

IO-Link

Transition to Package 2019

including "How to use the IO-Link Change Request database"

related to

**IO-Link Interface and System Specification V1.1.3,
IO-Link Test Specification V1.1.2,
IODD – IO Device Description Specification, V1.1**

Version 1.0

July 2019



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This document has been prepared by the technology working groups of the IO-Link community. It informs users about the basis for implementations and test during the transition from Package 2015 based on the "IO-Link Interface and System" specification V1.1.2 to Package 2019 based on the "IO-Link Interface and System" specification V1.1.3.

Important notes:

NOTE 1 The IO-Link Community Rules shall be observed prior to the development and marketing of IO-Link products. The document can be downloaded from the www.io-link.com portal.

NOTE 2 Any IO-Link device shall provide an associated IODD file. Easy access to the file and potential updates shall be possible. It is the responsibility of the IO-Link device manufacturer to test the IODD file with the help of the IODD-Checker tool available per download from www.io-link.com.

NOTE 3 Any IO-Link devices shall provide an associated manufacturer declaration on the conformity of the device. A corresponding form with references to relevant documents is available per download from www.io-link.com.


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Conventions:

In this specification the following key words (in **bold** text) will be used:

may: indicates flexibility of choice with no implied preference.

should: indicates flexibility of choice with a strongly preferred implementation.

shall: indicates a mandatory requirement. Designers **shall** implement such mandatory requirements to ensure interoperability and to claim conformity with this specification.

Publisher:

IO-Link Community

Haid-und-Neu-Str. 7

76131 Karlsruhe

Germany

Phone: +49 721 / 96 58 590

Fax: +49 721 / 96 58 589

E-mail: info@io-link.com

Web site: www.io-link.com

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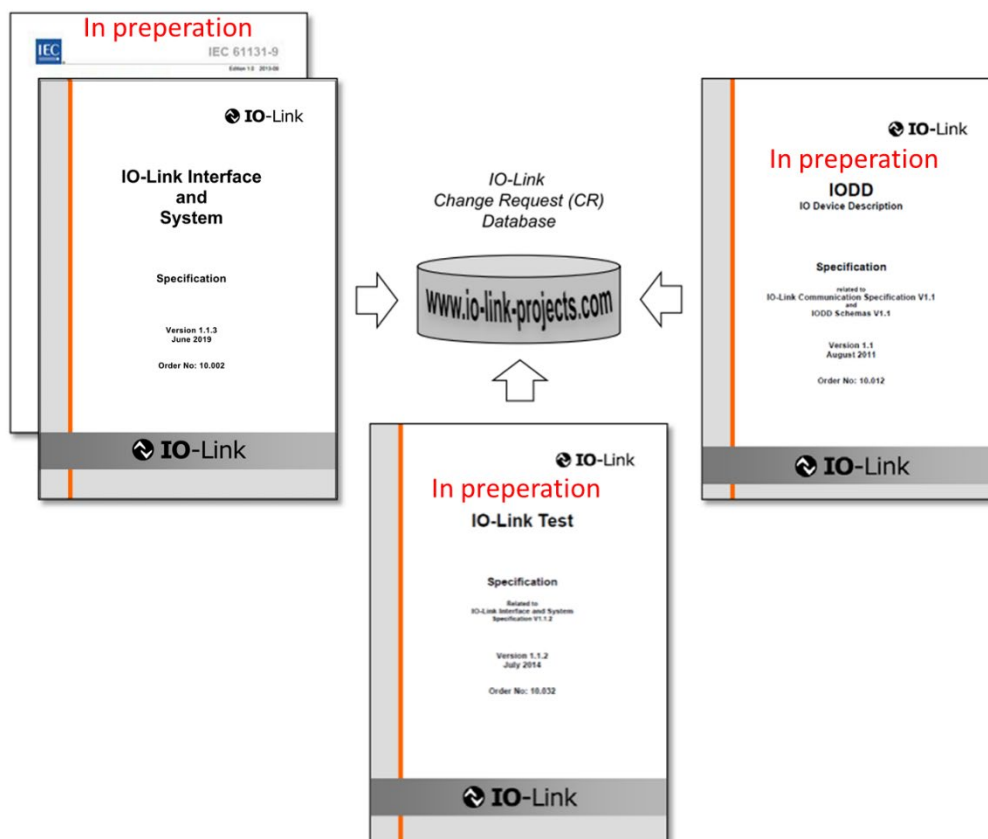
0 Introduction

The Single-drop Digital Communication Interface (SDCI) and system technology (IO-Link™¹) for low-cost sensors and actuators is standardized within IEC 61131-9 [2] as well as in [3]. The technology is an answer to the need of these digital/analog sensors and actuators to exchange process data, diagnosis information and parameters with a controller (PC or PLC) using a low-cost, digital communication technology while maintaining backward compatibility with the current DI/DO signals as defined in IEC 61131-2.

