



acontis technologies GmbH

EC-Inspector

Release Notes

Version 4.0

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1 Introduction

1.1 Overview

This document describes the changes between the different versions.

1.2 Layers

The architecture of EC-Inspector is very modular and splitted into the following layers:

- Internal Layers
 - L4: Core Layer 4
 - L2: View Layer 2
 - L1: Brand Labeling Layer 1
- External Layers:
 - E4: Core Demo
 - E2: EtherCAT Suite
 - E1: EC-Inspector

2 Features of EC-Inspector V4.0

2.1 List of enhancements/bug fixes in version 4.0.4

- Enhancements
 - Integrated monitor version V3.2.2.04 [L4]

2.2 List of enhancements/bug fixes in version 4.0.3

- Enhancements
 - Internal improvements [E1]

2.3 List of enhancements/bug fixes in version 4.0.2

- Enhancements
 - Added support for ESI schema 1.19 [L5]
 - Changed default theme [L2]
- Fixes:
 - Fixed bug: In some cases the export pdlayout.h had wrong alignments [L4]
 - Fixed bug: Switching between config and diag mode caused memory leak [L4]

2.4 List of enhancements/bug fixes in version 4.0.1

- Enhancements
 - Improved printing in Inspection Report [L2]
 - Removed not working reset button [L2]
 - Added new welcome splash screen [E1]
- Fixes:
 - Fixed bug: Simulation Button was sometimes visible even without Simulator [L2]

2.5 List of enhancements/bug fixes in version 4.0.0

- Enhancements
 - Added RX frames to general tab [L4]
 - Added possibility to select TAP Type for Pcap files [L4]
 - Added a new settings dialog [L2]
 - Added new icon set [L2]
 - Use inclusive language [L2]
 - Added new modern themes [L2]
 - Changed to 64-Bit application [E1]
 - Internal improvements [E1]

3 Features of EC-Inspector V3.9

3.1 List of enhancements/bug fixes in version 3.9.10

- Enhancements
 - Added support for ESI schema 1.20 [L5]
 - Integrated monitor version V3.2.2.04 [L4]
- Fixes
 - Fixed bug: Export pdlayout was wrong for BITARRAY datatype [L4]
 - Fixed bug: Topology view was sometimes not displaying correctly when a SubDevice has three ports [L4]
 - Fixed bug: General diagnosis view was not refreshed after hardware diagnostics were activated [L2]

3.2 List of enhancements/bug fixes in version 3.9.9

- Enhancements
 - Added support for ESI schema 1.19 [L5]
 - Internal improvements [E1]

- Fixes
 - Fixed bug: Switching between config and diag mode caused memory leak [L4]
 - Fixed bug: Short Info was sometimes not complete resetted [L2]

3.3 List of enhancements/bug fixes in version 3.9.8

- Enhancements
 - Added possibility to disable slaves that can not be seen by EC-Monitor [L4]
 - Integrated monitor version V3.2.2.03 [L4]
 - Internal improvements [E1]

3.4 List of enhancements/bug fixes in version 3.9.7

- Enhancements
 - Internal improvements [E1]

3.5 List of enhancements/bug fixes in version 3.9.6

- Enhancements
 - Integrated monitor version V3.2.2.01 [L4]

3.6 List of enhancements/bug fixes in version 3.9.5

- Enhancements
 - Added support for ESI tag "Device/Info/VendorSpecific" [L5]
- Fixes
 - Fixed bug: Tab control does not trigger lost focus event on changing tab in .NET core [L2]

3.7 List of enhancements/bug fixes in version 3.9.4

- Enhancements
 - Integrated monitor version V3.2.1.05 [L4]

3.8 List of enhancements/bug fixes in version 3.9.3

- Enhancements
 - Internal improvements [E1]

3.9 List of enhancements/bug fixes in version 3.9.2

- Enhancements
 - Upgraded Infragistic controls to v23.2.20232.94 [L2]

