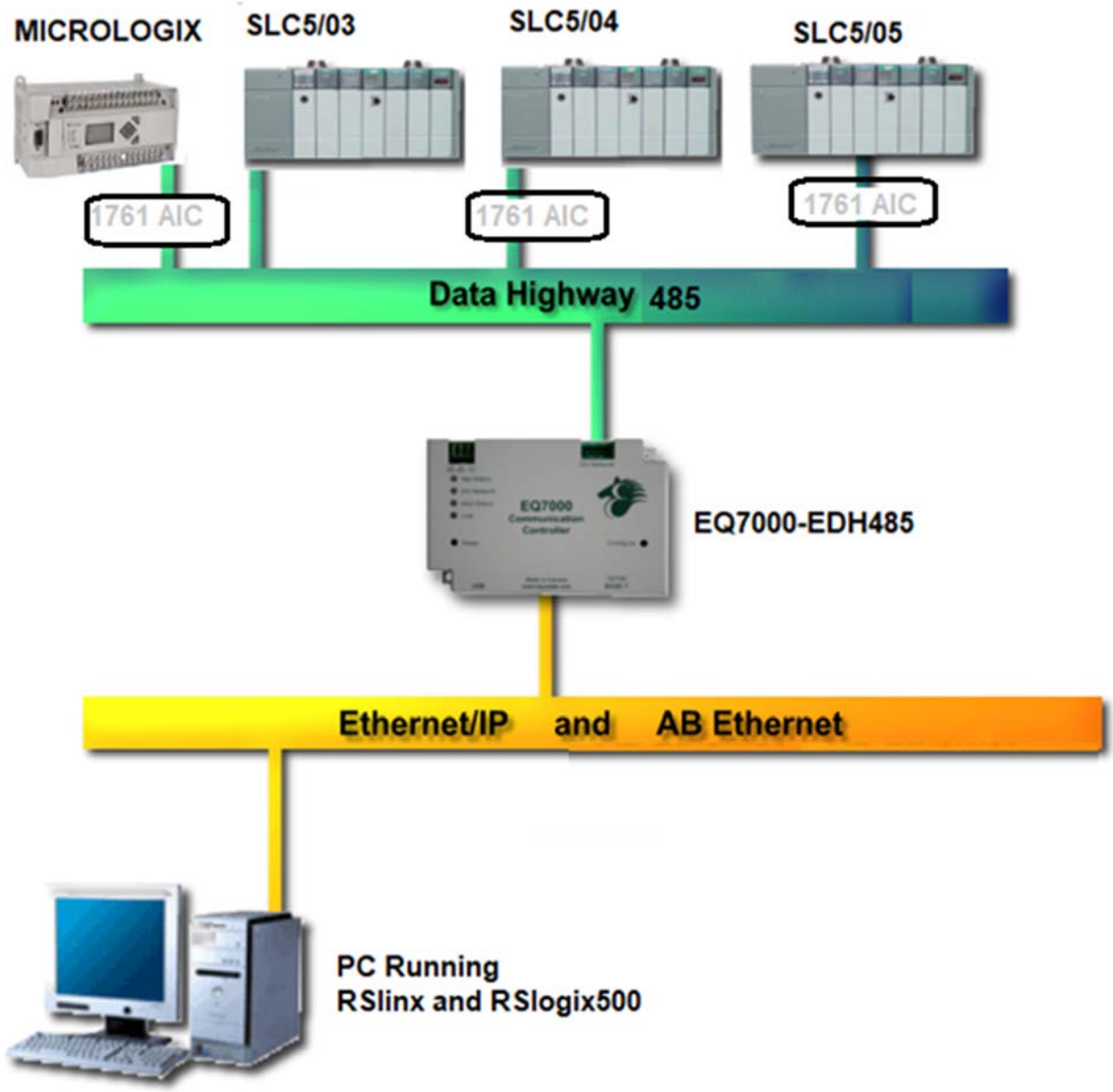
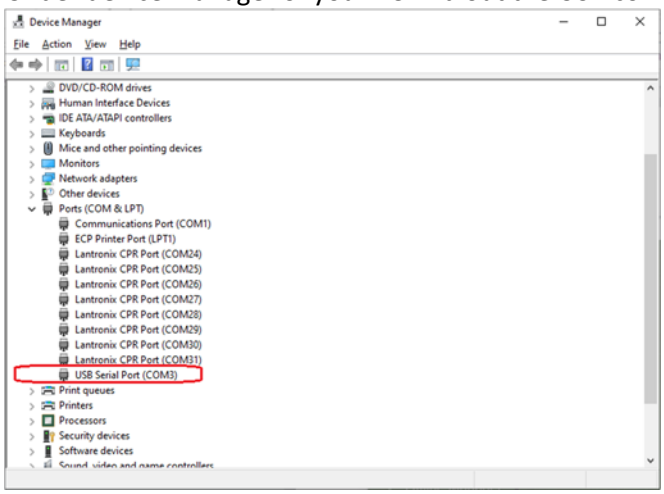
Configure EQ7000-EDH485 & set up RSLINX & RSLOGIX500 to go online with PLCs on DH485 network

Setup for this application note, we used a SLC503, SLC504 through 1761-AIC, SLC505 through 1761-AIC and a Micrologix also through 1761-AIC all on a DH485 network with the EQ7000-EDH485 and a PC with RSLINX and RSLOGIX 500 on Allen Bradley Ethernet and Ethernet IP side of the EQ7000.



Power on the EQ7000 and connect it to the PC using the USB cable that was supplied with the unit. Under device manager of your PC find out the USB comport that will communicate with the EQ7000.

