

Advantech AE Technical Share Document

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Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	N/A
Abstract	CODESYS, How to connect Advantech PAC platform to ADAM-6K series		
Keyword	Modbus/TCP, ADAM-6K series, CODESYS		
Related Product	APAX-5580, ADAM-5560		

■ Problem Description:

Modbus is a protocol widely used in automation control, which is supported by various kinds of product such as sensor, remote I/O, RTU...

In this document, we will explain detail procedures of CODESYS IDE setting and we will use ADAM-6066 which supports Modbus/TCP for the demonstration.

User could follow these steps to create a CODESYS project and make their platform communicate with Modbus/TCP end-device successfully.

■ Steps by steps:

1. Add Ethernet Adapter

Right click on device, and select “Add Device” (*Figure 1*)

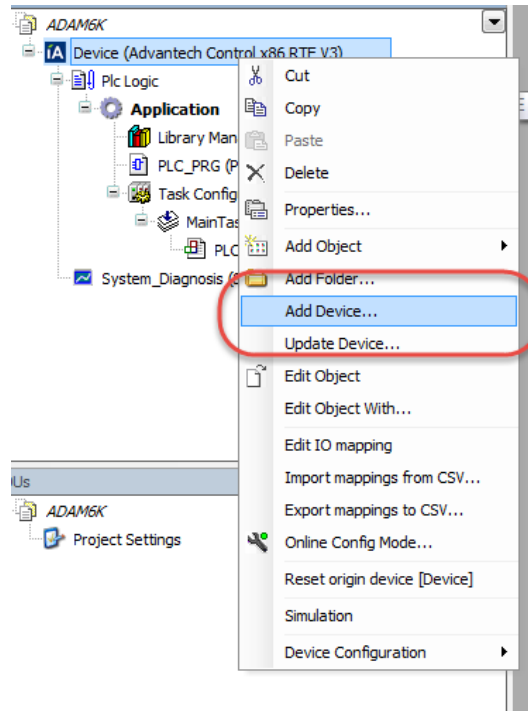


Figure 1

Select Fieldbusses → Ethernet Adapter → Ethernet (*Figure 2*)

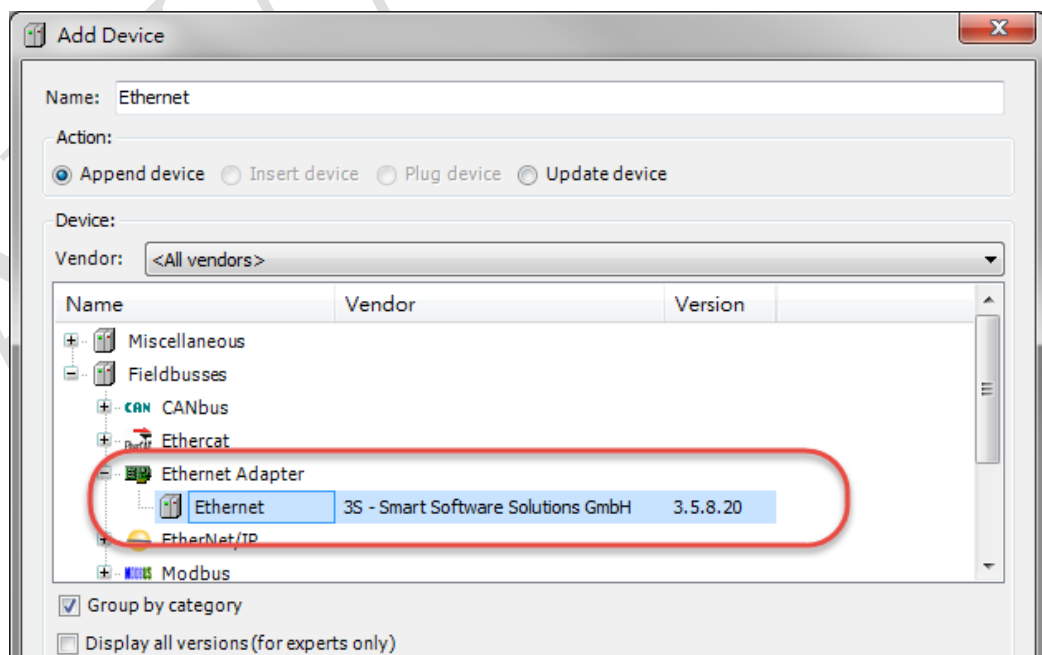


Figure 2

Click on Ethernet icon, and assign its interface (Figure 3)

