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Technical Note

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MVI56(E)-GSC Add-On Instruction Installation Guide

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Add MVI56(E)-GSC to ControlLogix with an Add-On Instruction for RSLogix™ 5000 Version 16

In This Chapter

Introduction

Beginning with version 16 of RSLogix™ 5000 software, Rockwell Automation added an extremely helpful feature to make it easier that ever to set up third party modules, custom code, or proprietary code. They called this new feature an "Add-On Instruction" (AOI). This AOI feature allows third party vendors, panel builders, and system integrators to create ladder logic code that can be protected for safety or security reasons and can be locked to ensure that the code remains unchanged.

ProSoft Technology®'s inRAx® Generic ASCII Serial Communication Module for ControlLogix®, the MVI56(E)-GSC, is provided with an Add-On Instruction to allow easy integration of the module into new or existing RSLogix 5000 Version 16 and newer projects.

ProSoft Technology® has enhanced the MVI56(E)-GSC module's Add-On Instruction in a way that will significantly simplify installation.

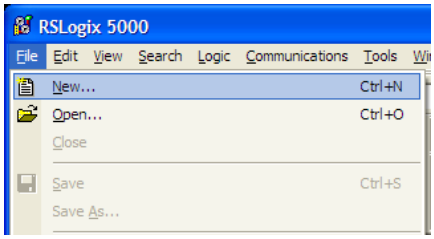
Now users can integrate the module into a new or existing project by importing a single ladder logic import file, as opposed to importing multiple User Defined Data Types and ladder logic rungs, one-by-one.

The entire ladder logic required by the MVI56(E)-GSC is encapsulated in one, single Add-On Instruction. And, when the ladder logic .L5X file is imported, it automatically creates all the required User-Defined Data Types, Controller Tags, and the Add-On Instruction logic, all while adding the preconfigured AOI instruction to the ladder rung.

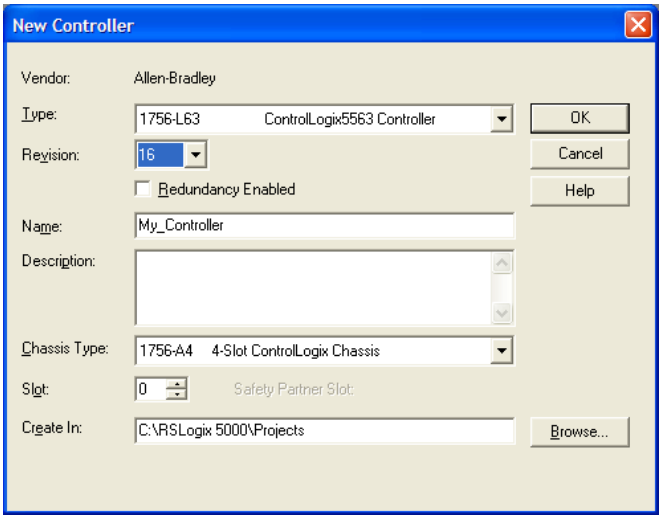
This new way of importing an AOI as a completed ladder rung enables quicker and easier integration of the MVI56(E)-GSC with fewer chances for human typographical errors and ladder coding or setup errors.