The new version 1.1.3 of the specification [1] is a response to change requests of the IO-Link Community (see Figure 1). It will be used for an update process of IEC 61131-9.

Tools allow the association of Devices with their corresponding electronic IO Device Descriptions (IODD) and their subsequent configuration to match the application requirements [4]. A new version V1.1.3 for this specification is currently in preparation.

A test specification [5] supplements the technology specifications and guarantees quality assurance together with a manufacturer declaration. A new version V1.1.3 for this specification is currently in preparation.



63

64 **Figure 1 – Ensemble of IO-Link relevant standards and specifications**

65 The IO-Link Community maintains a so-called Change-Request database for those users having
 66 problems to understand while reading the specifications, or who found bugs. The IO-Link
 67 working groups are obliged to provide answers within a reasonable timeframe.

68 A manual on "How to use the IO-Link change request database" can be found in Annex C.

¹ IO-Link™ is a trade name of the "IO-Link Community". This information is given for the convenience of users of this specification. Compliance to this specification does not require use of the registered logos for IO-Link™. Use of the registered logos for IO-Link™ requires permission of the "IO-Link Community".

IO-LINK Transition to Package 2019 – Related to IO-Link specifications and reports

1 Motivation and scope

1.1 Previous releases

A huge number of Master and Devices in the field have been and are currently being developed based on a set of the relevant specifications

- IO-Link Interface and System, V1.1.2 [3],
- IO-Link Test, V1.1.2 [5], and
- IODD – IO Device Description, V1.1 [4],

Developers are used to enter observed problems into a so-called Change-Request (CR) database maintained by the IO-Link community since worldwide access to the database is easy. It is available on the second page of each specification. Responses to the CRs should be posted by the associated working group within a reasonable time (see Figure 1).

All listed changes within the CRs are mandatory to observe for implementation and testing, as well as for the test equipment by the time of the release of this document.

A release package of the relevant versions of the specifications and the relevant concluded change requests (CR) or problem reports out of the databases respectively has been defined as Package & Corrigendum 2015.

1.2 Upcoming Package 2019

In the meantime, all CRs up to ID 213 have been processed and the IO-Link Community released a new specification IO-Link Interface and System V1.1.3 [1]. CRs of the Corrigendum 2015 are now referencing the locations in V1.1.3. A new Package 2019 will be defined when the Test and IODD specifications are adjusted to this new V1.1.3 (see Annex A).

Upon final release of Package 2019 the transition times will be defined in Annex A.1.2.

1.3 Usage of the CR database

Annex C provides a manual for those users, who are not familiar with the usage of the IO-Link CR database.

2 Normative references

The referenced documents in [1] apply.

3 Symbols and abbreviated terms

CR-xx	Change Request (Identification number of the particular database)
IP	IO Device Description Specification V1.1.3 (planned number)
SP	IO-Link Interface and System Specification V1.1.3
TP	IO-Link Test Specification V1.1.3 (planned number)

101 **4 Part1: Reports on Interface and System Specification**102 **4.1 Overview**

103 The subset of CRs listed in Corrigendum 2015 have been checked again in V1.1.3 and
104 adapted to new contexts.

105 In the meantime, all CRs against IO-Link Interface and System specification V1.1.2 are re-
106 sponded by the community within the associated database, which is valid for both the V1.1.2
107 and the V1.1.3, that means CRs of previous specification versions are still visible. Thus, Ta-
108 ble 1 shows in column "Affected clauses in V1.1.3" the locations of corresponding changes in
109 V1.1.3.

