Acromag®

BusWorks® 900EN Series
10/100 Mbps Industrial Ethernet I/O Modules

APPLICATION NOTE

Communicating To Acromag Series 9xxEN-60xx Ethernet Modules Using PCCC From Compact Logix Devices

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OBJECTIVE

This document illustrates a procedure for configuring PCCC message commands for Acromag Series 9xxEN Ethernet/IP modules using ladder logic programming and a Compact Logix Controller. It is assumed that the user has a working knowledge of ladder logic programming, the RSLogix5000 software, and the Compact Logix hardware.

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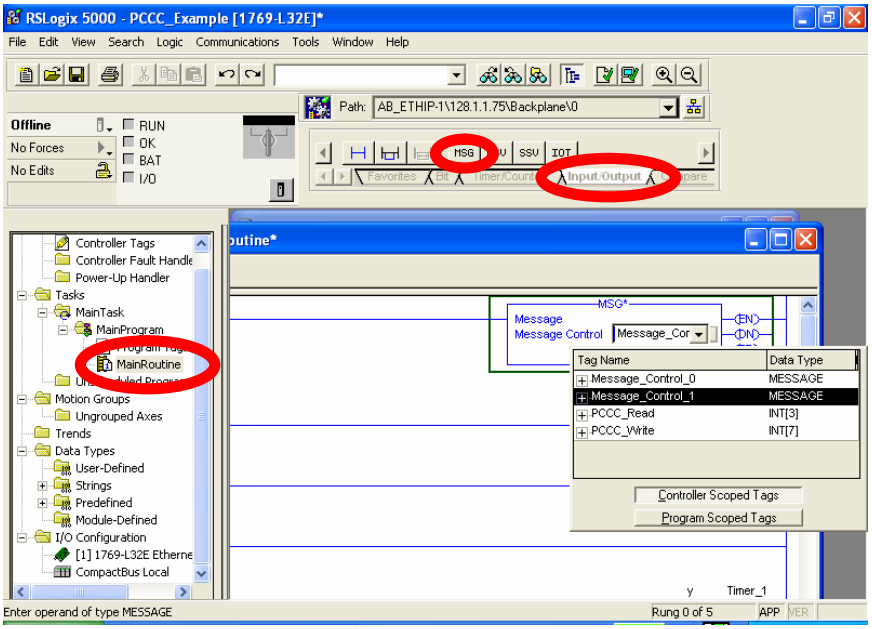
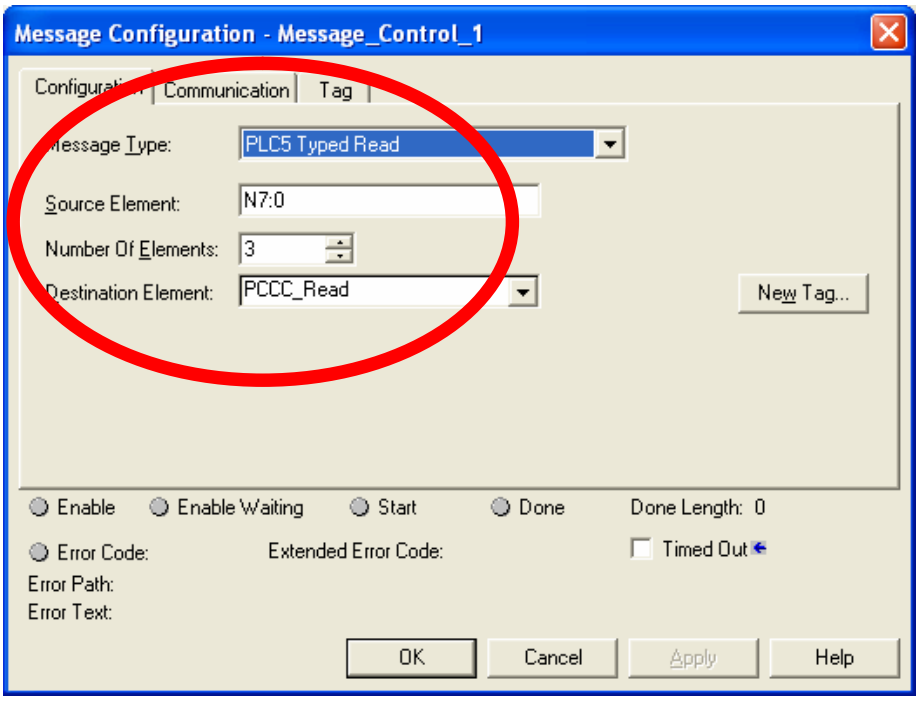
PCCC MESSAGING WITH COMPACTLOGIX



Configuring PCCC Messaging Using CompactLogix in Ladder Logix 5000

1. In the **Controller Organizer** box, double click on **MainProgram** -> **MainRoutine**. Next in the **Language Element** window, click on the **Input/Output** tab and click the **MSG** button. This will add a message box to your program. Make sure in the **Message Control** dropdown menu to select a suitable message tag. After double clicking the message tag, click on the "**…**" button in the **MSG** box..

   The **Message Configuration** window will open.



2. For a PCCC Read select **PLC5 Typed Read** as the **Message Type**. The **Source Element** is the starting address of the registers to be read. In the figure to the left the starting value is N7:0

   The **Number Of Elements** is the number of addresses to be read. In the same example, the addresses being read are N7:0, N7:1, and N7:2.