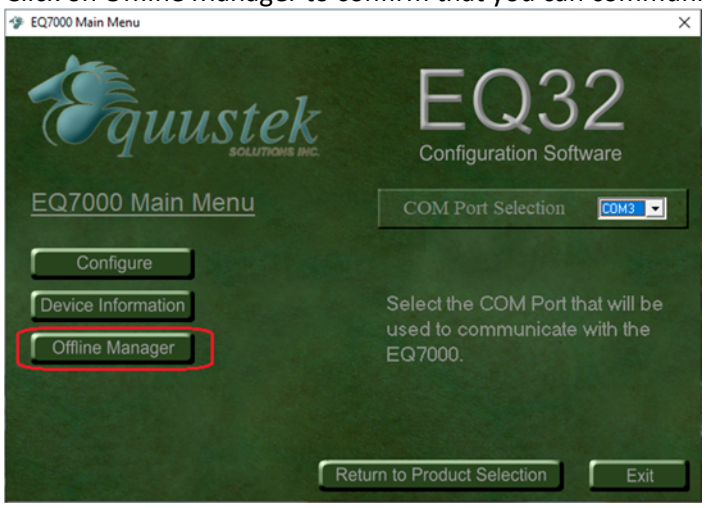


Press the **configure push button switch** on the right hand side of the EQ7000 to put it in offline configuration mode (Make sure the **STATUS LED** is flashing green).

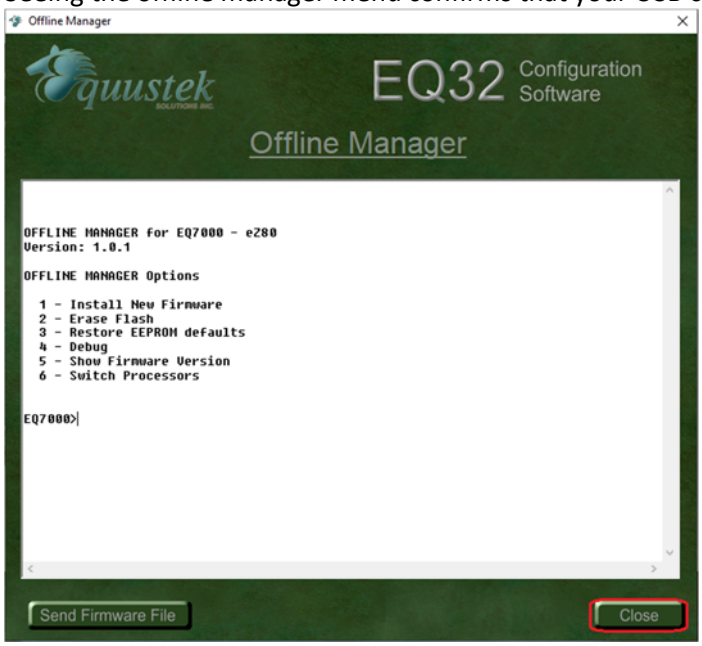
Start EQ32 software and from products select EQ7000.

From the drop Menu of the COM Port Selection, select the USB comport previously found under the Device Manager.

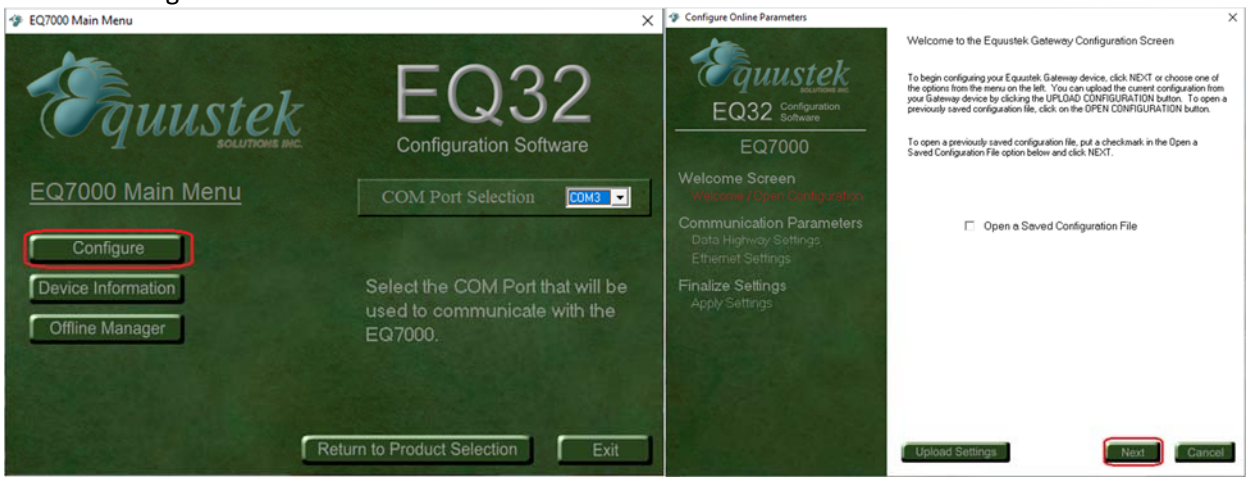
Click on Offline Manager to confirm that you can communicate with the unit.



