

IO-Link Analyzer User Manual

March 2026, Software Version 1.3.0



Features

Real-time IO-Link communication analysis

Continuous acquisition and decoding of IO-Link master–device communication.

Protocol decoding (IEC 61131-9)

Full interpretation of ISDU communication, frames, events, and device state.

High level interpretation

Extensive interpretation of the IO-Link communication. Including Data Storage, Profiles and more.

High-resolution timestamping

Precise timing of frames for deterministic analysis and debugging.

IO-Link Safety Support

Dedicated view with focus on IO-Link Safety communication (additional License required)

API for neatness integration

API available to integrate the IO-Link Analyzer into production and test systems. (additional license required)

A product by Germbedded GmbH

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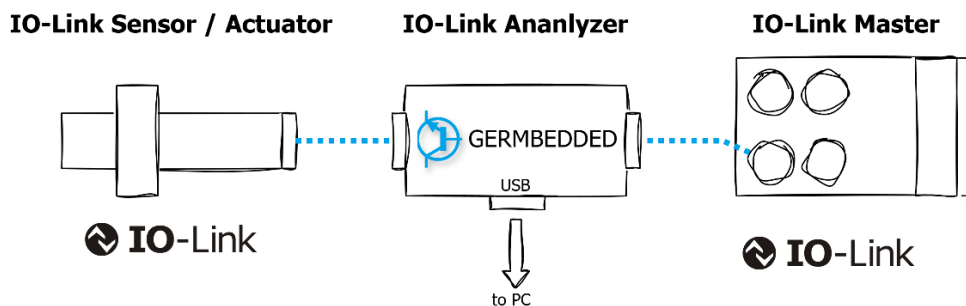


Content

Features	1
Content	2
Setup	3
LED Bar Display.....	3
User Interface Overview	4
Tool Bar	4
Status Bar	5
Overview Panel	6
Details Panel	7
Settings Panel	8
Analyzer Info Panel	9
Frequently Asked Questions	10
Software Version History.....	11
Document History.....	14

Setup

- Connect the IO-Link Analyzer device between the IO-Link Master and the IO-Link Device, Sensor or Actor.
- Connect the IO-Link Analyzer device to the PC using the USB cable. Try to avoid using USB hubs between the PC and the IO-Link Analyzer device.

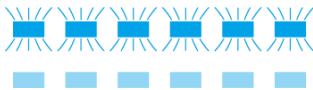


LED Bar Display

The LED bar indicates the current state of the IO-Link Analyzer:

SIO-Mode

All LEDs are fading in and out (breathing effect)



