

Safety Management Systems

R210.6

Software Change Notice

Version: 1.3



2.2.2 Safety Manager Controller functionality support

BASE		Hardware required						
		Chassis	Control Processor	Communication	Earth Leakage Detection	Universal Safety IO	Universal Logic Solver	
Safety Manager	R100	FS-CPCHAS-0001 FS-IOCHAS-0001R FS-IOCHAS-0001S	FC-QPP-0001	FC-USI-0001	10310			
Feature	Extra	Extra Hardware requirement compared to BASE						
	Support	From	To	Chassis	Control Processor	Communication	Earth Leakage Detection	Universal Safety IO
Power infrastructure improvement		R100		FS-CPCHAS-0003 FS-IOCHAS-0003R FS-IOCHAS-0003S				
SafeNet		R110						
High performance Processor		R130			FC-QPP-0002			
Universal Safety Interface (FC-USI-0001)		R100	<R160			FC-USI-0001		
Universal Safety Interface (FC-USI-0002)		R100				FC-USI-0002		
Universal Safety Interface (FE-USI-0002)		R130				FE-USI-0002		
Universal Safety Interface (FX-USI-0002)		R140				FX-USI-0002		
Redundant Universal Safety IO		R140	R145		FC-QPP-0002			FC-IOTA-R24 + 2X FC-RUSIO-3224
Redundant Universal Safety IO		R150			FC-QPP-0002			FC-IOTA-R24 + 2X FC-RUSIO-3224
Experion CDA/FTE support		R150			FC-QPP-0002	FC-USI-0002, FE-USI-0002 or FX-USI-0002		
Advanced Redundancy Technique		R150		FS-CPCHAS-0002 FS-IOCHAS-0002R FS-IOCHAS-0002S	FC-QPP-0002			
Universal Safety Logic Solver (Localized Safeguarding)		R150	<R200		FC-QPP-0002			FC-IOTA-R24 + 2X FC-RUSLS-3224
Non Redundant Universal Safety IO		R150			FC-QPP-0002			FC-IOTA-NR24 + FC-RUSIO-3224 FC-IOTA-NR24 + FC-RUSLS-3224
HART Pass thru		R150			FC-QPP-0002			FC-IOTA-NR24 + FC-RUSIO-3224 or FC-IOTA-R24 + 2X FC-RUSIO-3224 FC-IOTA-NR24 + FC-RUSLS-3224 or FC-IOTA-R24 + 2X FC-RUSLS-3224
Low latency SOE		R150			FC-QPP-0002			FC-IOTA-NR24 + FC-RUSIO-3224 or FC-IOTA-R24 + 2X FC-RUSIO-3224 FC-IOTA-NR24 + FC-RUSLS-3224 or FC-IOTA-R24 + 2X FC-RUSLS-3224
Modbus Master TCP		R150			FC-QPP-0002	FC-USI-0002, FE-USI-0002 or FX-USI-0002		
HART Handheld		R152			FC-QPP-0002			FC-IOTA-NR24 + FC-RUSIO-3224 or FC-IOTA-R24 + 2X FC-RUSIO-3224 FC-IOTA-NR24 + FC-RUSLS-3224 or FC-IOTA-R24 + 2X FC-RUSLS-3224
USIO/USLS Earth Leakage Detection		R153.3			FC-QPP-0002		FC-TELD-0001	FC-IOTA-NR24 + FC-RUSIO-3224 or FC-IOTA-R24 + 2X FC-RUSIO-3224 FC-IOTA-NR24 + FC-RUSLS-3224 or FC-IOTA-R24 + 2X FC-RUSLS-3224
EUCN		R160.1b			FC-QPP-0002	FE-USI-0002 or FX-USI-0002		
FSC to SM Migration		R160			FC-QPP-0002	FC-USI-0002, FE-USI-0002 or FX-USI-0002		
SafeNet : SM-FSC		R161			FC-QPP-0002	FC-USI-0002, FE-USI-0002 or FX-USI-0002		
AutoCom SIL 2 protocol		R162			FC-QPP-0002	FC-USI-0002, FE-USI-0002 or FX-USI-0002		