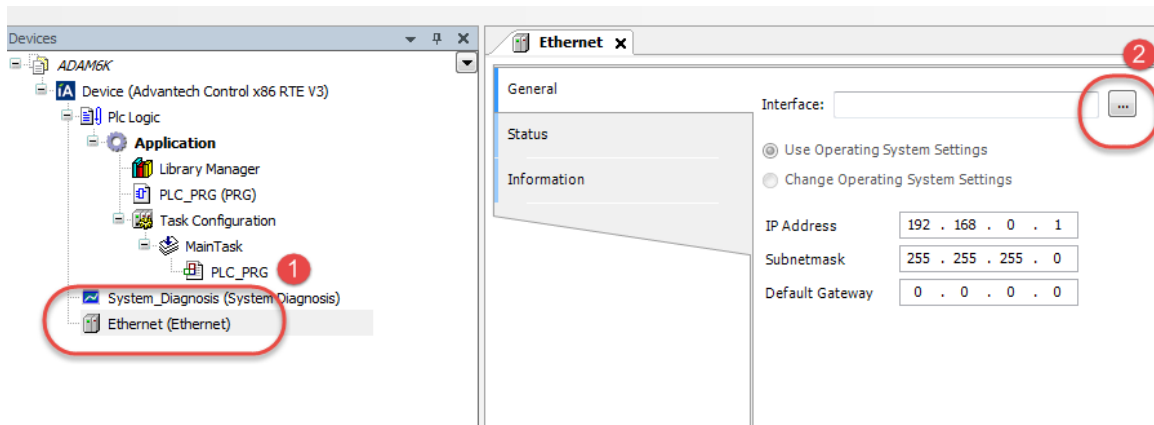


Figure 3

Select on LAN card that you want to connect you Modbus/TCP device with.(Figure 4)

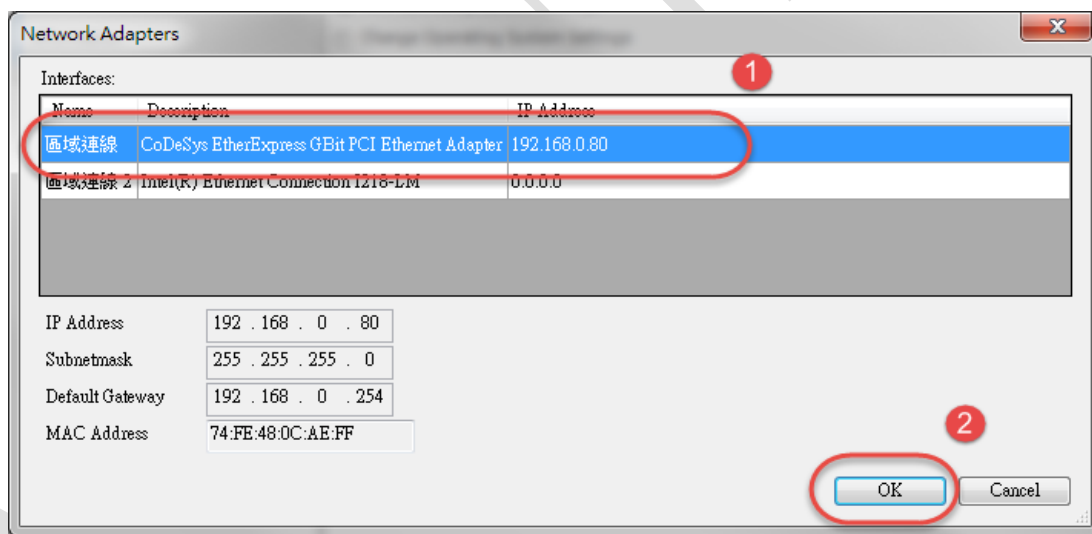


Figure 4

2. Add Modbus TCP Master

Right click on Ethernet icon → Add Device (*Figure 5*)