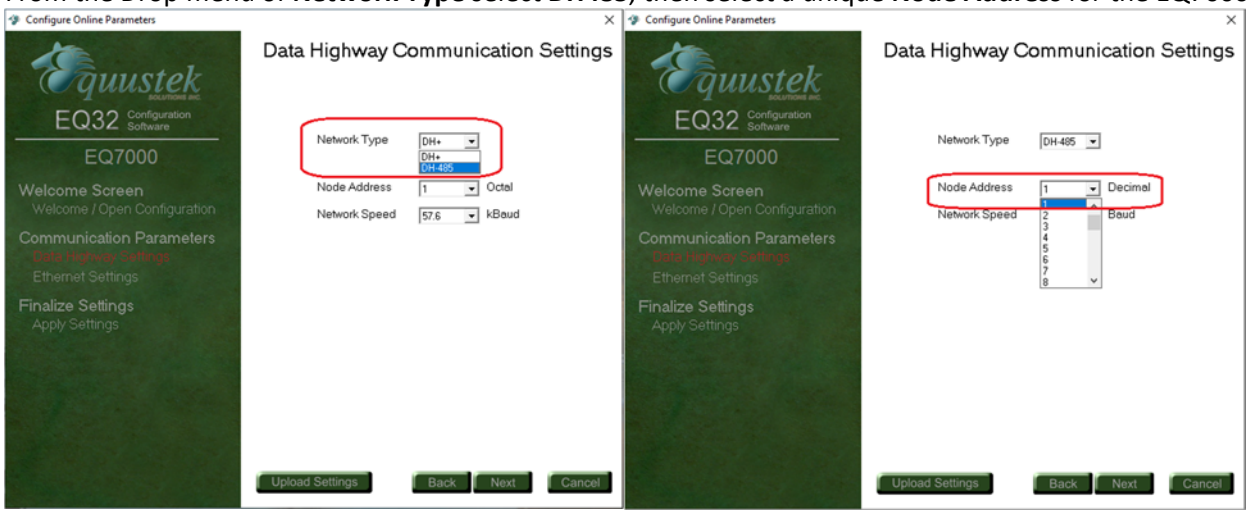
Seeing the offline manager menu confirms that your USB connection is OK, click on Close.



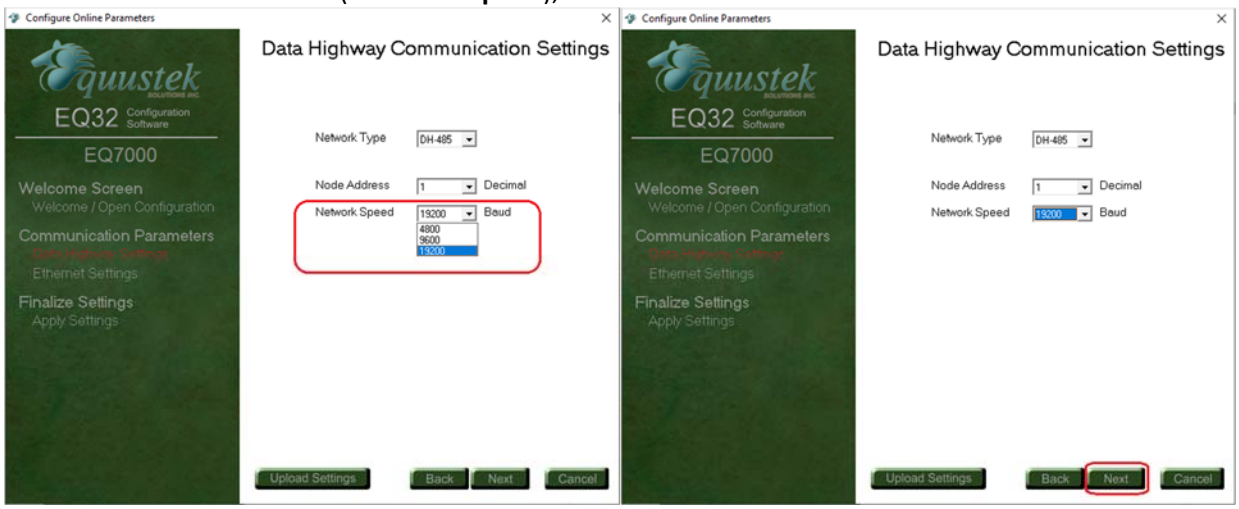
Click on Configure then click on Next



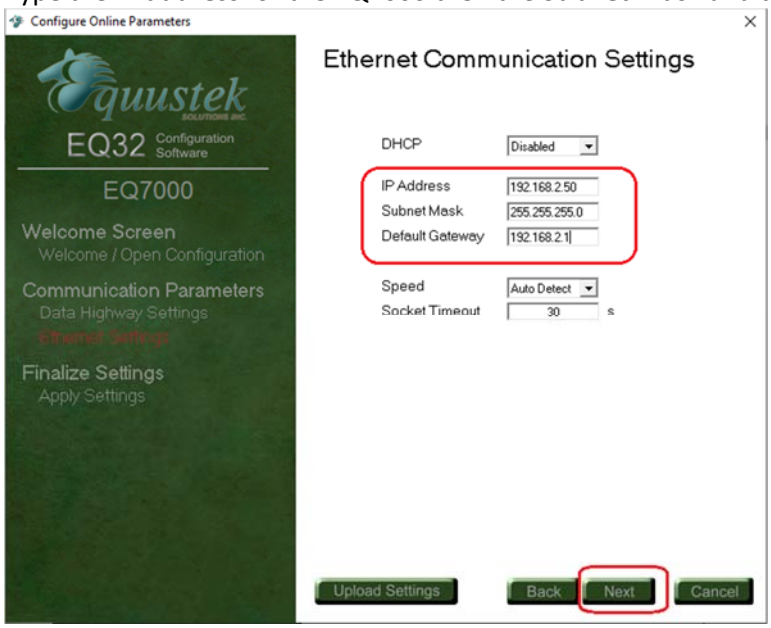
From the Drop menu of **Network Type** select **DH485**, then select a unique **Node Address** for the EQ7000