Instructions

1 Open the **FILE** menu, and then choose **NEW**…

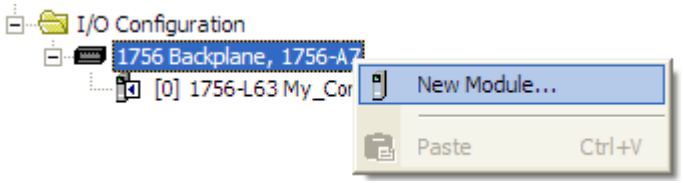


2 Select Revision **16**.

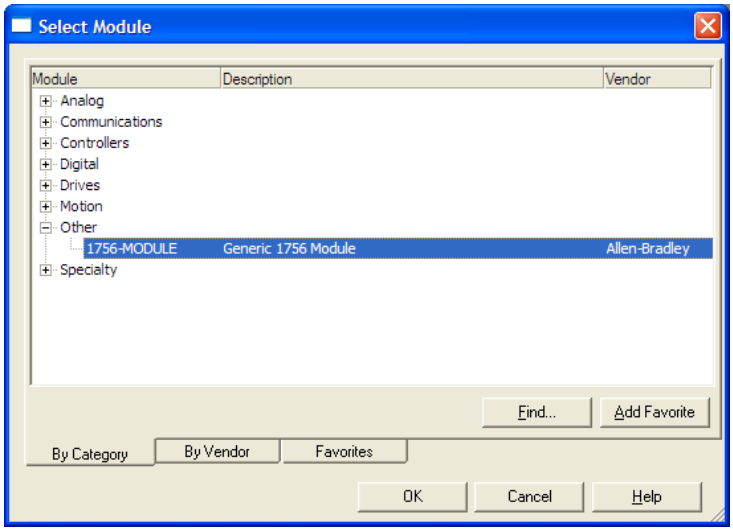


3 Add the MVI56(E)-GSC module to the project.

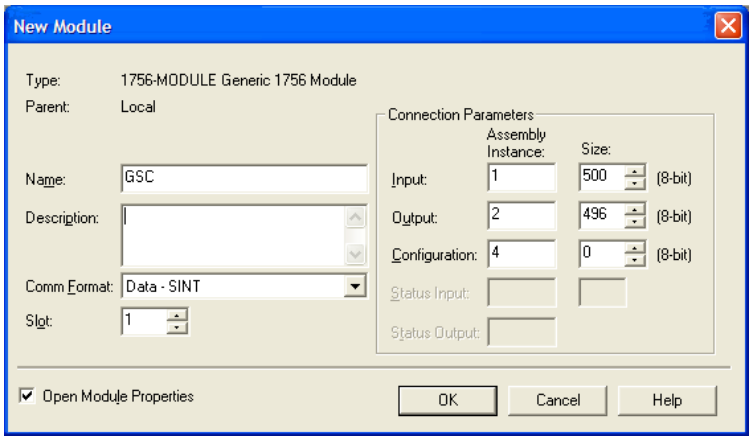
In the **CONTROLLER ORGANIZATION** window, select **I/O CONFIGURATION** and click the right mouse button to open a shortcut menu. On the shortcut menu, choose **NEW MODULE...**



This action opens the **SELECT MODULE** dialog box.



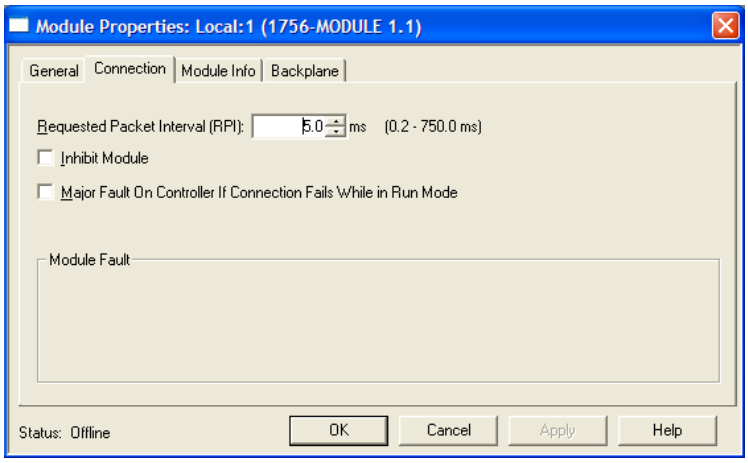
4 Select the **1756-MODULE (GENERIC 1756 MODULE)** from the list and click **OK.** This action opens the **NEW MODULE** dialog box.



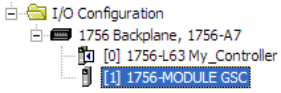
5 Set the Module Properties values as follows:

Parameter	Value
Name	Enter a module identification string. Example: Generic ASCII Serial
Description	Enter a description for the module. Example: Generic ASCII Serial Communication Module.
Comm Format	Select DATA-SINT.
Slot	Enter the slot number in the rack where the MVI56(E)-GSC module is located.
Input Assembly Instance	1
Input Size	500
Output Assembly Instance	2
Output Size	496
Configuration Assembly Instance	4
Configuration Size	0

