

Advantech AE Technical Share Document

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Category	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP	Related OS	N/A
Abstract	ADAM-6000 and ADAM-6200, How to configure and test GCL remote message function		
Keyword	ADAM-6000, ADAM-6200, GCL, Remote Message, Wireshark, Adam/Apax .NET utility		
Related Product	ADAM-60XX and ADAM-62XX		

■ **Problem Description:**

For ADAM-6000 and ADAM-6200 series, it is advertised that they have the GCL function to send out the remote message to the host with a particular IP address. (Figure 1)
 What's the detail setting procedure in the GCL? How could I test in the host PC to receive these messages?

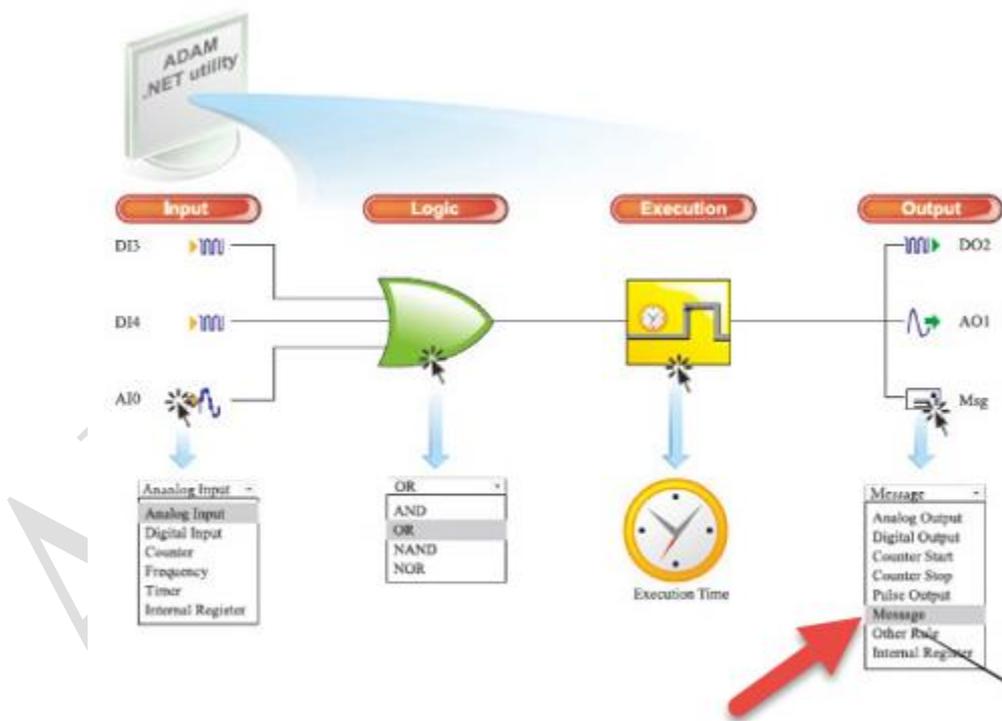


Figure 1

■ **Enable the Remote Message in the GCL - Step by Step:**

1. Find the ADAM module with the utility, click the GCL icon to enter the GCL interface, enter the program mode and enable a rule. (Figure 2)

