Easy integration into EtherNet/IP networks

EIP-Assist

DG1

S811+

C441 Motor Insight

While continuous innovative technologies within motor controls have presented exciting opportunities for users to better manage their applications, they have also presented one major challenge—increased integration costs and time to configure these new technologies. Startup procedures have migrated from setting various dials and switches to designing fully networked systems of intelligent components. As a result, network commissioning and integration time is often the longest delay on a motor control center project.

Challenge

In North America, EtherNet/IP (Ethernet Industrial Protocol) is quickly becoming an industry standard for large networked systems and is currently managed by the Open DeviceNet Vendors Association (ODVA). Because of the original ties to Rockwell Automation, it is very common for EtherNet/IP systems to be based on Rockwell Automation Programmable Logic Controllers (PLC). Rockwell PLCs are typically configured with the RSLogix™ 5000 software package for EtherNet/IP applications. Configuring non-Rockwell motor control solutions with Rockwell RSLogix 5000 software has historically presented challenges for users based on the additional steps required for tag generation.

Supported products

Starter	Soft-Starter	VFD
C440	S611	DG1
C441	S811+	SVX/SPX
C445	—	DA1

Solution

Eaton's new EIP-Assist is a simple software tool that allows users to more easily integrate Eaton low-voltage motor control solutions directly into Rockwell RSLogix 5000 software. This provides several benefits to a Rockwell PLC user:

- **Provides cost savings**
  Users save money with reduced integration costs and the ability to specify Eaton products that often have reduced service, support and maintenance costs

- **Reduces programming time**
  Users save time through eliminating the need to manually document the I/O tags associated with Eaton products

- **Easy-to-use design**
  Users can simply click on the products they wish to use for the application within EIP-Assist and import the CSV (comma separated values) file that is generated directly into RSLogix 5000

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How to use EIP-Assist

Download EIP-Assist (free of charge)	• EIP-Assist can be downloaded from www.eaton.com/software • Install EIP-Assist on your PC and open up the tool
Select Products, Enter Quantity	• Select the product (starter, soft-starter, VFD) that you wish to configure • Enter the number of devices in your application • Continue this process until you have entered all devices
Select I/O Assembly Pairs	• Select the I/O Assembly Pair that you wish to use for your application • Detailed information on I/O Assembly Pairs can be found in the individual product manuals
Name the File and Products	• Name each device within your project (Example: C441_Pump1) • Name the CSV file generated by EIP-Assist **Note:** These device names must match the names you create in RSLogix 5000.
Add Products in RSLogix 5000	• Create each device in RSLogix 5000; device names must match above **Note:** If using RSLogix 5000 Version 20 or later, EDS (electronic data sheets) can be downloaded and used from www.eaton.com/software.
Import File into RSLogix 5000	• Import the CSV file from EIP-Assist into RSLogix 5000 • All I/O tag descriptions are now directly imported for each device, eliminating the need to type them in manually

Before EIP-Assist

Name	Value	Description
⊟ C441R:I1	[. . .]	
⊟ C441R:I1.Data[0]	0	
C441R:I1.Data[0].0	0	
C441R:I1.Data[0].1	0	
C441R:I1.Data[0].2	0	
C441R:I1.Data[0].3	0	
C441R:I1.Data[0].4	0	
C441R:I1.Data[0].5	0	
C441R:I1.Data[0].6	0	
C441R:I1.Data[0].7	0	
⊞ C441R:I1.Data[1]	0	
⊞ C441R:I1.Data[2]	0	
⊞ C441R:I1.Data[3]	0	

After EIP-Assist

Name	Alias For	Description
⊟ C441R:I1		
⊟ C441R:O1		
⊞ C441R:O1.Data		
C441R_DeviceStatusTrip	C441R:I1.Data[0].0	Trip
C441R_DeviceStatusWarn	C441R:I1.Data[0].1	Warn
C441R_DeviceStatusOutput1	C441R:I1.Data[0].2	Output 1
C441R_DeviceStatusOutput2	C441R:I1.Data[0].3	Output 2
C441R_DeviceStatusInput1	C441R:I1.Data[0].4	Input 1
C441R_DeviceStatusInput2	C441R:I1.Data[0].5	Input 2
C441R_DeviceStatusInput3	C441R:I1.Data[0].6	Input 3
C441R_DeviceStatusInput4	C441R:I1.Data[0].7	Input 4
C441R_DeviceStatusOloadPowerLost	C441R:I1.Data[1].0	Overload Power Lost
C441R_DeviceStatusCommAdaptLowVolt	C441R:I1.Data[1].1	Comm Adapter Low Voltage
⊞ C441R_CurrentI1L	C441R:I1.Data[2]	Phase A RMS Current

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