

How To Use the DC1/DE1 Add-On Instructions

Below is a procedure on how to import an Add-On Instruction and use it in the Main Routine of an RSLogix 5000 project.

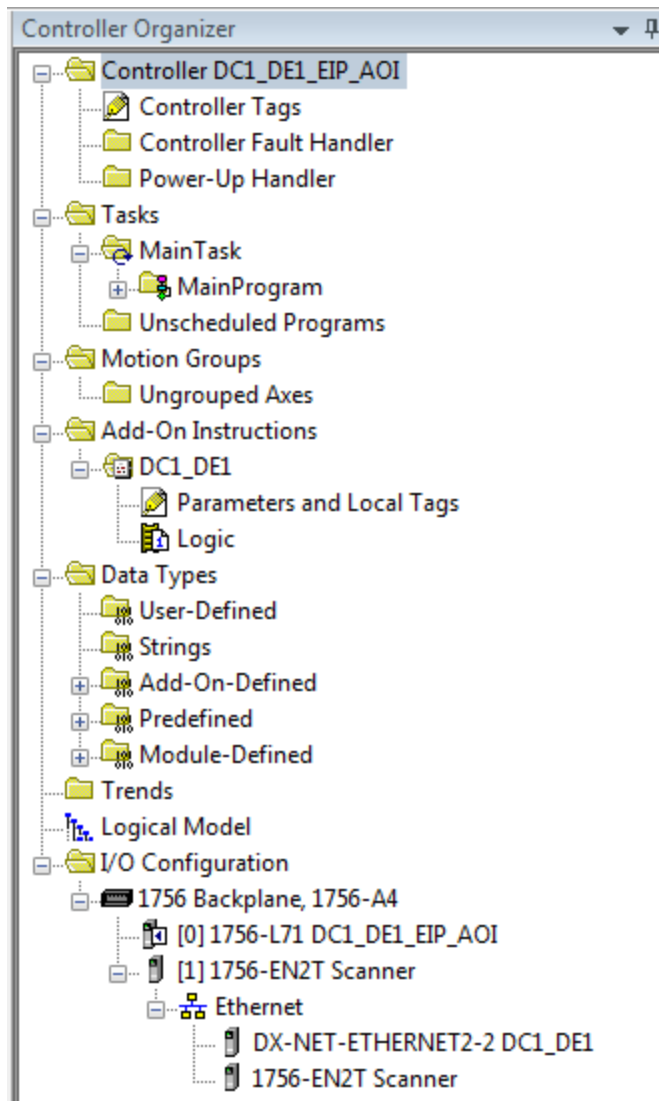
Before importing the Add-On Instruction, add the DC1 or DE1 Drive to the Ethernet/IP network in RSLogix 5000 using the DX-NET-ETHERNET2-2 EDS file. This file can be found on the Eaton website, www.eaton.com/drives.

Be sure to use the INT data type for the I/O assemblies when entering the DC1 or DE1 into RSLogix 5000.

The DC1/DE1 drive Add-On Instruction provides Speed Actual and Speed Reference values in floating point format. The program also takes care of the scaling, so the speed values are in 60.0 Hz (frequency) for example. These values are scaled as 0-600 or 0-60.0 Hz.

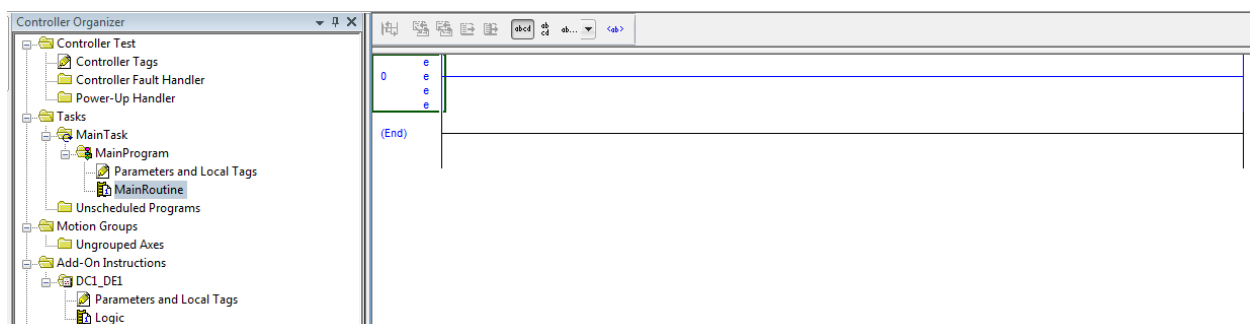
To use the DC1/DE1 drive Add-On Instruction, open the RSLogix 5000 project where it will be used.