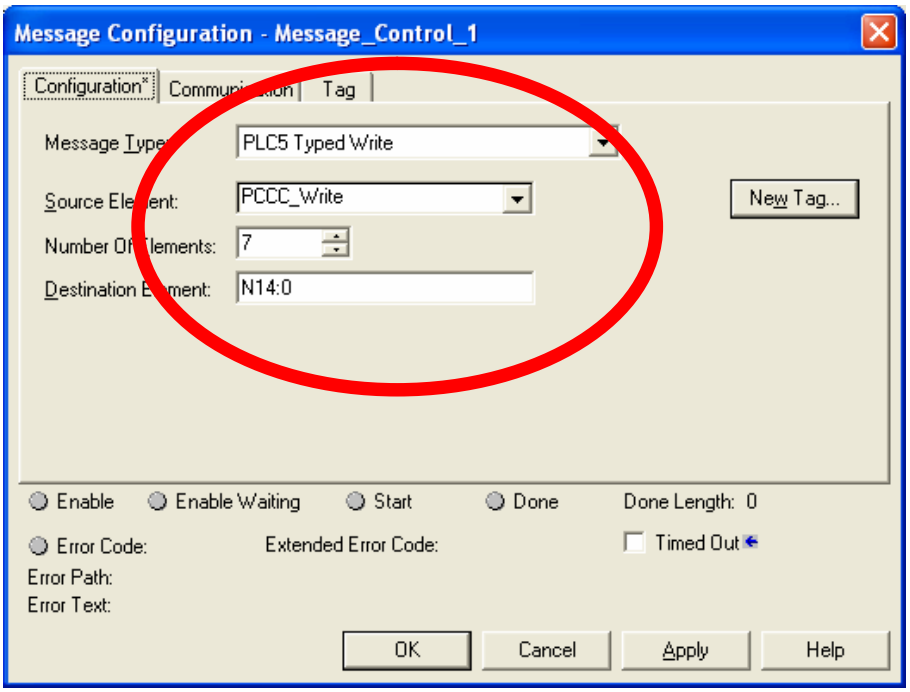
   The **Destination Element** dropdown menu is where the information from the module will be stored. Here you want to select an INT tag array. Make sure the number of array slots is at least equal to the number of elements read.

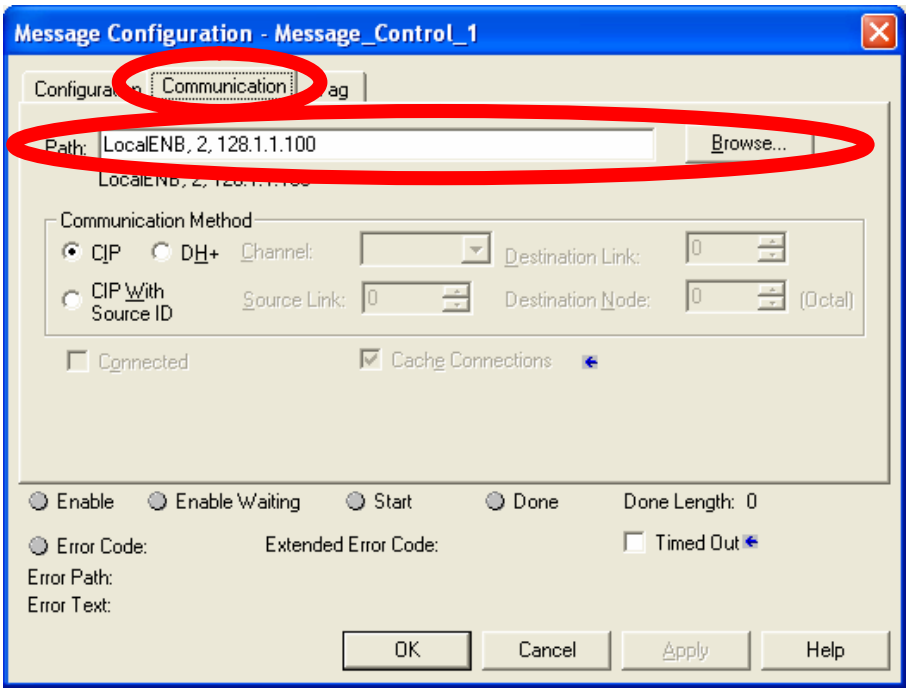
3. For a PCCC write, select **PLC5 Typed Write** in the **Message Type** dropdown menu. The **Source Element** will be an INT tag array. Make sure the number of array slots is at least equal to the number of elements written to.

   The **Number Of Elements** is the number of addresses to be written to. The example will write addresses N14:0 to N14:6.

   The **Destination Element** is the starting element to be written to. In the example to the right, the registers to be written to start at N14:0.

   Note: The locations for the attributes are found in the User's Manual under the Ethernet/IP section.





4. Click on the **Communication** tab near the top of the window. For the **Path** text box, enter the information shown below. Please change the values below to coexist with your system configuration.

   LocalENB: The name of the 1769-ENBx module in the local chassis

   2: Ethernet port of the 1769-ENBx module in the local chassis

   128.1.1.100: IP address of the Acromag EN9xx-60xx Module

5. Download the program to the CompactLogix controller and turn the key to the **Run** position to start program.

Note: MSG commands will only execute once. For continuous read/write commands, loops must be implemented in the MainRoutine.