

Quality Department
Schneider Electric nv/sa - Belgium

Date : 18/07/16
Your ref. :
Our ref. : XA-46415 – PREVENTA XPSMF

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To whom it may concern,

As part of our stringent quality and safety processes, we are writing to inform you of an abnormality in our HIMA brand labelled products. This letter concerns all Preventa XPSMF products which are programmed with the XPSMFWIN software package (all versions).

The goal of this letter is to inform you about the behaviour of Elop II Factory (XPSMFWIN) when initializing REAL and LREAL type signals. In very seldom cases and after a compilation of the XPSMFWIN user program, the initial value of these types of signals could be loaded with a maximum deviation of 0.2 % into the controller. If this value is used as part of a safety function, then it may impact the safety of your process.

Description

During the project compilation with ELOP II Factory the initial values of the 32/64bit REAL signals are changed to Big Endian format for further use in the controller. This is done by changing the sequence of bytes. For certain rare byte combinations the processor of the engineering station detects an invalid value (not a number/NaN) and the processor will then change a single bit of the byte combination (9.th bit of the mantissa). This will change the value in a range of 1/1023 to 1/512.

How to manually detect the deviation

Compare the defined initial values and the values in the force editor to detect the deviation. It is required for the system to be verified with a complete functional test, during which a safety relevant deviation should have been detected.

Workaround

We recommend using the initial values of local variables or value field instead of the initial values for the signals.

The alternative for detected deviations is a slight change of the initial value. For REAL signals that would be a change on the 7-8th digits in decimal representation and the 15-16th digits for LREAL, respectively.

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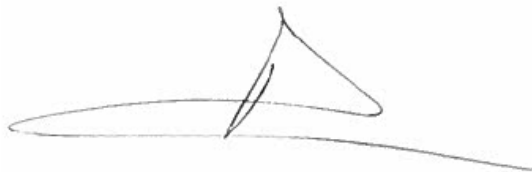
Impacted references

SSV1XPSMFWIN	Elop KK Factory	XPSMF4000	F40
XPSMF1DI1601	F1-type	XPSMF4002	
XPSMF2DO1601	F2-type	XPSMF4020	
XPSMF2DO1602		XPSMF4022	
XPSMF2DO401		XPSMF4040	
XPSMF2DO801		XPSMF4042	
XPSMF3022	F-30	XPSMFAI801	F60
XPSMF31222	F-31	XPSMFAO801	
XPSMF3502	F-35	XPSMFBLK	
XPSMF3522		XPSMFCIO2401	
XPSMF3542		XPSMFCPU22	
XPSMF3AIO8401	F3-type	XPSMFDI2401	
XPSMF3DIO16801		XPSMFDI3201	
XPSMF3DIO20802		XPSMFDIO241601	
XPSMF3DIO8801		XPSMFDO801	
		XPSMFGEH01	
		XPSMFPS01	

Also we would like to remind you that it is part of the Functional Safety Management to review the check points described in the safety manual.

We apologize for any inconvenience caused by this Notice. Schneider-Electric considers product safety and reliability its first priority.

Best regards,



Rudi Van Horen
Customer Satisfaction & Quality
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Page 2 / 2

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