110 **Table 1 – IO-Link Interface and System specification changes in V1.1.3**

SP CR-ID	Abstract/Problem	Affected clauses in V1.1.3	Affected TP, IP
39	ASIC specifications deviate from IOL specification (-0,3 V versus -1,0 V)	5.3.2.2	
46	Voltage rating for C/Q line: VILD,M and VIHD,M only for Devices	5.3.2.2	
57	Maximum Device consumption at power-up (charge considerations)	5.3.2.3, 5.4.1	
58	Same predefined parameters and Events in V1.0 and V1.1 mode	10.6.3	
62	ErrorTypes for parameters containing value ranges and enumerations	C.2.9	
72	Block Parameterization in V1.0 mode	10.6.3	
75	ErrorTypes in case of Subindex access to a non-existing parameter	C.2.3 C.2.4	TP CR- ID 162
76	Missing rules for Data Storage as with Block Parameter transfer	10.3.5, Table 98, 10.4.1	
77	Usage of bits for Device access locks	10.6.5, 10.6.6, B.2.4, Table B.12	
80	Device not supporting V1.0 connected to a Legacy-Master	7.3.2.5, Figure 37 (T5), Table 45	TP, see clause 5.20
88	Behaviour of Event flag in case of a subsequent Event	10.10.2, Figure 93	
89	Fallback and Digital Input (DI) mandatory for Master	4.7, Table B.2, Table E.3	

111

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113 **5 Part 2: Reports on Test Specification**114 **5.1 Overview**

115 Table 2 shows the Test specification reports for V1.1.2 sorted by CR-ID. In some cases, Ta-
 116 bles 5 and 6 in [1] are affected. The relevant concluded change requests or problem reports
 117 will be adopted in Test specification V1.1.3.

118 **Table 2 – Test specification reports sorted by CR-ID**

TP CR-ID	Problem	Affected clauses in V1.1.2	Affected SP
162	ErrorTypes in case of Subindex access to a non-existing parameter	6.5.12	CR-ID 75
163	Testing of error count in case stimulus is not provided	6.10.21, 4.4	-
164	Test of "protocol revision" is optional	6.2.3, 4.4	-
165	ISDU capability test for Devices without ISDU support	6.8.3, 4.4	-
166	ISDU Read/Write test for Devices without ISDU support	6.8.4, 4.4	-
167	Deviating resistor values between test cases and test instructions	5.5.3, A.1.2.10 5.5.4, A.1.2.11	-
168	Test for PREOPERATE with Legacy Device not possible	6.3.6, 4.4	-
169	Test case name is incorrect	6.3.7	-
170	"Test failed" definition is incomplete	6.4.5	-
171	Frequencies in EMC test "Conducted RF" incorrect	9.4.5	-
172	References to Figures and Tables are outdated; Clause "0"	6.6.4 6.6.7 6.6.8	-
174	ISDU capability test for Devices without ISDU support	6.8.3, 4.4	-
176	Remodel test case from ISDU to M-sequence TYPE_0	6.2.6	-
178	Vendor to select variable that does not change value after Write	6.5.6	-
179	Purpose of test cases not comprehensible: collisions?	6.3.5 6.4.4	-
180	IODD reset to factory settings verification: refine test passed/failed	7.3.5	
181	Test exceeds specified maximum voltage of 30 V by 1 V	5.3.11	-
184	SystemCommand testing: vendor specific & write only	6.10.3 7.3.4	-
	Consequences of CR_ID 80 against Interface and System Specifica- tion (see Table 1, CR-ID 80)	6.2.2 6.8.2.2 6.8.3 6.8.4 6.8.5 B.5	CR-ID 80
	Consequences of the test case changes for Table 5 and 6		

120 **6 Part 3: Reports on IODD – IO Device Description Specification**121 **6.1 Overview**

122 Table 3 shows the IODD specification reports for V1.1.2 sorted by CR-ID. The relevant con-
 123 cluded change requests or problem reports will be adopted in Test specification V1.1.3.

