Technical Note

ProSoft® TECHNOLOGY

Migration Application Sample for the AN-X2-AB-DHRIO RIO Scanner

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Document Information

Author	**Tom Lenigan**
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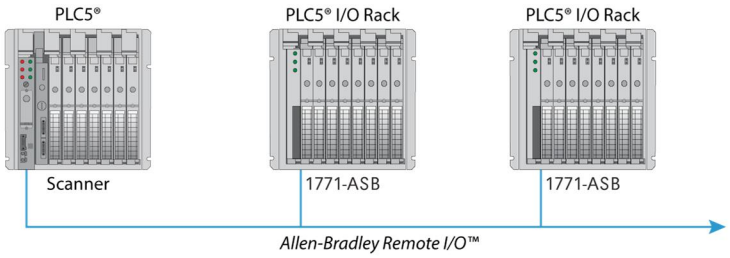
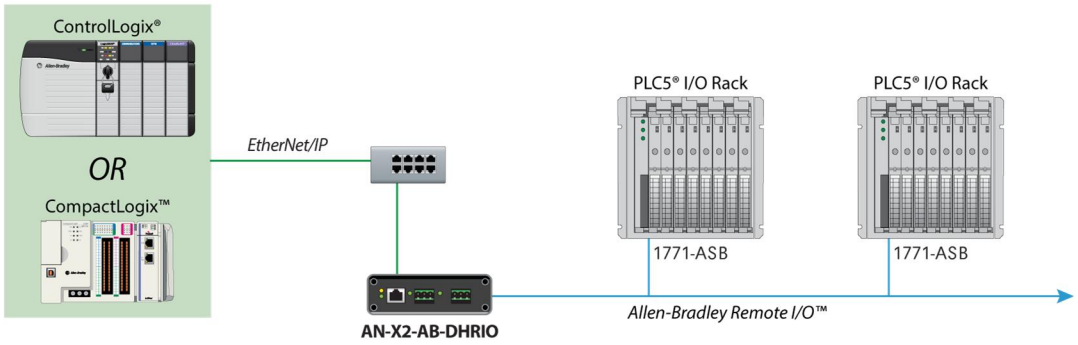
This Technical Note will illustrate how to migrate a simple PLC5 Remote I/O Application to a CompactLogix or ControlLogix application using the AN-X2-AB-DHRIO gateway with the Remote I/O Scanner firmware loaded.

Existing System

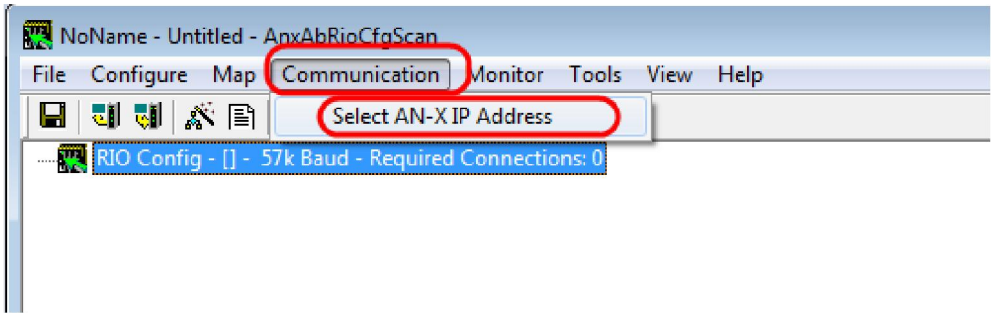


Processor Migration

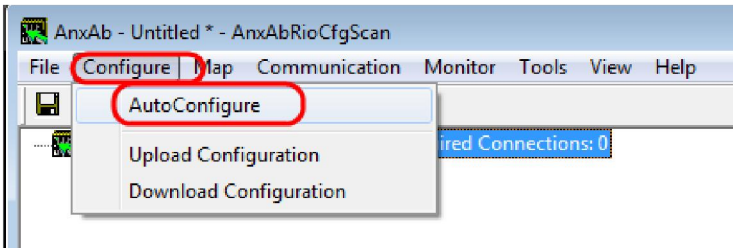


Step 1: Connect the Gateway to the Ethernet and the Remote I/O networks, and then launch AnxAbRioCfgScan.exe.

