

Exception 24-01

Date of receipt:	2024-february-09	-
Requestor	IO-Link community, Frank Moritz (Head of Quality)	
Exception Reference		

Approval

☒ approved ☐ granted time limit until ☐ not granted

Date : 2024-march-22th Name: Frank Moritz

Sign :



State

- ☐ received
- ☒ in process by clearing group 2024-march-22th
- ☒ decision by WG Quality 2024-march-22th
- ☒ notification to steering committee 2024-march-29th

Incident description

☐ master ☒ device ☐ other ☒ IO-Link ☐ IO-Link Safety ☐ IO-Link Wireless

Product Identification: *see specific Device manufacturer declaration claiming this exception*

Description

General exception for increased wake-up readiness delay time T_{RDL} following power on.

Due to more complex device implementations by e.g. booting of an operating system or running safety or security checks after startup, devices may violate the allowed T_{RDL} timing following power-on of 300ms.

Justification

Failure will compromise the IO-Link system ☒ no ☐ yes

Impact on IO-Link system: minor impact

The delayed communication readiness may result in failure messages after power-on depending on system power-on timing, Device Lost detection scheme of the Master or Device Lost signaling scheme of the gateway.

In any case, the communication will be established as soon as the Device is ready to communicate. As this happens only after power-on and not during run-time, the customer can handle the effect within the specific system in case the behavior is known.

Impact on market: This allows IO-Link communication interface for complex IO-Link Devices e.g. running operating systems.

Impact for vendor:

Vendor must describe the deviation in the manual.

The exception is granted for a maximum delay of 5.4 minutes.

General:

The claiming of this exception is limited to the validity period of the IO-Link Interface and system specification V1.1.3, V1.1.4 and V1.1.2 for family extensions.

This exception applies under the conditions stated in Annex A.

Annex A

Condition 1

The manufacturer must claim the general exception in Part B of the manufacturer declaration, see template of Part B below with the specific maximum delay time **MAX**.

Part B - Conformance exceptions

We herewith declare the following deviations to the related specifications	Reason
Power-on wake-up readiness delay according to Exception 24-01	This Device may delay the communication up to MAX s after power-on. This may result in failure reactions of the system following power-on.

Condition 2

The invocation of this exception must be indicated to the service center of the IO-Link Community with declaration of the maximum power-on delay.

IO-Link Community, Ohiostraße 8, 76149 Karlsruhe, Germany or via info@io-link.com