124 **Table 3 – IODD specification reports sorted by CR-ID**

IP CR-ID	Problem	Affected clauses	Affected SP, TP
1	The type of xml:lang is xsd:language	7.1	
2	Standard description of 'Device Access Locks'	-	
3	V_ProductID defaultValue	7.5.4.1	
5	Rounding and Stepwidth	7.5.8.3	
6	Config Elements in Test optional	7.6	
7	Implicit referencing of standard SystemCommands	7.5.4.1	
8	Description of usage of the Device access locks (local) bits	7.5.1	SP CR-ID77
9	Clarify excludedFromDataStorage	7.5.4.1, 7.5.4.2	
10	Reference to Standard ErrorCodes in IODD	7.5.6	
11	Remove Device access locks "datastorage"	7.5.1	SP CR-ID59

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Annex A (normative)

Conformity

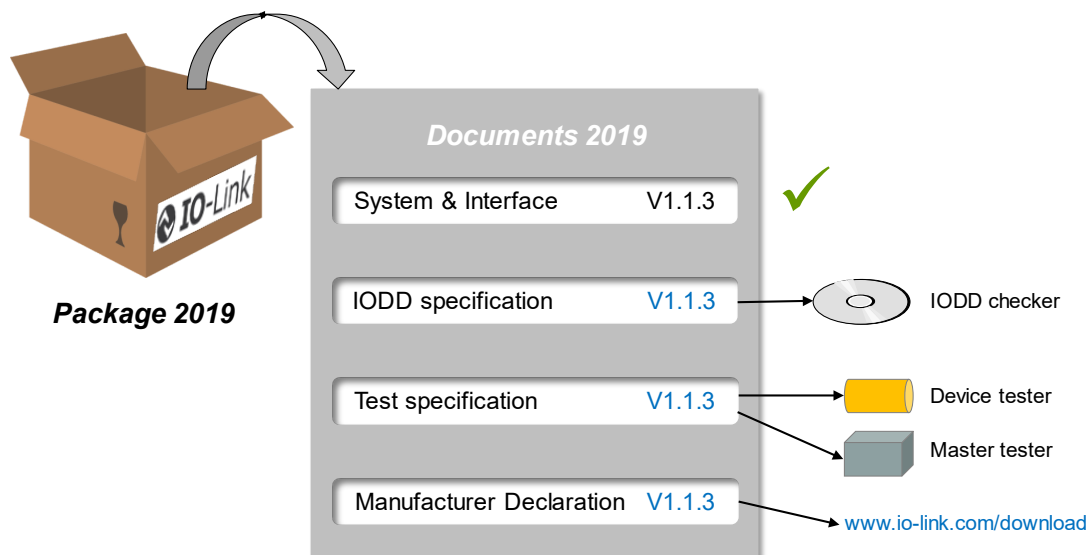
130 A.1 Package 2019 (planned)

131 A.1.1 Content and approach

132 Figure A.1 shows the planned content of Package 2019. Only the "IO-Link Interface and Sys-
133 tem" specification V1.1.3 has been released. Most of its changes are related to the new
134 "Standardized Master Interface" to upper level systems such as fieldbus, Ethernet, and Inter-
135 net. Thus, developers of Masters and gateway applications can already start working without
136 being forced to wait on the final Package 2019.

137 The specification is modelled such that Devices according Package 2015 will be supported by
138 new Masters.

139 The specification is also the precondition for the other related documents of the Package to
140 be developed in 2019.



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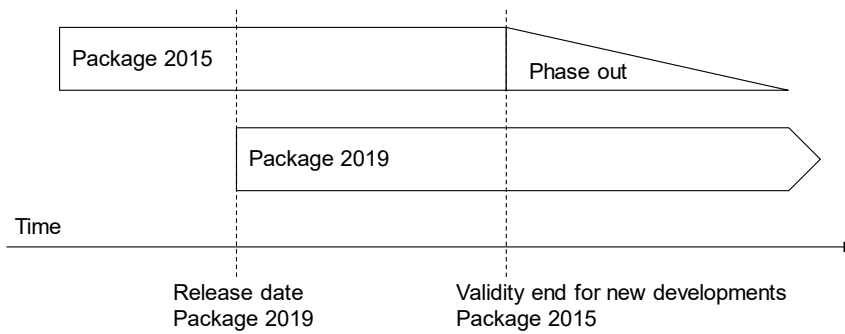
Figure A.1 – Ensemble of package 2019

143 A.1.2 Transitions

144 Figure A.2 shows the relationship between the IEC standard and possible packages.

145 Figure A.2 shows the transitions and validity plan for the Packages. After the validity end of
146 Package 2015, the related specifications will still be available until the withdrawal date (phase
147 out period). Transition periods and validity conditions for the Packages are subject of the
148 Product Quality Policy in [6].