6 On the Connection tab, set the RPI value for your project. Click OK to confirm.



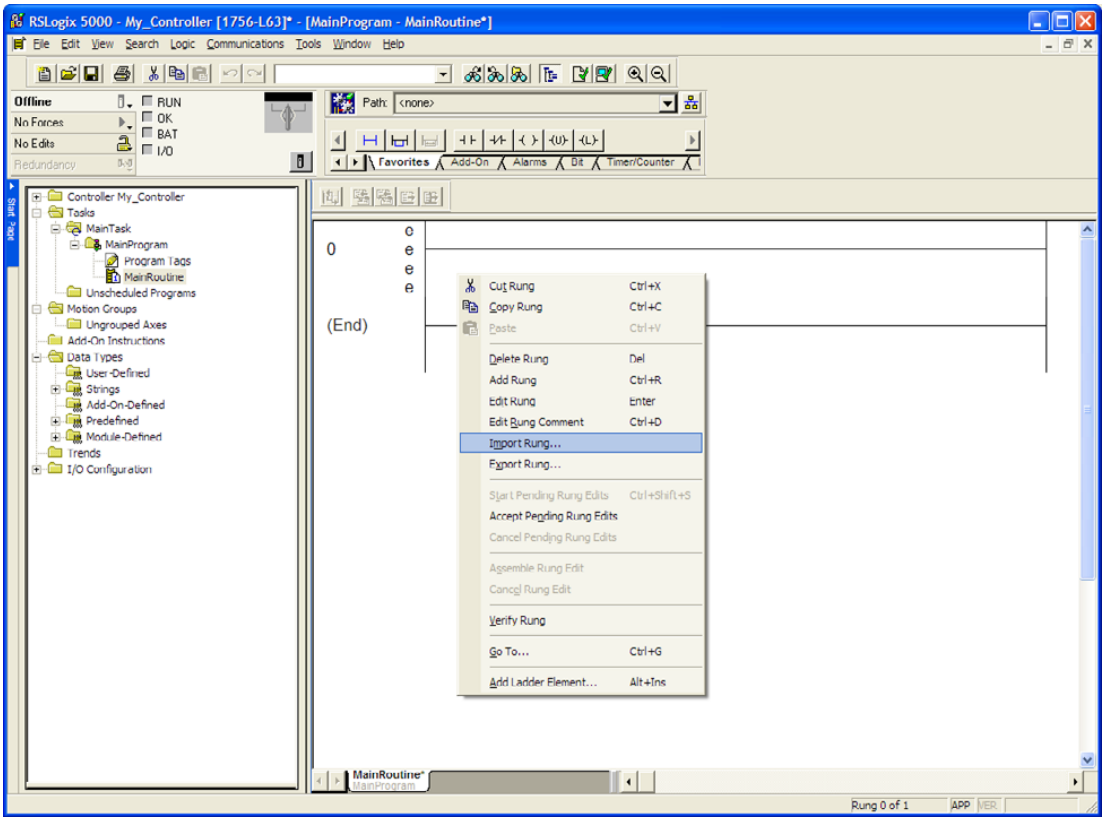
The **MVI56(E)-GSC** module is now visible in the **I/O CONFIGURATION** section.



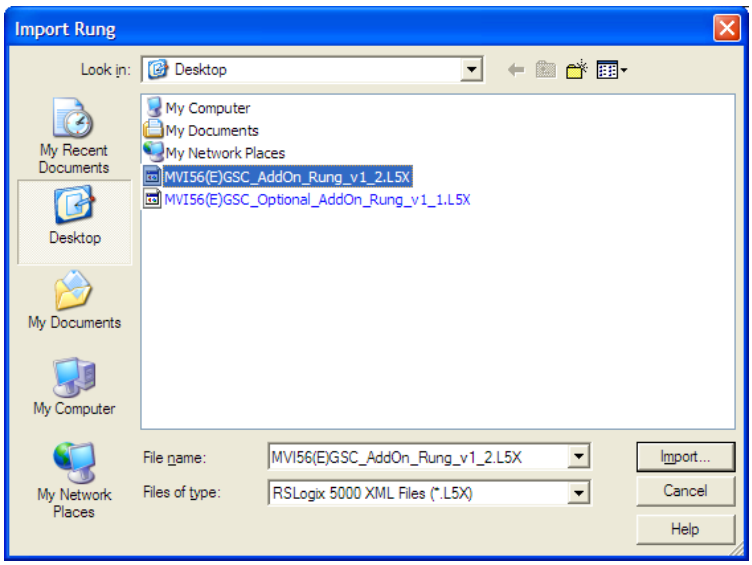
7 In the **CONTROLLER ORGANIZATION** window, expand the **TASKS** folder and subfolder until you reach the **MAINPROGRAM** folder.

8 In the **MAINPROGRAM** folder, double-click to open the **MAINROUTINE** ladder.

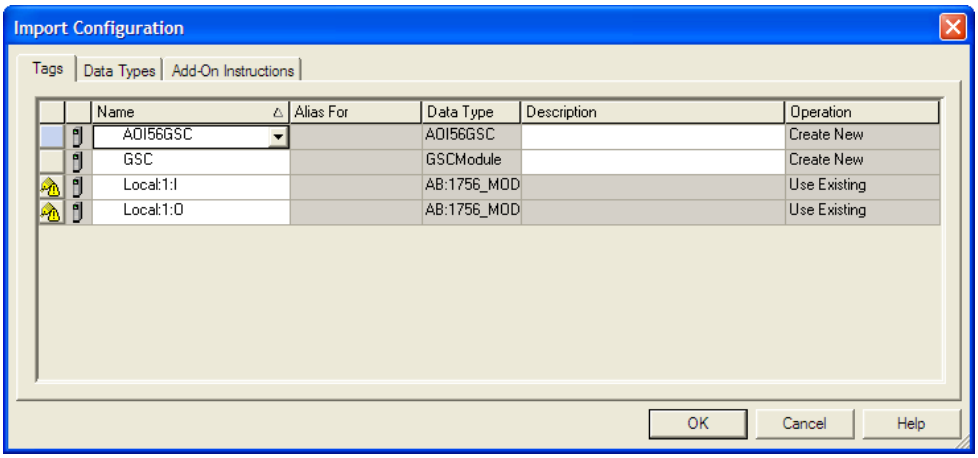
9 Select an empty rung in the new routine, and then click the right mouse button to open a shortcut menu. On the shortcut menu, choose **IMPORT RUNG…**