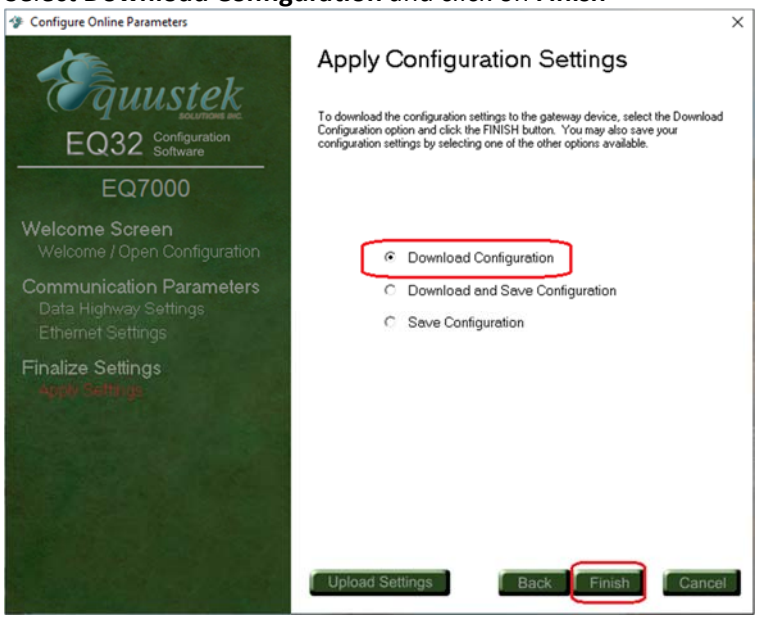
Select the DH485 Baud rate (**Network Speed**), then click on Next



Type the **IP address** for the EQ7000 then the **Subnet Mask** and the **Default Gateway** and click on Next.

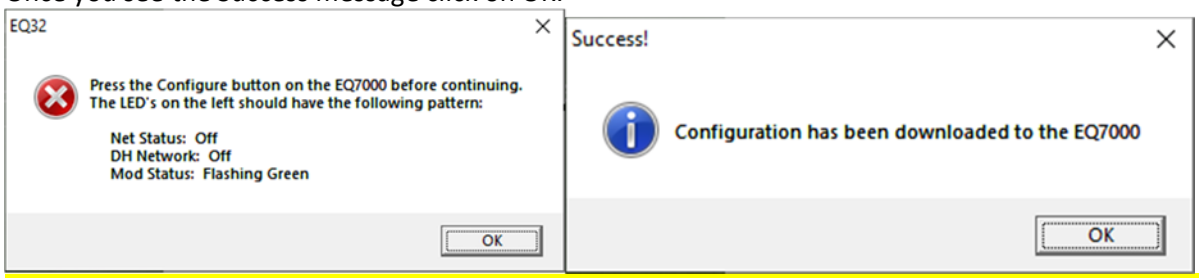


Select **Download Configuration** and click on **Finish**



Warning message will ask to press the configure push button, you don't need to, since it was done earlier, just click on OK

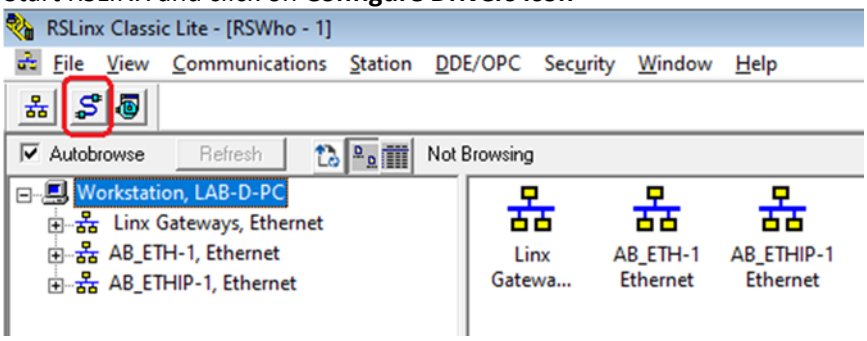
Once you see the Success message click on OK.



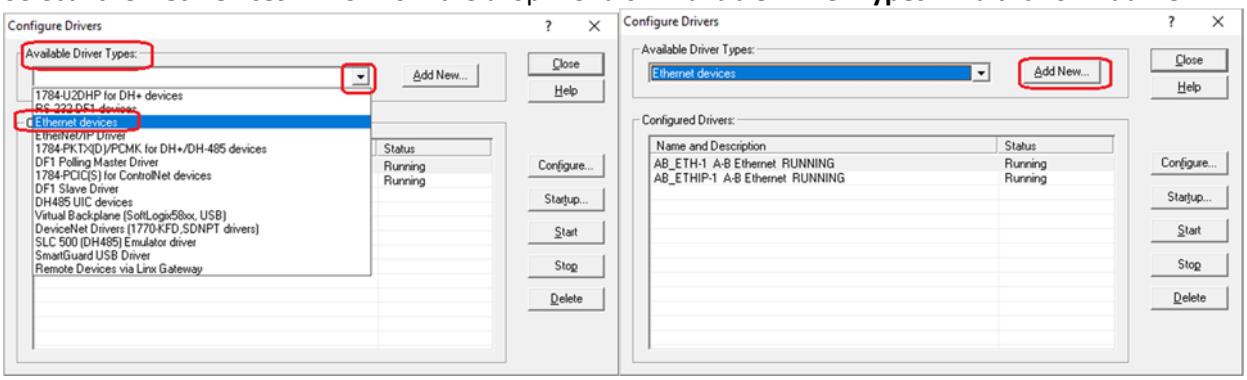
In case you encounter any error message, press the **RESET push button switch** on left hand side of the EQ7000 then press the **Configure push button switch** on the right hand side of EQ7000 and click on **Finish** again in EQ32.

