Creating a Project Node and a SCADA Node with External Tags(Modbus/RTU)



1.

- After finishing WebAccess installation and rebooting the computer, there will be an small computer icon **in the right** in the right
- 2. Move mouse cursor over the WebAccess icon and clicking right button of mouse. Select "Project Home"



3. Clicking "Project Management"

Advantech WebAccess Welcome Page - Microsoft Internet Explorer		BX
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HMI/SCADA		
ADVANTECH WebAccess Project Management Fullt Browser Based		

- 4. User name is "Admin" and there is no password in default setup.
- 5. Directly click "Login" button.

Advantech WebAccess Login - Microsoft Internet Explorer	
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6. Enter Project Name (ex. Training) and IP Address(127.0.0.1)

Recommend to use IP Address instead of Computer Name.

Click "Submit for New Project" after entering Project Name and IP Address

🚰 Advantech WebAccess Project Manager - Microsoft Internet Exp	oter	
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	Current Project(s)	
	ntegrity Checking Backup Restore Admin/Project User ODBC Log Data Source	
System Log Action Log Alar	m Log Analog Tag Log Analog Change Log Discrete Tag Log Text Tag Log Event Log	LogData Maintenance
	Project Configuration	
	Create New Project	
Project Name	Training	
Project Description	Basic Training	
Project Node IP Address	127.0.0.1	
Project Node HTTP Port	0	
Project Primary TCP Port	0	
Project Time Out	0	
Remote Access Code		
Retype Remote Access Code		
	Submit for New Project	

7. After clicking "Submit for New Project" button, a confirmation dialog box will pop out.

Click "Yes" to create the project

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Advantech WebAccess Project Manager	Quick Start Help Logout
Current Project(s)	
Integrity Checking Backup Restore Admin/Project User ODBC Log Data Source	
System Log Action Log Alarm Log Analog Tag Log Analog Change Log Discrete Tag Log Text Tag Log Event Log Log	Data Maintenance
Project Configuration	
Create New Project	
Project Name Training	
Project Description Basic Train	
Project Node IP Address 127.0.0.1 Do you want to create a new project (Project Name : Training)?	
Project Node HTTP Port 0 確定 取消	
Project Primary TCP Port 0	
Project Time Out 0	
Remote Access Code	
Retype Remote Access Code	
Submit for New Project	

8. The Project Node is created.

Click "Training" to create a SCADA Node

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	4	Advantech WebAcces	s Project Manager			Quick Start He	l <u>p Logout</u>
			Current Project(s)				
Project Name	Description	IP	HTTP Port	TCP Port	TimeOut	Update	Delete
Training	Basic Training	127.0.0.1	0	0	0	Update	Delete
· · · · · · · · · · · · · · · · · · ·		Please select	one of above available Projects	to start!!			
5	ystem Log Action Log Alan	m Log Analog Tag Log A	Project Configuration	og <u>Text Tag Log</u> <u>Event</u>	Log LogData Mainten	ince	
5	ystem Log Action Log Alan Project Name	m Log Analog Tag Log A	nalog Change Log Discrete Tag L Project Configuration Create New Project	og <u>Text Tag Log</u> <u>Event</u>	Log LogData Maintena	ince	
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9. Click "Add SCADA Node"

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病址① 🕘 http://localhost/broad	Web/bwMain.asp?pos-project&ProjIdbw-4&ProjName-Training	• 参称至 述结 **							
	Advantech WebAccess Project Manager Quick Start Help Home Logout								
Project/Node	Project Property Add SCADA Node nport SCADA Node Upload	d Remote Node User							
Training	Project : Training								
Device Driver	Project Name	Training							
A101	Project Description	Basic Training							
ABPLC5	Project Node IP Address	127.0.0.1							
ABSLC5 AceFAM3	Project Primary TCP Port	0							
ADAM4K	Project Time Out								
ADAM5K ADAM5KE	Pamata Access Code								
ADAM6K	Project Node HTTP Port	0							
ADMIO AddDAO	Ploject Note TITTE Point	Software Build : 7 0-2009 08 25							
AE6000									
AXLNEMB									
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10. Node Type: Professional Version (depend on your computer)

Node Name (ex. 20091215) and IP Address (ex. 127.0.0.1)