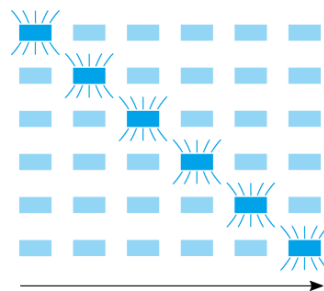
IO-Link Communication

LED bar moving from left to right

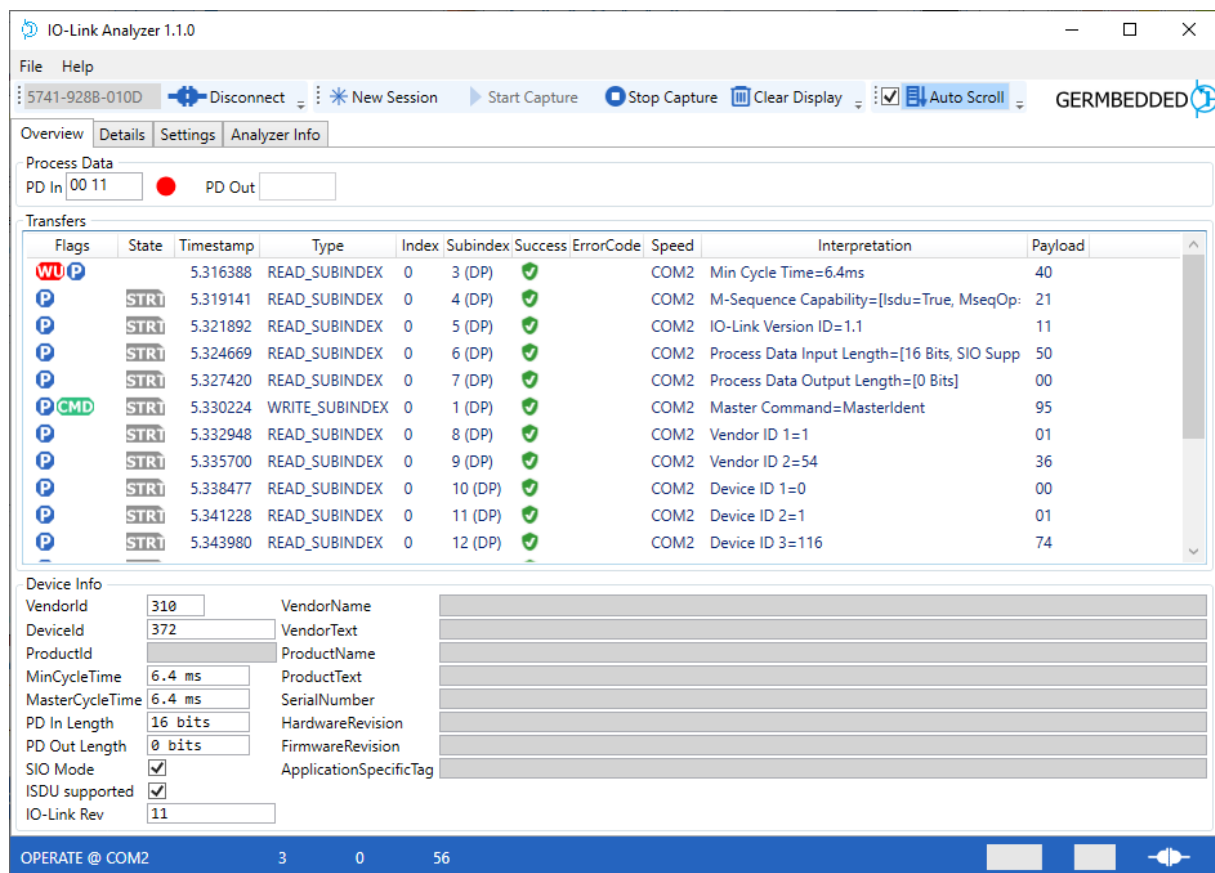
1 time per second: COM1 / 4.8 kBaud/s

2 times per second: COM2 / 38.4 kBaud/s

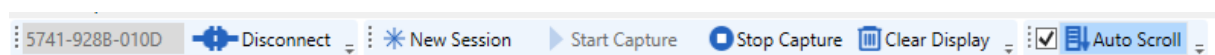
4 times per second: COM3 / 230.4 kBaud/s



User Interface Overview



Tool Bar



- | | |
|-----------------------------|--|
| Connect / Disconnect | Establishes the connection to the IO-Link Analyzer device or disconnects it. |
| New Session | Starts a new capture session. All previously captured data is cleared. After starting a new session, the capture settings can be modified. |
| Start Capture | Starts capturing. Depending on the capture settings, the analyzer waits for a IO-Link wake-up or starts immediately with capturing the IO-Link transmission. |
| Stop Capture | Stops the capturing of the IO-Link transmission. The captured data can now be analyzed or stored to a file. |
| Clear Display | Clears the data on the user interface. The data will still remain in the capture buffer. |
| Auto Scroll | If active, the frames, isdus, events and transfers lists automatically scroll to the newest element at the bottom if a new element is added to the list. |

Status Bar



Detection State

offline	There is no USB connection between the PC and the analyzer device.
COM DETECT	The analyzer device is trying to detect current IO-Link communication.
UNKNOWN @COM3 UNKNOWN @COM2 UNKNOWN @COM1	The analyzer device has detected IO-Link communication, but was not able to determine the current IO-Link operate state.
PRE_OPERATE @COM3 PRE_OPERATE @COM2 PRE_OPERATE @COM1	The analyzer device is capturing IO-Link communication in pre-operate state.
FALLBACK	The analyzer device has detected a fallback command.
SIO Mode (HIGH)	The analyzer is detecting SIO Mode and the status of the C/Q line is currently HIGH.
SIO Mode (LOW)	The analyzer is detecting SIO Mode and the status of the C/Q line is currently LOW.

Capture statistics

Nr of ISDUs	The number of captured isdus.
Nr of Events	The number of captured events. An event with confirmation counts twice.
Nr of Frames	The number of displayed frames. In brackets the number of captured frames.