Step 2: Specify the IP Address of the Gateway

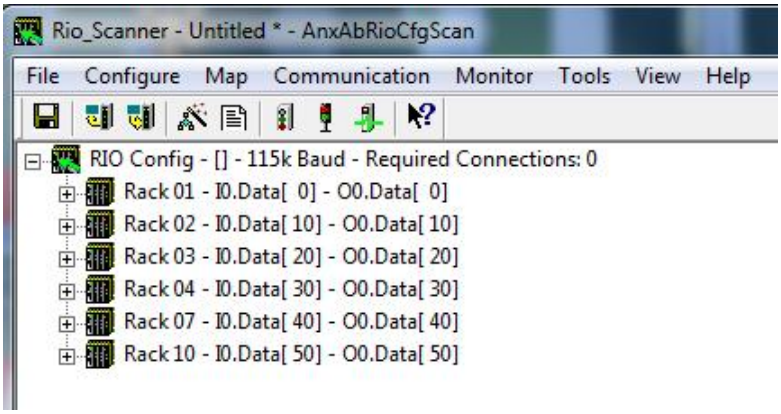


Step 3: Auto-configure the gateway



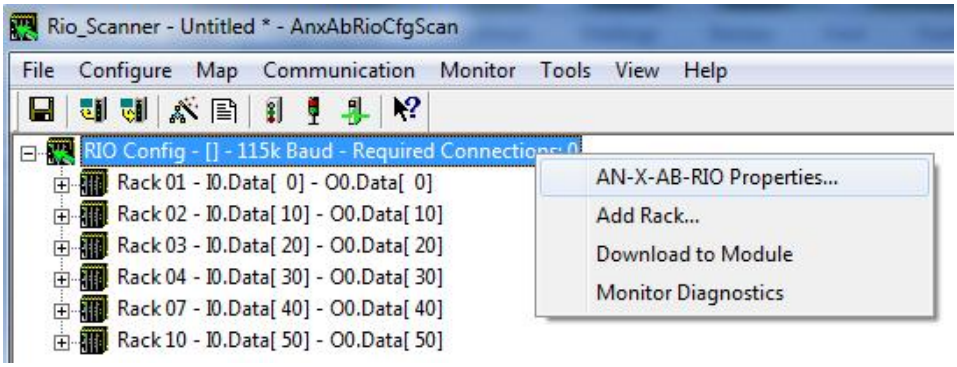
NOTE: The gateway will automatically detect the baud rate of the Remote I/O network in addition to detecting any remote racks of I/O that are present on the network.