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	Advantech WebAccess Project Manager								
Prcject/Node		Create New SCADA Node [Cancel] Submit							
Training	Node Type	Professional Version 💌							
Device Driver	Node Name	20091215							
ABPLC5	Node Description								
ABSLC5 AceFAM3	SCADA Node IP Address	127.0.0.1							
ADAM4K ADAM5K	Primary TCP Port	0 Secondary TCP Po	irt O						
ADAM5KE ADAM6K	Node Time Out	0							
ADMIO	Remote Access Code								
AE6000	Retype Remote Access Code								
AXLNFMB BTrack	Outgoing Email (SMTP) Server		Email Port 0						
BW UPS	Email Address								
BwBacNetJ	Email Account Name								
BwConst BWDB	Email Password								
BWDDE	Retype Email Password								
BwLNS	Email From								
BWPing BwSNMP	Report Email To								
CSlinet CTICAMP	Report Email Cc								
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11. Click "Yes" on both tooltips

🚰 Add SCADA Node - Micro	soft l	nternet Explorer											
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Advantech WebAccess Project Manager									Qu				
Project/Node				Printer	Control Strin	g						_	
Training	~		Online Change	Tag Field	d To DataBas	e C	Yes 💿 No						
Device Driver			An	alog Tag '	Tooltip Settin	g [
A101 ABRI 05			Disc	rete Tag	Tooltip Settin	g 🔽							
ABSLC5				Text Tag ⁻	Tooltip Settin	g 🗌							
ACEFAM3 ADAM4K	-			Trend H	Hairline Toolti	p 🧿	Yes 🔿 No						
				T	Toolbar Toolti	p 🤇	Yes 🔿 No						
Click "Submit"			- · · -			-			~ · ·	 			

12. Click "Submit"

BwBacNet.I		Duckup House in Plasterso	101.01.0004		
BwConst		Primary TCP Port	0		Secondary TCP Port
BWDDE		Node Time Out	0		
BWGPIB BwLNS		Remote Access Code	[
BWPing BwSNMP		Retype Remote Access Code	[
CSIInet CTICAMP	~		[Cancel]	Submit	

13. SCADA Node is created; click "Add Comport"

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Advantech WebAccess Project Manager													
Project/Node	-	Node Prope DataTransfo <u>Start Viev</u> Node : 1	rty Delet ir Excel-I v <u>Start Dr</u> raining	e Add Compor n Excel-Dut Re aw Download G • 20091215	AccPoint Cale port Scheduler raph only Start N	Point 9 PLC-S ode Sto	ConstPoir cheduler <u>p Node</u>	nt <u>SysPoir</u> Classroo	n <u>t</u> <u>FaceF</u> mSched	<u>Plate</u> Ro uler Ev	ealTime vent Log	<u>Trend</u> D g KeyMa	oatal Ippir

14. Select "SERIAL" in Interface Name, select the correct Comport Number and Baud Rate, then click "Submit"

Color (http://localhost/bro	adWeb/bwMain.asp?pos=project&ProjIdbw=59&ProjName=Training	・ ク マ	× ₪ ŵ ☆ ☆
	Advantech WebAccess	Project Manager	Quick Start Help Home Logout
Project/Node		Create New Comport [Cancel] Submit	
20091215	Interface N	lame SERIAL -	
A101	Comport Number	1	
ABMLGX ABPLC5	Description	Description	
ABSLC5	Baud Rate	19200 • bps	
ADAM4K	Data bit	⊙ 7 ● 8 bits	
ADAM5KE	Stop bit	● 1	
ADAM6K ADMIO	Parity	● None O Odd O Even	
AdvDAQ AE6000	Scan time	1 O MilliSecond O Second O Minute O Hour	
Agi34972A	TimeOut	1000 MilliSecond	
AXLNFMB	Retry count	3	
BAS3000	Auto Recover Time	60 Second	
BECKHOFF BTrack	HandShakeRts	● Yes ○ No	
BW UPS BwBacNetE	HandShakeDtr	● Yes ○ No	
BwBacNetJ BwBACnetM	Backup Port Number	0	
BwConst BWDB		[Cancel] Submit	
BwDDE BWGPIB			