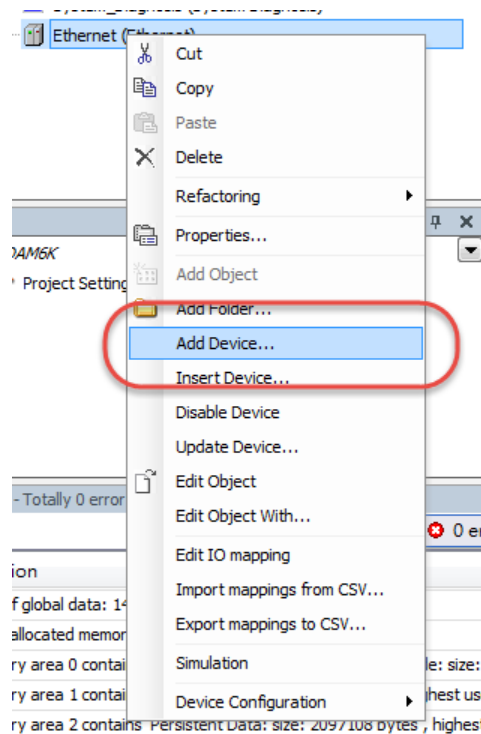


Figure 5

Select Fieldbuses → Modbus → Modbus TCP Master (*Figure 6*)

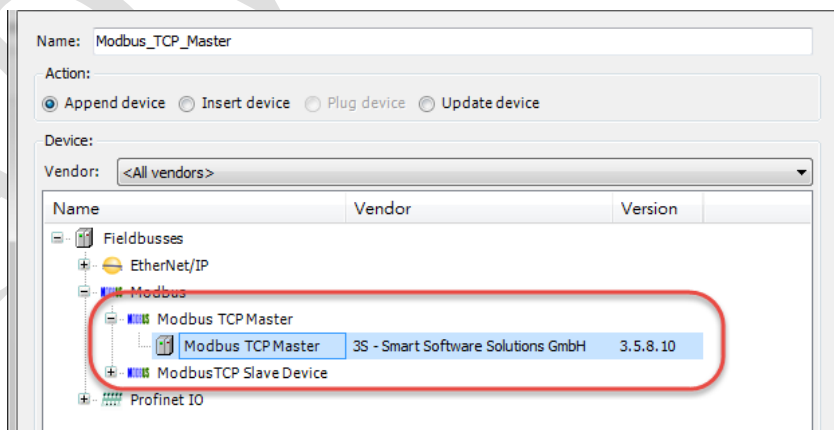


Figure 6

3. Add ADAM Device

Right click on Modbus TCP Master → Add Device(Figure 7)

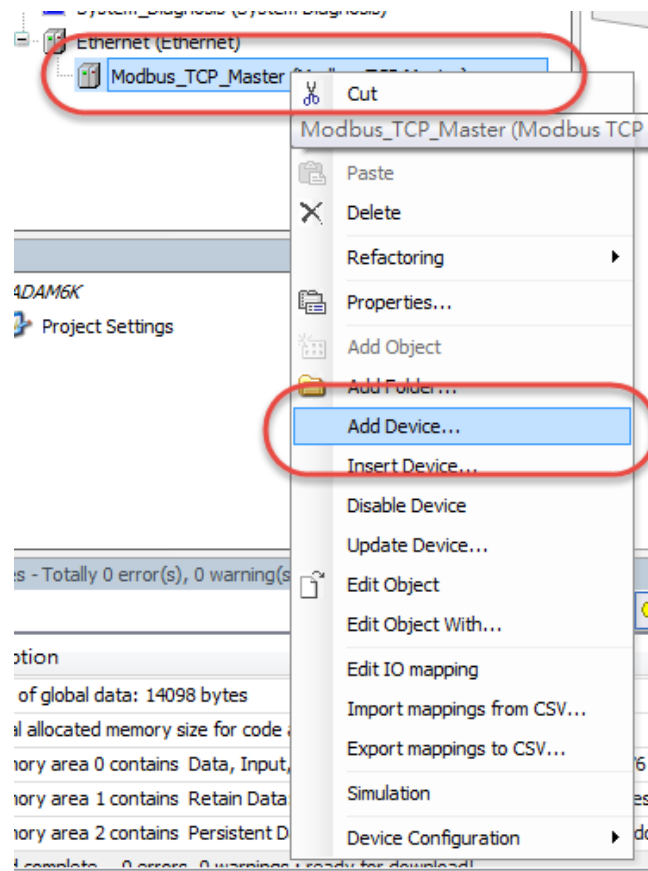


Figure 7

Select Fieldbusses → Modbus → Modbus TCP Slave (Figure 8)

Note: You need to install Advantech add-on package first so that you could select ADAM series.