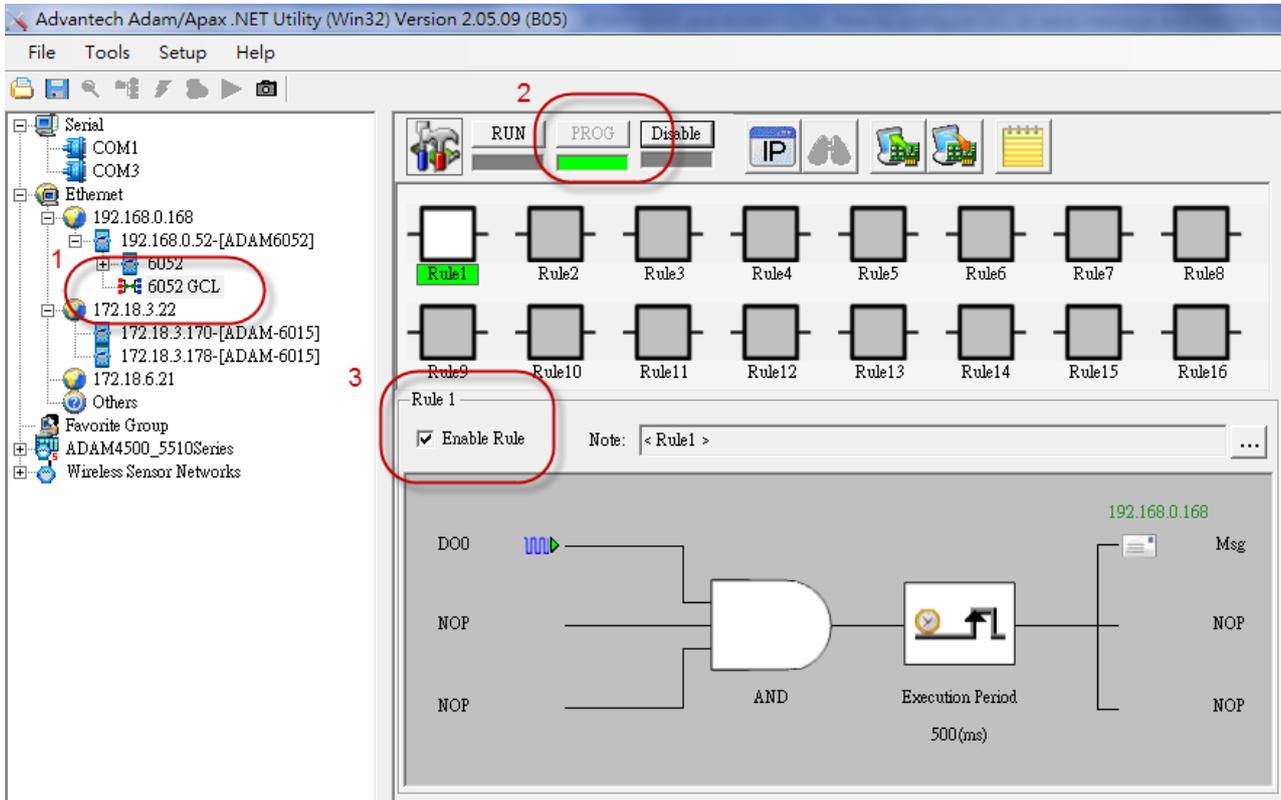


Figure 2

2. Configure the input, logic, condition/period accordingly with the proper setting. (Figure 3)

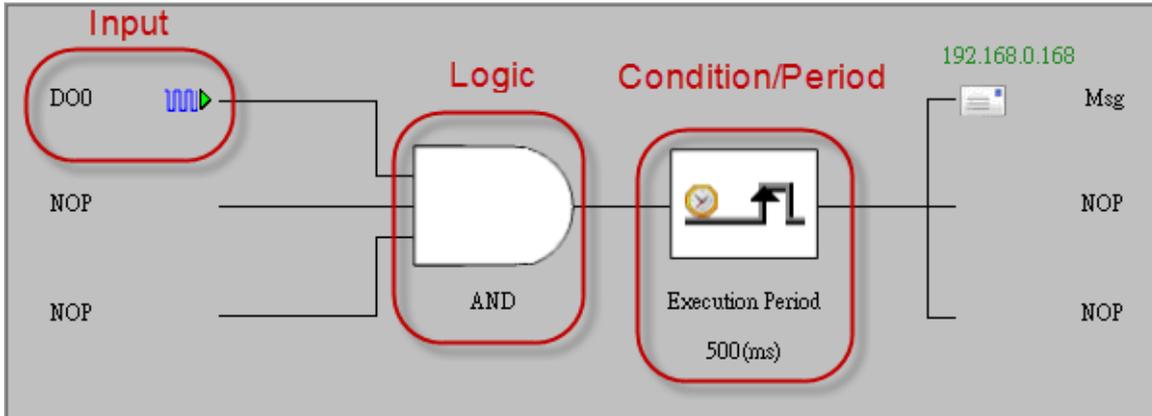


Figure 3

3. Click the output of GCL and edit the IP table. (Figure 4)

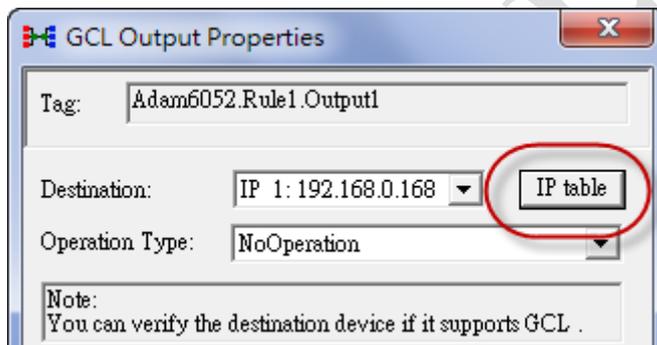


Figure 4

4. Enter the IP of host PC in the IP table. (Figure 5)

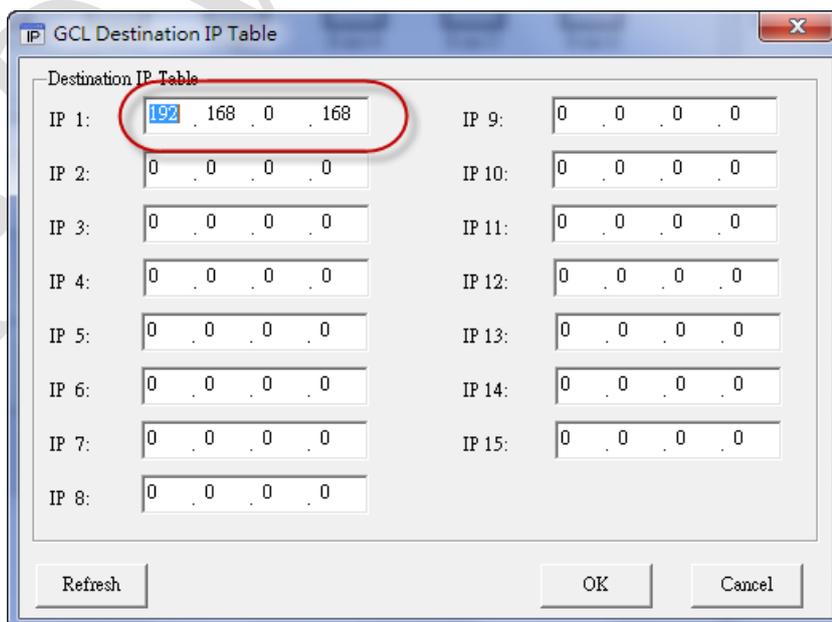


Figure 5

