

Crimson™ 3.0 Using the OPC Master Driver

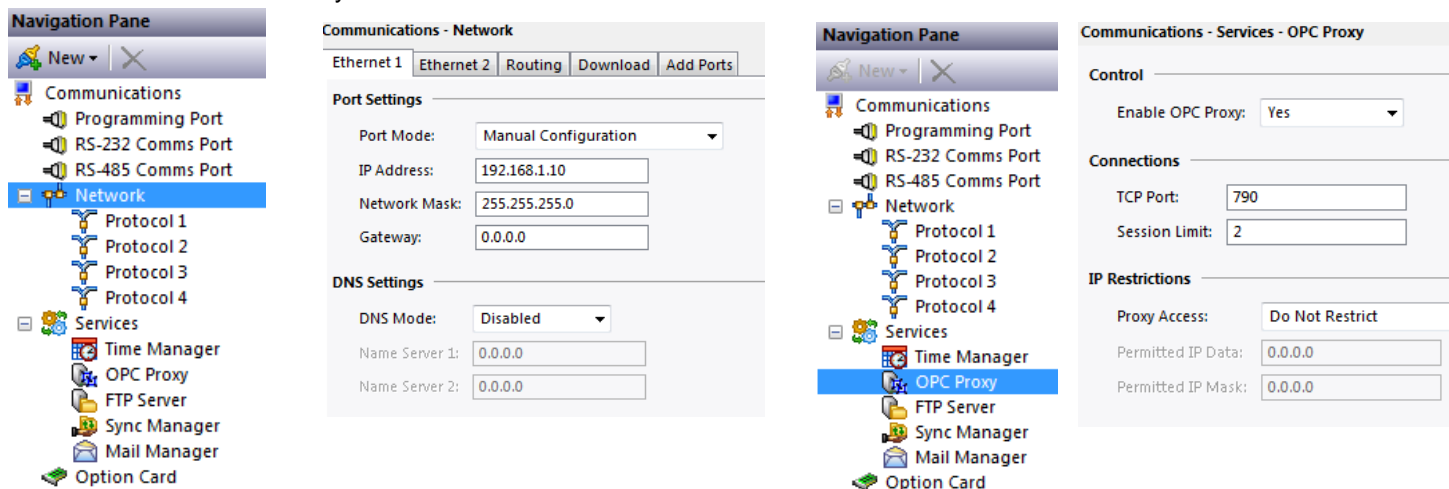


Introduction

It is common to want to share data between 2 Crimson 3 based products, but using a Modbus Master and Slave combination can take a fair amount of configuration time.

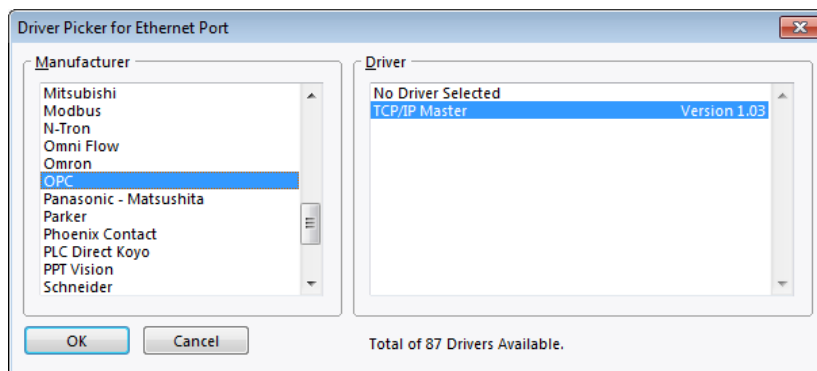
Data Source Configuration

1. Open the database for the unit(s) where the data will come from.
2. Once the database is complete, or at least all of the tags are configured, enable the Ethernet port (if it has not already been enabled).
3. Enable the OPC Proxy in the Service area Communications section.