Right click on Add-On Instructions on the tree on the left of the screen and select Import Add-On Instruction. Locate the Add-On Instruction on your computer and select Open. The tree in RSLogix 5000 should look like the following:

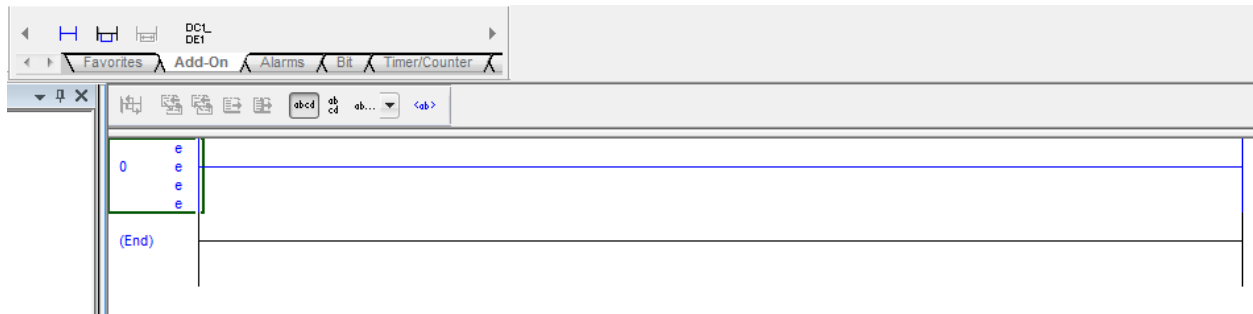


The parameters, tags and logic for this Add-On Instruction are available to view under Add-On Instructions and DC1_DE1.

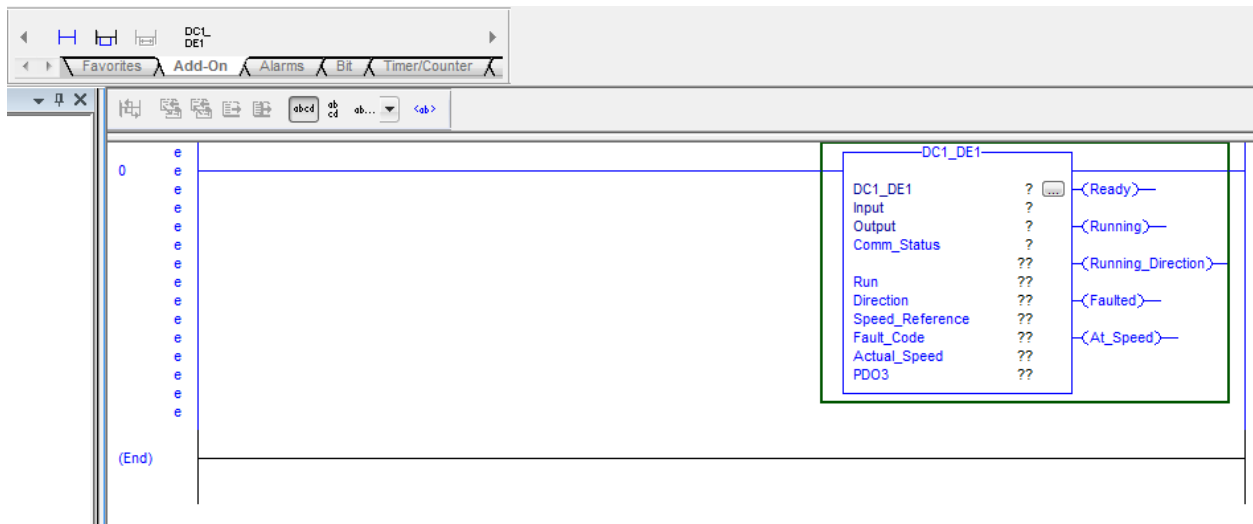
To add this Add-On Instruction to the Main Routine, open the Main Routine as shown below:



In the area above where logic is entered are all of the available instructions. Select the category called Add-On and the DC1_DE1 Add-On Instruction will be displayed above, as shown below.



Select the DC1_DE1 AOI to add it to your program as shown below.



Right click on the ? associated with "DC1_DE1" and enter a name for this AOI block on the screen that is displayed as shown below. For this example, DC1_DE1 is used for the name.

New Parameter or Tag

Name: DC1_DE1 Create

Description:

Usage: Local Tag

Type: Base Connection...

Alias For:

Data Type: DC1_DE1 ...

Parameter Connection:

Scope: MainProgram

External Access: Read/Write

Style:

☐ Constant

☐ Sequencing

☐ Open Configuration

☐ Open Parameter Connections

Cancel Help

Be sure all fields have the selections shown above, then select Create.

Add the Input and Output addresses by double clicking the ? next to each one and select the addresses as shown below. Do the same for Comm_Status, using the ConnectionFaulted tag under the DC1_DE1:I.Data.

The Logic area for the Add-On Instruction associates the generic I/O tags RSLogix 5000 creates with the descriptive tags shown above. These generic I/O tags are created when a device is added to the Ethernet network. The generic I/O tags can be found in the Controller Tags area.

The descriptive tags shown above may now be used to control and monitor the DC1 or DE1.