Step 4: Review the Racks and modules discovered to ensure that all are present

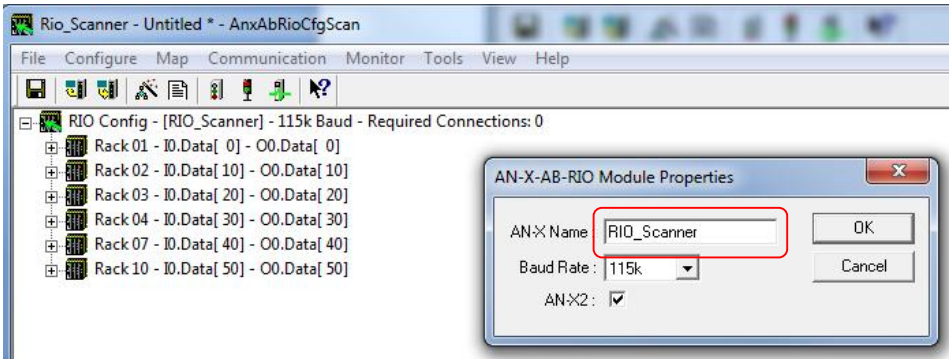


Step 5: Specify the Name of the gateway

Right click on the top line and select properties



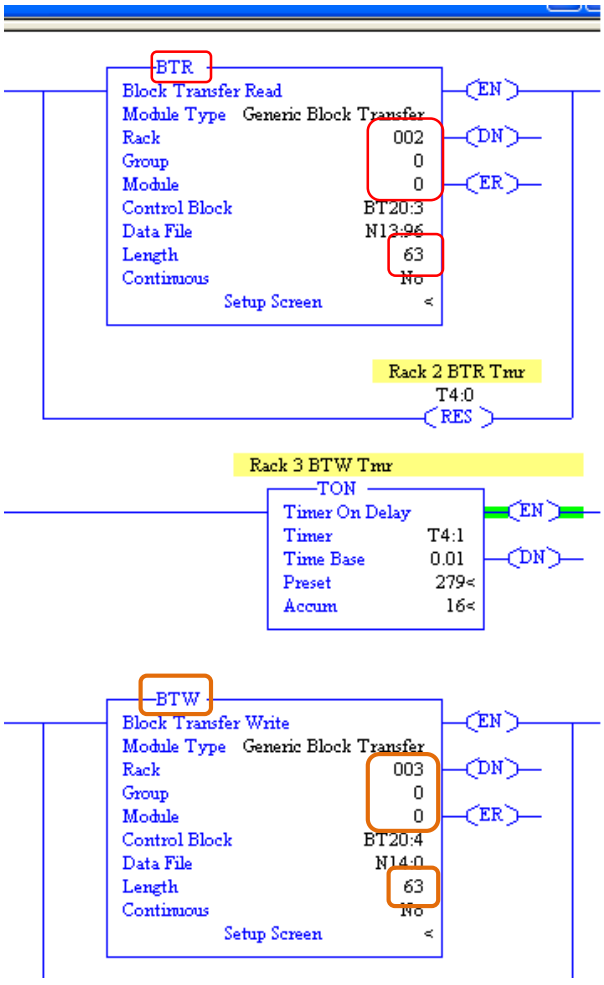
Enter the name

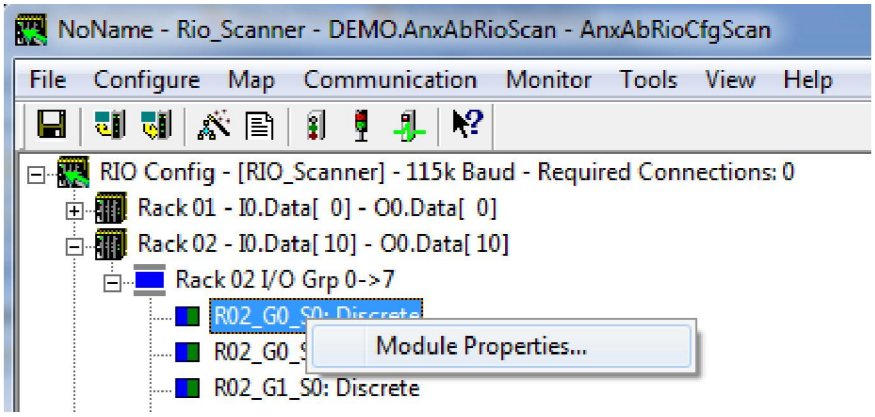


Step 6: Configuring Block Transfers (Not all devices or applications require these)

It is important to note that Block Transfers must be manually configured, and are most easily configured by referencing the existing BTR and BTW instructions that exist in the legacy PLC.

Step 6A: Examine old ladder and then navigate to the Rack / Group / Slot where a BTR or BTW is needed Right Click and select properties



