

MESSINA Release Notes

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Assystem Germany GmbH.
Erwin-von-Kreibig-Strasse 3
80807 München

mailto: support_MESSINA@assystem.com

Web: www.assystem-germany.com

Phone: (+49)89-608090-333

System Requirements:

CPU multicore (recommended Corei7)
Memory Min. 4 GB, (recommended 8 GB)
Windows 7

Program activation: A valid licence code can be received from MESSINA Support

Installation to a user-writable disk location is recommended

```
*****  
Version:      V 4.3.0  
Date:        13.04.2017  
Revision:    15264  
*****
```

New Features:

- Implemented mapping polynomial calculation for CAN, MATLAB, EtherCAT (Setting over port explorer)
- XCP-measurement over CAN
- Added signal callback function

Enhancements and Changes:

- New sleep methods for VxWorks 6.9 (sleep_ticks and sleep_ns) over JNI
- New real time tick for NEHALEM-target using High Precision Event Timer
- Scheduling time setting via signal during runtime
- Added "Open in Explorer..." and "Import" commands to Project Explorer
- The VxWorks system clock will be set to the actual time and date at the start of a new configuration
- More robust XML-Parser for EtherCAT
- Implemented editing for FMI-Configurations
- CAN FullRx-filter (incoming messages can be filtered by their IDs)
- Refactored CAN Import Wizard (Base extension will be selected per default)
- Added campaign parameters in Report Manager
- Support for HTML links in ASSERT statements

Fixes:

- Improved stability at loading FMI-Models for VxWorks

- Reduced quantity of log entries for FMI
- Fixed test case execution order in case of multiple campaigns with multiple test cases

Known Bugs:

- CAN timestamp signal only of type UInt32 although sent as UInt64
- Compiler problems if the Windriver VxWorks installation path contains spaces

```
*****
Version:      V 4.1.0
Date:        21.12.2015
Revision:    14917
*****
```

New Features:

- Support for FMI on realtime systems (VxWorks)
- Support for multiplexed CAN messages (receiver)
- Support for EtherCAT in VxWorks 6.9
- Transfer of signal mappings between configurations
- Test Reports containing campaign parameters and HTML links
- CSV logger with trigger functions

Enhancements and Changes:

- Support for Matlab 2012a
- New data types for CAN (IEEE Float, IEEE Double)
- ML Adapter stability enhancement
- Improved target stability
- Enabled In-Out-Terminals for EtherCAT
- Improved EtherCAT stability
- Extended data type support for EtherCAT
- Upgraded EtherCAT-Master-Stack to 2.7.3 for VxWorks 6.9

Fixes:

- Fixed double entries for Test Campaigns in properties view
- Fixed double receiving of float values in CAN
- Fixed incorrect closing of socket connection
- Fixed setting of default values in EtherCAT
- Fixed EtherCAT logging
- Fixed crash on terminating Windows target

Known Bugs:

- * Scheduler configuration with multiple subframes is not supported
- * CAN timestamp signal only of type UInt32 although sent as UInt64
- * Compiler problems if the Windriver VxWorks installation path contains spaces

```
*****
Version:      V 3.9.0
Date:        24.02.2014
Revision:    14479
*****
```

New Features:

- Support for EtherCAT
- Support for FMI (Windows Target)

Enhancements and Changes:

- New Installer (Innosetup)
- Licence

Fixes:

- Fixed Campaign display error

Known Bugs:

- * AUTOSAR Import might fail if a UNC path is used
- * CAN import does not support data type UInt64
- * Scheduler configuration with multiple subframes is not supported
- * CAN timestamp signal only of type UInt32 although sent as UInt64
- * Compiler problems if the Windriver VxWorks installation path contains spaces

Version: V 3.7.0
Date: 25.03.2013
Revision: 13801

- New Features:
- Support for Matlab/Simulink 2011a and higher (2007b is not supported any longer)
 - Support for AUTOSAR 3.2
 - Support for Intel i7 CPU
 - Support for VxWorks 6.9

- Enhancements and Changes:
- Model path is shown in properties view for Matlab model ports
 - AUTOSAR: Support for per instance memory (Rte_Pim)
 - AUTOSAR: Support for Rte_CData
 - AUTOSAR: Support for Rte_IWriteRef

- Fixes:
- Matlab/Simulink code generation supports the usage of ExportedGlobal signals
 - Matlab/Simulink code generation supports reusable subsystems
 - AUTOSAR: Data received runnables are executed correctly
 - ML Import edit/merge works correctly
 - Handling of testcases in nested campaigns corrected

- Known Bugs:
- * AUTOSAR Import might fail if a UNC path is used
 - * CAN import does not support data type UInt64
 - * Scheduler configuration with multiple subframes is not supported
 - * CAN timestamp signal only of type UInt32 although sent as UInt64
 - * Compiler problems if the Windriver VxWorks installation path contains spaces

