

Bristol Babcock BSAP Driver

Serial and UDP

Information Sheet for Crimson v2.0

Compatible Devices

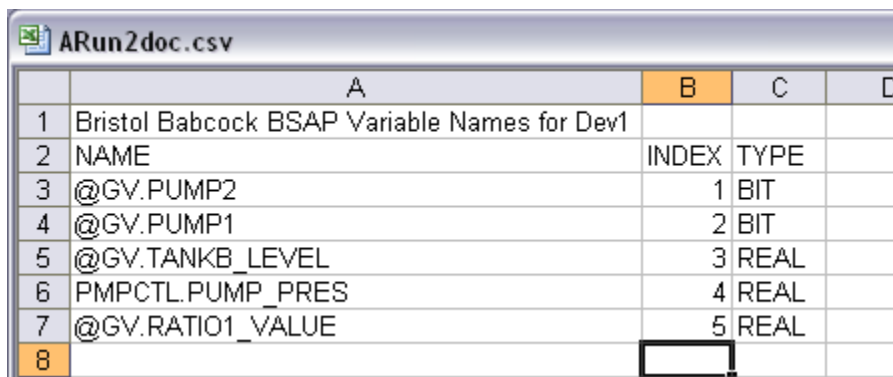
- Control Wave Micro controllers using BSAP

Verified Devices

- Control Wave Micro

Device Options:

- 1) Select the desired address for RS232 or UDP.
- 2) Variable name entry:
 - a. Select 'Import' to enter the variable names from a comma-separated file. The list must be formatted as below. Names must be less than 25 characters.



	A	B	C	D
1	Bristol Babcock BSAP Variable Names for Dev1			
2	NAME	INDEX	TYPE	
3	@GV.PUMP2	1	BIT	
4	@GV.PUMP1	2	BIT	
5	@GV.TANKB_LEVEL	3	REAL	
6	PMPCTL.PUMP_PRES	4	REAL	
7	@GV.RATIO1_VALUE	5	REAL	
8				

Lines 1 and 2 are required for file verification.

From line 3 on:

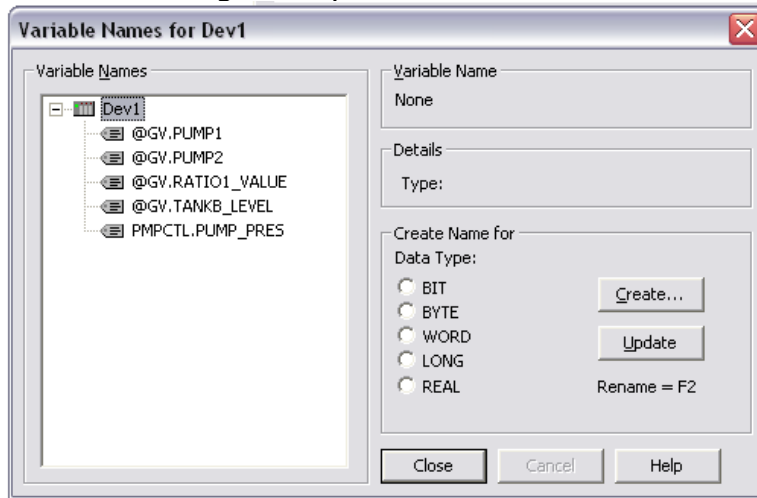
The first column is the variable name.

The second column is an arbitrary index value. Each NAME must have a different INDEX number

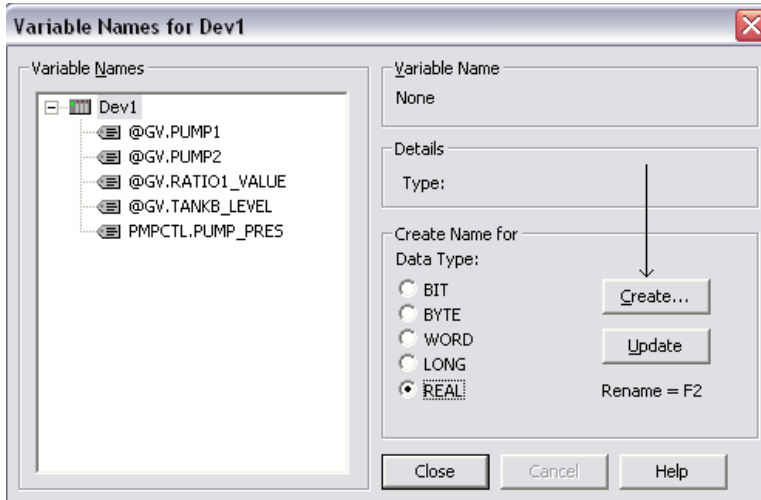
The third column is the data type, BIT, BYTE, WORD, LONG, or REAL.

