B+B Wzzard Driver Guide

Contents

1. Wzzard Communications

1.1. Introduction to Wzzard

WebAccess SCADA Node provides a Wzzard interface using TCPIP communicating with Wzzard modules.

1.2. Wzzard Module Configuration

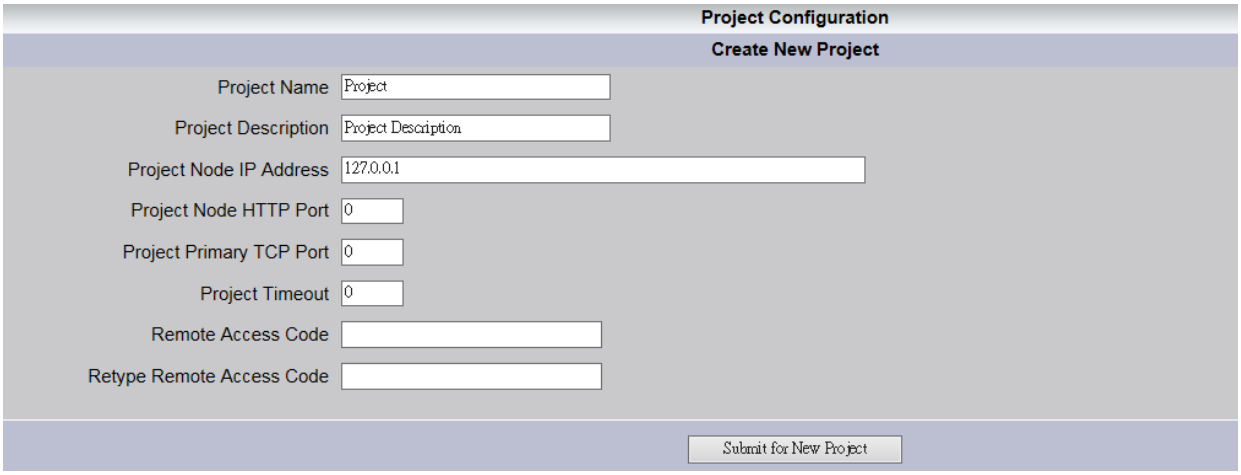
Please refer the Wzzard configuration.

1.3. Configure Wzzard device in WebAccess

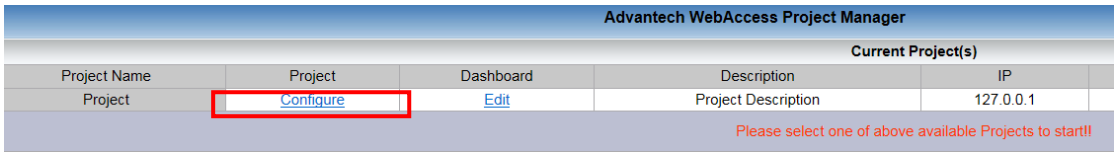
The steps, in summary, are:

1. Start Internet Explorer **Web Browser**.
2. Enter IP address of the **Project Node**.
3. Use **WebAccess Configuration**.
4. Open or Create a **Projec**t.

