MESSINA Release Notes

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System Requirements:

CPU multicore (recommended Corei7)
Memory Min. 4 GB, (recommended 8 GB)
Windows 7 , Windows 10

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

Installation to a user-writable disk location is recommended

****
Version: V5.0.0
Date: 30.04.2020
Revision: 20741
****

New Features:

- Support for Linux as MESSINA runtime system (MES-87)
- CAN FD Support (MES-119)
- Option to enable automatic saving of test results (MES-402)
- Added MESSINA target components warning (MES-422)
- Reading baudrate from CAN configuration file (MES-392)
- Added option for Rebuild Project (MES-418)
- Support for Test Case Templates (MES-409)

Enhancements and Changes:

- Support for larger Signalpools (MES-373)
- Improved ID assignment (MES-393)
- Loading inner classes of UserLib classes (MES-405)

Fixes:

- Scheduling Problem on Windows in AFAP mode (MES-202)
- Rounding Error on 64-Bit Values in CAN Messages (MES-370)
- Logger cannot be started if the target is to busy (MES-385)
- Import Wizards do not check for correct Configuration names (MES-394)

Known Issues:

- CAN timestamp signal only of type UInt32 although sent as UInt64
- FMI 2.0 Parameters are not imported correctly (MES-225)
- Selecting "Restart Target" and "Restart Configuration" before test case execution can lead to error (MES-383)
- Some CAN Message Manipulation commands do not work for CAN FD (MES-387)
- Infinite test case loop possible (in rare cases) (MES-334)
- Editing Target IPs in Target Manager not working properly (MES-365)

****
Version: V4.5.0
Date: 18.12.2018
Revision: 18443
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New Features:

- Test cases can restrict their test execution environments (MES-60)
- Allow the user to stop pending Windows target processes from MESSINA (MES-94)
- FMI 2.0 Support for CoSimulation (MES-98)
- ESI File Import (MES-101)
- Improve Mapping of Multiple Ports (MES-111)
- Export and Import of MESSINA Projects including its referenced Library content (MES-112)
- Show internal Signals in Signalpool Manager (MES-160)
- Support refactoring of signals (MES-177)
- Support refactoring of parameters (MES-178)
- Rename Visualizations (MES-199)
- Trigger for SignalLogger (MES-211)
- Quick search for Tree Elements in Views (MES-221)
- Allow multi selection in Result Manager (MES-239)
- Support for XCP Version 1.3 (MES-242)
- Show Signal Usage Dialog (MES-264)
- Allow mulitple instantiation of models (MES-292)

Enhancements and Changes:

- A warning is shown if a CAN port is used more than once per System Configuration (MES-86)
- Show Timestamp for Root-Element in Result Manager (MES-95)
- Improve Test Case Naming in Campaigns (MES-107)
- Auto save option for test reports (MES-108)
- Auto save option for visualizations (MES-125)
- Check for missing Library contents (MES-126)
- Show warning in case of unused signals (MES-128)
- CSV Logger: Add time options and possible autostart logging (MES-159)
- Allow the creation of a CAN configuration without CAN DB input file (MES-198)
- Improved pre-selected model binary in model import wizard (MES-174)
- Avoid unfolding campaigns when parameter changes (MES-201)
- Cmd / FullRx Signal Selection (MES-215)
- Improve checks for signal names (MES-250)

Fixes:

- FMI Import: Edit default values doesn't work (MES-50)
- Duplicate name of signals (MES-208)
- Wrong System Configuration in Report Manager (MES-209)
- Lost Campaigns when changed from nested to not-nested state (MES-218)
- Edit EtherCAT Configuration ignores the steptime (MES-263)
- Case sensitivity in System Configurations (MES-254)
- Error message if a signal is mapped to multiple ports (MES-249)
- Wrong Ports types can be drag'n'dropped into Signalpool (MES-324)

Known Issues:

- CAN timestamp signal only of type UInt32 although sent as UInt64
- Errors in the EtherCAT Configuration produces log files with not limited size on the vxWorks runtime system and fill can the disk space (MES-179)
- FMI 2.0 Parameters are not imported correctly (MES-225)

****
Version: V 4.3.0
Date: 13.04.2017
Revision: 15264
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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 timstamp 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
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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 bolean 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 generats 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 loging 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:
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****
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 Outport
* 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