Warning Indicator

The warning indicator shows up when there is at least one frame with an invalid checksum. Consult the "Frames" list on the "Details" tab.

Capture Progress Bar



If the progress bar is active (animation from left to right), the capturing of IO-Link transmission is in progress.

"WAITING FOR WAKEUP" blinks if the analyzer is waiting for a IO-Link wake-up in order to start capturing. Try re-connect the IO-Link device to force a wakeup.

Analyzer Device Connection



There is no USB connection between the PC and the analyzer device.



The analyzer device is connected to the PC via USB.

Overview Panel

Process Data
PD In: 00 11 PD Out: [red dot]

Transfers

Flags	State	Timestamp	Type	Index	Subindex	Success	ErrorCode	Speed	Interpretation	Payload
WU P		5.316388	READ_SUBINDEX	0	3 (DP)	✓		COM2	Min Cycle Time=6.4ms	40
P	STR1	5.319141	READ_SUBINDEX	0	4 (DP)	✓		COM2	M-Sequence Capability=[Isdu=True, MseqOp:	21
P	STR1	5.321892	READ_SUBINDEX	0	5 (DP)	✓		COM2	IO-Link Version ID=1.1	11
P	STR1	5.324669	READ_SUBINDEX	0	6 (DP)	✓		COM2	Process Data Input Length=[16 Bits, SIO Supp	50
P	STR1	5.327420	READ_SUBINDEX	0	7 (DP)	✓		COM2	Process Data Output Length=[0 Bits]	00
P CMD	STR1	5.330224	WRITE_SUBINDEX	0	1 (DP)	✓		COM2	Master Command=MasterIdent	95
P	STR1	5.332948	READ_SUBINDEX	0	8 (DP)	✓		COM2	Vendor ID 1=1	01
P	STR1	5.335700	READ_SUBINDEX	0	9 (DP)	✓		COM2	Vendor ID 2=54	36
P	STR1	5.338477	READ_SUBINDEX	0	10 (DP)	✓		COM2	Device ID 1=0	00
P	STR1	5.341228	READ_SUBINDEX	0	11 (DP)	✓		COM2	Device ID 2=1	01
P	STR1	5.343980	READ_SUBINDEX	0	12 (DP)	✓		COM2	Device ID 3=116	74

Device Info

VendorId	310	VendorName	
DeviceId	372	VendorText	
ProductId		ProductName	
MinCycleTime	6.4 ms	ProductText	
MasterCycleTime	6.4 ms	SerialNumber	
PD In Length	16 bits	HardwareRevision	
PD Out Length	0 bits	FirmwareRevision	
SIO Mode	✓	ApplicationSpecificTag	
ISDU supported	✓		
IO-Link Rev	11		

Process Data

Shows the raw process data in real-time during capturing

Transfers

Shows relevant IO-Link transfers:

- Access to direct parameter page
- ISDU transfers
- Events
- High-Level Interpretation, including profile related information

Device Info

Shows information about the IO-Link device according to the pre-defined parameters in the IO-Link specification. A gray field indicates that this parameter was not yet read by the IO-Link master, and therefore was not captured.

Please note that the IO-Link Analyzer can only show the information that was read from the device by the master.

Details Panel

OverviewDetailsSettingsAnalyzer Info

Frames

Timestamp	AccessType	Channel	Address	FrameType	CKT	PDOOut	OD	PDIn	PDValid	EventFlag	CKS	OperateState	ComSpeed	RawData	System Time
5.316388	ACCESS_READ	PAGE	2	TYPE_0	00	40			INVALID	NONE	45	WAKEUP	COM2	A2 00 40 6D	26.02.2020 14:..
5.319141	ACCESS_READ	PAGE	3	TYPE_0	17	21			INVALID	NONE	00	STARTUP	COM2	A3 11 21 40	26.02.2020 14:..
5.321892	ACCESS_READ	PAGE	4	TYPE_0	51	11			INVALID	NONE	48	STARTUP	COM2	A4 33 11 70	26.02.2020 14:..
5.324669	ACCESS_READ	PAGE	5	TYPE_0	34	50			INVALID	NONE	57	STARTUP	COM2	A5 22 50 79	26.02.2020 14:..
5.327420	ACCESS_READ	PAGE	6	TYPE_0	18	00			INVALID	NONE	53	STARTUP	COM2	A6 12 00 75	26.02.2020 14:..