3.10 List of enhancements/bug fixes in version 3.9.0

- Enhancements
 - Added support for ESI schema 1.18 [L5]
 - Updated ESI schema to support new attribute "Dc.PdoOversampling" [L5]
 - Added max page width to topology settings [L4]
 - Added CoE Emergency Error trigger [L4]

3.11 List of enhancements/bug fixes in version 3.9.1

- Enhancements
 - Added possibility to create Snapshots on notifications in EC-Inspector [L4]
 - Integrated monitor version V3.2.1.03 [L4]

3.12 List of enhancements/bug fixes in version 3.9.0

- Enhancements
 - Added support for ESI schema 1.18 [L5]

- Updated ESI schema to support new attribute "Dc.PdoOversampling" [L5]
- Added max page width to topology settings [L4]
- Added CoE Emergency Error trigger [L4]

4 Features of EC-Inspector V3.8

4.1 List of enhancements/bug fixes in version 3.8.6

- Enhancements
 - Added support for ESI attribute "SafetyParaMapping/SRA_Parameter" [L5]
 - Improved x-Axis scale on variables chart [L2]
 - Fixed Code Meter 8.0 problem while installing [E1]
- Fixes
 - Fixed bug: Variables export worked only with CSV format [L2]

4.2 List of enhancements/bug fixes in version 3.8.5

- Enhancements
 - Added possibility to export process data image in diag mode to CSV with values [L4]
 - Integrated monitor version V3.2.1.02 [L4]
 - Added FoE to EC-Inspector and improved mailbox logging [L4]
 - Upgraded Infragistic controls to V22.2.20222.97 [L2]
- Fixes
 - Fixed bug: Highlight of the tree node was sometimes lost [L2]

4.3 List of enhancements/bug fixes in version 3.8.4

- Enhancements
 - Added support for optimized link layer "IntelGbe" [L4]

4.4 List of enhancements/bug fixes in version 3.8.3

- Enhancements
 - Removed wrong DC InSync Box from EC-Inspector [L2]
- Fixes
 - Fixed bug: Hardware Diagnostics did not work in EC-Inspector [L4]

4.5 List of enhancements/bug fixes in version 3.8.2

- Enhancements
 - Integrated monitor version V3.2.1.01 [L4]
 - Internal improvements [E1]

4.6 List of enhancements/bug fixes in version 3.8.1

- Enhancements
 - Fixed split reserved bits in pldisplay [L4]
 - Added ESC Register Tab [L2]
 - Renamed PortA..D to Port0..3 [L2]
 - Display unsigned values on variables tab also in hexadecimal [L2]

4.7 List of enhancements/bug fixes in version 3.8.0

- Enhancements
 - Added additional message view for mailbox protocol messages [L4]
 - Added support to export process image
 - Added possibility to export process data image to clipboard [L4]
 - Integrated monitor version V3.2.0.03 [L4]
 - Upgraded Infragistic controls to V22.2.20222.30 [L2]
 - Improved inspection report [L2]
 - Added copy function to variables tab for name [L2]

- Improved performance of rendering topology [L2]
 - Improved scroll position when tab is changed [L2]
- Fixes
 - Fixed bug: Hashtag in install directory caused exception [L5]

5 Features of EC-Inspector V3.7

5.1 List of enhancements/bug fixes in version 3.7.13

- Enhancements
 - Internal Improvements [E1]

5.2 List of enhancements/bug fixes in version 3.7.12

- Enhancements
 - Integrated monitor version V3.1.4.10 [L4]

5.3 List of enhancements/bug fixes in version 3.7.11

- Fixes
 - Added possibility to use Wireshark Mode in EC-Inspector without LinkLayer [L2]
 - Fixed bug: FIPS enabled detection sometimes failed [L5]

5.4 List of enhancements/bug fixes in version 3.7.10

- Enhancements
 - Integrated monitor version 3.1.4.09 [L4]

5.5 List of enhancements/bug fixes in version 3.7.9

- Enhancements
 - Internal Improvements [E1]

5.6 List of enhancements/bug fixes in version 3.7.8

- Enhancements
 - Internal Improvements [E1]