After Success configuring the unit, click on Exit to close the EQ32 software and press the Reset push button switch on the EQ7000 to put it in online operating mode.

Start RSLINX and click on **Configure Drivers icon**

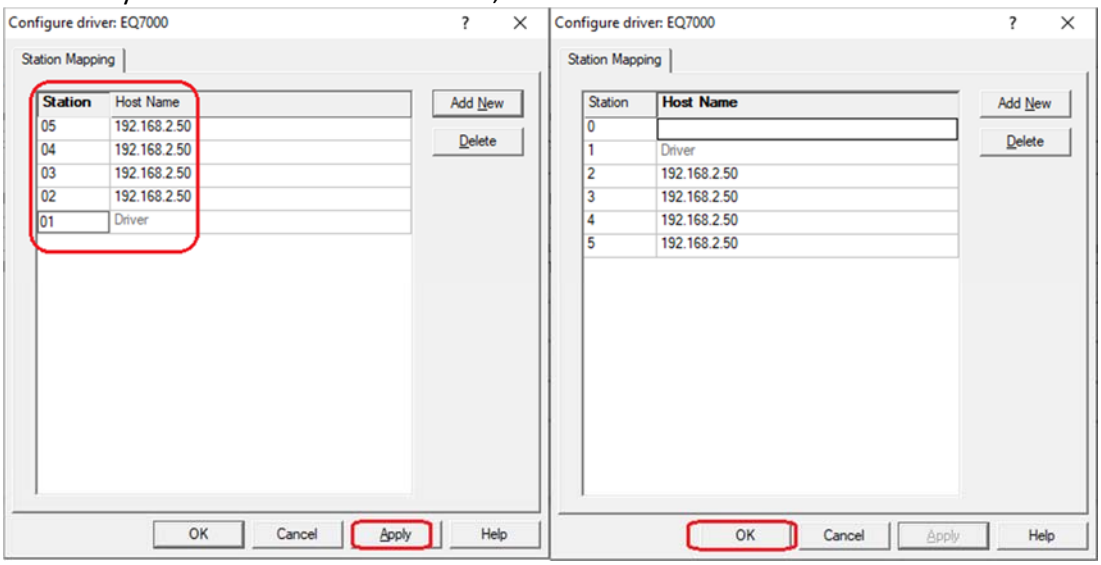


Select **Ethernet Devices** Driver from the drop menu of **Available Driver Types**. And click on **Add New**.

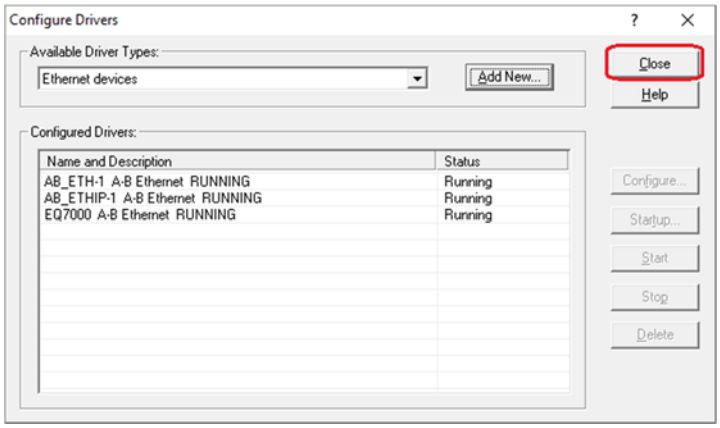


Type a name for the driver and click Ok.

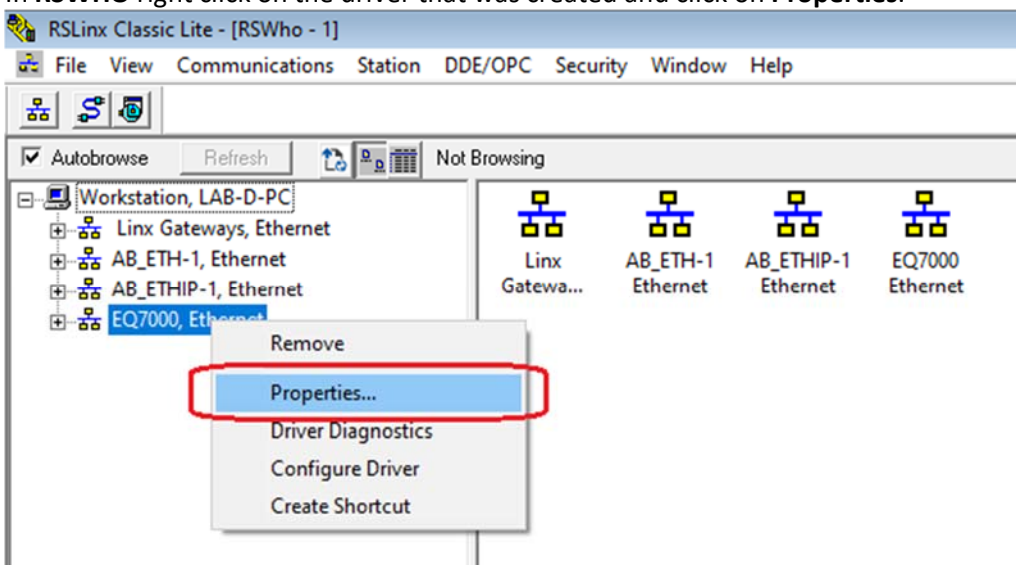
To map all the PLCs that you need to communicate with, type the Node address numbers of the SLC500s & Micrologix under **Station** in decimal and the IP address of the EQ7000 under the **Host name**, as for Driver enter the node address number of the EQ7000 under **Station**. Click on Apply, please map only the PLCs that you want to communicate with, and then click on OK.