<>

Isdus

Timestamp	Type	IService	Length	Index	Subindex	ErrorCode	PayloadLength	PayloadData
5.725875	REQUEST	READ_REQUEST_INDEX8_SUBINDEX	4	3	5			
5.753075	BUSY		1					
5.759875	RESPONSE	READ_RESPONSE_POS	35				32	00 0C 01 00 18 01 00 3C 01 00 3D 01 00 4A 01 00 4C 01 00

<>

☐ hide Busy

Events

Timestamp	StatusCodeType	ActivatedEvents	EventCode	Type	Mode	Instance	Source	IsLegacyType
232.341088	TYPE_1	E0	8CB0	WARNING	EVENT_APPEARS	APPLICATION	MASTER	False
232.490649	CONFIRM							
232.545084	TYPE_1	E0	8CB0	WARNING	EVENT_DISAPPEARS	APPLICATION	MASTER	False
232.606241	CONFIRM							

Frames

Shows the captured frames. One line corresponds to one frame.

PDOOut, PDIn, OD and RawData are displayed in hexadecimal format.

Address, CKT, CKS are displayed in decimal format.

Isdus

Shows the captured ISDUs. One line corresponds to one ISDU transfer, eg. a ISDU request or a ISDU response.

PayloadData is shown in hexadecimal format, all other values are displayed in decimal format.

The "hide Busy" option hides the BUSY ISDUs in the table above.

Events

Shows the captured events. One line corresponds to one event message, eg. an event or an event confirmation.

Settings Panel

Parser Settings				
	PDInLength	2	ODLengthOperate	1
☒ Auto Mode	PDOOutLength	0	ODLengthPreoperate	1

Capture Filter Settings	
☒ Smart Filter	
☒ Capture invalid Frames	
☐ Capture process data in (PD IN) changes	
☐ Capture process data out (PD OUT) changes	
☐ Capture unsuccessful wakeup attempts	

Auto Mode vs Manual Mode

During the startup phase, the IO-Link master and device "negotiate" the exact format of communication. The information exchanged during the startup phase is required to decode the IO-Link frames in pre-operate and operate state. In auto mode, this information is captured and used for decoding.

If the capturing needs to be started during normal operate state, the manual mode can be used. To be able to decode the IO-Link frames, the information to decode the frames must be provided manually:

PDInLength	Process Data In length in bytes.
PDOOutLength	Process Data Out length in bytes.
ODLengthOperate	On-Request Data length in operate state in bytes.
ODLengthPreoperate	On-Request Data length in pre-operate state in bytes.

Smart Filter

IO-Link generates hundreds of frames per second in most applications. The majority of these frames only contain process data information and are not relevant to analyze higher level services. To focus on relevant frames, "Smart filter" is activated by default. If "Smart filter" is activated, only the following frames will be captured:

- Frames accessing direct parameter page I or II, including wake-up and wake-up attempts.
- Frames containing ISDU transfers.
- Frames containing event information.

Option "Capture invalid Frames"

All frames that have an invalid checksum are also captured.

Option "Capture process data in (PD IN) changes"

Frames that have a different PD IN value than the frame before are also captured.

Option "Capture process data out (PD OUT) changes"

Frames that have a different PD OUT value than the frame before are also captured.

Capture unsuccessful wakeup attempts

If no IO-Link communication is active, the IO-Link Master tries to wake-up the IO-Link Device regularly. IO-Link Wake-up attempts without a response from the device are not captured, unless the "Capture unsuccessful login attempts" option is selected.

Analyzer Info Panel

Overview	Details	Settings	Analyzer Info
Analyzer Info			
Serial Number 5741-928B-010D			
Firmware Version 1-9-1 5E455549			
IO-Link Items Statistics			
Frames 95			
Isdus 3			
Events 4			

Analyzer Info

Serial number and firmware version of the connected analyzer device.

IO-Link Items Statistics

Frames	Number of captured frames.
Isdus	Number of captured ISDUs.
Events	Number of captured events.

IO-Link Safety Panel

IO-Link Safety is an extension of the standard IO-Link technology that enables the transmission of functional safety data over the same point-to-point communication link used for standard IO-Link communication. It is specified in the international standard IEC 61139-2.

NOTE: The IO-Link Analyzer Safety Extension requires an additional license. This license is assigned to a specific IO-Link Analyzer device and will be installed on the device.