5.7 List of enhancements/bug fixes in version 3.7.7

- Enhancements
 - Added support for ESI schema 1.17 [L5]
 - Report ESI device as duplicate only if they have the same file version [L5]
- Fixes
 - Fixed bug: Product code detection caused invalid format exception for "EL9550-0012" [L5]

5.8 List of enhancements/bug fixes in version 3.7.6

- Enhancements
 - Integrated monitor version V3.1.4.06 [L4]
 - Added possibility to create trigger for notifications in EC-Inspector [L4]
 - Added frame number to EC-Inspector messages in Pcap mode [L4]
 - Added possibility to split pcap / pcapng files while recording in EC-Inspector [L4]
 - Added possibility to open splitted pcap / pcapng files with EC-Inspector [L4]

5.9 List of enhancements/bug fixes in version 3.7.5

- Enhancements
 - Removed Network Mismatch Analyzer message from EC-Inspector [L4]
 - Integrated monitor version V3.1.4.05 [L4]

5.10 List of enhancements/bug fixes in version 3.7.4

- Enhancements
 - Change Speedfactor while running in EC-Inspector [L4]
 - Added binary AND to trigger operators in EC-Inspector [L4]
 - Improved Trigger handling in EC-Inspector [L4]
 - Integrated monitor version V3.1.4.03 [L4]
 - Added support for USB TAP adapter in EC-Inspector [L4]

5.11 List of enhancements/bug fixes in version 3.7.3

- Enhancements
 - Improved CoE OD Tab for EC-Inspector [L4]
 - Added Inspection Report with the possibility to print a PDF [L4]
 - Integrated master version V3.1.4.02 [L4]
- Fixes
 - Fixed bug: String values greater than 128 bytes were not displayed in CoE OD [L4]
 - Fixed bug: Switching into diag mode crashed sometimes if no network adapter was found [L4]
 - Fixed bug: Watchlist chart colors after Infragistics update were wrong [L2]

5.12 List of enhancements/bug fixes in version 3.7.2

- Enhancements
 - Improved break with and without trigger in EC-Inspector [L4]
 - Added more Notifications to Capture File [L4]
 - Added CoE ObjectDictionary Tab to EC-Inspector [L4]
 - Activate and deactivate Trigger in diag mode in EC-Inspector [L4]
 - Added optional ESI support to EC-Inspector [L4]
 - Integrated monitor version V3.1.4.01 [L4]
 - Added TAP adapters to EC-Inspector [L4]
 - Added Restart function for pcap files to EC-Inspector [L2]
 - Upgraded Infragistic controls to V21.2.20212.39 [L2]

5.13 List of enhancements/bug fixes in version 3.7.1

- Enhancements
 - Internal changes

5.14 List of enhancements/bug fixes in version 3.7.0

- Enhancements
 - Improved pcap file handling [L4]
 - Display subindex of CoeOD entry also in hexadecimal [L2]
 - Removed wrong context menu entries [L2]
 - Enhanced plugin interface [L2]
- Fixes
 - Fixed bug: Master log level was not correctly converted [L4]

6 Features of EC-Inspector V3.6

6.1 List of enhancements/bug fixes in version 3.6.14

- Enhancements
 - Internal Improvements [E1]

6.2 List of enhancements/bug fixes in version 3.6.13

- Enhancements
 - Integrated master version V3.1.4.15 [L4]
- Fixes

- Fixed Code Meter 8.0 problem while installing [E1]

6.3 List of enhancements/bug fixes in version 3.6.12

- Enhancements
 - Internal Improvements [E1]

6.4 List of enhancements/bug fixes in version 3.6.11

- Enhancements
 - Integrated master version V3.1.4.10 [L4]
- Fixes
 - Fixed bug: Hashtag in install directory caused exception [L5]
 - Fixed bug: FIPS enabled detection sometimes failed [L5]

6.5 List of enhancements/bug fixes in version 3.6.10

- Enhancements
 - Internal Improvements [E1]

6.6 List of enhancements/bug fixes in version 3.6.9

- Enhancements
 - Internal Improvements [E1]