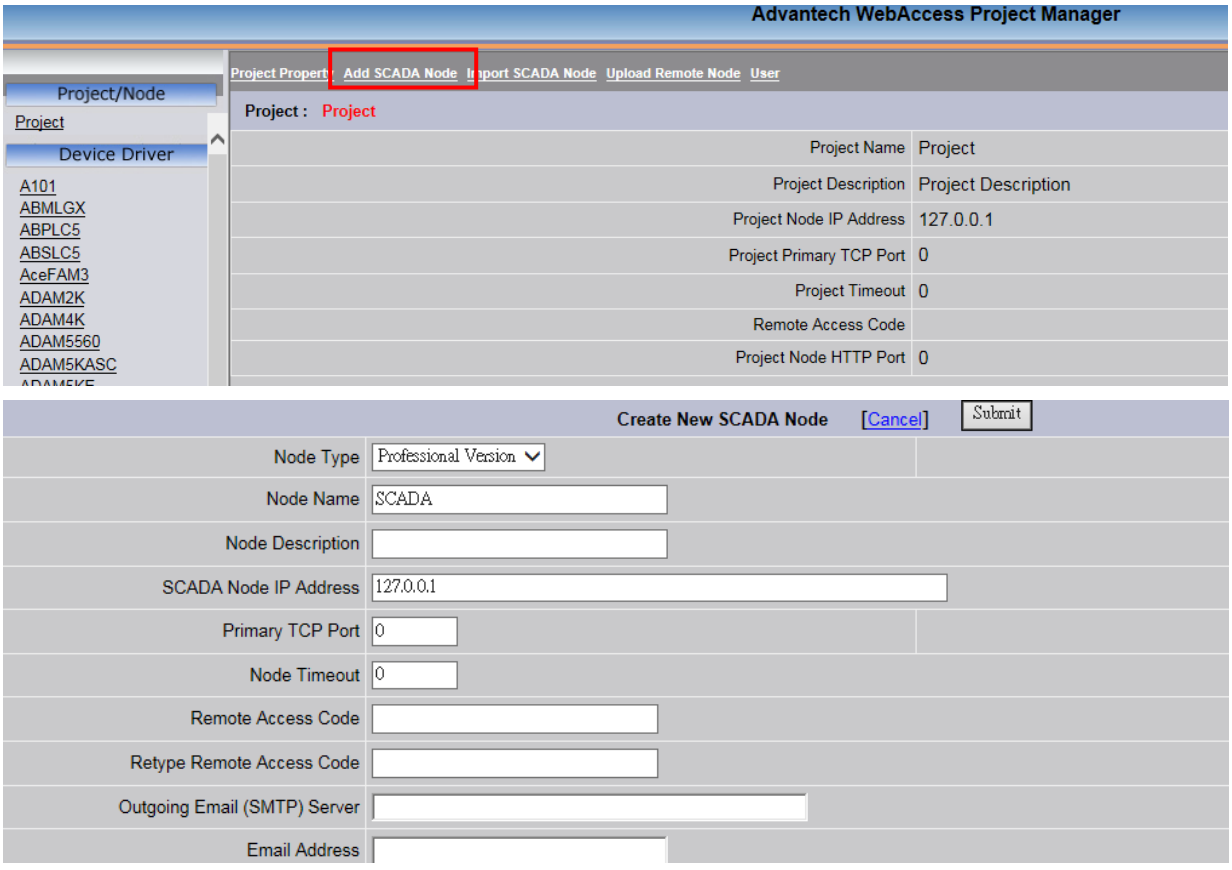
4.1 Create a new **Project**.



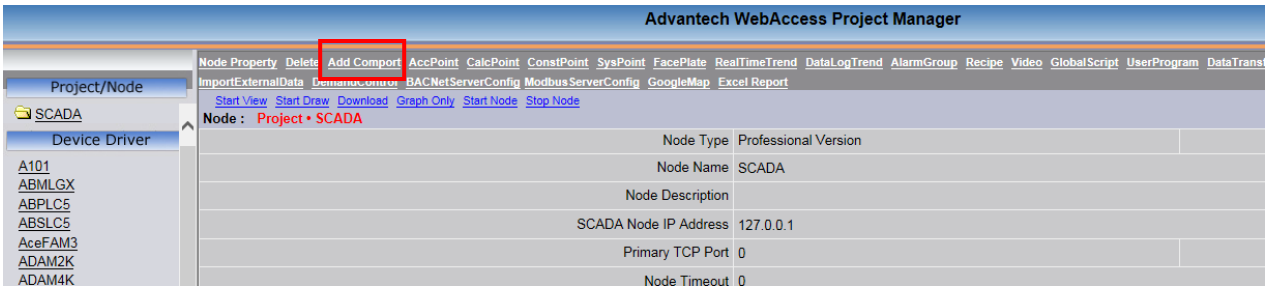
4.2 Open an existing Project.