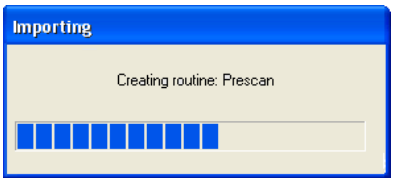
10 Navigate to the location on your PC where you saved the Add-On Instruction (for example, "My Documents" or "Desktop"). Select the **MVI56(E)GSC_ADDON_RUNG_V1_2.L5X** file



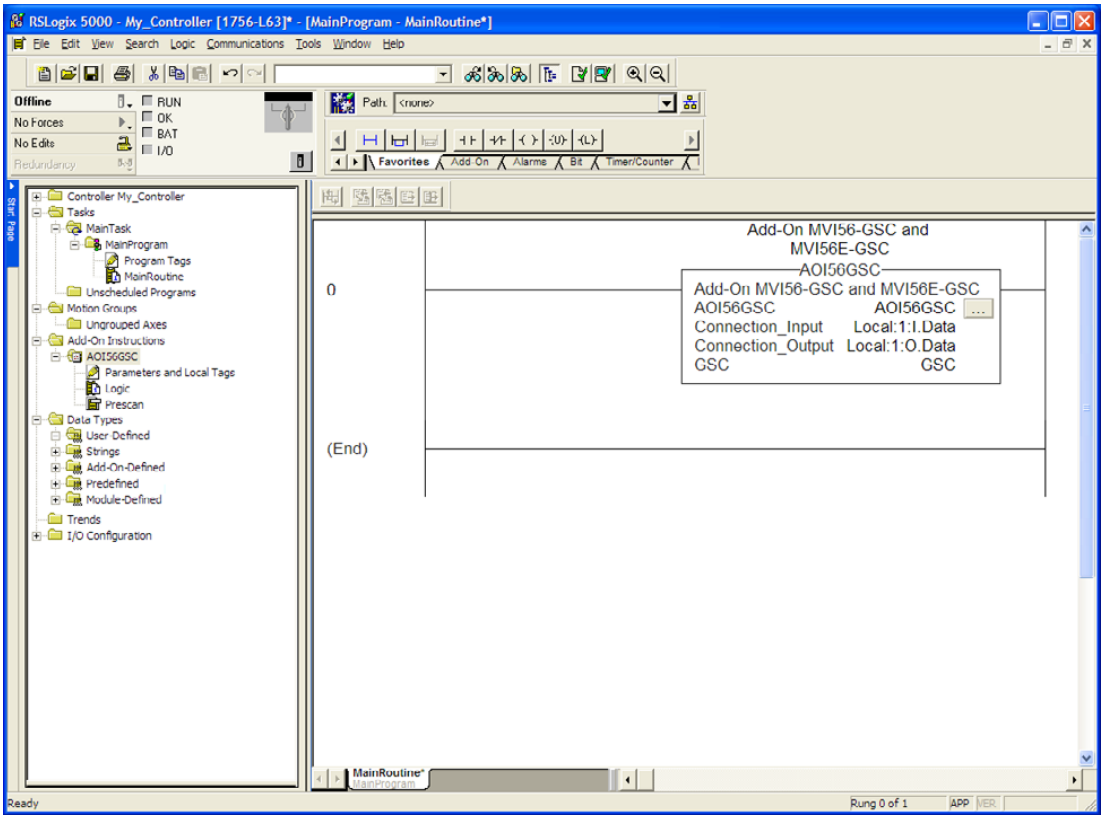
This action opens the **IMPORT CONFIGURATION** dialog box, showing the controller tags that will be created.



11 Click **OK** to confirm the import. RSLogix will indicate that the import is in progress:



When the import is complete, you will see the new Add-On Instruction rung in the ladder.



The procedure has also imported new User Defined Data Types, data objects and the Add-On instruction for your project.

Benefits

This process for importing the MVI56(E)-GSC ladder logic as an RSLogix Add-On Instruction rung file has replaced the practice of creating or copying multiple User Defined Data Types and ladder logic rungs, one-by-one. This makes the process easier, quicker, and less error-prone.

This enhancement allows quick and easy integration with existing or new applications without retyping or manually copying files which can lead to typographical errors. Any errors that do occur are significantly easier to correct.