Once licensed, the device can record and analyze IO-Link Safety communication. Trace files created with a licensed device can still be opened and reviewed on systems without a Safety license.

To obtain a license for your device, please go to <https://www.germbedded.com/de/io-link-analyzer-safety/> or send an e-mail to info@germbedded.com

IO-Link Analyzer 1.2.5

Connect

New Session

Start Capture

Stop Capture

Clear Display

Auto Scroll

GERMDEBDED

Overview

Details

IO-Link Safety

Settings

Analyzer Info

Frames

Timestamp	MPortNr	MCount	SetSD	ChFackReq	SPd Out CRC	SPDOut: PDOut	IPortNr	DCount	SDSet	DCommErr	DTimeout	SPd In CRC	SPDin	PDIn	SCL Cyclic Time
10.844469	1	0			0x8788B43E	00	255 (00)	0				0x00000000			
10.870230	1	0			0x8788B43E	00	1 (FE)	7				0x882FA86A	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
10.911394	1	1			0x81B19148	00	1 (FE)	7				0x882FA86A	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
10.931950	1	1			0x81B19148	00	1 (FE)	6				0x93D38029	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
10.973113	1	2			0xFDB5E98D	00	1 (FE)	6				0x93D38029	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
10.993694	1	2			0xFDB5E98D	00	1 (FE)	5				0xEFDF78EC	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.034856	1	3			0xD649C1CE	00	1 (FE)	5				0xEFDF78EC	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.055437	1	3			0xD649C1CE	00	1 (FE)	4				0xFFC1CAC5	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.096573	1	4			0x05BD1807	00	1 (FE)	4				0xFFC1CAC5	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.117155	1	4			0x05BD1807	00	1 (FE)	3				0x2C35130C	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.158291	1	5			0x2E413044	00	1 (FE)	3				0x2C35130C	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.178872	1	5			0x2E413044	00	1 (FE)	2				0x07C9384F	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.220034	1	6			0x52454881	00	1 (FE)	2				0x07C9384F	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.240616	1	6			0x52454881	00	1 (FE)	1				0x7BCD438A	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.281777	1	7			0x798960C2	00	1 (FE)	1				0x7BCD438A	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.302331	1	7			0x798960C2	00	1 (FE)	0				0x503168C9	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.343493	1	1			0x81B19148	00	1 (FE)	0				0x503168C9	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.364075	1	1			0x81B19148	00	1 (FE)	6				0xA8399A43	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.405210	1	2			0xFDB5E98D	00	1 (FE)	6				0xA8399A43	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.425791	1	2			0xFDB5E98D	00	1 (FE)	5				0x43DE286	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.466956	1	3			0xD649C1CE	00	1 (FE)	5				0x43DE286	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.487512	1	3			0xD649C1CE	00	1 (FE)	4				0xFFC1CAC5	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.528675	1	4			0x05BD1807	00	1 (FE)	4				0xFFC1CAC5	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.549257	1	4			0x05BD1807	00	1 (FE)	3				0x2C35130C	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.590394	1	5			0x2E413044	00	1 (FE)	3				0x2C35130C	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.611002	1	5			0x2E413044	00	1 (FE)	2				0x07C9384F	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.652140	1	6			0x52454881	00	1 (FE)	2				0x07C9384F	00 00 00 00 00 00 00 00 00 00 00 00 00 00		
11.672722	1	6			0x52454881	00	1 (FE)	1				0x7BCD438A	00 00 00 00 00 00 00 00 00 00 00 00 00 00		0.0617
11.713883	1	7			0x798960C2	00	1 (FE)	1				0x7BCD438A	00 00 00 00 00 00 00 00 00 00 00 00 00 00		

offline

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0

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WARNING

Frequently Asked Questions

Q: Can I connect and use multiple IO-Link Analyzer devices to a PC at the same time?

A: Yes, the IO-Link Analyzer device can be selected using its serial number, which is printed on the label on the back of the device.

Q: How can I update the firmware of the IO-Link Analyzer device?

A: The firmware is updated automatically when the IO-Link Analyzer software connects to the device. If an older software is used, the firmware is downgraded again.

Q: Which operating systems are supported?

A: Microsoft Windows 11, Microsoft Windows 10

Software Version History

1.3.0 (31 Mar 2026)

- INFO Integrated IO-Link Safety (license required).
- FEATURE Improved verbosity of application logfile to support fault analysis during connection to Analyzer device.
- FEATURE If opening the IO-Link Analyzer in exclusive mode fails, it is opened in shared mode as fallback. (Mantis-0000154)
- FEATURE Changed user manual from legacy .chm format to .pdf.

