


Exception 25-01

Date of receipt:	2025-05-26	
Requestor	IO-Link community, Frank Moritz (Head of quality WG)	

Approval		
<input checked="" type="checkbox"/> approved	<input checked="" type="checkbox"/> granted until validity end of version 1.1.4	<input type="checkbox"/> not granted
Date : 2025-06-03	Name: Frank Moritz	Sign: 

State		
<input checked="" type="checkbox"/> in process by clearing group	2025-06-01	
<input checked="" type="checkbox"/> decision by clearing group	2025-06-03	
<input checked="" type="checkbox"/> submitted to steering committee	2025-09-16	

Incident description		
<input checked="" type="checkbox"/> Master	<input type="checkbox"/> Device	<input type="checkbox"/> other
		<input type="checkbox"/> IO-Link <input checked="" type="checkbox"/> IO-Link Safety <input type="checkbox"/> IO-Link Wireless
Product Identification: IO-Link Safety Master V1.1.4		
Description		
<i>Sporadic fail of Testcase SDCI_FSTC_0166 (state flow check)</i>		
The test case SDCI_FSTC_0166 initiates a SCL watchdog time out and checks the reaction of the FS-Master. A race condition between SCL timeout and the processing of the repeated SPDU in the black channel with DCountvalue "7" causes the test case SDCI_FSTC_0166 to fail sporadically.		

Justification	
<p>Failure will compromise the IO-Link system <input checked="" type="checkbox"/> no <input type="checkbox"/> yes</p> <p>The incident is caused by the IO-Link Safety System Extension V1.1.4 figure 41 (SCL state machine of the FS-Master)</p> <p>The safety function is not affected because the system is already in safe state.</p> <p>Impact on IO-Link system: No impact. Will be corrected in next version V1.1.5 by adding a detailed integration hint for figure 41. Figure 41 needs not to be changed.</p> <p>Impact on market: No impact. A declaration of the exception in the manufacturer declaration and user manual is not required.</p>	