

Classification	ISaGRAF English FAQ-144						
Author	Chun Tsai	Version	1.1	Date	Aug.2011	Page	1 / 2

A new function block “Mbus12w” to write max. 12 words to Modbus slave devices.

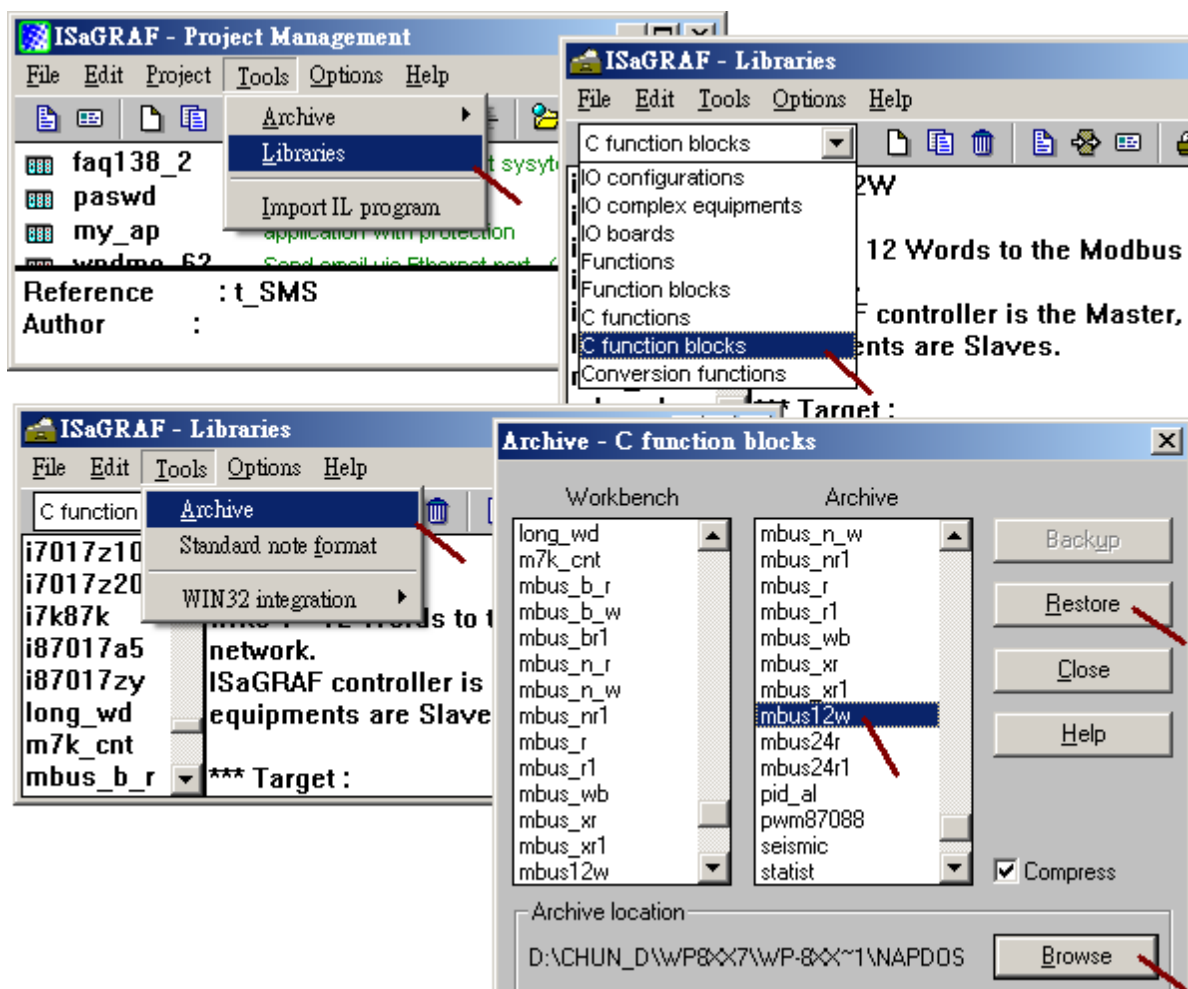
The following ISaGRAF driver of PAC support the “Mbus12w” function block to write max. 12 words to Modbus RTU / ASCII / TCP slave devices.

WP-8xx7: Ver 1.37 or later **VP-25W7/23W7:** Ver 1.29 or later **XP-8xx7-CE6:** Ver 1.17 or later
uPAC-7186EG: Ver 1.14 or later **iPAC-8x47:** Ver 1.10 or later **I-7188EG :** Ver 3.15 or later
I-7188XG : Ver 3.14 or later **I-8xx7/8xx7-80:** Ver 4.15 or later **VP-2117:** Ver 1.02 or later

Please visit

<http://www.icpdas.com/en/download/show.php?num=333&nation=US&kind1=&model=&kw=isagraf> to get a new ISaGRAF driver and update the driver of your PAC if it is older than the above listed version.

Then restore the “Mbus12w” function block to your PC / ISaGRAF as the following figure . The “mbus12w.fia” can be download from the <https://www.icpdas.com/en/faq/index.php?kind=280#751> > 144 (inside the “faq144_demo.zip” or “faq144_demo_chinese.zip”).



Classification	ISaGRAF English FAQ-144						
Author	Chun Tsai	Version	1.1	Date	Aug.2011	Page	2 / 2

To program the “Mbus12w” is very similar as the “Mbus_n_w” . User may refer to the chapter 8 of the “ISaGRAF User's manual” for more information.

<http://www.icpdas.com/en/download/show.php?num=333&nation=US&kind1=&model=&kw=isagraf>

There are some useful skill to use other Modbus function blocks, please refer to the

<https://www.icpdas.com/en/faq/index.php?kind=280#751> > FAQ-046, 047, 049, 050, 075, 096, 101 and 113 .

The below program will write 10 words to the data address 101 to 110 of the Modbus slave with NET-ID = 1 once via COM3 when “Write_it” set as TRUE. It will write only once every time when the “Write_it” set as TRUE (because the “Write_it” is reset as False after the “Mbus12w” block in the following example) .

Note:

1. The SLAVE_ , ADDR_ , NUM_W_ should be a constant. They can not be a variable value.
2. Set un-used N1_ to N12_ as 0.
3. If NUM_W_ is 1 , the “mbus12w” uses Modbus function code 6 to write 1 word.
4. If NUM_W_ is 2 to 12 , the “mbus12w” uses Modbus function code 16 to write 2 to 12 words.
5. If NUM_W_ is -1 (negative 1) , the “mbus12w” uses Modbus function code 16 to write 1 word.