1.2.0 (28 Nov 2023)

- INFO New firmware Version 1.17.1: Fixed hangup (two leds blinking indefinitely) of IO-Link Analyzer Device in some rare circumstances. (MANTIS-0000141, MANTIS-0000139)
- INFO New firmware Version 1.17.1: Adds the ability to capture also IO-Link Safety devices that use a ready pulse at startup. (Mantis-0000124)
- INFO New firmware Version 1.17.1: Fixes an issue that led to loss of the first byte of the frame with COM3 device with very fast cycle times. (Mantis-0000128)
- INFO Application updated to .net framework 4.8 (framework 4.5 is out of support by Microsoft). (MANTIS-0000142)
- FEATURE Added license management feature to allow storage of licenses inside the IO-Link Analyzer device.
- FEATURE Added a new com speed detection mechanism based on shortest pulse measurement. (MANTIS-0000113, MANTIS-0000126, MANTIS-0000129)
- FEATURE Integrated application logging facility to enable problem diagnostics. (MANTIS-0000137)
- FEATURE Event numbering in details tab now starts with 1 (not 0) and uses lowercase 'e' to avoid confusion. (MANTIS-0000143)
- FEATURE Added textual interpretation of BLOB profile items and other profile definitions. (MANTIS-0000086)
- FEATURE Added interpretation of Smart Sensor Profile indices. (MANTIS-0000147)
- FEATURE Added interpretation of Function Tag (Index 25), Location Tag (Index 26) and Product Uri (Index 27). (MANTIS-0000148)

- BUGFIX Fixed a bug with parsing of TYPE_2 events when multiple events were active at the same time. TYPE_2 events were also erroneously displayed as TYPE_1 events.
(Mantis-0000123)
- BUGFIX Fixed detection issue if wakeup occurs within 1sec after fallback.
(MANTIS-0000131, MANTIS-0000132)
- BUGFIX Fixed: Frames view shows 'master checksum invalid' when device part is missing
(MANTIS-0000125)
- BUGFIX Fixed: Command "Back to Box" (131) is not decoded
(MANTIS-0000136)
- BUGFIX Fixed: wrong decoding of Index 3 (Data Storage) when read without subindex
(MANTIS-0000135)
- BUGFIX Transfers based on faulty ISDUs are not displayed on the overview tab anymore, to avoid confusion.
(MANTIS-0000122)

1.1.2 (24 Mar 2020)

- BUGFIX Fixed exception when loading trace file with less than 50 frames.
(Mantis-0000119)
- BUGFIX Fixed exception when capturing or loading some traces captured during TMG TestSystem run.
(Mantis-0000120)
- BUGFIX Fixed: The isdu counter in the status bar and on the analyzer info tab was not counting.
(Mantis-0000121)

1.1.0 (01 Mar 2020)

- INFO A new extensive automated testing environment has been created to speed up the integration testing of future releases. This will enable a more frequent update cycle in the future.
- INFO Significant improvement in performance for COM3 devices. Some COM3 devices have not worked, fixed!
- INFO To simplify working while a live capture is in progress, the scroll direction of all lists has been inverted (now the newest item is at the bottom). A selectable auto scroll function is implemented to always display the most recent items during live capture. The PAUSE function is obsolete by these changes and has been removed.
(Mantis-0000059)
- INFO Updated firmware to Version 1.9.1.
- FEATURE Added CSV export capability.
- FEATURE The ISDU list now shows human readable error code descriptions for standard error codes.
(Mantis-0000106)
- FEATURE Added new smart filter options: 'capture invalid frames', 'capture process data in changes', 'capture process data out changes'.
(MANTIS-0000006, MANTIS-0000077)
- FEATURE Implemented a new absolute timestamp that assigns the host pc's absolute time to each frame. The system timestamp is shown in the 'Frames' section.
- FEATURE A new indicator in the status bar will show up if there was a buffer overflow between the analyzer and the PC.
(Mantis-0000105)
- FEATURE The microseconds timestamp is now extended to 64 bits to prevent overflow after 1.2h.
(Mantis-0000111)
- FEATURE In 'Frames' section, fields of the master and/or device are now grayed out if the master and/or device checksum is not correct. In this case, these fields can not be relied on (PDOOut, OD, PDIn, PDValid, EventFlag).
(MANTIS-0000078)
- FEATURE Added a new column 'Interpretation' to 'Overview' section, showing detailed application level descriptions of the transfers.
(MANTIS-0000031, MANTIS-0000063)
- FEATURE Added decoded error code information to the 'ErrorCode' column and decoded event information in the 'Overview' Section.
(MANTIS-0000031, MANTIS-0000063)