149



150

151

Figure A.2 – Transitions

152 While the IEC standard remains constant for some years, the IO-Link Community reacts as
153 soon as possible on problem reports (CRs) posted in the change request database.

154 Major functional steps can cause the IO-Link Community to create a consistent package for
155 Master and Devices using important CRs to achieve correct interoperability between Masters
156 and Devices through conformity.

157 The following transition rules apply:


- 158 • Masters and Devices can operate in non-conformity under a variance or continuation per-
159 mit from the IO-Link Community upon request ("godfathering").

160

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162 **A.1.3 Manufacturer declaration**

163 Figure A.3 shows the principle layout of the Manufacturer Declaration. The currently valid ver-
 164 sion can be downloaded from the Internet (www.io-link.com). Upon availability of the Package
 165 2019 a new form Manufacturer Declaration 2019 will be released.

	<i>(Company logo)</i>
MANUFACTURER'S DECLARATION OF CONFORMITY	
We:	
<Company's name and address>	
declare under our own responsibility that the product(s):	
<Trademark, IO-Link product types /product families>	
(annotate "IO-Link Master" or "IO-Link Device") (product families can be listed on a separate page)	
to which this declaration refers conform to:	
<input type="checkbox"/>	<ul style="list-style-type: none"> • IO-Link Interface and System Specification, V1.1, July 2013 (NOTE 1,2) • IO Device Description, V1.1, August 2011
<input type="checkbox"/>	<ul style="list-style-type: none"> • IO-Link Interface and System Specification, V1.0, January 2009 (NOTE 1) • IO Device Description, V1.0.1, March 2010
The conformity tests are documented in the test report:	
<Test report identification>	
Issued at <location, date>	Authorized signatory
	Name: <First, last name>
	Title: <Job title>
	Signature: <Signature>
Reproduction and all distribution without written authorization prohibited	

NOTE 1 Relevant Test specification is V1.1, July 2014

NOTE 2 Additional validity in Corrigendum Package 2015

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Figure A.3 – Form of the "Manufacturer Declaration"

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Annex B (informative)

Reference tables

B.1 References for the Test specification

174 This clause is reserved for future versions.

175

Annex C (informative)

How to use the IO-Link change-request (CR) database?

C.1 Access CR database

Figure C.1 demonstrates the access to the CR database of a particular specification.

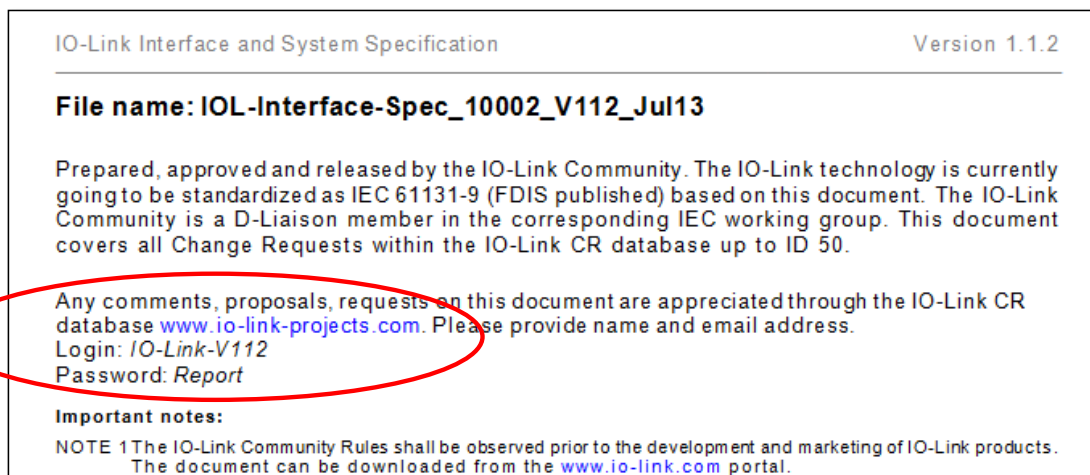


Figure C.1 – Access the CR database

On second page (behind the title sheet) you will find the link (URL) to the database to be entered in a web browser.

C.2 Access CR project associated with the specification

The browser will display the entry to the database with its Login (Name) and Password, which can be copied from the second page of the PDF document (see Figure C.1). In this case you will be first an anonymous user for the system.

Members of working groups, who are already registered within the IO-Link Community and assigned to the related project, should use their personal account provided by the business office.