Version: V 3.5.0
Date: 07.05.2012
Revision: 12618

- New Features:
- Support for LIN
 - Capture can be controlled from the JAVA test case

- Enhancements and Changes:
- Project structure reworked (better overview if different test notations are used)
 - Cyclic CAN messages are spread over the timeframe to prevent jitter
 - CAN timestamp is available for each received message

- Fixes:
- AUTOSAR Import Wizard (several bug fixes)
 - Fixed inconsistent sorting of columns
 - Corrected handling of default values of CAN signals
 - Fixed handling of default sample timer if the target OS type was switched
 - Corrected the rename project functionality

- Known Bugs:
- * AUTOSAR Import might fail if a UNC path is used
 - * AUTOSAR: Data received runnables are only executed if the value has changed
 - * Matlab/Simulink code generation might fail if reusable subsystems are used
Workaround: Select inline code generation in the block properties
 - * Matlab/Simulink code generation does not support the usage of ExportedGlobal signals

Version: V 3.3.0

Date: 06.07.2011
Revision: 11057

New Features:

- Scheduling Configuration
- Combined Configuration and Port Manager

Enhancements and Changes:

- New test case template (pre and post condition)
- Support for "rtinf" in Matlab Import
- Handling of multiple instances of local windows targets

Fixes:

- AUTOSAR Import Wizard (several bug fixes)
- Fixed sporadic error on windows target disconnect
- Corrected time scale in y(t) plot on windows targets
- Fixed duplicated signal ids within signal groups

Known Bugs:

- * AUTOSAR Import might fail if a UNC path is used
- * Matlab/Simulink code generation might fail if reusable subsystems are used
Workaround: Select inline code generation in the block properties

Version: V 3.1.0
Date: 18.03.2011
Revision: 10468

New Features:

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Enhancements and Changes

-

Fixes:

- * GUI: Signals within a signal are generated with the same id - fixed
- * MCLI: MCLI was sometimes not able to connect a target after a huge file system operation (e.g. xcopy) - fixed

Known Bugs:

- * AUTOSAR Import might fail if a UNC path is used
- * Matlab/Simulink code generation might fail if reusable subsystems are used
Workaround: Select inline code generation in the block properties

Version: V 3.1.0
Date: 07.03.2011
Revision: 10417

New Features:

- * Windows Target
Support for AUTOSAR and Matlab/Simulink Models (default 10ms cycle time)
- * Windows 7 Support
32 bit version supported
64 bit version experimental

Enhancements and Changes

- * GUI: MESSINA GUI is now based on Eclipse Helios (3.6)
- * AUTOSAR: Code Generation uses the Artop framework
- * Result-View: Number of not executed test cases is shown in report if the test run was cancelled

Fixes:

- * AUTOSAR: Import was cancelled if the path to the workspace or the compile directory contained blanks - fixed
- * MCLI: Connection to target could not be established or was cancelled sporadically - fixed
- * MCLI: Java test case execution worked only for default package - fixed
- * GUI: The workspace could not be switched if MESSINA was started with the -data <Workspace> option
- * Test Report: The report showed the wrong number of test cases if the test run was cancelled - fixed

Known Bugs:

- * AUTOSAR Import might fail if a UNC path is used
- * Matlab/Simulink code generation might fail if reusable subsystems are used
Workaround: Select inline code generation in the block properties

Version: V 2.9.0
Date: 17.09.2010
Revision: 9046

New Features:

- * AUTOSAR Support for
 - Complex Data Types
 - InterrunableVariables
 - Data-Receive-Events
 - User-defined Mode-Declaration-Groups
 - User-defined Return-Status for Client/server operations
 - Compu-Scales (enum literals)
- * CAN-Adapter
 - Support for CAN raw messages reception
- * Support for Relay Card (experimental)

Enhancements and Changes

- * AUTOSAR: Counter to check the number of Client/Server calls instead of a just a boolean flag
- * CAN: CAN manipulation comands are queued
- * Result-View: Overview of current test result during the execution of tests
(number of PASSED, FAILED and ERROR TCs)

Fixes:

- * AUTOSAR: INOUT parameter handling fixed for Client/Server operations
- * JAVA: ASSERT trace showed the wrong line number - fixed
- * Installation: problems could occure if the installation path contained blanks - fixed

Known Bugs:

- * Import might fail if a UNC path is used
- * AUTOSAR Import is cancelled if the path to the workspace contains blanks
- * AUTOSAR Import shows the runnable name even if a symbolic name is used

Version: V 2.7
Date: 29.01.2010

New Features:

- * MESSINA Command Line Client MCLI
- * AUTOSAR Composition Wizard (experimental)

Enhancements and Changes

- * Delete option to remove project from workspace only not from filesystem

Fixes:

- * It could be necessary to restart MESSINA after a project import - fixed
- * Sorting in Configuration Manager was not possible - fixed
- * Color of the scale was not changed when the line color was changed - fixed

Known Bugs:

- * MESSINA might hang if a project import is done on the project folder instead on the workspace folder