FEATURE	In the 'Frames' list, the raw data has now a colored background to distinguish between master data and device data. (MANTIS-0000062)
FEATURE	Added decoding and display of data storage index list in transfer view (index 3, subindex 5).
FEATURE	Added decoding and display of Profile Characteristics Index in transfer view (index 13).
FEATURE	Added progress information while opening a .ioltrace file.
FEATURE	In ISDU list: Success and error are now visualized with a corresponding icon. (Mantis-0000093)
FEATURE	Events on the overview tabs are now displayed with more details (appearance / disappearance and error code). (Mantis-0000109)
FEATURE	The ISDU view now has an option to hide 'BUSY'-ISDUs. (Mantis-0000098)
FEATURE	Added support for Legacy Frame Type 1. (MANTIS-0000072)
FEATURE	ISDU ABORTs are now also displayed in Isdu list. (MANTIS-0000095)
FEATURE	ISUDs with parsing error are now displayed in Isdu list, with data fields grayed out. (MANTIS-0000005)
FEATURE	Added support for wakeup sequences that do not include the COM3 request, but immediately start with a COM2 request. (MANTIS-0000014)
FEATURE	Added 'ISDU Supported' information to 'Device Info' Section. (MANTIS-0000024)
FEATURE	Added tooltip to display index and subindex in hexadecimal format for overview section.
FEATURE	The IO-Link Analyzer device can now be selected by serial number.
FEATURE	The version of the IO-Link Analyzer Application is now shown in Windows 'Apps and Features' dialog the simplify the handling of multiple versions installed in parallel. (MANTIS-0000017)
FEATURE	The status display in the lower left corner is now made clear.
FEATURE	Reworked operating state tracker to better handle IO-Link firmware update captures.
FEATURE	Analyzer device is now opened in exclusive mode to avoid conflicts when running multiple instances of the application. (MANTIS-0000058)
FEATURE	The process data view is now grayed out if the analyzer is in SIO mode. (MANTIS-0000085)
FEATURE	The application now asks to quit if there is unsaved data. The loaded file name is now shown in the window title. (Mantis-0000097)
FEATURE	Replaced the firmware update status dialog, now showing the downloaded firmware version. (Mantis-0000018)
FEATURE	The M-Sequence Capability is now displayed more detailed on the overview panel. (Mantis-0000115)
FEATURE	Redesigned button icons.
FEATURE	The main window title now also shows the program version. (MANTIS-0000081)
FEATURE	Shortened time for tooltips to show up. (MANTIS-0000022)
FEATURE	The "Start Capture" button now shows "Resume Capture" when capturing is paused.
BUGFIX	Fixed frame parsing issues for some legacy device (eg. MURR MVP12). (MANTIS-0000076)
BUGFIX	Fixed issue that showed the Data Storage upload request (0xFF91) event before the ParamDownloadStore (0x05) command. (MANTIS-0000013)
BUGFIX	Fixed issue that did not allow to store ioltrace files, introduced with version 1.0.3.
BUGFIX	Fixed issue with decoding of process data for some devices. (MANTIS-0000074)

- BUGFIX In the 'Overview' section the subindex number was displayed incorrectly for direct parameter access. The number was referring to the 'Address' in the direct parameter page instead of the subindex number. Now the subindex number is displayed together with a hint (DP).
(MANTIS-0000073)
- BUGFIX Frames with invalid checksum are not considered for event or isdu decoding anymore to avoid putting the decoder into invalid states by invalid frames.
(MANTIS-0000050)
- BUGFIX Fixed a bug that a frame's device checksum was considered correct if the device part of a frame was missing.
(MANTIS-0000091)
- BUGFIX Fixed: There was a rounding difference between the Frame timestamps and the other timestamps (events, isdus, transfers) that lead to slightly different timestamp values. This was confusing for example when trying to find a frame that corresponds to an event.
(MANTIS-0000094)

1.0.0 (31 Mar 2015)

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