

Advantech AE Technical Share Document

Date	2016 / 06 / 04	SR# 1-2480272652					
Category	■ FAQ □ SOP	Related OS	Microsoft Windows 7/8.1				
Abstract	ADAM-3600, How to set a IO tag with read only and read-write property						
	simultaneously						
Keyword	ADAM-3600, PWM, KW Express						
Related Product	ADAM-3600						

Problem Description:

We have an ADAM 3600 C2G that need to communicate simultaneously with both Remote SCADA Rooms. One room has Wonderware for Control and Monitoring, the other room has WinCC for monitoring only. How to fulfill this feature?

Problem Analysis:

There is the draft system architecture of RTU function and interface to integrate with two control rooms. Basically it will only occur on output device like digital or analog output.



System Architecture

Brief Solution - Step by Step:

- 1. Create 2 tags to access the same address, onboard DO channel 0 with different name. One is OnBoard_Do0_R means it is for read only, or for monitoring only.
- 2. Another one is OnBoard_Do0_RW means it will be a read/write tag for Wonderware that be capable to control and monitor this tag.



Project Configuration		G User Tag(ADAM-3600 RTU demobox)		System Tag(ADAM-3600	IO Tag(ADAM-3600 iRTU demobox-Be				
COM2 COM2	*	I/O Tag							
		Name	Data Type	Initial Value	Address	Conversion	Scale Type	De	
		Onboard_AI0	Analog	0.0	AI.0	N/A	No Scale		
		AITest	Analog	0.0	AI.0	N/A	No Scale		
		Onboard_Counter0	Analog	0.0	COUNTER_VAL.	1 N/A	No Scale		
		WaterLevel_Onbard_DI0	Discrete	0	DI.0	N/A	No Scale		
		DITest	Discrete	0	DI.0	N/A	No Scale		
		Onboard_Do0_R	Discrete	0	DO.0	N/A	No Scale		
		Onboard_Do0_RW	Discrete	0	DO.0	N/A	No Scale		
	= -								

3. Add those 2 tags into Modbus Server, and Modify OnBoard_Do0_R data type as DI, then its Modbus address will change to 10007. That means it is a read only tag.

Project Configuration	«	M Modbus Serve	r <mark>(ADA</mark> I	M-3600 iRTU d	emobox)*	×	User Tag(ADAM	-3600 iRTU demobox)	🖥 System Tag(ADAI
due com2 due c	*	Modbus Server							
		Modbus TCP					🔲 Modbus RT	υ	
		Port Number:	502				Device ID:		
⊡ ⊡ Modsim		Max Users:	4				Port:		~
IO Tag		Idle Time(s):	120				Baud Rate:		Ŧ
ZigBee-COM5							Data Bit:		Ŧ
							Stop Bit:		Ŧ
	= :						Parity:		.
🗈 📻 Data Logger	-								
Service		Tag Name		Tag Type	Address	Mod	bus Address	Data Type	Little Endian
M Modbus Server		modsimAI		AI	0005	3000	5	Double (64 bits)	
		modsimAO	_	AO	0006	4000	6	Unsigned Integer (16 bits)	
IEC-104		modsimDI	n	nodsimAI	0005	1000	5		
🔄 Event Manager		modsimDO		DO	0006	0000	6		
Connectivity		PH_meter_6017_	AIO	AI	0001	3000	1	Float (32 bits)	
		Onboard_Do0_RW	1	DO	0003	0000	3		
💀 😡 OpenVPN		Onboard_Do0_R		DI	0007	1000	7		
Svstem	*	* Double click to ed	it						

Reference:

1. ADVANTECH Website – ADAM-3600-C2GE

(A). iRTU Studio utility (version v1.1.2.52):

http://support.advantech.com/Support/DownloadSRDetail New.aspx?SR ID=1-VMS9XX&Doc Source=Download

(B). User's manual

Contact Window and File Link:

If you have any questions, please contact ia.support@advantech.com.tw You can download this file on support website or ADAM Forum