Figure C.2 – Access CR project

195 C.3 Projects view

196 After login, the system will display either one particular project or several of them as shown in
 197 Figure C.3. The specification related project can be found in third blue row.

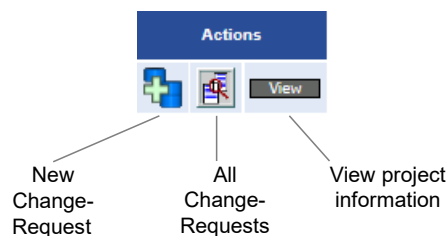
C1/WG32 - Sub-WG Requirements Management You are an anonymous user.										
Project	TRM	Priority	Certification Required	Last Author	Last Update	State	State Deadline	Actions		
Collection and Management of Requirements				Jens Hauße	14.07.2015	PI Review	Not Set			
C2/WG7 - Quality You are an anonymous user.										
Project	TRM	Priority	Certification Required	Last Author	Last Update	State	State Deadline	Actions		
30_Test specification IO-Link				Dr.-Ing. Wolfgang Stripf	13.07.2014	PI Review	Not Set			
CC/PG1 - Technology You are an anonymous user.										
Project	TRM	Priority	Certification Required	Last Author	Last Update	State	State Deadline	Actions		
02_IO-Link Interface and System V1.1				Frank Moritz	12.08.2015	PI Review	Not Set			
CC/PG2 - IO-Link Safety You are an anonymous user.										
Project	TRM	Priority	Certification Required	Last Author	Last Update	State	State Deadline	Actions		
00_IO-Link Safety "White Paper"				Dr.-Ing. Wolfgang Stripf	17.11.2014	PI Review	Not Set			
01_IO-Link Safety (single platform) Requirements and Use Cases				Dr.-Ing. Wolfgang Stripf	17.11.2014	PI Review	Not Set			
02_IO-Link Safety System Extensions; specification				Dr.-Ing. Wolfgang Stripf	20.07.2015	PI Review	Not Set			

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199

Figure C.3 – Projects view

200 In menu "Actions" (red circle) you will find three icons allowing for a new entry of a CR (see
 201 Annex C.4), for a view on all existing CRs within this project (see Annex C.5), and a view on
 202 the project information (see Annex C.6) as shown in Figure C.4.



203

204

Figure C.4 – Possible actions on the project

205 Members of the working group can get access to intermediate working draft documents or
 206 meeting minutes via the view on the project information.

207 C.4 CR entry

208 Figure C.5 demonstrates the entry fields of a new CR.

209 First of all it is necessary to enter at least one of your identifications, preferably the E-Mail
 210 address. This allows the working group to send you an E-Mail in case of an inquiry.

211 In the *Priority* field you are able to overwrite "*n/a*" and chose one of three other levels: *low*,
 212 *medium*, or *high*.

213 In the *Cause* field you are able to overwrite "*New Feature*" and chose one of five other levels:
 214 *Change feature*, *Layout change*, *Bug*, *Optimization*, or *Management*.

215 In the *Type of comment* field you are able to overwrite "*General*" and chose one of two other
 216 levels: *Technical* or *Editorial*.

217 The field *Precendent CR* can be skipped.

Create CR No. 100 for Project		"02_IO-Link Interface and System V1.1" (CC/PG1)	
*First Name	<input type="text"/>		
*Last Name	<input type="text"/>		
*Company	<input type="text"/>		
*E-mail	<input type="text"/>		
Priority	n/a		▼
Cause	New Feature		▼
Type of comment	General		▼
Precedent CR	<input type="text"/>		▼
*Abstract	<input type="text"/>		▼
*Description	<input type="text"/>		▲
Context / Constraint	<input type="text"/>		▼
Found in Version	V1.1.2 (file: IOL-Interface-Spec_10002_V112_Nov12.pdf)		
*Line	<input type="text"/>		
*Clause / Subclause	<input type="text"/>	<input type="text"/>	
*Page	<input type="text"/>		
Create more CRs	<input type="checkbox"/> (check to report more CRs)		
Send Mail	<input type="checkbox"/> Send Mails		
Submit CR			

* required
* at least one

218

219

Figure C.5 – Entry of a new CR

220 In field *Abstract* you should enter a brief description characterizing best your problem. This is
 221 very import, since many readers rely on a quick and comprehensible idea of this problem
 222 when scrolling through the CRs before reading the details within the description field.