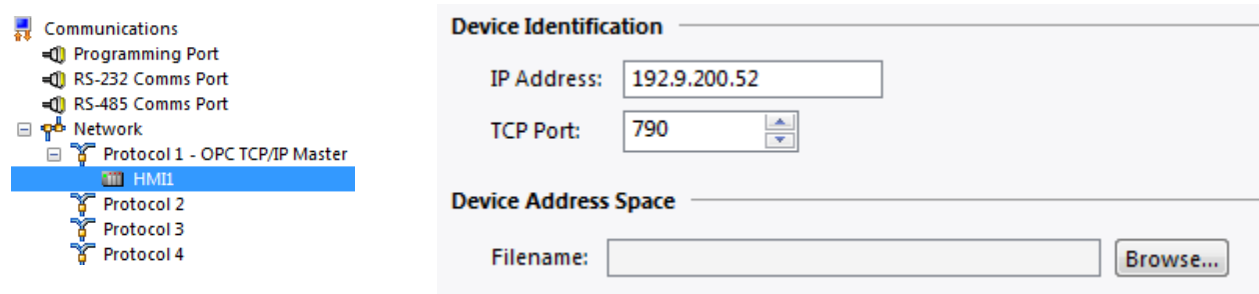
Setup the OPC Master Driver

1. Open or create the Crimson 3.0 file that will access the values from the first database.
2. Open the communications section.
3. Enable the Ethernet port
 - Ensure you use a unique IP address if you are using a copy of the original file.
4. Assign the OPC Master driver to one of the available Ethernet protocols.



5. Click on *HMI1*.

6. Configure the IP Address and TCP Port to match the 'slave' device.



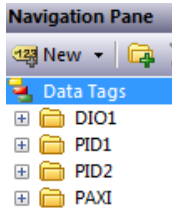

7. Click Browse... button next to the Filename field and browse to the 'slave' device's Crimson file.
8. Click *Open*.



Map tags to the 'Slave' Device

1. Click on *Data Tags* in the Navigation Pane.
2. Click on an existing or create a new tag that will be associated with the other device.
3. Change the Source to HMI1 and choose the tag from the other device's tag list.
 - Repeat as needed.

Advanced – Export/Import Tag Creation/Mapping

Note: Before proceeding with the following, create a backup of your Crimson file to avoid any possible corruption.

1. Export Data Tags from the 'slave' device
 - a. Save the database.
 - b. Go to the Data Tags section.
 - c. Click on *Data Tags* at the top of the tag list.
 - d. Click the *Export Tags* link.
 - e. Choose a location that you will remember to save the file.
- 
- 
2. Edit the Exported file
 - a. Open Windows Explorer.
 - b. Browse to the saved TXT file from the Export process.
 - c. Open this file with Excel.
 - Column A is the Data Tag Name and Column B is the Mapping.
 - The first part of the mapping before the dot is the source.
 - d. Change all of the mappings to the device name of your choice (default HMI1) under the OPC Master protocol, dot, Data Tag Name.
 - This can be accomplished with the following formula: =CONCATENATE("[HMI1.",A5,"]") then highlight and copy the formula to each data tag that you are going to be including for the OPC exchange. Next, highlight the whole column, Copy, then Paste Values.
 - e. Save the file.
 - Keep the file format the same, do not save as an Excel formatted document.
 - f. Close the Excel window.

Note: The import process will fail if Excel has the file open.
3. Create/map all of the tags.
 - a. Open the Master unit's database
 - b. Go to the Data Tags section.
 - c. Click on *Data Tags* at the top of the tag list.
 - d. Click the *Import Tags* link.
 - e. Browse to the modified CSV file you saved after exporting from the previous database.
 - All of the tags from the previous database have now been imported into the new database
- 
- 

Red Lion Technical Support

If you have any questions or trouble contact Red Lion Technical Support by emailing support@redlion.net or calling 1-877-432-9908