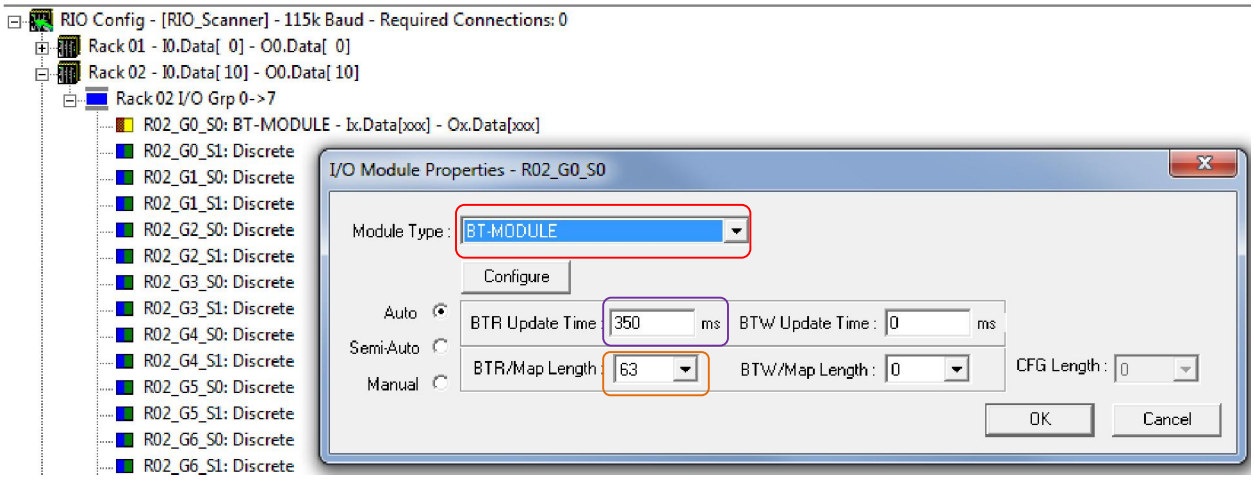


Step 6B: Configure a BTR

Select BT-Module in the Module Type drop down list

Enter correct Length in the BTR Length drop down list

Specify BTR Update Time

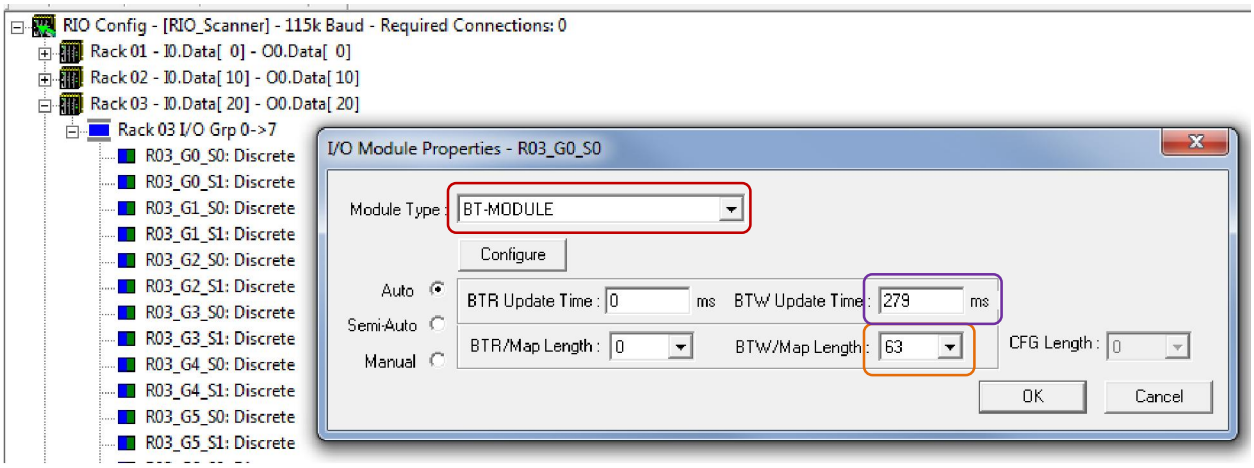


Step 6C: Configure a BTW

Select BT-Module in the Module Type drop down list

Enter correct Length in the BTW Length drop down list

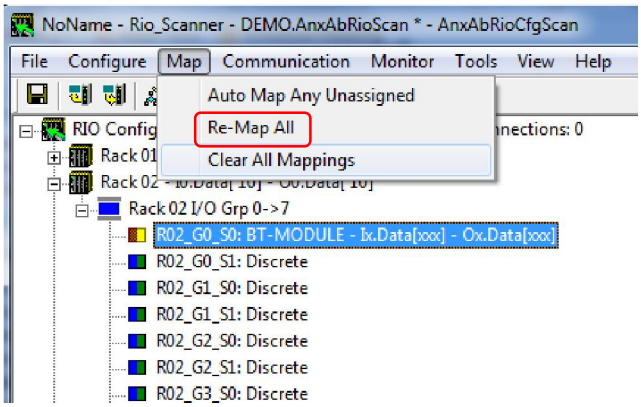
Specify BTW Update Time



NOTE: If a specific Rack, Group, and Slot has both a BTR and a BTW you can enter them at the same time since this is done in the same I/O Module Properties window.

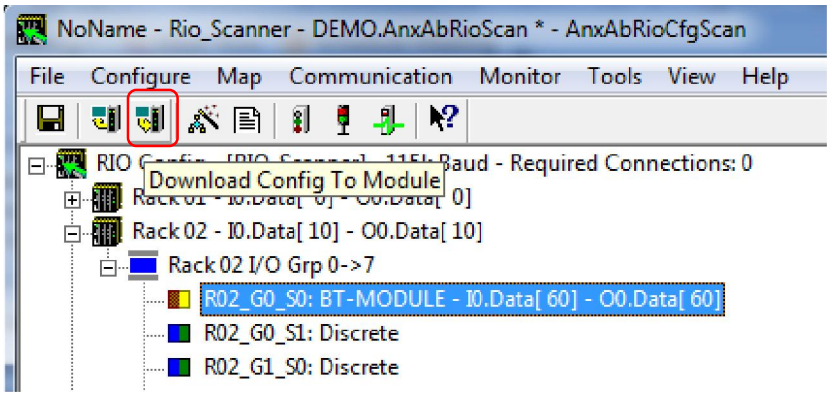
Step 7: Reconfigure Mappings to include All BTRs and BTWs