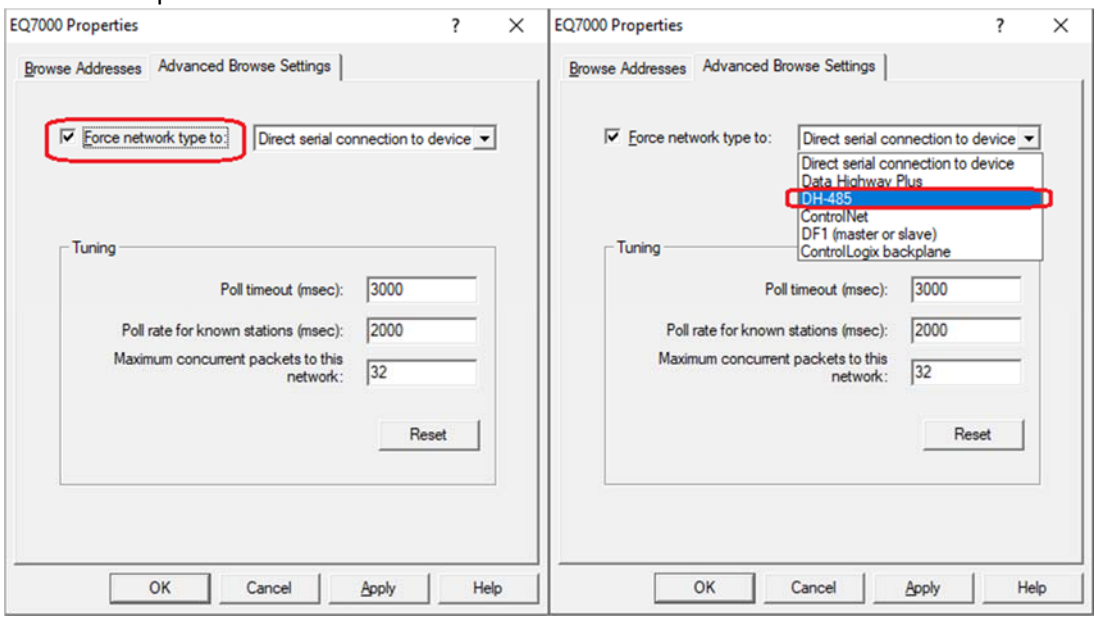
Click on close



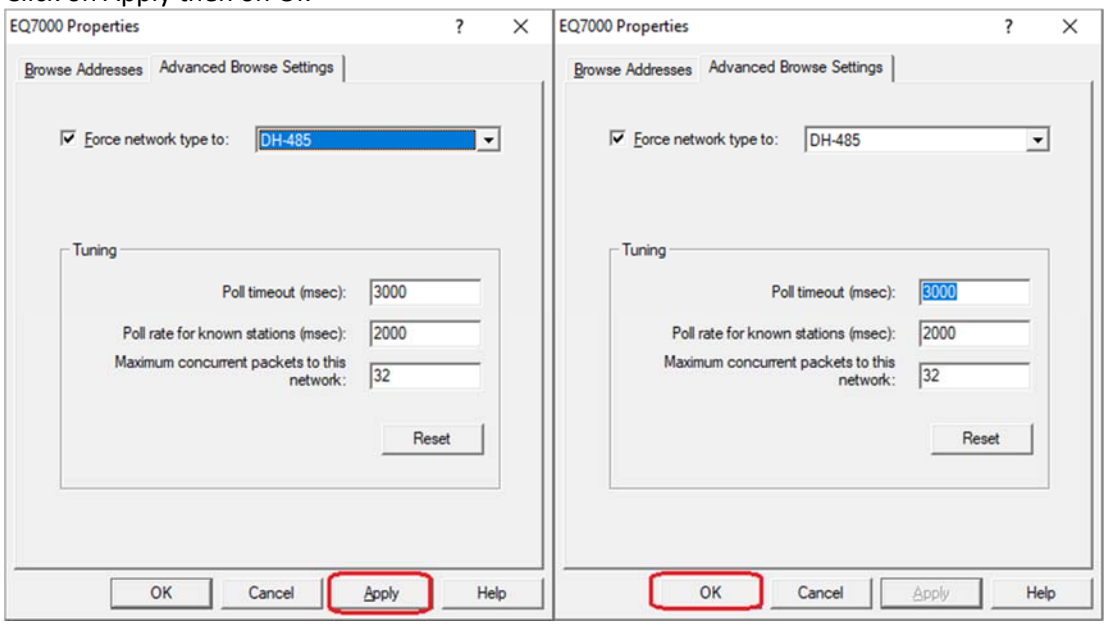
In **RSWHO** right click on the driver that was created and click on **Properties**.



