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1. CONNECTING THE EDGE DEVICE TO YOUR COMPUTER

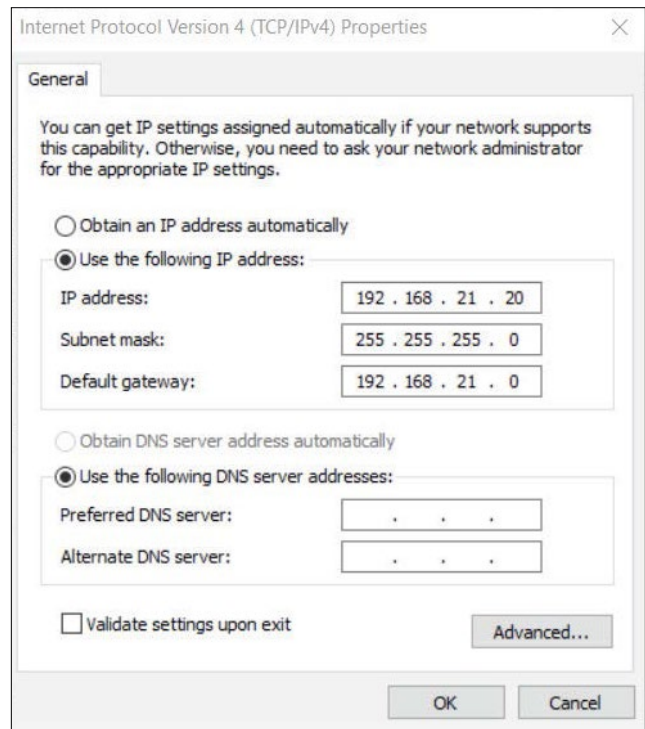
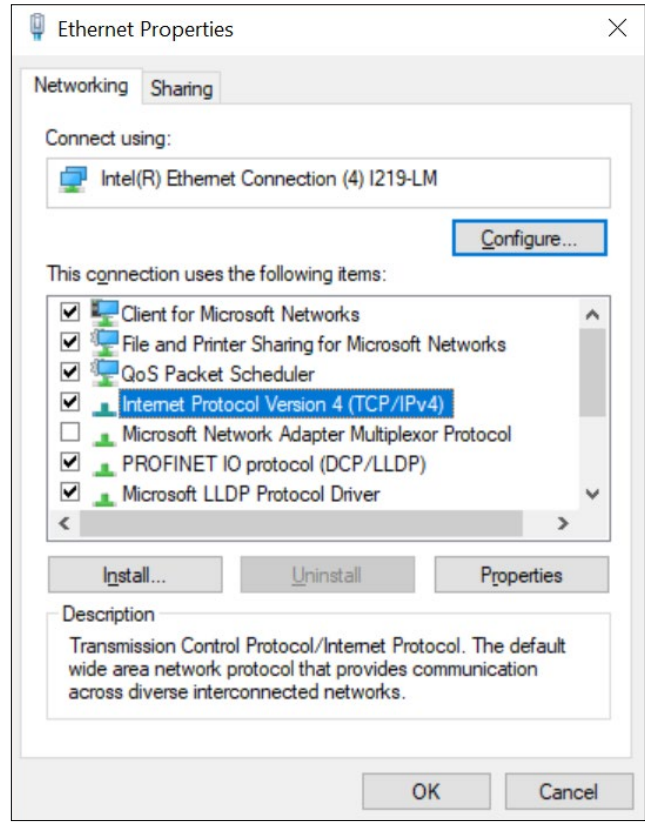
Prior to beginning this process, please connect an Ethernet cable from the Ethernet port of your PC to the WAN port (pictured below) on the Edge Device.



2. SET COMMUNICATION SETTINGS OF YOUR PC AND EDGE DEVICE

A. SET THE IP ADDRESS IN YOUR PC IN ORDER TO ASSIGN A NEW IP ADDRESS TO THE EDGE DEVICE. EXAMPLE BELOW IS WINDOWS.

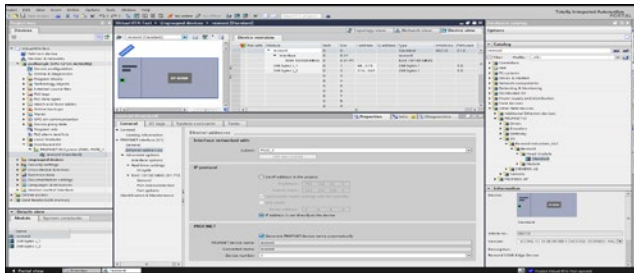
1. Open the Control Panel from your desktop.)
2. Select “Network and Internet”
3. Select “Network and Sharing Center”
4. Select “Change Adapter Settings”
5. Select Ethernet Adaptor.
6. Select “Internet Protocol Version 4”
7. Select “Use the Following IP Address
8. Use any address in the 192.168.21.xxx subnet that is not 192.168.21.2, 192.168.21.0, or your PLC’s configured IP address (default is 192.168.20.51)
9. Use this Subnet Mask: 255.255.255.0
10. Select “Ok”