Select Re-Map All

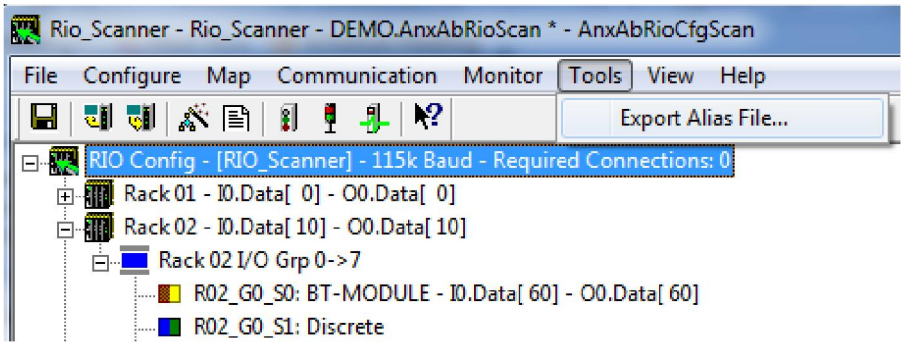


Step 8: Download Configuration to the Gateway

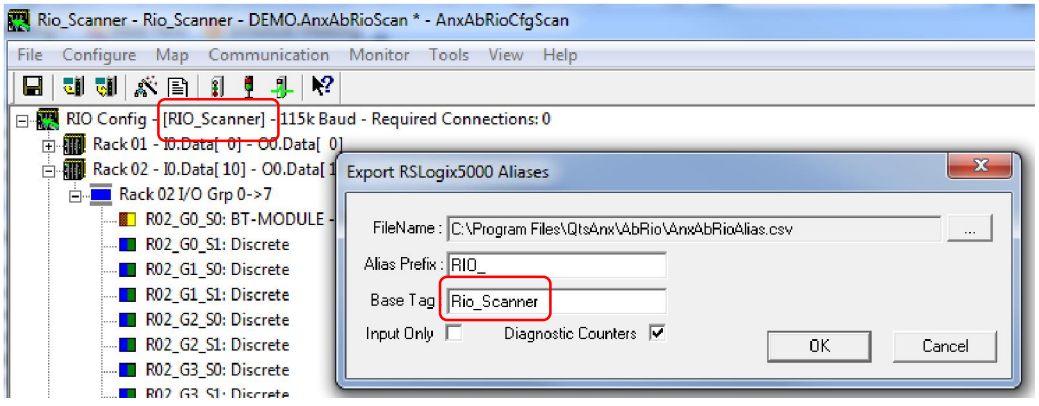
Click the download icon



Step 9: Export Alias tags



Step 9A: Validate Base Tag Name = AN-X2 Name and click OK



Step 10: RSLogix 5000 Configuration

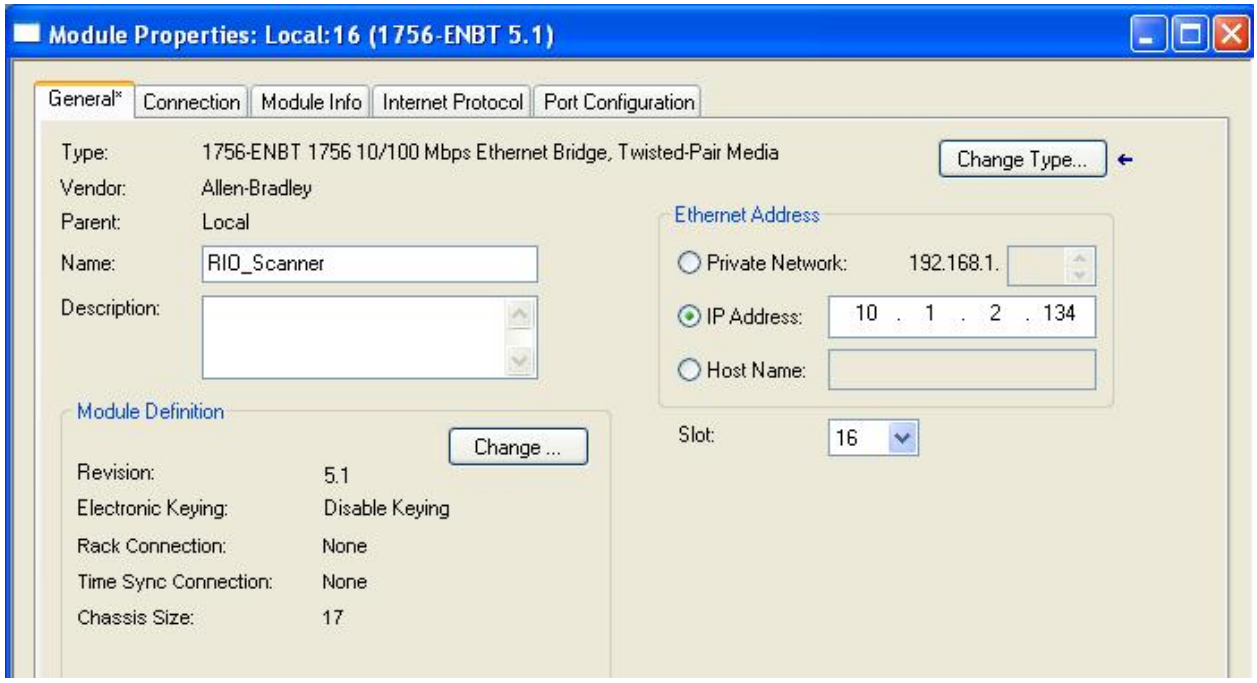
Step 10A: Adding the remote rack of I/O into the application

