

Advantech SE Technical Share Document

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Catagory	■ FAQ □ SOP	Related Produ	ıct				
Category	Driver Tech Note						
Abstract	How to use WebAccess MQTT Write Command						
Keyword	WebAccess/SCADA, MQTT						
Related OS	Win7, Windows Server 2008 / 2012 / 2016, Win10						
Revision History							
Date	Version	Author	Reviewer	Description			
2019/02/19	V1.0	Alger Tan					
2019/3/10	V1.0		Nick Liu				

Problem Description & Architecture:

How to use 3rd party application to change WebAccess/SCADA tag value by using WebAccess MQTT write command?

Scenario:

- Edge WebAccess (project node: demo; scada node: scada)
- Cloud WebAccess (project node: myDemo; scada node: scada)
- Action: change tag t20 value to 15

Brief Solution - Step by Step:

1. Structure





 Based on WebAccess MQTT Spec 2.4.1, the following is write value command: Write values from cloud to the device iot-2/evt/wacmd/fmt/group_id/dev_id **AD\ANTECH**

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Format: (this is only partial, not complete)

{		
	"Cmd": "W∨",	
	"Val": {	
	"unique string1": number,	
	"unique string2": "string"	
	"unique string3": {	
	"0": number,	
	"1": number,	
	"2": number,	
	}	
	}	
}		

Property:

Name	Limitation	Description
unique string1~3.	21.	Tag ID, must be unique under same WebAccess
		project and <u>can not</u> be " (", " & ", " , ", ":", ".",
		"%", "=", "#" and space.↓
		(Tag ID is mapping to WebAccess Tag Name and
		Tag Address).

Example: (this is the complete example)

```
{~
"d": {~
"Cmd": "WV",~
"Val": {~
"W4010-28A7_Fz1Volt": 1213.48,~
"W4010-28A7_Fz1Temp": 63.81~
}~
},~
"ts": "2015-04-17T10:19:51+08:00"~
}~
```

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3. This 3rd party software, MQTTClientTest.exe

Form1	W-57	Second and	AaH AaH					
IP Address 172.16.12.72	Port 1883	ProjName myDemo	NodeName scada					
UserName Pa admin a	assword admin	Device Id demo_scada	Connect					
			DisConnect					
Subscribe Publish Message								
Topic iot-2/evt/wacmd/tmt/myDemo_scada/demo_scada.								
Message {"d":{"Cmd	":"WV","Val":{"t20":15}}	,"ts":"2019 ci	ear					
Qos 0	•							
HeartBeat Fre	equency 5 se	cond Pu	top					

Topic:

iot-2/evt/wacmd/fmt/myDemo_scada/demo_scada

Message:

{"d":{"Cmd":"WV","Val":{"t20":15}},"ts":"2019-02-11T08:44:26.667Z"}

Note: its timestamp won't use in WebAccess/SCADA, so user still needs to input something in.

Pin Definition (in case of serial connection):

Reference:

WebAccess User Manual 9.2.3 Block Detail