3. ADAPTER CONFIGURATION SPECS

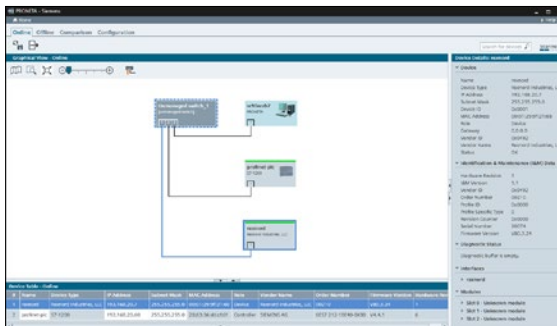
A. THE FOLLOWING PROCEDURE WILL SETUP SIEMENS PLC AS A PROFINET SERVER TO CONNECT TO REXNORD EDGE AS A PROFINET IO DEVICE.

1. Open Siemens PLC project.
2. Add the latest GSD (General Station Description) file provided by Rexnord for the Generation 3 Edge device (request by emailing: Connect.Support@Rexnord.com).
3. Add instance of Rexnord PROFINET IO device to the PLC project.
4. Configure the Rexnord module's slots 1 and 2 to read:
bytes slot 1 – 68...315
slot 2 – 316...563.
5. Configure Rexnord IO device IP Address as needed by project.



See Appendix for larger example on **page 4**.

6. Download project to PLC.
7. If necessary, configure Edge to use PROFINET PLC Type see document [SS3-011](#) (request by emailing: Connect.Support@Rexnord.com).
8. Perform initial configuration of Rexnord PROFINET IO device name and IP address as required by its usage. For example, use PRONETA.



See Appendix for larger example on **page 4**.

4. DATA MODEL SPECS

A. THE FOLLOWING LIST CAN BE USED TO CHARACTERIZE THE LOCATIONS OF THE DATA MODELED TO THE PLC THROUGH THE REXNORD DEVICE.

1. Data is to be read in entirety in signed integer form.
2. Registers are listed in order of occurrence in the data profile.
3. See table(s) on the following pages for registers.

Model Astec PlanetGear

Drum Drive

The following registers are Boolean (Y/N) data imbedded into integers.	
Register 10.0	Overall system warning
Register 10.1	Overall system severe
Register 11.2	Oil temperature is in a warning state
Register 11.3	Oil temperature is in a severe state
Register 11.4	Oil relative humidity is in a warning state
Register 11.5	Oil relative humidity is in a severe state
Register 12.0	Vibration is in a warning state
Register 12.1	Vibration is in a severe state
Register 14.1	At least one sensor is not working
Register 17.0	Breather Remaining Life is in warning state
Register 17.1	Breather Remaining Life is in severe state

The following registers are to be kept as integers.	
Register 100	Average relative humidity of the oil as a percent
Register 101	Oil temperature in degrees Centigrade
Register 105	Average RPM value of output shaft
Register 106	Ambient temperature in degrees Centigrade

Conveyor Drive

The following registers are Boolean (Y/N) data imbedded into integers.	
Register 10.0	Overall system warning
Register 10.1	Overall system severe
Register 11.2	Oil temperature is in a warning state
Register 11.3	Oil temperature is in a severe state
Register 12.0	Vibration is in a warning state
Register 12.1	Vibration is in a severe state
Register 14.1	At least one sensor is not working
Register 17.0	Breather Remaining Life is in warning state
Register 17.1	Breather Remaining Life is in severe state