Version: V 2.5
Date: 29.10.2009

New Features:

- * New Property View
- * AUTOSAR: Support of implicit communication
- * FlexRay: Support for EB 5100 version 2009a
- * Visualization: Improved settings for graphical controls and y(t) plot
- * Synchronized MESSINA views

Enhancements and Changes

- * AUTOSAR import supports SW component description split into multiple ARXML files
- * RTE-Generator generates C files instead of C++
- * Automatic generation and connection of signals for AUTOSAR-Models
- * New help topics for AUTOSAR import, FSB functionality and import of projects and models
- * ML_Adapter can be updated independently of the used ML/SL model
- * GUI usability improved (drag 'n drop, copy, rename...)
- * Target can be restarted before each test case execution
- * Robustness of TPT integration improved
- * Disabling of components in a configuration is now persistent

Fixes:

- * Shown visualization no longer blocks deletion of project
- * Errors importing ML/SL-Models without parameters fixed
- * Testresults were saved in a wrong location - fixed
- * Values in edit fields were not checked - fixed
- * Problems with TPT connection fixed

Known Bugs:

- * It might be necessary to restart MESSINA after a project import

Version: V 2.3
Date: 02.06.2009

New Features:

- * FSB Support
- * Target Error Handling

Enhancements and Changes

- * Logging of ASSERT Statements
- * Support for FSB configurations (including Java code libraries)
- * Errors on the target system (HiL) are logged in Messina log file on the host computer
- * Error signal for real time violation detection
- * Performance counters (currently for internal use only)
- * AUTOSAR: CalPrm support
- * Sandbox (keeping intermediate files e.g. when importing ...)

Fixes:

- * Wait failed logging error fixed
- * Deletion of Campaign bug fixed
- * Multiple test case execution bug fixed
- * Corrected behavior of new wizards (signals, test cases, ...) when no project is available
- * Cancel of saving error report bug fixed
- * AUTOSAR: client/server communication (check invoked) bug fixed

Known Bugs:

- * New Campaign wizard: campaigns are shown twice in browse campaign dialog

Version: V 2.01
Date: 31.03.2009

New Features:

- * Trace funktionality for JAVA test cases

Enhancements and Changes

- * Enhanced Result View functionality
- * Rerun for Testcases and Campaigns
- * Testreport contains information about used configuration and components

Fixes:

- * Deleting SiL target bug fixed
- * Fixed problem when copying signal, signal ID is also copied
- * Fixed problem with CAN import datatypes

Known Bugs:

-

```
*****  
Version:      V1.2.13  
Date:        09.03.2009  
*****
```

New Features:

- * MESSINA-SiL Target (Realtime model execution on a PC/Laptop)
- * AUTOSAR-Software Components Import Wizard and simulation of AUTOSAR-SWC (experimental)
- * Time Partition Testing (TPT) interface for using TPT-Tests cases and Assessments (experimental)
- * Licence for dongle, node lock and floating
- * Advice Manager to solve incorrect mapping configurations

Enhancements and Changes:

- * Matlab/Simulink: Support of Signals, Model Version
- * Matlab/Simulink: Version information and signal support added to TLC-File
- * Error message if test execution selection contains no tests
- * Warning dialog if visualisation view is opened by "Show View"-Menu
- * Target Manager: Additional Checks and context menu enhancements
- * Target Manager: Context Menu entry "Stop Module" removed
- * Visualizations: Checking Signals
- * Visualizations: Increase performance while open
- * Performance Indicators
- * Loading Libraries before adapters (<libraries>-Tag)
- * Removed timer and start signal
- * Reduced TCP/IP package chunk size to 2048, increased vxWorks net Buffer sizes
- * Priority classes for target components
- * Campaign handling in own plugin
- * Upload target components without JavaVm
- * New Visualization Wizard Enhancements

Fixes:

- * Setting the Default target
- * Warning/Error -OverlayIcon bug fixed
- * Handling evo values if not set
- * FlexRay Adapter corrected use of uninitialized local variable
- * Fixed invalid thread access in Signallogger
- * Fixed problems with CAN_Adapter exit and unconnected ports
- * ASSERTION Failure on setValue fixed
- * check for "assert", "enum" keyword in params, ...
- * Fixed ignored parameters in campaigns
- * Contextmenu delete removed from "Campaign Parameters" and "Visualisations"
- * strict name checking for Parameters, Signals, Signalgroups, Parametergroups, Campaigns, Projects, Configurations and Visualisations
- * startBehavior Bug in ML Adapter (Error while unloading Modules, that are not initialized)
- * Int64 & UInt64 in NIControls
- * fix name for disconnect button (for test execution)
- * ML_Adapter: setting initial values only if port is not Output
- * Type Conversion if signal type has not the same type. Fixed data array size problem
- * Console outputs for TCP/IP connection problem

Known Bugs:

- * Using not numproc = 1 on dual core systems could crash the system