223 In field *Description* you should enter a comprehensive description as precise as possible us-
 224 ing references to the specification such as Figures, Tables, etc.

225 NOTE The IO-Link Community plans for a new release of the database where it will be possible to attach any
 226 commonly readable file of limited size such as scans of handwritten papers as PDF, or WORD or POWERPOINT
 227 documents.

228 In field *Context/Constraints* you may enter information on used hardware or software for your
 229 particular problem.

230 Field *Found in Version* shows you the current valid specification you can refer to. It is not
 231 possible to enter a CR for older versions of the specification.

232 The database system will only allow you to submit the CR if you provided at least a number in
 233 field *Line*, or the related number (e.g. 6.2) in field *Clause/Subclause*, or a related number in
 234 field *Page*. Usually, the working group prefers the Line indication. The IO-Link Community de-
 235 cided to publish also all released specifications with line numbers.

236 In case you want to enter more than one CR you can check the box in *Create more CRs* sav-
 237 ing you time by omitting the entry of the identification over and over again.

238 In case you want to alert all members of the working group you can check the box in *Send*
 239 *Mail*. The members will receive a standardized e-mail from the database system.

240 C.5 View of all project CRs

241 Figure C.6 shows only one out of the possible list of several CRs in the project as an exam-
 242 ple.

243 The system assigned ID numbers automatically when the CR was entered (here: 41). Next to
 244 the ID you will find the state of this CR (here: *Closed*), which means, the working group de-
 245 cided already and the result is shown in the field *Responses*. Other possible states you may
 246 encounter are: *Created*, *FAQ*, *Implementation*, *Review*, *ReOpened*, *Deferred*, *Closed*, and *Re-*
 247 *refused*.

[Home](#) | [Logout](#)

Display-Filter

Project: 02_IO-Link Interface and System V1.1

Working Group: CC / PG1

Show additional CR columns

Change Request:

All (State)

 CR's which have been found in document version and have been closed

Displaying Change-Requests of Project: **02_IO-Link Interface and System V1.1** New CR

Originator	Assignee	Found in Version	Fixed in Version
	Moritz, Frank	V1.1.2	1.1.3
ID	State	Creation Date	Last Changed
41	Closed	04.03.2013 16:45:57	17.05.2013 15:12:01
Line	Clause / Subclause Number	Clause / Subclause Title	Page
---	---	---	215

Abstract:
Table B.1 DeviceID octet 3 misspelled

Description:
correct ocet to octet. additional add a space for MSB at Device ID 1 (cosmetic)

Responses:
accepted. will be changed response from IOL coreteam 13/03/14

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Figure C.6 – View of all project CRs

250 With the help of the selection box within the red circle you can filter the view by one of the
251 listed states or optionally show *All* CRs (as in Figure C.6) or all *Not closed* CRs.

252 **C.6 View of the project information**

253 Figure C.7 shows the project information. An anonymous user cannot see and access inter-
254 mediate documents of the working group.

[Home](#) | [Logout](#)

<

View Project

Project Name	02_IO-Link Interface and System V1.1.x
Abstract	IO-Link Technology is an international Standard in IEC 61131-9. The IO-Link Community publishes their own intermediate releases to support the users of this technology in case of change requests, clarifications, etc. Current version of this specification is V 1.1.2. This project to collect those change requests from all over the world.
Belonging to	CC/PG1 - Technology
Project Creation Date	18.11.2010
Last Update	11.01.2016 by
Attached Files	<input checked="" type="checkbox"/> Show downloadable Files

Intermediate documents only for working group members.

255

256

Figure C.7 – Project information

257

258

Bibliography

- 259 [1] IO-Link Community, *IO-Link Interface and System*, V1.1.3, June 2019, Order No.
260 10.002
- 261 [2] IEC 61131-9, *Programmable controllers – Part 9: Single-drop digital communication*
262 *interface for small sensors and actuators (SDCI)*
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IO-Link Community
c/o PROFIBUS Nutzerorganisation e.V.
Haid-und-Neu-Str. 7
76131 Karlsruhe
Germany
Phone: +49 (0) 721 / 96 58 590
Fax: +49 (0) 721 / 96 58 589
e-mail: info@io-link.com
<http://www.io-link.com/>