5. Select the operation type as “Remote Message” and enter the message to be sent. (Figure 6)

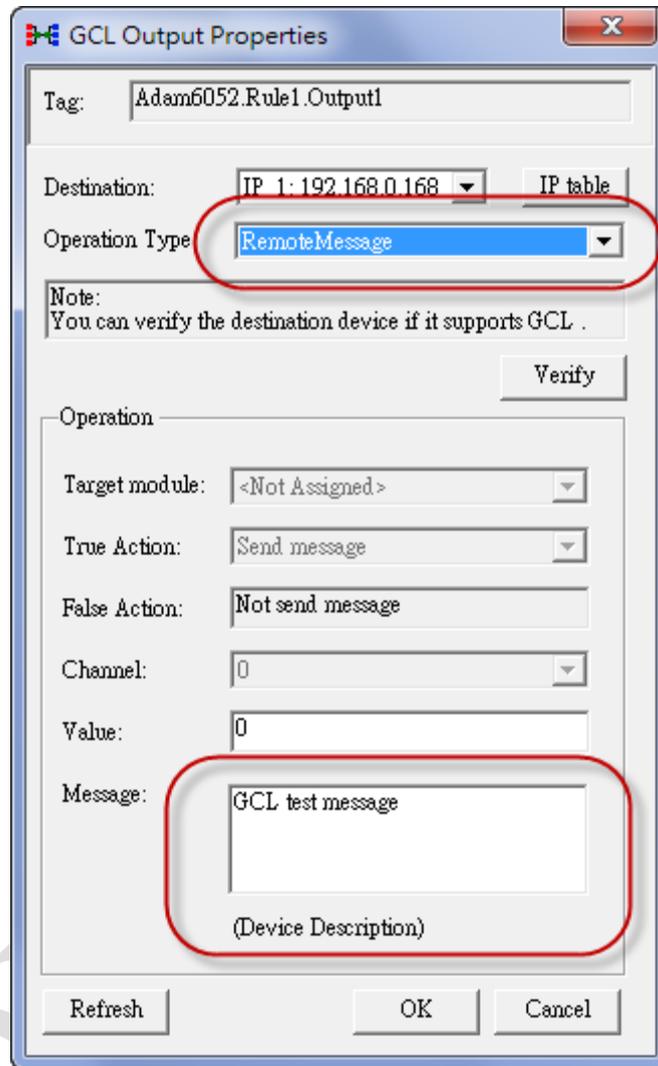


Figure 6

7. Download the GCL project to the ADAM. (Figure 7)

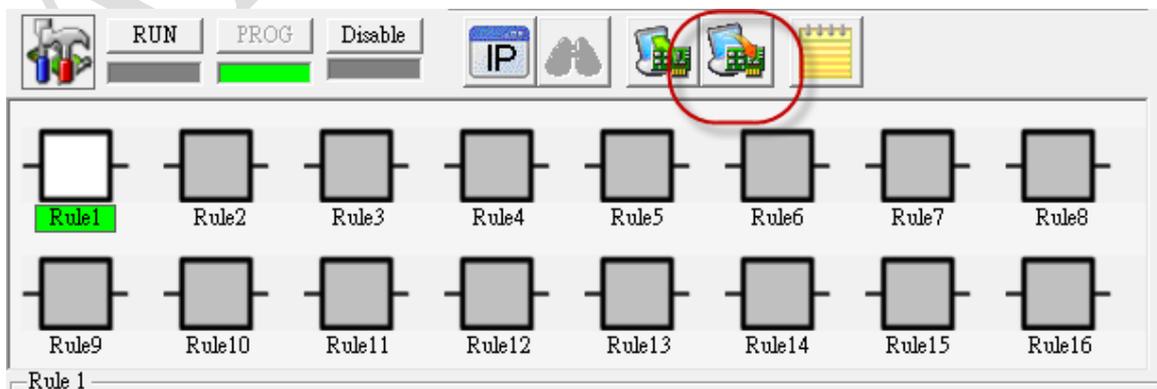


Figure 7

8. Click run button in the GCL interface to run the GCL rule. (*Figure 8*)



Figure 8

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■ **Monitor the GCL IO Data Message with Adam/Apax .NET utility - Step by Step:**