15. From the Port1(Serial) page, click "Add Device".

Correction for the second seco	roadWeb/bwMain.asp?pos=project&ProjIdbw=59&ProjName=Training		-
	Advantech WebAccess	Project Manager	Quick Start Help Home Logout
Project/Node	Comport Property Delete Add Device		
20091215	Interface Name	SERIAL	
Device Driver	Comport Number	1	

16. From the "Create New Device" page, Select "Modicon" as Device Type. Key in the Device Name (exp. PowerMeter) and Make sure the Unit Number is according to Modbus/RTU's device ID. Then click "Submit".

	roadWeb/bwMain.asp?pos=pro	oject&ProjIdbw=59&ProjName=Trair	ning 🔎 – Ċ 🗙 🚺 Device :	×	
		Advantech WebAcc	cess Project Manager		Quick Start Help Home Logout
Project/Node			Create New Device	[Cancel] Submit	
Port1 (serial)	D	Device Name PowerMeter			
A101	= U	Unit Number 1			
ABMLGX ABPLC5 ABSLC5		Device Type Modicon -			
AceFAM3 ADAM4K	Use AS	CII Protocol: 0	Packet D	alav (ms): 0	
ADAM5K ADAM5KE	Digita	al block size : 512	Analog b	lock size : 64	
			[Cancel]	Submit	

17. From the Device (exp, PowerMeter) Page, click Add tag.

🗲 🔿 😻 http://localhost/br	oadWeb/bwMain.asp?pos=project&ProjIdbv	v=59&ProjName=Training 🛛 🔎 👻 🖒	× 🔇 Device :	×	☆ ☆ ‡
	Adv	vantech WebAccess Project Ma	anager		Quick Start Help Home Logout
Drojest (Nede	Deletr Add Tag 1 tid Block				
Training		Uţ	odate Device [Cancel]	Submit	
Port1 (serial)	Device Name	PowerMeter			
Device Driver	Description				
	Unit Number	1			
A101 ABMI GX	Device Type	Modicon 🔻			
ABPLC5					
ABSLC5					
ADAM4K	Use ASCII Protocol:	0	Packet Delay (ms) :	0	
ADAM5K	Digital block size :	512	Analog block size :	64	
ADAM5KE ADAM6K ADMIQ			[Cancel] Subm	iit	

Creating a Comport and a Device For Agilent 3497xA (TCP/RS232)



18. From the Create New Tag page, select Parameter (exp. AI = Analog Input), Key in Tag Name (exp. Voltage1), Key in Address by refereeing to Modbus/RTU Address number (exp. 40001). Then click "Submit".

	/broadWeb/bwMain.asp?pos=project&ProjIdbw=59&ProjName=Training 🔎 🗸 🖒 💥 Add Tag 🛛 🗙	ሰ 🛧 🕸
	Advantech WebAccess Project Manager	Quick Start Help Home Logout
	Create New Tag [Cancel] Submit	A
Project/Node	Parameter Al Point (analog)	
Training	Alarm No Alarm 🔻	
20091215 Port1 (serial)	Tag Name Voltage1	
PowerMeter	Description Description	
Device Driver	Scan Type Constant Scan	
A101	Address 40001	
ABMLGX	Conversion Code Unsigned Integer	
ABPLC5	Start bit 0	F
AceFAM3	Length 16	
ADAM4K	Sinnal Reverse O Vac @ No	
ADAM5K	Scaling Type No Scale	
ADAM6K	Scaling factor 1 0	
ADMIO	Scaling factor 2 0	
AdvDAQ		
Agi34972A	Data Log Data Cines Cines	
APAX	Write Action Log @ Vac. @ Ma	
AXLNFMB BAS3000	Read Only @ Yes O No	
BAS3000BC	Keen Previous Value Vas 🔍 No	
BECKHOFF	Initial Value 0	
BTrack BW/ UDS	Security area	
BwBacNetE	Convituent 0	
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19. From Node (20091215) page, click Add Comport.