	NOT supported		Unsupported Hardware by Safety Manager					
	From	To	Chassis	Control Processor	Communication	Earth Leakage Detection	Safety Universal IO	Universal Logic solver
Safety Manager	R146	R146					FC-IOTA-NR24 + FC-RUSIO-3224 or FC-IOTA-R24 + 2X FC-RUSIO-3224	FC-IOTA-NR24 + FC-RUSLS-3224 or FC-IOTA-R24 + 2X FC-RUSLS-3224
Safety Manager	R160	---		FC-QPP-0001	FC-USI-0001			

	Discontinued		Hardware Discontinued					
	From	To	Chassis	Control Processor	Communication	Earth Leakage Detection	Safety Universal IO	Universal Logic solver
Safety Manager	2012-Q1	---		FC-QPP-0001				
Safety Manager	2014-Q2	---			FC-USI-0001 FC-USI-0002			
Safety Manager	2019-Q3	---			FE-USI-0002			
Safety Manager	2019-Q4	---	FS-IOCHAS-0001R FS-IOCHAS-0001S					
Safety Manager	2020-Q2	---	FS-CPCHAS-0001					

4.7 FX-USI-0002 firmware

Following table indicates anomalies resolved for **FX-USI-0002 firmware** resolved for Safety Manager Controller

PAR #	*Abstract	Release
1-EJCT8SL	Safety Manager having EUCN configuration running on <=R162.8 might run into EUCN communication loss, when EUCN configured communication module encounters EC34 diagnostic (PN2022-12A).	R210.6/ R163.1
1-E89DTHL	UCN noise reported continuously in TPS journal logs reported by Safety Manager. (PN2022-12A)	R210.6/ R163.1
1-E3PTQ31	Safety Manager having CDA configuration and BI or BO points configured for CDA alarms may experience points are stuck in Active state and Return to Normal (RTN) will not occur.	R210.6/ R163.1
1-E3QUQRF	SM-EUCN: Time drift on ENB causes "partfail" for 6 seconds randomly Safety Manager customer having EUCN configuration and having ENB in network, might experience SMTSFLT part fail alarms in system journal	R210.6/ R163.1
1-D2KUCHG	Any customer configuration having FSC as Primary node, Safety Manager and FSC as Secondary node with Device clock is configured (using UCN, Modbus or DBM) at FSC Primary node can have SafeNet link high level retries resulting in alarms. In some cases, FSC-SM SafeNet logical link failure might be observed.	R210.6/ R163.1
1-E1DVZKR	SMM (Safety Manager Module) may not failover when universal safety interface (USI) fails with error code 34. (PN2022-12A)	R210.6/ R163.1
1-D3NU95N	In situations where two IP addresses are configured on SM (that is IP configuration on port A and port B) and with different protocols configured on port A and port B, then it is possible to communicate to protocols configured on port B via communication from port A and vice versa, with simple addition of "route" command.	R210.6/ R163.1

4.8 Safety Builder

Following table indicates anomalies resolved for the **Safety Builder**

PAR #	*Abstract	Release
SMSC-47507	SM Controller's CP2 Load Fails when the Safety Builder is only in the View only Mode during the Firmware/Application Download	R210.6
1-DV6J6DX	Tool requires to resolve alarm stuck issue on SM - Experion CDA integration	R210.6
1-DDO10FF	Decimal value not correctly displayed in online FLD after Function Blocks and division.	R210.6
1-DZMXZHW	Remote Reset is enabled in View Only credential of safety Builder during Point Viewer option.	R210.6
1-E2WMZGP	FNG DI point connected to function block symbol not working when directly connected without logic	R210.6
1-DZJRTVH	Application Viewer: Safety Manager having PID configuration may show "NaN" while reading the output of PID in point viewer or in online FLD page	R210.6
1-CQTOMA3	Safety Builder stopped when right click on FLD during FLD selection in application viewer	R210.3
1-C81RRID	Migration aborted due to Maximum number of Points that can be allocated to EUCN protocol	R210.3
1-AUIE97W	Urgent alarms from SM are termed as Critical alarms in Experion server R500.1	R210.3
1-CAZYRAP	Copy Controller" functionality is broken: All addresses changed, and OLM is not possible	R210.3
1-C2R8HJB	1 DO tag forced causing another ANN tag to force as well	R210.3
1-C1DDKP7	Range Check Error during compilation. (Unable to compile application)	R210.3
1-B3AO76P	On sheet marker directly connected to an input is missing all properties of that input	R210.3

