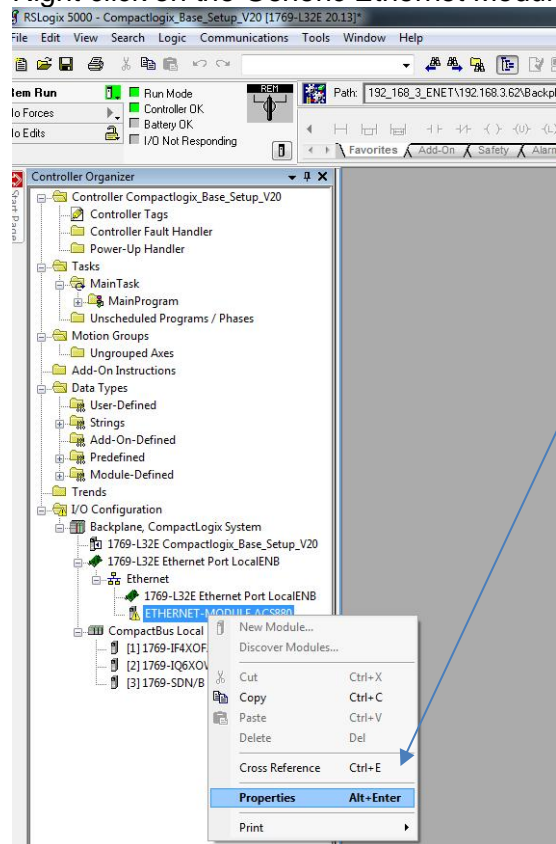


RSLOGIX 5000 ERROR CODES WHEN USING ETHERNET IP AND ABB DRIVES

Description:

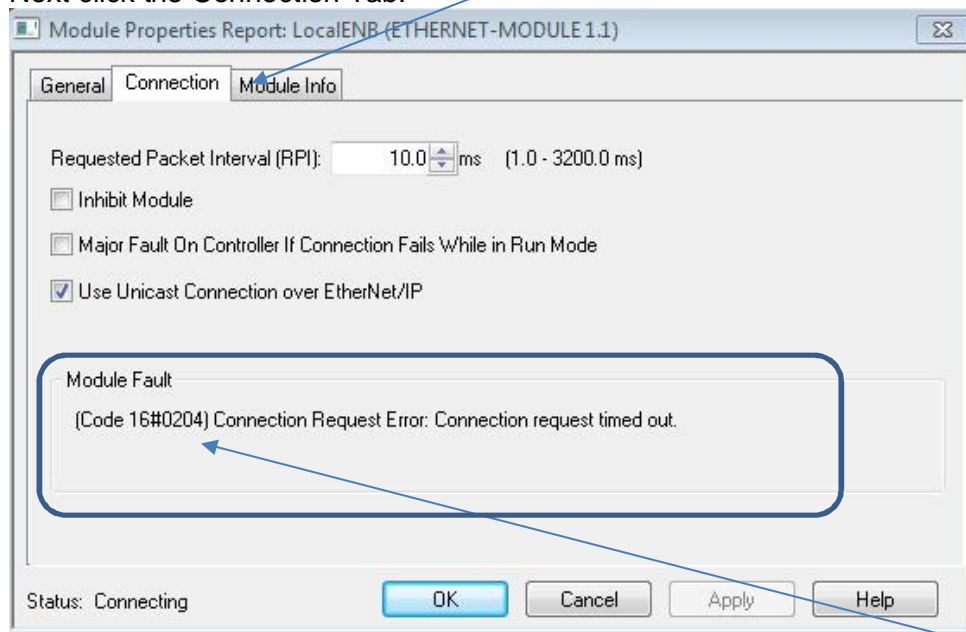
The RSLogix 5000 Error Codes or Module Fault # can be found under the connection Tab within the RSLogix 5000 software.

Right click on the Generic Ethernet Module and select Properties.



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Next click the Connection Tab.



The Error Codes or Module Fault # can be found in the following location.

Error Code 16#0204 = Connection Request Error: Connection request timed out.

Reason: The PLC can't locate the Drive at the given IP Address.

Things to check:

- Check to make sure DHCP is disabled if a Static IP Address is being programmed in the drive.
- Check the programming of the IP address of the Drive and Subnet. Check the programming of the IP Address in the PLC for the drive.
- Try to ping the drives IP address via a PC connected to the same network.
- Locate and correct the IP address problem.
- Check network wiring.

Error Code 16#012a = Connection Request Error: Invalid output application path.

Reason: There is a mismatch in the selected profile between the PLC and Drive.

Things to check:

- Check the Profile setting in the drive (FENA-xx parameter 51.02 or RETA-01 51.16) for the selected Assembly Instances that were chosen in the PLC.
- There is a mismatch in the selected profile (example the drive is programmed for ODVA Profile and the PLC is programmed for ABB Profile).

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Error Code 16#0127 = Connection Request Error: Invalid output size.

Reason: The connection words size is too large to fit in the programmed word array size in the PLC.

Things to check:

- Check the programmed connection size in the PLC and the drive (example the drive is sending 13 words and the PLC is programmed to 10 words).
- Also check to make sure the Comm Format is programmed to Data – INT in the PLC.

Error Code 16#0005 = Connection Request Error: Bad Class.

Reason: There is a mismatch in the selected profile between the PLC and Drive.

Things to check:

- Check the Profile setting in the drive (FENA-xx parameter 51.02 or RETA-01 51.16) for the selected Assembly Instances that were chosen in the PLC.
- There is a mismatch in the selected profile (example the drive is programmed for ODVA Profile and the PLC is programmed for ABB Profile).
- Also check the programmed connection size in the PLC and the drive (example the drive is sending 2 words and the PLC is programmed to 6 words).
- Also check to make sure the Comm Format is programmed to Data – INT in the PLC.

Error Code 16#0109 = Connection Request Error: Invalid connection size (Invalid Input size).

Reason: The connection words size for the Input is too large to fit in the programmed word array size in the PLC.

Things to check:

- Check the programmed connection size in the PLC and the drive (example the drive is sending 2 words and the PLC is programmed to 4 words).
- Also check to make sure the Comm Format is programmed to Data – INT in the PLC.

Error Code 16#0111 = Requested Packet Interval (RPI) out of range.

Reason: The programmed RPI rate is lower then allowed by the Fieldbus option.

Things to check:

- Increase the RPI rate in RSLogix 5000, this can be found under the Connection Tab.

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Documents or other reference material:

FENA-01/-11/-21 Ethernet adapter module user's manual

3AUA0000093568

Basic Guide to Communications ODVA
(ControlNet, DeviceNet and EtherNet/IP), US

LVD-PNTG03U-EN

RETA-01 Ethernet Adapter Module User's Manual

3AFE64539736

Corrective Actions:

Follow the instructions above.

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