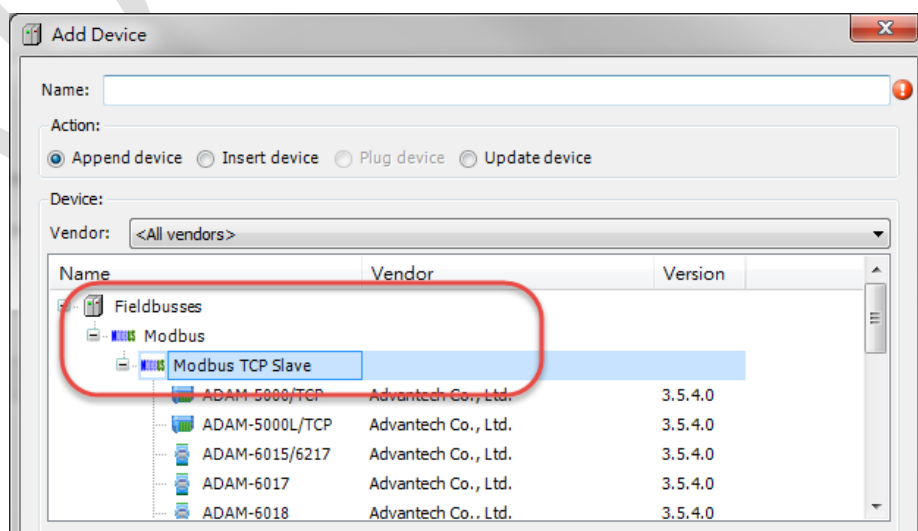


Figure 8

Select ADAM module that you connected with PAC, we select ADAM-6066 for demonstration here. (Figure 9)

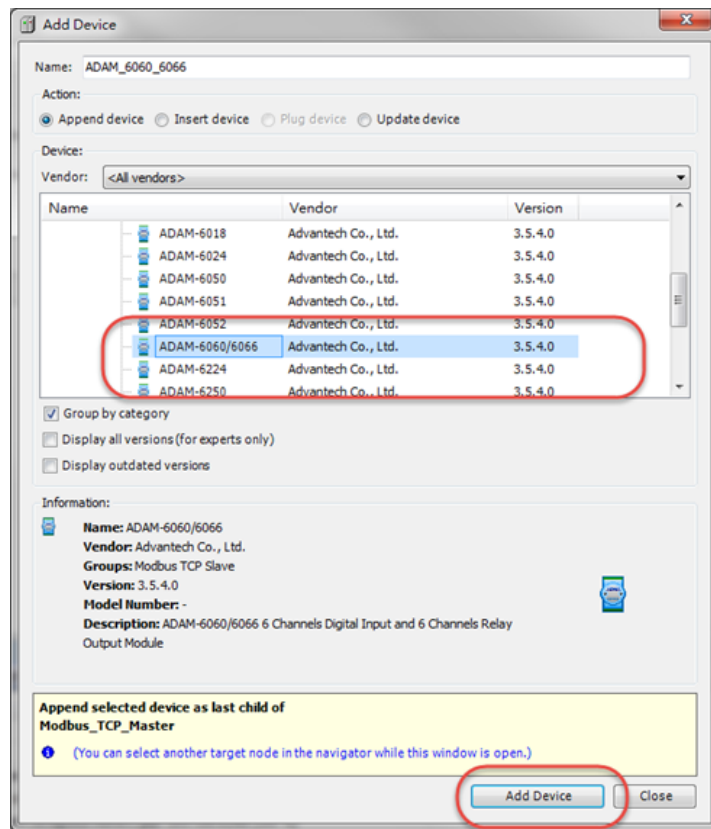


Figure 9

Double click on ADAM device and enter the IP address of ADAM accordingly. (Figure 10)

