

Advantech SE Technical Share Document

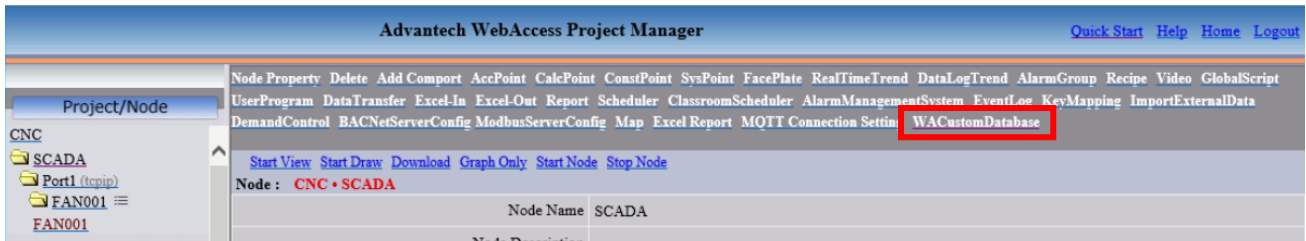
Date	2019 / 04 / 23		Related Product	WebAccess/SCADA & CNC
Category	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP <input type="checkbox"/> Driver Tech Note			
Abstract	How to configure the customized database function in WebAccess/SCADA?			
Keyword	WACustomDatabase, SCADA ODBC, Array tag, WebAccess/SCADA, WebAccess/CNC			
Related OS	Windows 7, Windows8.1, Windows 10			
Revision History				
Date	Version	Author	Reviewer	Description
2019/04/23	V1.0	JosephSun		

■ **Problem Description & Architecture:**

The WebAccess customized database function provides a way to save tags (include array type tag) in WebAccess/SCADA software. User can create a new schema & columns to select tags which saving to the database when SCADA project working.

■ **Brief Solution - Step by Step:**

Step1: Open “WACustomDatabase” function in project home.



Step2: Select “New Schema”



Step3: Start configure customized database schema

Node: CNC · SCADA

Schema List New Schema

Customized Database Schema Configuration

Save

Enable No Yes

ODBC Log Data Source:

Table Name:

Frequency: Second Minute

<input type="checkbox"/>	<input type="checkbox"/>	Column Name	Type / Characters Size	Tag Name ==Analog Tag==
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Datetime"/>	<input type="text" value="Datetime"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Timestamp"/>	<input type="text" value="Timestamp"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="TimeDifference"/>	<input type="text" value="TimeDifference"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Millisecond"/>	<input type="text" value="Millisecond"/>	
*	<input type="checkbox"/>	<input type="text"/>	<input type="text" value="Char"/> / 255	<input type="text"/>

AddColumn RemoveColumn

- (1) **Enable:** select “no” or “yes” to enable this function when project running
- (2) **ODBC Log Data Source:** Select the database source that user setting “ODBC Log Data Source” in Project Manager main page as below figure.

Advantech WebAccess Project Manager									
Current Project(s)									
Project Name	Project	Dashboard	Description	IP	HTTP Port	TCP Port	Timeout	Update	Delete
CNC	Configure	Edit	WebAccessCNC	UNO-2272G-J2AE	0	0	0	Update	Delete
CNCDriLnc	Configure	Edit	WebAccessCNC	UNO-2272G-J2AE	0	0	0	Update	Delete
CNCh1	Configure	Edit	WebAccessCNC	UNO-2272G-J2AE	0	0	0	Update	Delete
CNCRun	Configure	Edit	WebAccessCNC	UNO-2272G-J2AE	0	0	0	Update	Delete
CNCRuntime	Configure	Edit	WebAccessCNC	UNO-2272G-J2AE	0	0	0	Update	Delete
SYNTEC	Configure	Edit	Project Description	UNO-2272G-J2AE	0	0	0	Update	Delete

Please select one of above available Projects to start!!

[Integrity Checking](#)
[Backup](#)
[Restore](#)
[Admin/Project User](#)
[ODBC Log Data Source](#)
[WebAccess Express](#)
[Dashboard Settings](#)
[Setup HTTPS Service](#)
[MQTT Broker](#)

[System Log](#)
[Action Log](#)
[Alarm Log](#)
[Analog Tag Log](#)
[Analog Change Log](#)
[Discrete Tag Log](#)
[Text Tag Log](#)
[Event Log](#)
[LogData Maintenance](#)

- (3) **Table Name:** Create a name for this customized database table
- (4) **Frequency:** setting the time frequency for saving the data to database

Step4: Configure project tags in each new column

Node : CNC - SCADA

Schema List New Schema

Customized Database Schema Configuration

Save

Enable No Yes


ODBC Log Data Source

Table Name

Frequency Second Minute

<input type="checkbox"/>	<input type="checkbox"/>	Column Name	Type / Characters Size	Tag Name
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Datetime"/>	<input type="text" value="Datetime"/>	<input type="text" value="FAN001:progname"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Timestamp"/>	<input type="text" value="Timestamp"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="TimeDifference"/>	<input type="text" value="TimeDifference"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Millisecond"/>	<input type="text" value="Millisecond"/>	
*	<input type="checkbox"/>	<input type="text" value="NCProgramName"/>	<input type="text" value="Char"/> / <input type="text" value="80"/>	<input type="text" value="FAN001:progname"/>

