



Release Information

CODESYS Safety SIL2

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1 General

This document contains information on a product version which was released in compliance with our quality guidelines.

1.1 Certificate

Component	URL	License Holder
Z10 082247 0005 Rev. 00	https://www.tuvsud.com/ps-zert?q=CODESYS	CODESYS GmbH

1.2 Safety Norms

Norm	Name
IEC 61508-1:2010 (SIL 2)	Functional safety of electrical/electronic/programmable electronic safety-related systems Part 1: General requirements
IEC 61508-3:2010 (SIL 2)	Functional safety of electrical/electronic/programmable electronic safety-related systems Part 3: Software requirements
IEC 61508-4:2010 (SIL 2)	Functional safety of electrical/electronic/programmable electronic safety-related systems Part 4: Definitions and abbreviations
IEC 62061:2005 + A1:2012 + A2:2015 (SIL CL 2)	Safety of machinery – Functional Safety of safety-related control systems
EN 50128:2011 (SIL 2)	Railway applications -- Communication, signalling and processing systems -- Software for railway control and protection systems

1.3 Licence holder

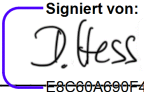
The license holder confirms with his signature, that the product was changed according to his desire.

1.4 Classification

The CODESYS Development System is suitable to be used for developing safety-related applications for safety PLCs, according to IEC 61508, up to SIL 2. The software is classified as TI-3.

The CODESYS Runtime is suitable to run safety applications, which are executing a safety function, according to IEC 61508 up to SIL 2.

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31. Juli 2025  (Signature: License Holder)
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2 Components and Versions

This is a list of all main components that were qualified or certified within this release. Note, that all the components were just assessed in this combination. Every deviation from this set of versions needs to be assessed by the OEM or End User.

2.1 CODESYS Safety SIL2

Component	Version	Identification
CODESYS Safety SIL2	3.5.21.0	SHA1: C4638E80EFF79811A9E5ADCB6BF06E3AFB8E3D3E
CODESYS Safety SIL2 FSoE	3.5.21.0	SHA1: B4867957846BAEC3CBA02D72B9FA5072789617F2
CODESYS Safety SIL2 PLCopenSafety	3.5.21.0	SHA1: 57CB50999CCB10F0973D86FC98519C2EA4C26025
SIL2PSP_RM4x	3.5.21.0	md5: fdfcf409a024b0dec8feb8b254698b2e CODESYS Control Safety SIL2 RM48L952.devdesc.xml md5: 0f284807df62c069e8f36c23cb4757b5 RTSSIL2PSP_RM4x.aux md5: 05a51f9a69d328407d9d394e1d7dcd87 SIL2PSP_RM4x.obj md5: f2c270932f19b7ebba487e069f3b9254 SIL2PSP_RM4x.release.sym md5: 019d3eef4dfa00c1ae61d3d95087062f SIL2PSP_RM4x_ModuleTest.obj md5: b2a3acc69ced853f1779508c00026ffa SIL2_MCUST_RM48L952.lib
SIL2PSP_TMS570LS31x	3.5.21.0	md5: fbf2cb4860dcf2f12cf6206464c08dbe CODESYS Control Safety SIL2 TMS570LS3.devdesc.xml md5: b635bfea4b1bbcc900f8af15808fb37f RTSSIL2PSP_TMS570LS31x.aux md5: a3edde4c53b4bfaa3e4cd061f83b37bd SIL2PSP_TMS570LS31x.obj md5: 24bf3b6719a47880c373ebedecd65d51 SIL2PSP_TMS570LS31x.release.sym md5: a22f4fd9ae3e2d80d4bb17442241ab33 SIL2PSP_TMS570LS31x_ModuleTest.obj md5: 40daecd3f27b54c234841ade03113755 SIL2_MCUST_TMS570LS3137.lib
SIL2PSP_TC29x	3.5.21.0	md5: 08b8ecff44b070137374f1f0b77805b7 CODESYS Control Safety SIL2 TriCore AURIX.devdesc.xml md5: a5e18ffc1e6a6fff36291ade3d06930 SIL2PSP_TC29x.obj md5: a2fb5dde660bf25ae6797cc1ed549f5a SIL2PSP_TC29x_moduleTest.obj md5: 8c50e8efc9e134d29efb3c20cd82ae60 SIL2_MCUST_AURIX_Lib.a md5: c1f22934c37848279333b0533960590f libSIL2PSP_ModuleTests_Lib_TC299.a

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SIL2PSP_TC39x	3.5.21.0	md5: f31ae0f6103051a1223dc55c452d160e CODESYS Control Safety SIL2 TriCore AURIX TC39x.devdesc.xml md5: 4b20c03191d5132f8c40780ee0d49731 SIL2PSP_TC39x.obj md5: 0d215d38e5aa798b374ab244bb02ec42 SIL2PSP_TC39x_moduletest.obj md5: d8a4cde5283a832d4c85d20163959e4f libSIL2PSP_Moduletests_Lib_TC39x.a
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2.2 Configuration

There is a full list of all components in the following module export file from CODESYS with all modules and their versions which were included in the release: "[VersionInfo.txt](#)".

Component	Version
CODESYS Runtime	3.5.21.0
CODESYS 64bit	3.5.21.0
LMM	3.5.21.0
Device Object	3.5.21.0
CODESYS Code Generator ARM	4.0.3.0
CODESYS Code Generator Cortex M3	4.0.1.0
CODESYS Code Generator TriCore	4.0.1.0
CODESYS Code Generator x86	3.5.21.0
CODESYS Embedded Runtime Extension	4.1.0.0
CODESYS SAE J1939	4.2.0.0
CODESYS CANopen	4.3.0.0
CODESYS Test Manager	5.1.0.0
Network List Editor	4.6.0.0
Network List Object	4.6.0.0
TI CodeComposer CGT	V5.1.5
TASKING VX-toolset for TriCore	V6.3 r1 p3

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3 Documentation and usage context

3.1 Documentation

At the time of release there are the manuals listed below, which cover the safety and the usage aspect and are part of the CODESYS Safety SIL2 delivery.

Manual	Version
H1 - CODESYS Safety SIL2 - OEM Integration Manual.pdf	V18.0
H2 - CODESYS Safety SIL2 - IEC Programming Guidelines.pdf	V14.0
H4 - CODESYS Safety SIL2 PSP - OEM Integration Manual.pdf	V15.0

3.2 Integrity

To check the integrity of the software, the documentation in the “safety manual”, referenced above needs to be followed.

3.3 Handling of errors

Errors can be reported through one of the [CODESYS support channels](#).

In case of an error during any phase of the product life-cycle, the error has to be reported to CODESYS. Safety related errors are reported to all customers who ordered the product.

4 Known Restrictions

The following restrictions apply to the use of the current version, and need special attention. Note, that there might be other restrictions or bugs, which are in the product, but which were assessed, being not critical to the safety function of the product. It is the responsibility of the user of the product to check, that the following open issues will have no direct influence on their intended safety functionality.

Component	Description	JIRA ID
PSP AURIX MCUST	The MCUST for CODESYS SafetySIL2 PSP AURIX is not part of this release.	SIL2-1148

Change History

Description	Author	Date
Created	MH	29.07.2025
Reviewed	HR	29.07.2025
Released	HR	29.07.2025