

Frequently Asked Questions

Title: Using function Get_Msgentry_Status_Px or Get_Msg_Status_Px

Date: August 2017

Card/Board/Module: Px family module & cards

Operating System: all

Question:

In BC mode, how do I know if the message completed transmission ?

Please explain the difference between the status word returned by functions Get_Msg_Status_Px and Get_Msgentry_Status_Px.

Why does this function sometimes return a value of 0 ?

Answer:

In BC mode, for each message (in the bus list) that is transmitted over the 1553 bus, the module/card generates an internal status word. The hi bit of this status word indicates that the message completed processing (value of 0x8000), and additional bits indicate errors. These functions return (as an output parameter) this status word, whose bits are defined in the manuals.

The return value of these functions is a signed integer. 0 means all is OK; a negative number means that there is a problem.

The output parameter **message status word** is valid only if the hi bit (value of 0x8000) is set (indicating message complete).

After calling this function, the message status value is zeroed out. So, if you call the function twice in a row, before transmitting the message again, you will get a return **message status word** value of 0.

We suggest using the newer (replacement) function Get_Msgentry_Status_Px instead of the old (legacy) function Get_Msg_Status_Px. The bits returned are identical for both functions.