Creating the csv can be done by copying the Data View screen in OpenBSI, pasting it into the spreadsheet, and editing it to create the 3 columns.

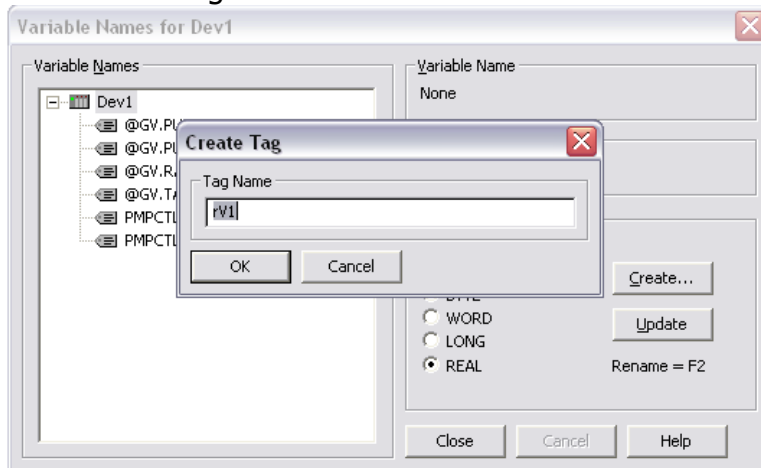
b. Select 'Manage' to input the variable names manually.



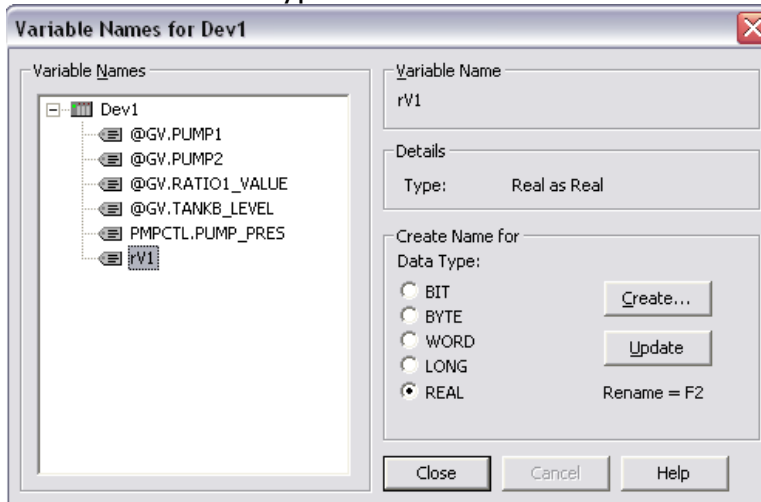
Select Create to add a new variable name.



The next dialog box allows the name to be entered.



After OK is selected, the list of variable names is redrawn, showing the new name and its data type.



"Update" allows the data type to be changed.

Function key F2 allows the name to be changed.

Shift-Delete deletes a variable name, after asking for confirmation.

The "Export" button, in the Device Selection dialog, writes a csv file in the format read by import.

Other Information:

Data Tags and User Interface:

Tag names are entered in 'Data Tags', and assigned to the desired Variable Name.

User interface items are assigned to the desired Data Tag.

'@' and '.' are invalid characters for Names. Dropping the '@' and replacing '.' with '_' is recommended.

UDP

The UDP port should generally remain at 1234.

It may take up to 15 seconds for the UDP communication to start.

Variable names that do not exist in the controller will cause communication errors.

The handling of unsolicited communications from the RTU is not supported.

Cable Information

Serial – RS232

G3	Signal	Control Wave
2	RxD <- TxD	2
5	TxD -> RxD	3
3 or 4	0V	5
6	RTS -> CTS	7

In some cases, the connection between 6 of the G3 and 7 of the Control Wave may be omitted by putting a jumper on 7 and 8 of the Control Wave. Also, it may be necessary to jumper 1 and 4 of the Control Wave.

UDP – use a crossover cable.