1. Select the IP of Ethernet card that ADAM connected to. (Figure 9)

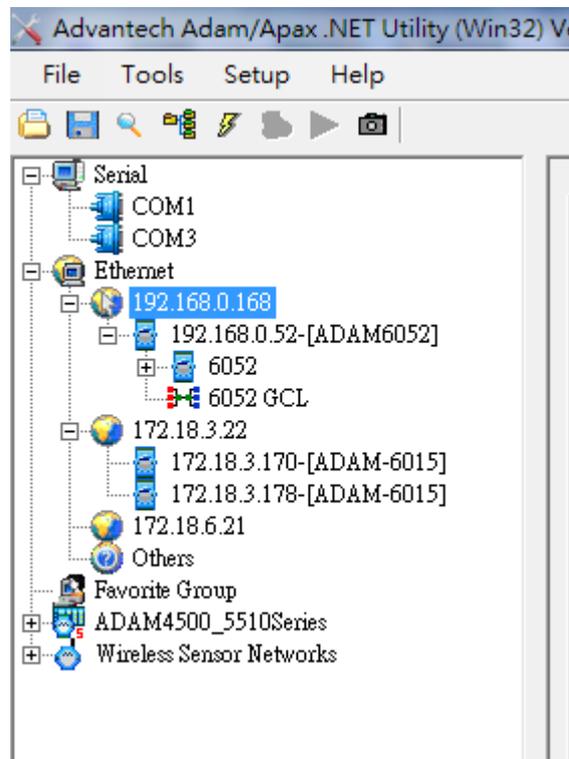


Figure 9

2. Click Tools → Monitor GCL IO Data Message. (Figure 10)

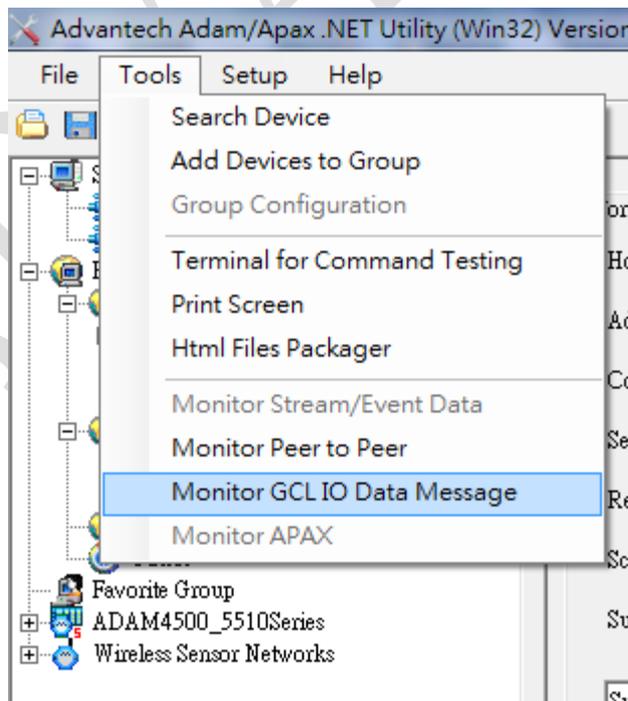


Figure 10

3. The port of GCL message is same as port for the data streaming function (Default port number is 5168.)

User should be able to see the predefined message in the message box.