In the I/O tree in the Ethernet segment right click and add a 1756-ENBT

Set the IP Address to that of the AN-X2 Gateway

Name the Module the same name of the AN-X2 Gateway

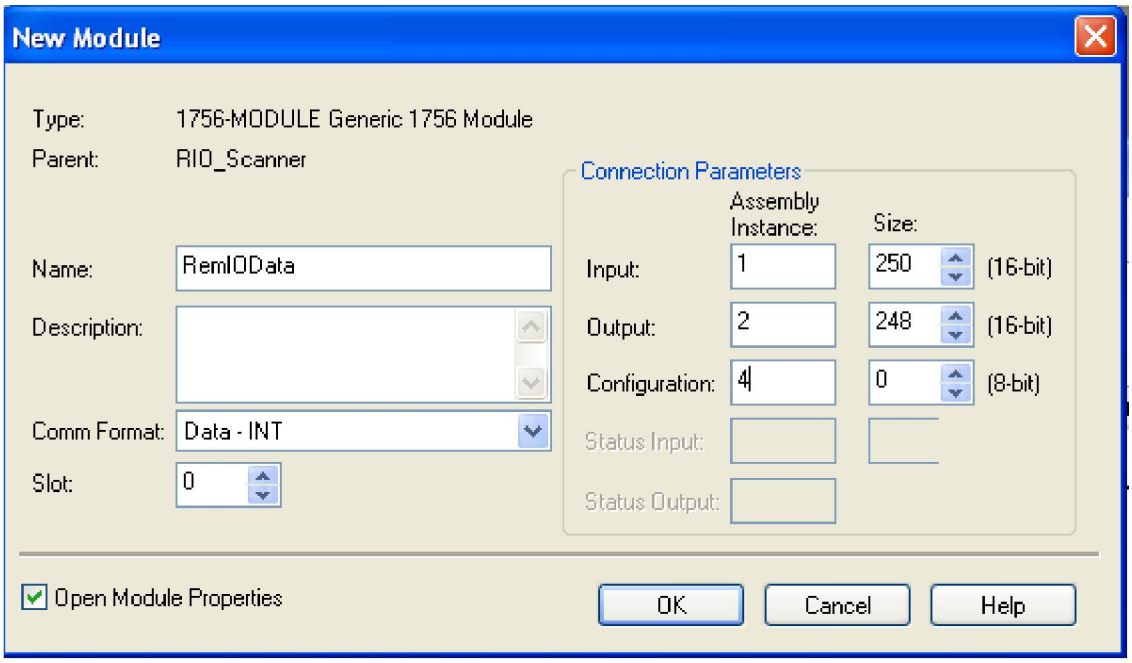
Set the Module Definition and Slot Number to match the settings below:

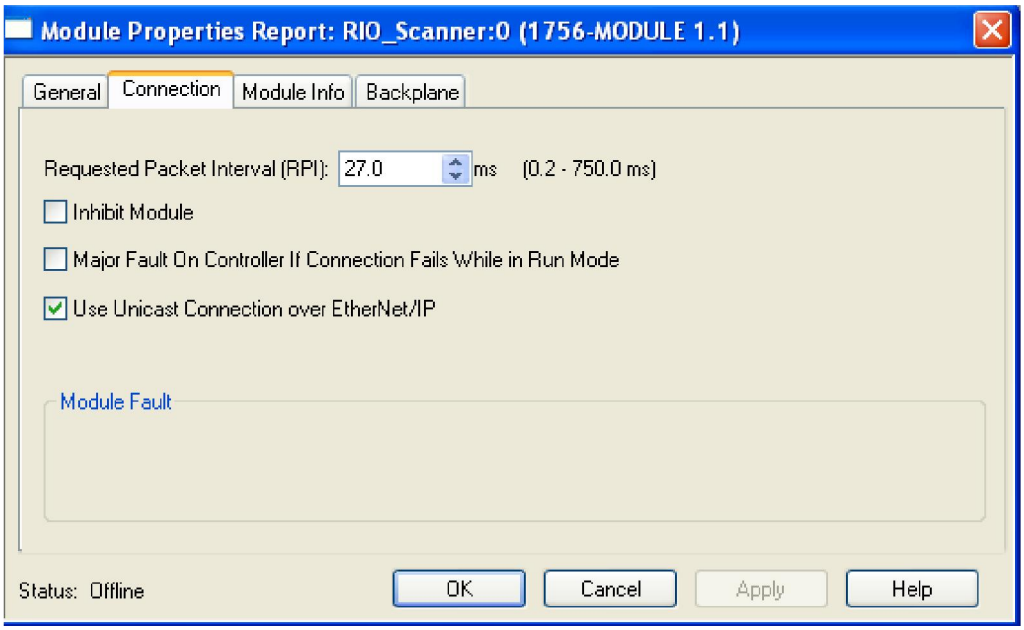


Step 10B: Adding in the Remote I/O Data

Add a 1756-MODULE module into slot 0 of the I/O Rack

Set RPI no faster than 5 mSec (Recommended > 20mSec)