5. Configure a **SCADA node** (the Touch Panel that will connect to the automation hardware).



6. Configure a **Comport** for the SCADA Node that is a **TCPIP type Comport**.



7. Configure Scan Time, Timeout, Retry Count, Auto Recover Time, and Backup Port Number to match those in the device.

8. Configure a **Wzzard** (determines the communications Protocol or Device Driver) using **Add Device.**

9. Use **Add Tag** or **Add Block** to create tags.

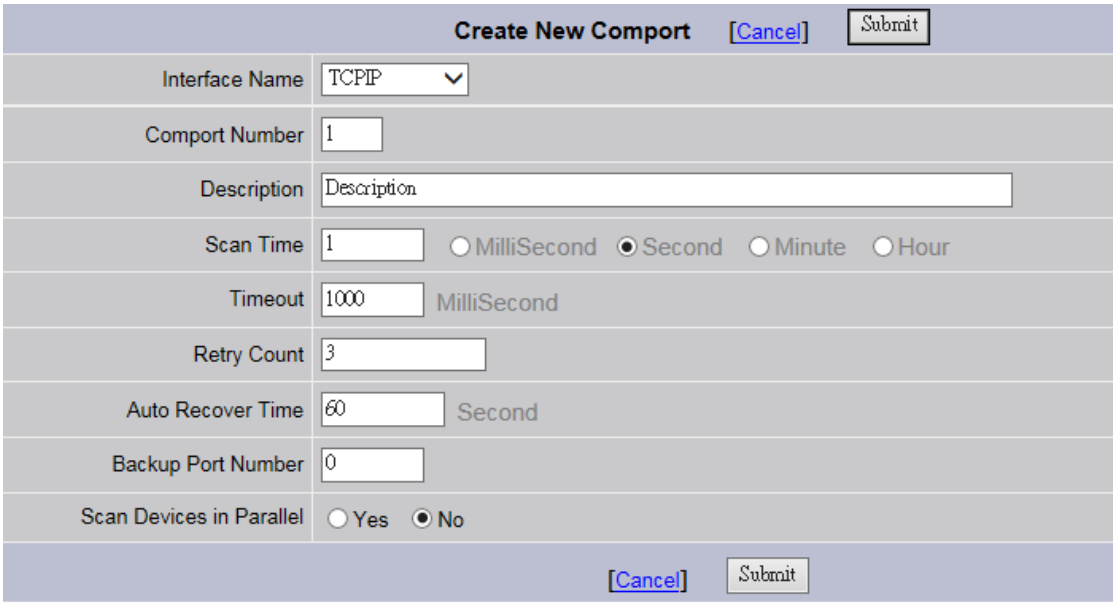
10. Select a Parameter to match the type of data.

11. Modify the Address to match the actual address.

12. Apply a Tag name.

13. Edit Tags in Project Manager to assign **Alarms**, **Scaling**, **Engineering Units**, Description and other features.

1.4. TCPIP Properties



1.4.1. Comport Number

WebAccess Comorts is a logic communication port in the WebAccess

configuration for Serial Port Interface.

1.4.2. Description

An optional field used for user reference.

1.4.3. Scan Time

This is the time in milliseconds to scan. If the PLC cannot respond as fast as the SCAN Time entered, WebAccess will scan at a slower rate. Scan Time is also network dependant, it is possible to enter a Scan Time faster than your network can respond, WebAccess will poll all devices and tags on the Comport before starting a new scan.

1.4.4. Timeout

Timeout is the time waited before re-sending a communications packet that did not have a reply. Timeout specifies is irrelative in Wzzard communication.

1.4.5. Retry Count

The number of times to retry communications if no reply is received from a device. Combined with Timeout, also determines time to consider a device or port as BAD. Retry Count is irrelative in Wzzard communication.