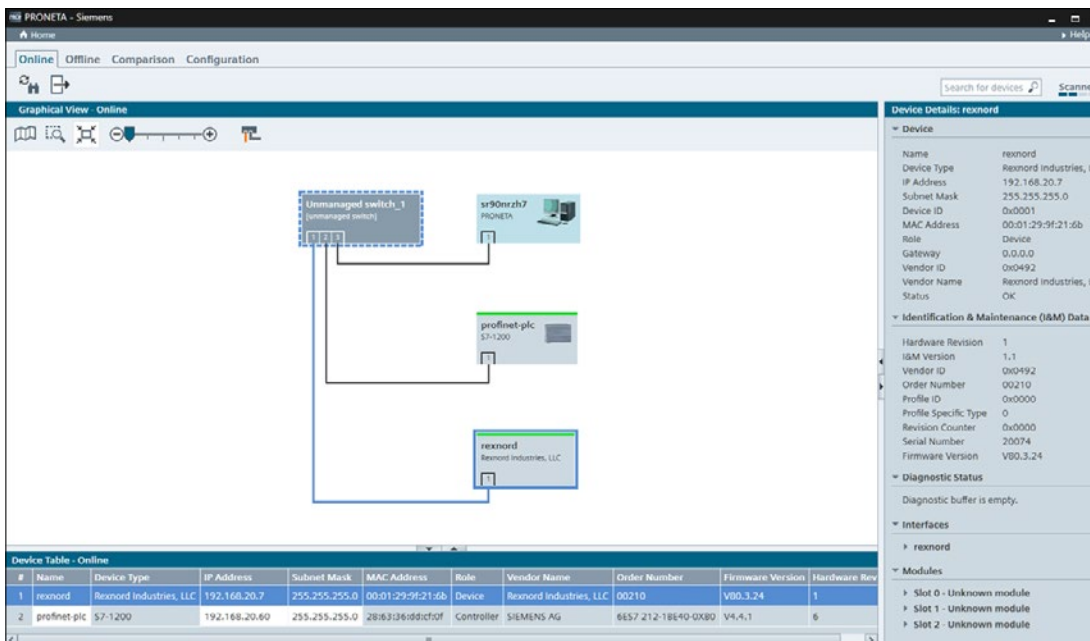
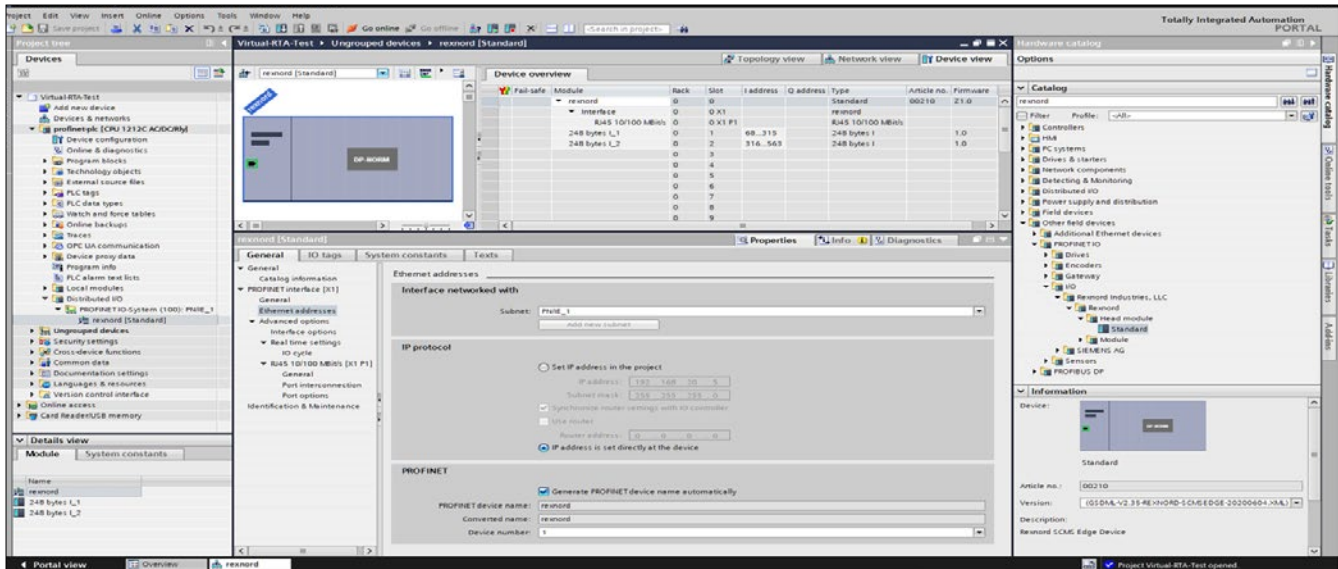
The following registers are to be kept as integers.	
Register 101	Oil temperature in degrees Centigrade

Note: Register values that are "unknown" are represented by specific values. This occurs when there is a missing or broken sensor. Most values are only positive values so a -1 or bit pattern 0xffff is the value that is used to represent a value that is "unknown", with the following exception:

- Temperature values that are unknown are represented with the value -99 degrees Centigrade

5. APPENDIX

Screen samples from Page 2.



Contact Information

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Internet: rexnord.com