Color Market (Second Second Se	/broadWeb/bwMain.asp?pos=project&ProjIdbw=59&ProjName=Training 👂 🗸 🖒 🗙 🚺 🐝 Node : 20091215 🗙 👘	n ☆ ©
	Advantech WebAccess Project Manager	Quick Start Help Home Logout
Project/Node	Node Property Dele Add Comport ocPoint CalcPoint ConstPoint SysPoint FacePlate RealTimeTrend DataLogTrend AlarmGroup f Excel-Out Report Scheumer Teescheduler ClassroomScheduler AlarmManagementSystem EventLog KeyMapping ImportExternaDat Google Map	Recipe Video GlobalScript UserProgram DataTransfer Excel-In A ta DemandControl BACNet Server Config ModbusServerConfig
20091215	Node : Training • 20091215	
BowerMotor	Node Type Professional Version	E

20. From the Create New Comport Page, Select "API" in Interface Name, select the correct Comport Number (do not duplicate), then click "Submit". [TRANE preference <Scan time:1sec, TimeOut:1000mS, Retry count:1, Auto Recover Time:10sec>]

Contraction of the second seco	oadWeb/bwMain.asp?pos=project&ProjIdbw=59&ProjName=Training ,	ロージン ((Comport:2 ×)) (Comport:2) (Compor
	Advantech WebAccess Proj	ect Manager Quick Start Help Home Logout
Project/Node		Update Comport [Cancel] Submit
<u>Iraining</u> ▲	Interface Name	API 🔹
Port1 (serial) PowerMeter	Comport Number	2
Voltage1	Description	Description
Device Driver	Scan time	1 O MilliSecond O Minute O Hour
A101	TimeOut	1000 MilliSecond
ABPLC5 ABSLC5	Retry count	1
AceFAM3	Auto Recover Time	10 Second
ADAM4K ADAM5K ADAM5KE		[Cancel] Submit

21. From the Port2(api) page, click "Add Device".

	Advantech Web	Access Project Manager	Quick Start Help Home Logout		
Project/Node	Comport Property Delete Add Device				
Training	Comport : Training • 20091215 • 2				
20091215 Det1 (coriel)	Interface Name	API			
PowerMeter	Comport Number	2			
Port2 (api)	Description	Description			
Device Driver	Scan time	1 Second			
<u>A101</u>	TimeOut	1000 MilliSecond			
ABMLGX ABPLC5	Retry count	1			
ABSLC5	Auto Recover Time	10 Second			

22. For Agilent 34972A (TCP):



23. For Agilent 34970A (RS-232):

Agilent Connection Expert			- # <u>*</u>
File Edit View I/O Configurat	ion Tools Help		
Refresh All 😗 Undo	Properties III Interactive IO	Add Instrument 📰 Add Interface 🛛 Update Drivers 🗙 Delete	
Task Guide 🛛 🗙	Instrument I/O on this PC	RS-232 Serial Instrument - 34970A	
Tasks for This Instrument	Refresh All	An instrument on an RS-232 serial bus	
Refresh this instrument		There was a communication failure	
Change properties	COM1 (ASRL1)	View Details	Change Properties
	COMZ (ASKLZ)	Instrument Properties Installed Software	
Change the label	GOM3 (ASRL2::INSTR)	VISA address: ASRL1::INSTR	
Add a programming alias	COM4 (ASRL4)		
Jgnore	COM5 (ASRL5)	IDN string: HEWLETT-PACKARD,34970A,0,13-2-2 Manufacturer: HEWLETT-PACKARD	
X Delete	COM7 (ASRL7)	Model code: 34970A	
Conoral Tacks	COM8 (ASRL8)	Serial number: 0	
	- LAN (TCPIPO)	Firmware: 13-2-2	
Refresh all	PXIO	SICL address: COM1,488	
More Information		Address check: No	
A How do I diagnose the Failed		Auto-identify: Yes	
state?		das Extents .	
Where can I find			
programming samples?			
			l
Device : Agi34970A - Windows Interr			
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Dele	te Add Tag Add Block		
Agilent			
		Device Property Cancel Country	
Dort1 (api) Agi34970A	Device Name Agi34970A		
slot-2-1	Linit Number 0		
Slot-2-2 Port2 (api)	Device Type Adi34972A -		
Agi34970A-1	VISA address ASRL1::INSTR		
Port3 (api)			
Dort4 (api)			
TCP2-Slot1			
System Point		[Cancel] Submit	
<u>rigioratus-1</u>			1