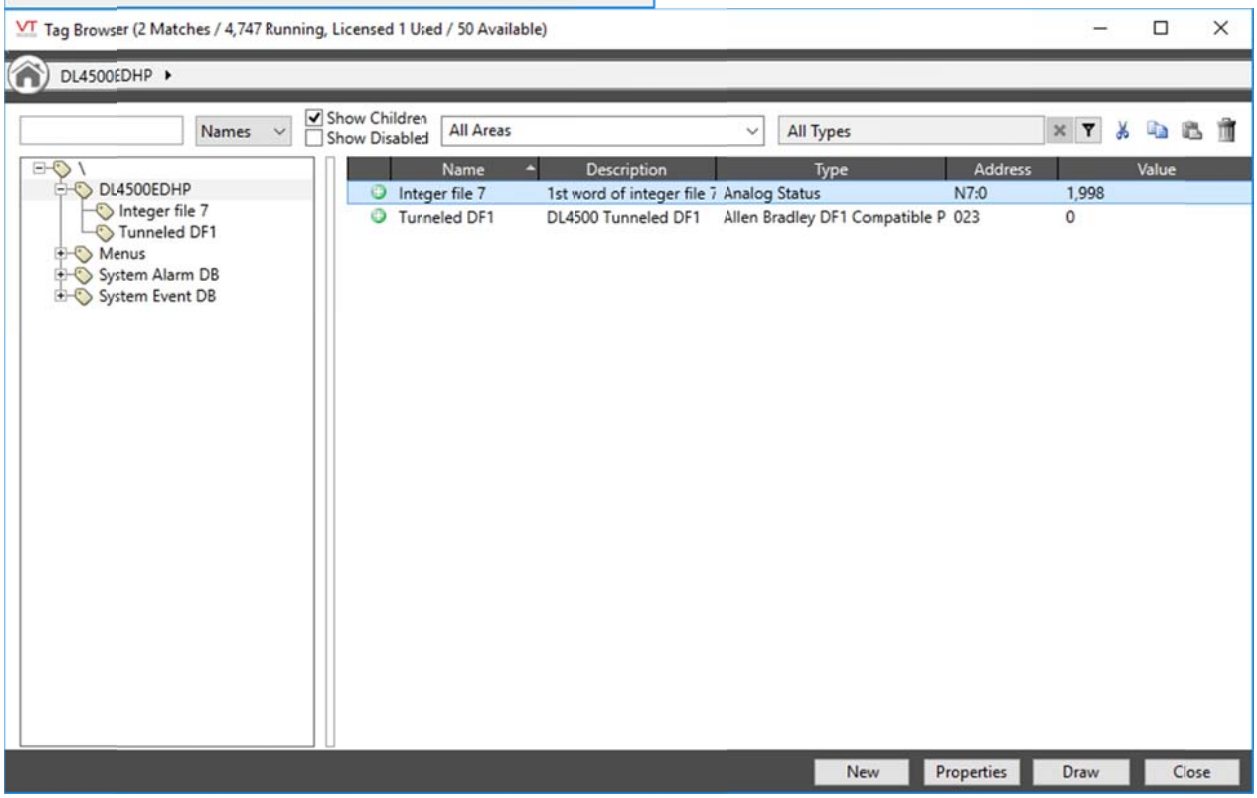
Next is to add your data tags, here for example we added the 1st word of integer file N7.




Analog Status (DL4500EDHP\Integer file 7) Properties
ID
I/O
Scaling
Alarm
External Alarms
Quality
Display
Historian
Name
DL4500EDHP
Integer file 7
Area
System
Inherited from parent.
Description
1st word of integer file 7
Help Search Key
OK
Cancel


Analog Status (DL4500EDHP\Integer file 7) Properties
ID
I/O
Scaling
Alarm
External Alarms
Quality
Display
Historian
I/O Device
[Tunneled DF1] DL4500 Tunneled DF1
Address
N7:0
Scan Interval
1
History Address
History Scan Interval
Enable Output
Manual Data
OK
Cancel


Analog Status (DL4500EDHP\Integer file 7) Properties
ID
I/O
Scaling
Alarm
External Alarms
Quality
Display
Historian
Unscaled Process Data Min
0
Unscaled Process Data Max
0
Scaled Process Data Min
0
Scaled Process Data Max
100
Low Scale Value
High Scale Value
Engineering Units
%
OK
Cancel


Tag Browser (2 Matches / 4,747 Running, Licensed 1 Used / 50 Available)
DL4500EDHP
Names
Show Children
Show Disabled
All Areas
All Types
\
DL4500EDHP
Integer file 7
Tunneled DF1
Menus
System Alarm DB
System Event DB
Name
Description
Type
Address
Value
Integer file 7
1st word of integer file 7
Analog Status
N7:0
1,998
Tunneled DF1
DL4500 Tunneled DF1
Allen Bradley DF1 Compatible P
023
0
New
Properties
Draw
Close