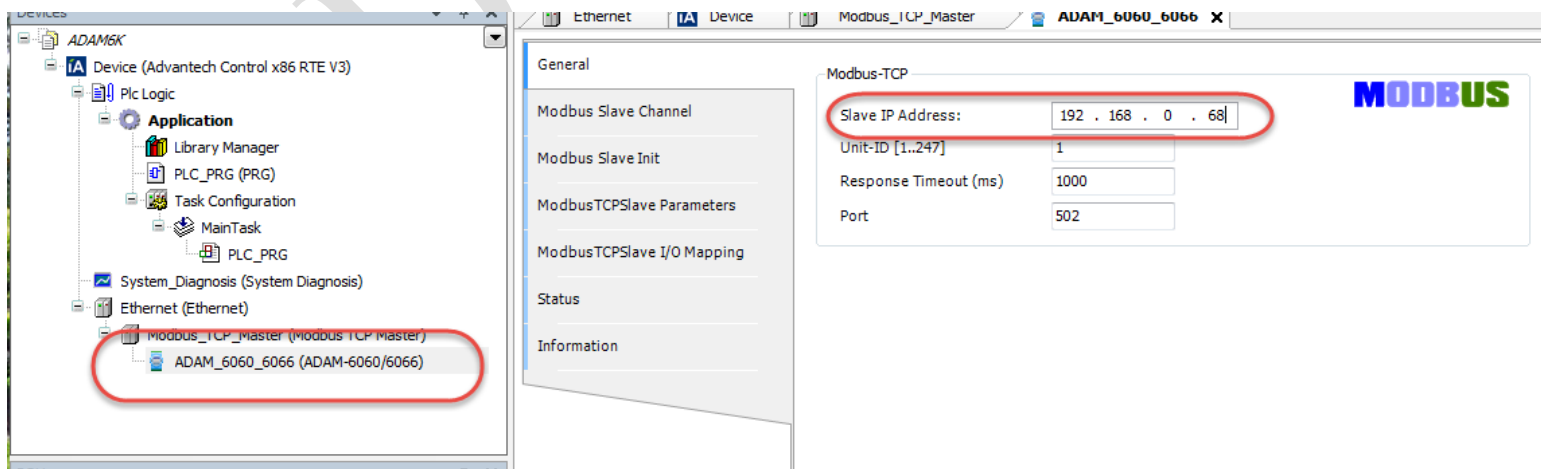


Figure 10

4. Test Result

Compile the project, log in to PAC and run the program to see whether it work or not.

First, you could see there is an indicator on your end-device, it should be green.

You could also double-click on the device and check ModbusTCP slave I/O mapping, you should be able to see the current value from your end-device as shown in *Figure 11*.

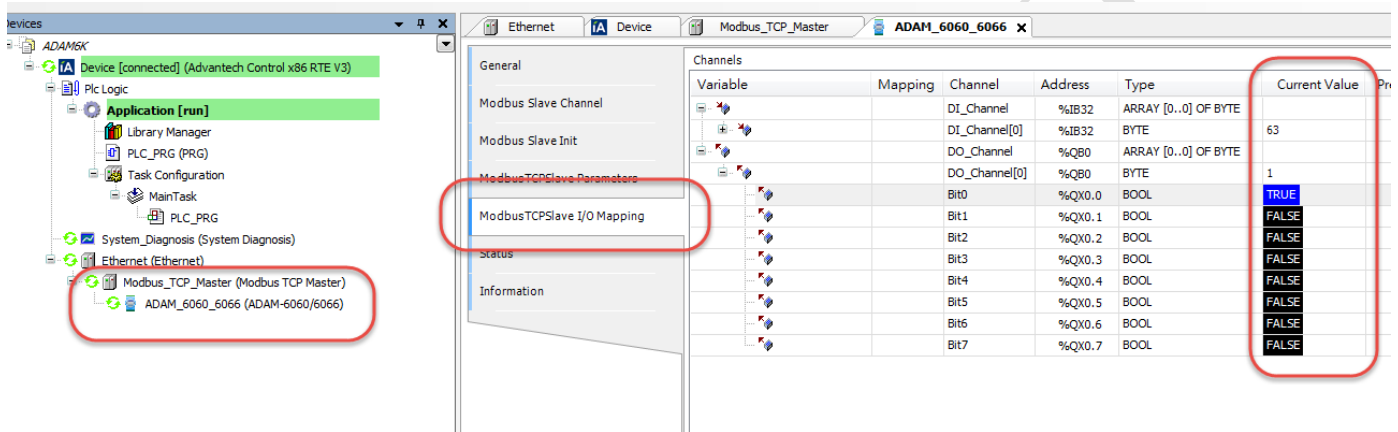


Figure 11