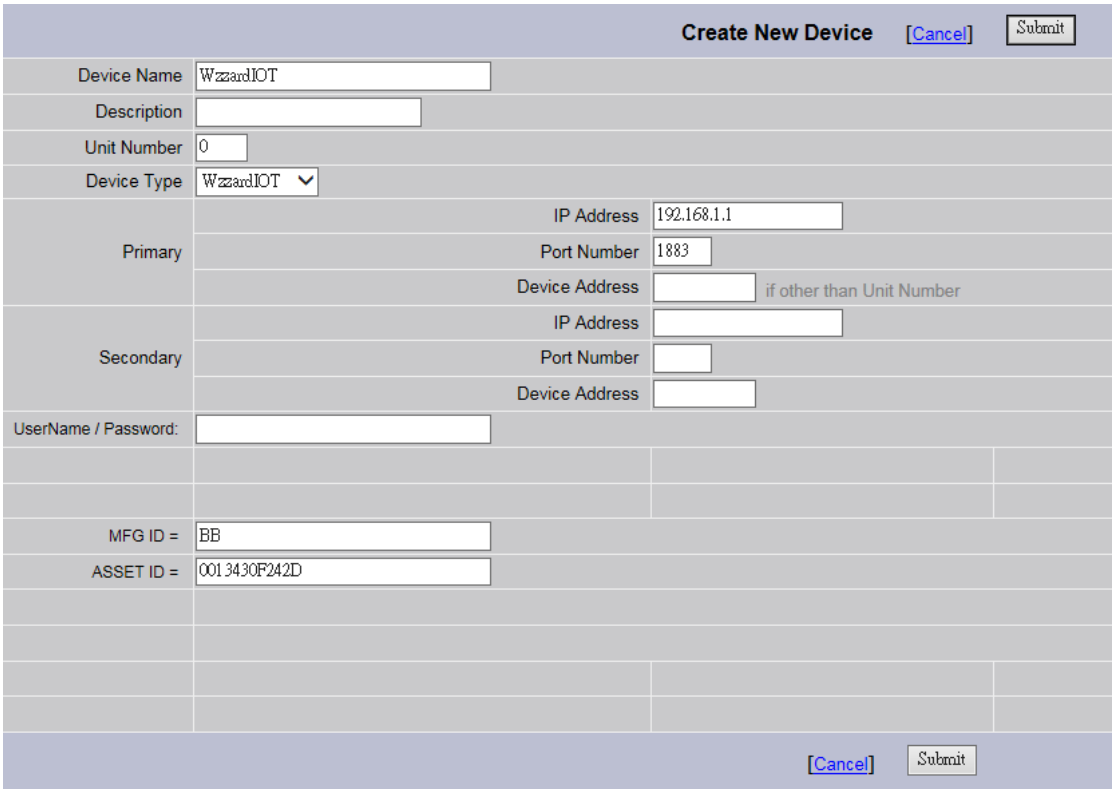
1.4.6. Auto Recover Time

Recover Time is the time to wait after a Device is marked Bad (or Failed) before re-initializing communications. It is irrelative in Wzzard communication.

1.4.7. Backup Port Number

No Support.

1.5. Device Properties – Wzzard



Add your device to the TCPIP Port, by selecting the TCPIP Port you have configured, then select **Add Device**.

To modify an existing Device, Select **Device Properties**. The Device Properties Page for a TCPIP Type Device appears.

1.5.1. Device Name

A Device is a PLC, Controller, VAV or other automation hardware or software entity. **Device name** is a User-assigned name that will appear in the Project Manager (Configuration Tool) and in runtime VIEW Displays. Choosing a descriptive Name can help technicians identify the location of your device.

Changing only the Device Name will rename the existing device. Changing both the **Device Name** and the **Unit Number** will make a copy of the device (e.g. create another device).

1.5.2. Description

Assigned description up to 70 characters.

1.5.3. Unit Number

Unit Number is an identifier of device.

1.5.4. Device Type

Once a Device Type is created on a COM port, the Device Type of additional devices will be limited to this Device Type. The device type is “WzzardIOT”.

1.5.5. UserName / Password

MQTT protocol provides username and password for authentication. The format is {username}/{password}. The default value is “”.

1.5.6. MFG_ID

The OEM identifier for the manufacturer. For B&B Electronics this will be "BB".

1.5.7. ASSET_ID

This is the unique identifier for the sensor module.

1.6. Tag List

Analog ParaName	Description	ReadOnly	Address
AI_1	The value of analog input 1	Y	data:ai1
AI_2	The value of analog input 2	Y	data:ai2
AI_3	The value of analog input 3	Y	data:ai3
DustID	Dust Network Identifier	Y	dust:id
DustJD	Dust Network Join Duty Cycle (%)	Y	dust:jd
SysHW	Sensor Platform Hardware Revision	Y	sys:hw
SysMI	Measurement Interval (Seconds)	Y	sys:mi
SysPI	Publish Interval (Seconds)	Y	sys:pi
SysQOS	MQTT Quality of Service	Y	sys:qos
SysSCHV	Sensor Platform Schema Version	Y	sys:schv

Temp_1	The value of temperature input 1	Y	data:temp1
Temp_2	The value of temperature input 2	Y	data:temp2
TempInt	Internal temperature	Y	data:tempint
VBatt	The voltage supplied to the sensor platform	Y	data:vbatt
X	Accelerometer x-axis value	Y	data:x
Y	Accelerometer y-axis value	Y	data:y
Z	Accelerometer z-axis value	Y	data:z
Discrete ParaName	Description		Address
DI_1	The value of digital input 1	Y	data:di1
DI_2	The value of digital input 2	Y	data:di2
DO_1	The state of digital output 1	N	data:do1
DO_2	The state of digital output 2	N	data:do2
DustOL	Enable Over-the-Air-Programming (read-only and reserved for f)	Y	dust:ol