RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION

3/15/2017

SAFETY SYSTEM DIGITAL PLATFORM
- MELTAC (MITSUBISHI ELECTRIC TOTAL ADVANCED CONTROLLER) -
TOPICAL REPORT

Mitsubishi Electric Corporation

TAC NO.:	**MF4228**
RAI NO.:	**#1**
DATE OF RAI ISSUE:	**6/29/2016**

QUESTION NO.: 7 for JEXU-1041-1008, “Safety System Digital Platform – MELTAC”

DI&C-ISG-04, Section 1 Interdivisional Communications, Point 6, states the safety function processor should not accept interrupts from outside its own safety division. Page 56, third paragraph, states; **[**

] Provide information on how the engineering tool is prevented from disrupting the controller safety functions.

ANSWER:

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Impact on Topical Report

The answer above will be added to Section 4.1.4.2 of the Topical Report. See Attachment -1.

4.1.4.2 Network for the MELTAC Engineering Tool

In order to communicate between the MELTAC engineering tool and the controller, the Maintenance Network is used. The MELTAC engineering tool, which runs on a PC, is temporarily connected via the Maintenance Network to the System Management Modules of each controller in the division. This interface allows all functions described in Section 4.1.4.1. The Maintenance Network is temporarily connected to the controllers in the same safety division. There is a separate Maintenance Network for each division. There are no Maintenance Network interconnections between safety divisions. There is also a separate MELTAC engineering tool for each division. The specification of the Maintenance Network is described below.
For the configuration and the isolation of the Maintenance Network, see Section 4.3.4.

(Specification)
Function: Transmission of maintenance data for MELTAC engineering tools

- Transmission protocol: Ethernet (IEEE Std. 802.3; CSMA / CD, UDP/IP)
- Transmission speed: 100 Mbps/10 Mbps
- Communication form: Dialog communication
- Connection form: Bus/Star-type

Transmission media: UTP Category 5 cable
Optical fiber (Multi mode)

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