PAR #	*Abstract	Release
1-CQBECT7	Safety Builder stopped during migration of FSC-SM database after 6 hours	R162.5
SMSC-8349	On sheet marker directly connected to an input is missing all properties of that input	R210.3
SMSC-8399	Not able to retrieve controller logs via Safety Builder	R210.3
SMSC-5761	Clicking and changing between FB in online view renders SB unresponsive	R210.1
SMSC-6044	Deallocated points are not showing in the Select Point list from the Hardware Configurator	R210.1
SMSC-6200	Safety Builder on a standalone remote PC stops when the SQL Server to which it is connected is turned off.	R210.1
SMSC-6213	Retrieving diagnostics in OLM procedure takes relative long: 1,5 minutes	R210.1
SMSC-6214	Universal Safety IO (System Info tab) does not update when modules are changed/added/removed	R210.1
SMSC-6219	"Nervous cursor" when being in online environment	R210.1
SMSC-6220	No confirmation from Safety Builder that backup is successfully created and completed	R210.1
SMSC-6630	On sheet marker directly connected to an input is missing all properties of that input	R210.1
SMSC-6647	Compiler did not address SM SC with non-used max repair time configuration.	R210.1
SMSC-6739	Builder reports "DISK WRITE ERROR" when load block and save block used on comment FLD	R210.1
SMSC-6145	Copy controller when Modbus Responder configured may show "host IP address invalid".	R210.1

4.9 Experion Integration

Following table indicates anomalies resolved for the **Experion Integration**

PAR #	*Abstract	Release
1-4A9KBKH	TFS_COM1-Firstup Status events reported in Safety Historian & not reported in Experion CDA	R210.6

Safety Management Systems R210.6 provides Safety Manager Controller version R163.1
For more detail information regarding updates for Safety Manager Controller, check the Software Change Notices for Safety Manager R162.x, which can be found at MyHPS website

(<https://process.honeywell.com/us/en>)

Search for "Safety Manager - SoftwareChangeNotification – R162"

5.2.4 FE-USI-0002 compatibility limitations (1-3WZT0DJ)

Configurations:

FE-USI-0002 with EUCN configuration

Descriptions & Conditions:

If an FE-USI-0002 module which was working in R16x with EUCN configured (having EUCN authentication files) is swapped as spare USI to Safety Manager Release < R130.1, the FE-USI-0002 or loses its EUCN certificate. This might result in loss of communication with EUCN (ENIM does not accept Safety Manager node) and/or the FE-USI-0002 module reporting diagnostic message EC75.

Restriction:

Do not use FE-USI-0002 in a Safety Manager Solution < R130.1.

5.2.5 FX-USI-0002 compatibility limitations (1-BZ1LQP7)

Configurations:

FX-USI-0002

Descriptions & Conditions:

The FX-USI-0002 module only supports a QPP that is running \geq R140.1,

Positioning the FX-USI-0002 with a QPP running older firmware than R140.1 will leave the FX-USI-0002 not operational. ([PN2019-31](#))

Restriction:

Do not use FX-USI-0002 with a QPP that is running Firmware older than R140.1.

5.2.6 Noise reported on EUCN during startup (1-3ZPP4MR)

Configurations:

Safety Manager – EUCN integration

Descriptions & Conditions:

The startup time of EUCN protocol in USI is a bit slower compared to SMM because all components run in USI (LLC, TBC emulator). Therefore, the context switch time between these tasks cause the delay at startup.

Work around:

Ignore any cable alarms and Return-To-Normal at startup/state change.

When doing online modification, verify there is no noise before starting this exercise