AddColumn RemoveColumn

- Column Name:** Define a new name for saving tag data in database
- Type:** Select correct type based on tags data type. There are six type can be selected.
 - Datetime*: Log date time information (*minimum time unit : sec)
 - Timestamp*: A digital record of the time of saving data occurrence (*Unix Timestamp)
 - TimeDifference: The difference in clock time between UTC time zone
 - Millisecond: The minimum time information of saving data
 - Char: For "Text" data type of SCADA tag, SCADA tag support maximum characters size is 80
 - Double: For "Analog" data type of SCADA tag
 - ✘ Char & Double type can use for "Digital" data type of SCADA tag
- Tag Name:** Setting tag for this new column from "Tag Name" selection list
-  : Setting database "Primary Key" of each column

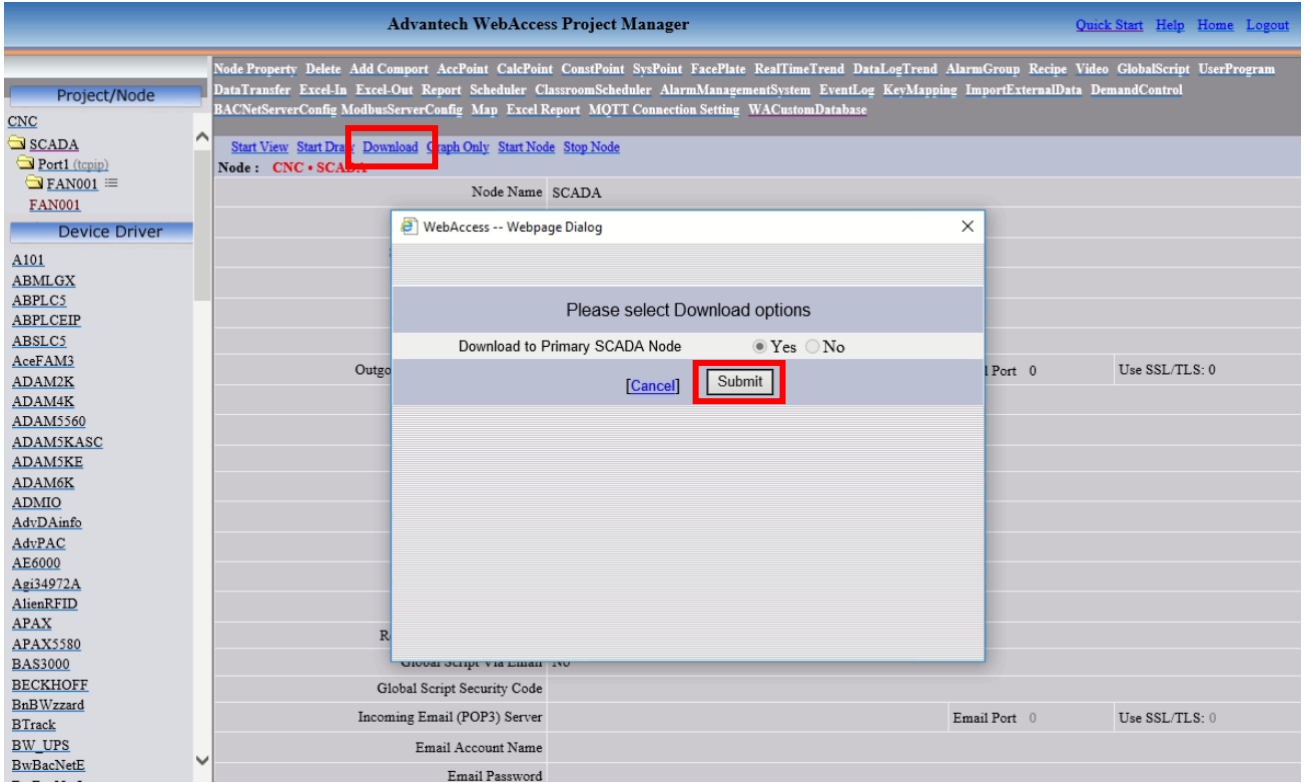
Customized Database Schema Configuration example:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	Column Name	Type / Characters Size	Tag Name
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Datetime"/>	<input type="text" value="Datetime"/>	<input type="text" value="FAN001:posmacar"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Timestamp"/>	<input type="text" value="Timestamp"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="TimeDifference"/>	<input type="text" value="TimeDifference"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Millisecond"/>	<input type="text" value="Millisecond"/>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="NCProgramName"/>	<input type="text" value="Char"/> / <input type="text" value="80"/>	<input type="text" value="FAN001:progname"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="PartCount"/>	<input type="text" value="Double"/>	<input type="text" value="FAN001:pcount"/> <input type="text" value="LastValue"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="X_MachinePos"/>	<input type="text" value="Double"/>	<input type="text" value="FAN001:posmacar(0)"/> <input type="text" value="LastValue"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Y_MachinePos"/>	<input type="text" value="Double"/>	<input type="text" value="FAN001:posmacar(1)"/> <input type="text" value="LastValue"/>
*	<input checked="" type="checkbox"/>	<input type="text" value="Z_MachinePos"/>	<input type="text" value="Double"/>	<input type="text" value="FAN001:posmacar(2)"/> <input type="text" value="LastValue"/>

*** Array type tag using *tagname(0)*, *tagname(1)*, *tagname(2)*... to separate each array column for saving each tag value in array data type format.

Step5: Finish database configuration and download project again.

Node : CNC • SCADA					
Schema List New Schema					
Table Name	ODBC Log Data Source	Update Frequency	Enable	Update	Delete
CNCData	bwpdata_Access	1Second	<input checked="" type="checkbox"/>	Update	Delete



- **Reference:**
WebAccess/SCADA V8.4