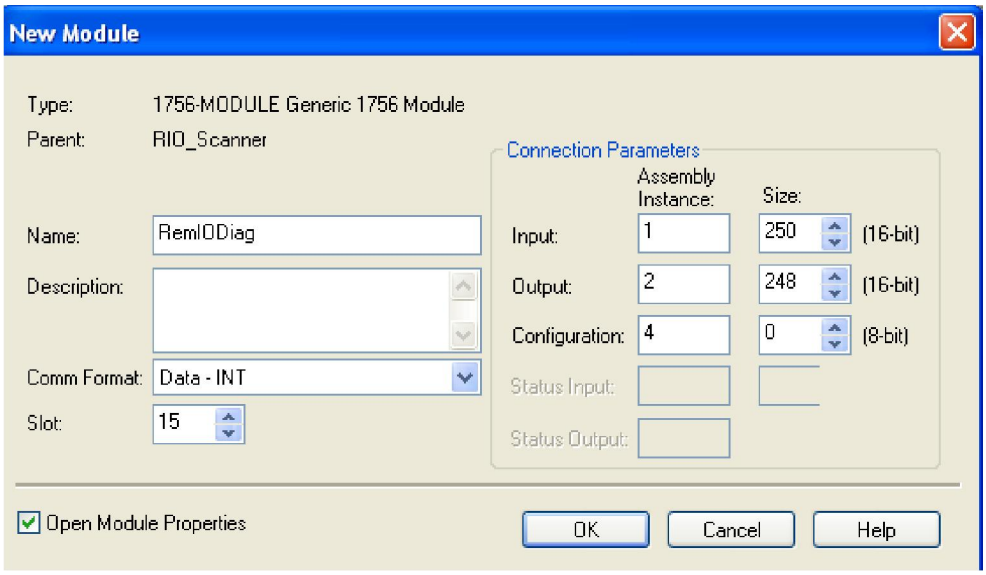


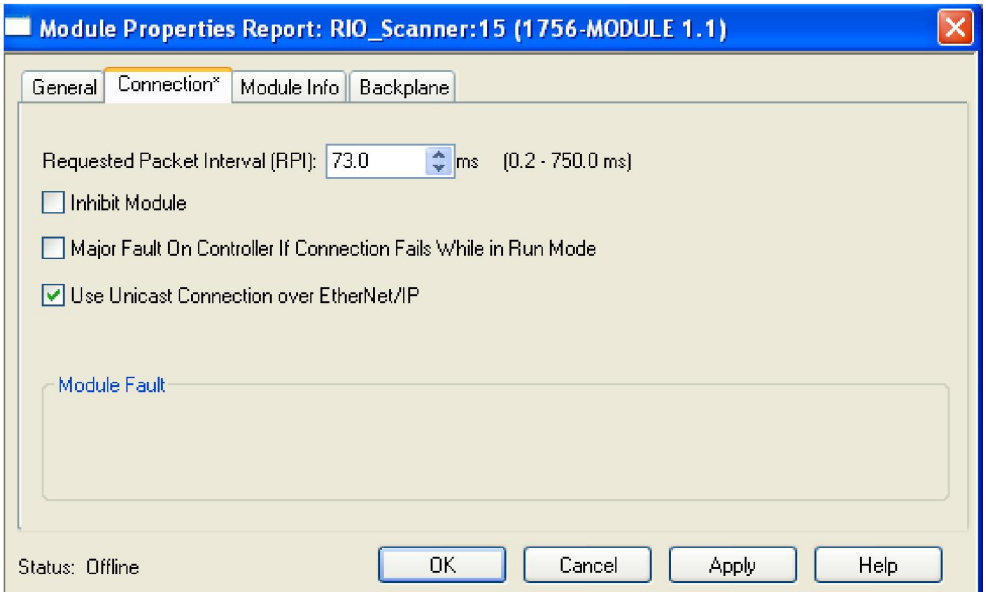


Step 10C: Adding in Remote I/O Diagnostic Data

Add another 1756-Module into slot 15 of the I/O Rack

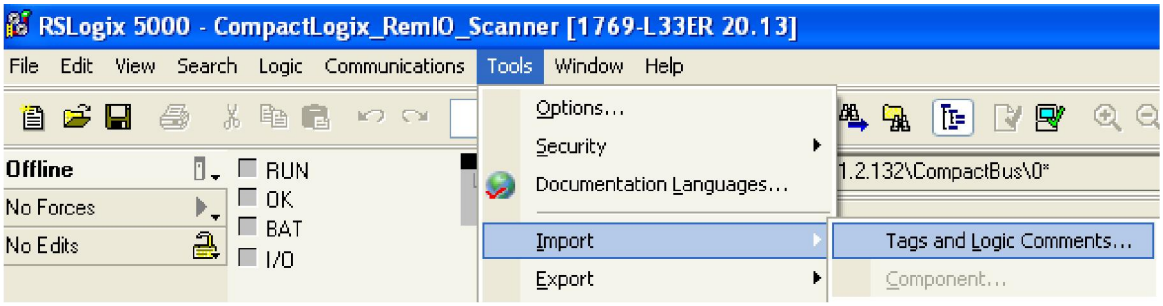
Configure slower RPI since it is only diagnostic data



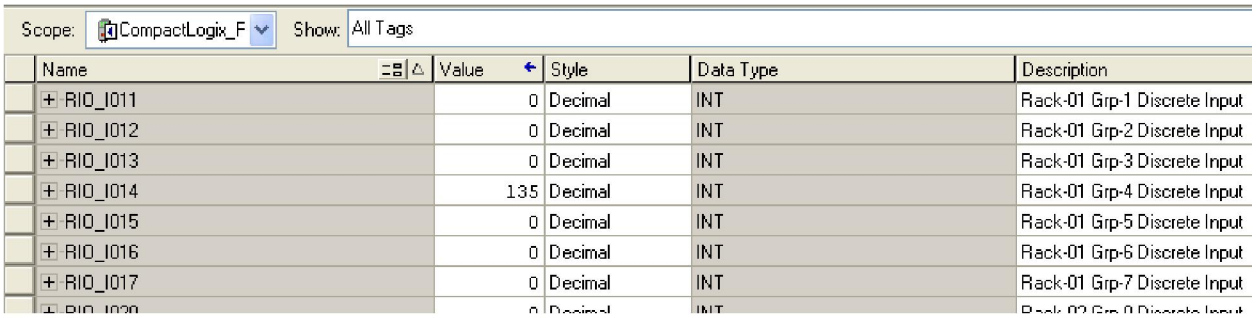


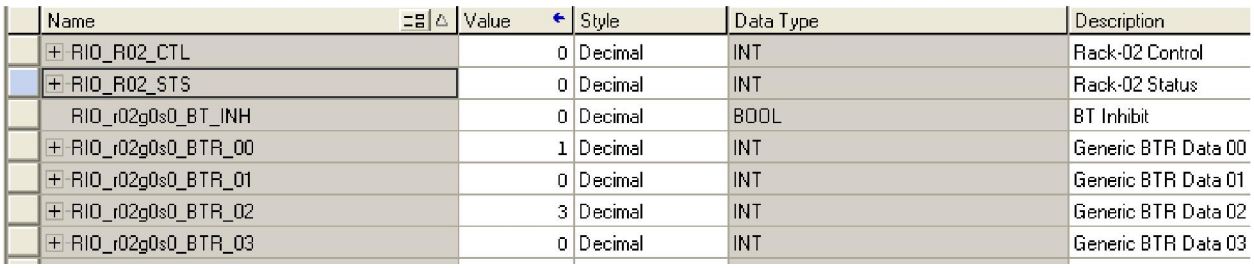
Step 10D: Importing Alias tags that the AN-X2 gateway generated

Select Import Tags and Logic Comments and then browse to where the Alias file was saved (default location: c:\Program Files\QtsAnx\AbRio\AnxAbRioAlias.csv)



Imported Tag Samples





Step 11: Write your control program using the Alias Tags to make future I/O and control Program migration activities simpler.

More information is available in the products user manual and/or in training videos which can be found at:

http://www.prosoft-technology.com/SERVICES-SUPPORT/Training

Conclusion

This document shows a sample on how to develop the Remote I/O configuration using the AnxAbRioCfgScan configuration tool and RSLogix 5000. If you have any additional questions please contact us.

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