

Advantech AE Technical Share Document

Date	2015 / 3 / 20	SR#	1-2029551115
Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	Microsoft Windows7 SP1
Abstract	Set Siemens 7 Address and parameter in WebAccess		
Keyword	Siemens 7, Address, parameter, WebAccess, SCADA		
Related Product	WebAccess V7.2, V8.0		

■ **Problem Description:**

Set Siemens 7 Address and parameter in WebAccess

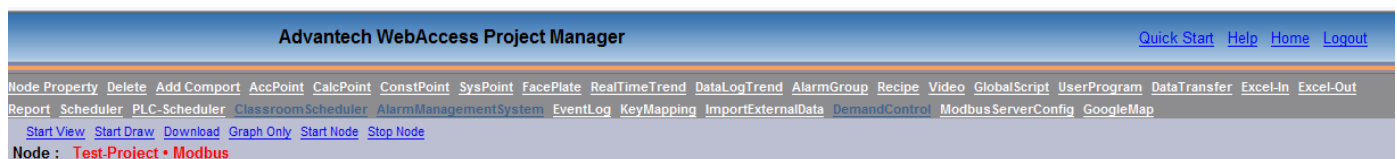
■ **Brief Solution - Step by Step:**

Step1: Open Internet Explorer browser.

Step2: Create **Project Node** : Enter project name, IP and then click **Submit**.

Step3: Add **SCADA Node**.

Step4: Choose **Add Comport**, as shown in Picture1.



Picture1. Choose Add Comport

Step5: Add Comport: TCP/IP.

Interface Name : TCP/IP. Set the parameters as required, as shown in Picture2:

The screenshot shows the 'Create New Comport' dialog box. It has a title bar 'Advantech WebAccess Project Manager' and a subtitle 'Create New Comport' with '[Cancel]' and 'Submit' buttons. The form contains the following fields and options:

- Interface Name: A dropdown menu with 'TCP/IP' selected.
- Comport Number: A text input field containing '3'.
- Description: A text input field containing 'Description'.
- Scan Time: A text input field containing '1', followed by radio buttons for 'MilliSecond', 'Second' (selected), 'Minute', and 'Hour'.
- Timeout: A text input field containing '1000', followed by the label 'MilliSecond'.
- Retry Count: A text input field containing '3'.
- Auto Recover Time: A text input field containing '3', followed by the label 'Second'.
- Backup Port Number: A text input field containing '0'.
- Scan Devices in Parallel: Radio buttons for 'Yes' and 'No' (selected).

At the bottom right, there are '[Cancel]' and 'Submit' buttons.

Picture2. Create New Comport

Step6: Choose **Add Device.**, as shown in Picture3:

Advantech WebAccess Project Manager	
Comport Property Delete Add Device	
Comport : Test-Project • Modbus • 3	
Interface Name	TCPIP
Comport Number	3
Description	Description
Scan Time	1 Second
Timeout	1000 MilliSecond
Retry Count	3
Auto Recover Time	3 Second
Backup Port Number	0
Scan Devices in Parallel	No

Picture3. Add Device

Step7: Enter Device Name and set the parameter as shown in Picture4.

Advantech WebAccess Project Manager		
Create New Device [Cancel] Submit		
Device Name	S7	
Description		
Unit Number	0	
Device Type	SiemS7	
Primary	IP Address	192.168.1.201
	Port Number	102
	Device Address	1 if other than Unit Number
Secondary	IP Address	
	Port Number	
	Device Address	
TSAP in Hex :Device ID, RackSlot	03.02	
Manually switch Primary/Backup:	0	

Picture4: Create new device

TSAP: 03.02 or 03.03 (period (.) , not comma)

0: Auto switch ; 1: Manual switch

Step8: Device

Device Type: SiemS7
Port Number: 102
Manually Switch Primary/Backup: When PLC supports redundancy function, it works.

TSAP in Hex: Device ID, RackSlot: 03.02	for S7-300
TSAP in Hex: Device ID, RackSlot: 03.03	for S7-400

Step9: Choose **Add Tag**, as shown in Picture5.

[Delete](#) [Add Tag](#) [Add Block](#)

Update Device [\[Cancel\]](#) [Submit](#)

Device Name	S7		
Description			
Unit Number	0		
Device Type	Siemens7 ▾		
Primary	IP Address	127.0.0.1	
	Port Number	102	
	Device Address	1 if other than Unit Number	
Secondary	IP Address		
	Port Number		
	Device Address		
TSAP in Hex :Device ID, RackSlot	03.02		
Manually switch Primary/Backup:	0		

Picture5

Step10: Enter Tags parameters as shown in Picture6

[Quick](#)

Create New Tag [\[Cancel\]](#) [Submit](#)

Parameter	DBB ▾	Point (analog)
Alarm	No Alarm ▾	
Tag Name	Current	
Description	DB Byte Data	
Scan Type	Constant Scan ▾	
Address	DBB1.0	
Conversion Code	Unsigned Integer ▾	
Start Bit	0	
Length	8	
Signal Reverse	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Scaling Type	No Scale ▾	
Scaling factor 1	0	
Scaling factor 2	0	
Log Data	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Data Log Dead Band	3 %	
Write Action Log	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Read Only	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Keep Previous Value	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Initial Value	0	
Security area	0	
Security level	0	
Span high	65535	
Span low	0	
Value Clamp	<input type="checkbox"/> Clamp to Span High <input type="checkbox"/> Clamp to Span Low <input type="checkbox"/> Clamp to Zero	
Output High Limit	65535	
Output Low Limit	0	

Picture6. Create New Tags

Appendix: Comparison PLC I/O with WebAccess and Siemens

Digital data address sample:

S7 PLC Address	Define in WebAccess			
Address Sample	Address Format	Start Address	Length	Conversion Code
DB1.DBX 2.0	DBX1,2	0	1	Unsigned Integer
DB1.DBX 3.5	DBX1,3	5	1	Unsigned Integer
DB1.DBB 2.1 retrieve 3 bits	DBB1,2	1	3	Unsigned Integer
DB1.DBB 3.4 retrieve 2 bits	DBB1,3	4	2	Unsigned Integer

Analog data address sample:

S7 PLC Address	Define in WebAccess			
Address Sample	Address Format	Start Address	Length	Conversion Code
DB2.DBW 4	DBW2,4	0	16	Unsigned Integer
DB2.DBB 1	DBB2,1	0	8	Unsigned Integer
DB2.DBW 64 retrieve float	DBW2,64	0	32	Real

Text data address sample:

S7 PLC Address	Define in WebAccess		
Address Sample	Address Format	TextLen	Conversion Code
DB9.DBW 0	DBW9,0	32	Text