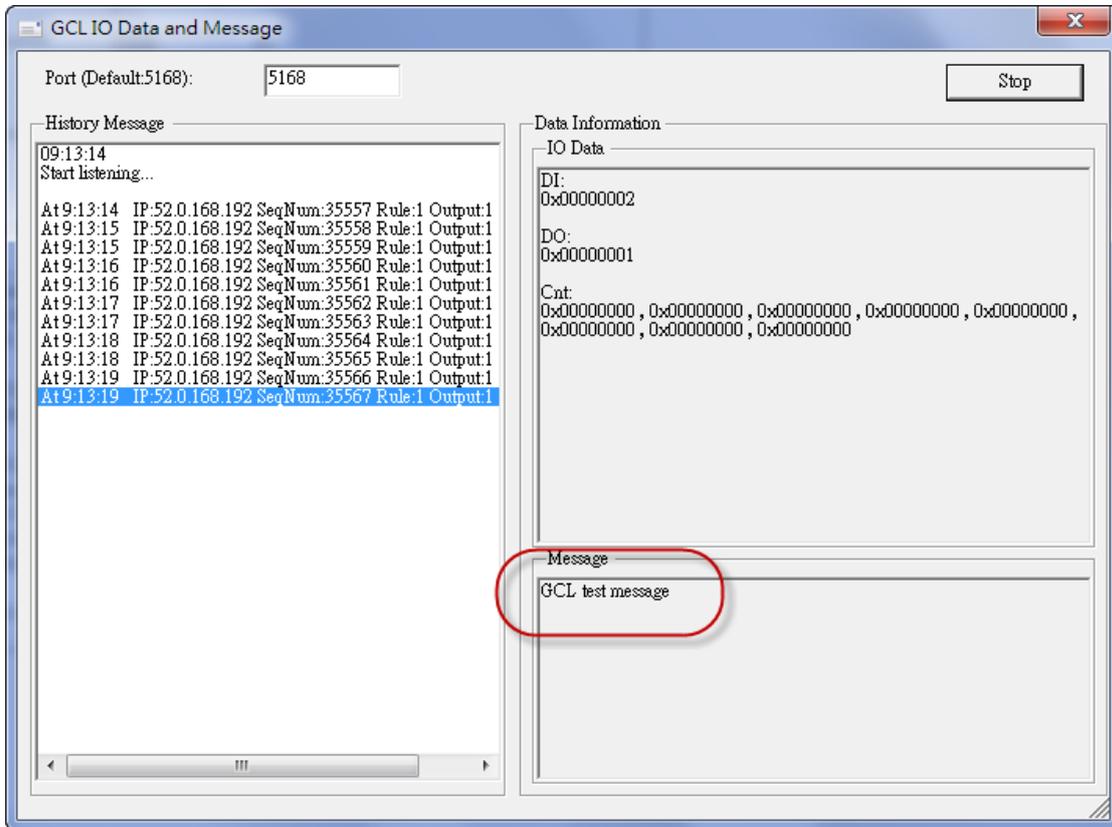


Figure 11

■ **Other ways to test the function:**

1. Using sample code of .NET class library.

We have the C# and VB.net sample code for monitoring the GCL IO message in the following folder. (Figure 12)



Figure 12

2. Use Wireshark to collect the Ethernet packet. (Figure 13)

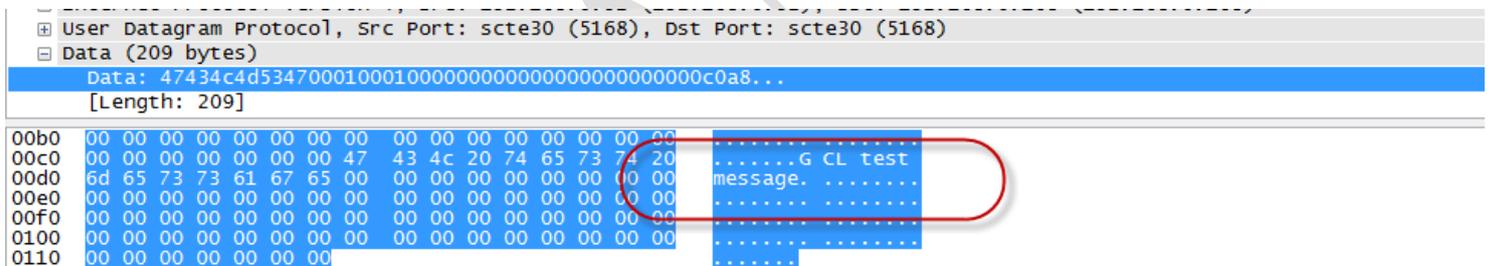


Figure 13