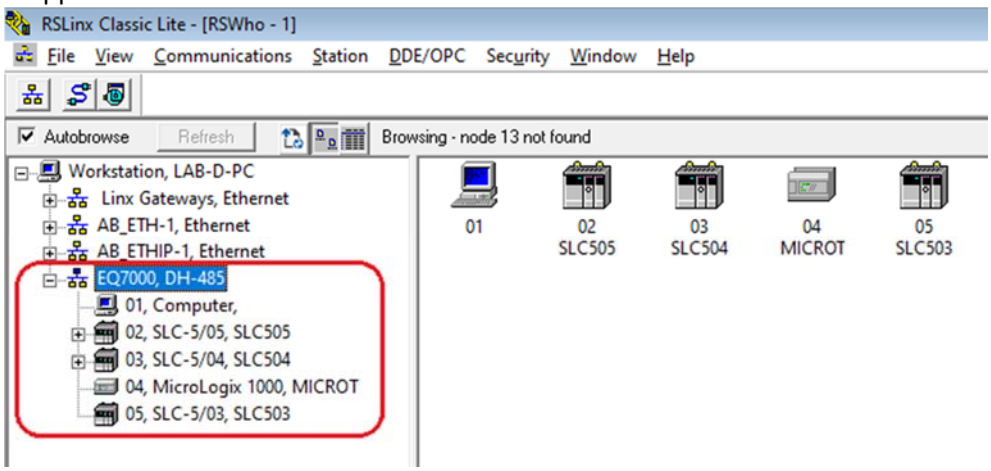
Click on **Advanced Browse settings tab** and check mark **Force network type to**, and then select **DH485** from the drop menu



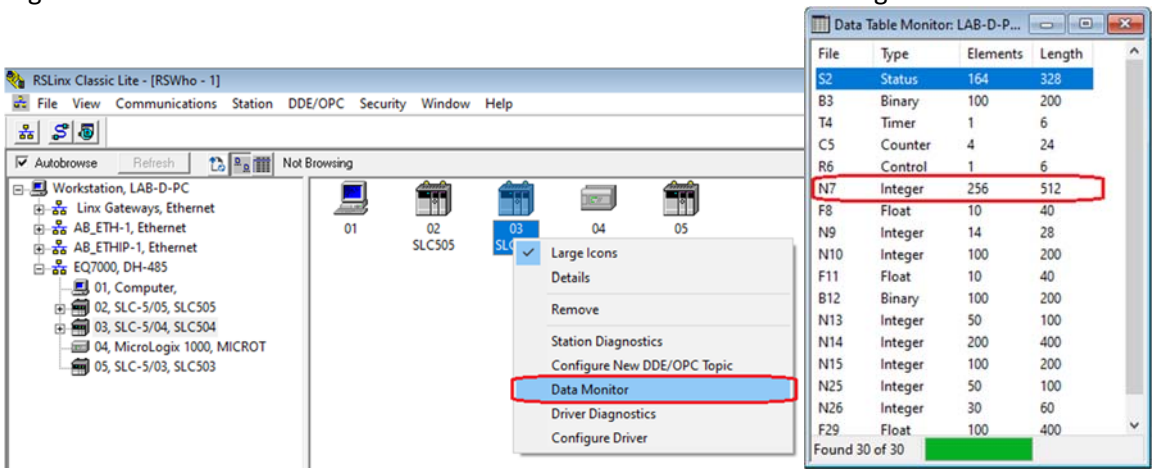
Click on Apply then on Ok



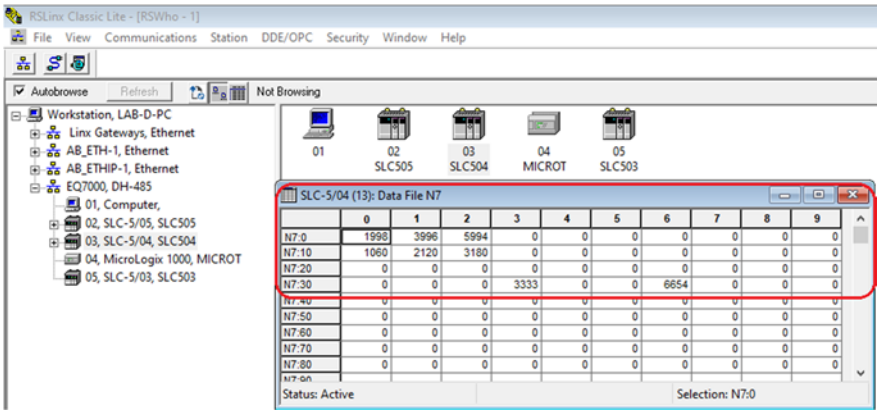
In **RSlinx RSWHO** click on the driver that was created to browse the DH485 network.
Here in our application you can see SLC503, SLC504, SLC505 and the Micrologix, all those that were mapped when we created the Ethernet driver.



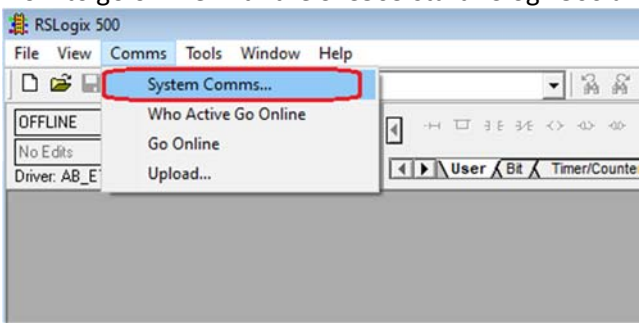
Right click on SLC503 and click on **Data Monitor** then double click on integer file N7