6.7 List of enhancements/bug fixes in version 3.6.8

- Enhancements
 - Internal Improvements [E1]

6.8 List of enhancements/bug fixes in version 3.6.7

- Enhancements
 - Internal Improvements [E1]

6.1 List of enhancements/bug fixes in version 3.6.6

- Enhancements
 - Integrated master version V3.1.3.02 [L4]
 - Added message box when Master / Monitor evaluation limit reached [L4]
- Fixes
 - Fixed bug: Topology view was not correctly created if slaves were wrapped into next line [L4]

6.2 List of enhancements/bug fixes in version 3.6.5

- Enhancements
 - Improved pcap file handling [L4]
 - Removed wrong context menu entries [L2]
- Fixes

6.3 List of enhancements/bug fixes in version 3.6.4

- Enhancements
 - Integrated monitor version V3.1.3.01 [L4]
- Fixes
 - Fixed bug: Re-selecting empty watch list caused exception [L2]

6.4 List of enhancements/bug fixes in version 3.6.3

- Enhancements
 - Integrated monitor version V3.1.2.11 [L4]

- Fixes
 - Fixed bug: Array data types were not displayed correctly on variables tab [L4]

6.5 List of enhancements/bug fixes in version 3.6.2

- Enhancements
 - Internal improvements [E1]

6.6 List of enhancements/bug fixes in version 3.6.1

- Enhancements
 - Added more TAP Types [L4]
 - Integrated monitor version V3.1.2.09 [L4]
 - Added Physical Address and AutoInc Address to Short Info [L2]
 - Added possibility to show two graphs in variable view at once with different colors [L2]

6.7 List of enhancements/bug fixes in version 3.6.0

- Enhancements
 - Improved topology view in diag mode and mark port A in red, if it is not connected [L4]
 - Optimized readig process data synchronization [L4]
 - Integrated monitor version V3.1.2.06 [L4]
 - Added support to show difference if error counter is zero or unread [L4]
 - Added DAQ diagnosis and config tab to EC-Inspector [L4]
 - Added performance tab to EC-Inspector [L2]
 - Removed cycle time setting from EC-Inspector [L2]
 - Added zoombar to chart [L2]
 - Added support for pcapng files to EC-Inspector [L2]
 - Upgraded Infragistic controls to V20.2.20202.53 [L2]
 - Added online update check [E1]

7 Features of EC-Inspector V3.5

7.1 List of enhancements/bug fixes in version 3.5.3

- Enhancements
 - Added possibility to execute rescue scan through network menu [L4]
 - Integrated master version V3.1.2.04 [L4]

7.2 List of enhancements/bug fixes in version 3.5.2

- Enhancements / Features
 - Internal improvements [E1]
 - Support invisible slaves when importing ENI [L5]
 - Support more ENI files [L5]
 - Added possibility to set triggers and pause in diagnosis mode [L4]
 - Improved updating process data for local EC-Master and EC-Monitor [L4]
 - Integrated Monitor Version 3.1.2.02 [L4]
 - Added possibility to record pcap files with EC-Monitor [L4]
 - Added number of processed cycles to progress bar in Wireshark play mode [L4]
 - Upgraded Infragistic controls to V20.2.20202.38 [L2]
 - Keep selected device on switching modes [L2]
 - Added more values to chart and possibility to resize and zoom and tooltip [L2]
 - Added possibility to change amount of chart entries in User.xml [L2]
- Fixes
 - Fixed bug: Ethernet size of cyclic tasks was not correctly displayed [L5]

7.3 List of enhancements/bug fixes in version 3.5.1

- Enhancements / Features
 - Internal improvements [E1]

7.4 List of features in version 3.5.0

- Enhancements / Features
 - Initial version [E1]
 - Integrated Monitor Version 3.1.1.06 [L4]
- Features of Initial Version
 - Diagnosis of Wireshark files
 - Diagnosis of EtherCAT networks with TAP-Adapter
 - Supports creating and analyzing snapshots
 - Import ENI function
 - Offline and online watchlist
 - Analyzing error counters and process image