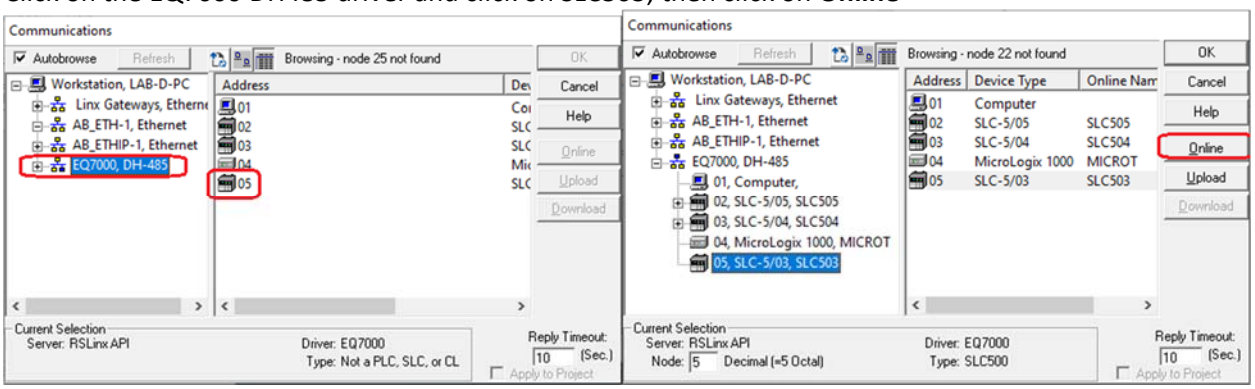
N7 from the SLC503 is shown here, & similar can be done to any file in any of the PLCs if needed to be monitored.



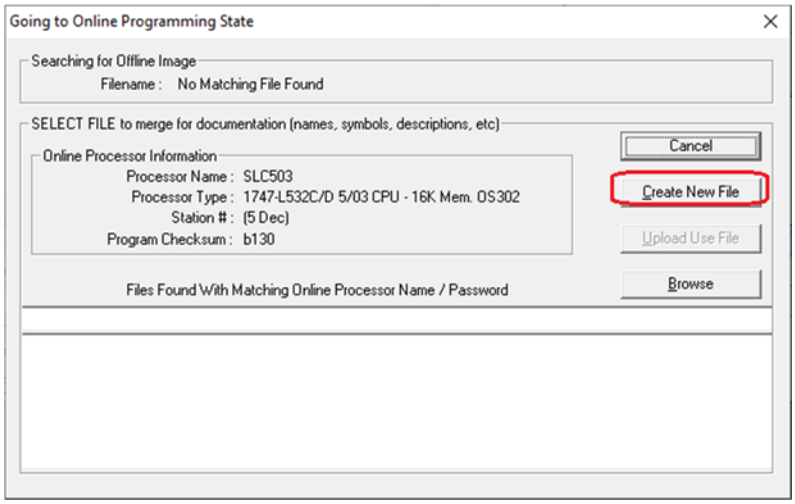
Now to go online with the SLC503 start RSlogix500 and under **Comms** tab click on **System Comms…**

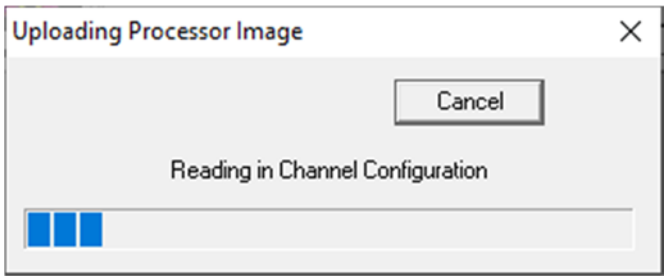


Click on the EQ7000 DH485 driver and click on SLC503, then click on **Online**

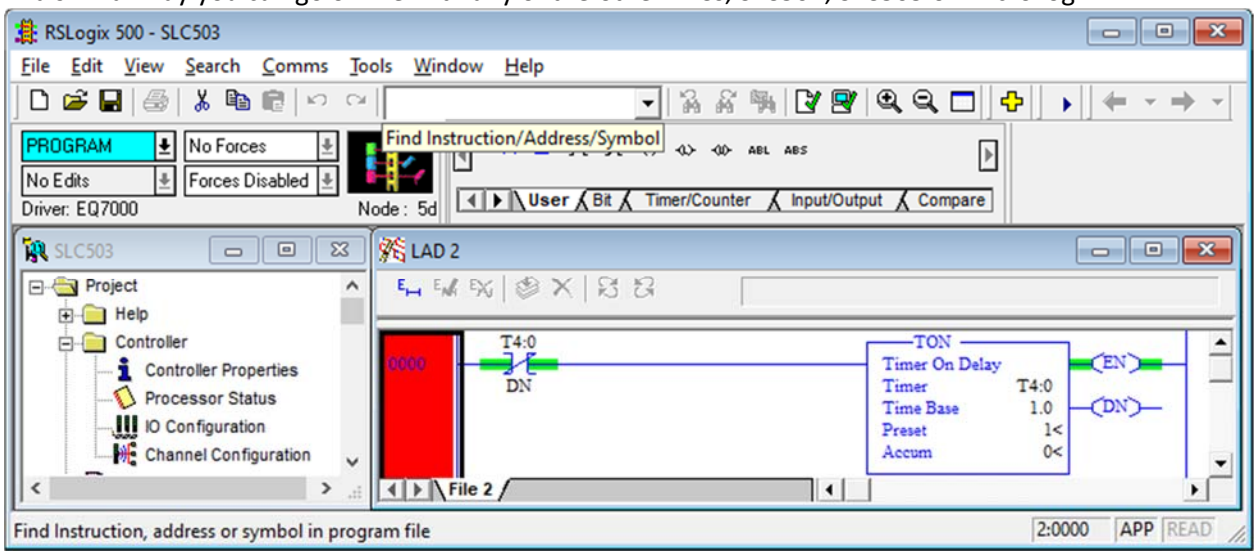


Click on create new file.





In a similar way you can go online with any of the other PLCs, SLC504, SLC505 or MicroLogix.



If you have any questions in regard this application or for more details please contact

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