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2016-11-30	4.3.0	AUTOSAR Release Management	Initial release



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1 Introduction

1.1 Scope of this document

This document provides an overview of the complement of AUTOSAR specifications of the AUTOSAR standard "Classic Platform" comprising the initial Release 4.3.1 and its latest Revision .

1.2 Dependencies to other standards

This release of the Classic Platform depends on the standard "Foundation" in Release 1.3.0, which

- defines protocols implemented by Classic Platform and
- contains main requirements to complete the trace hierarchy.

These dependencies are refined in the trace information of the requirements in the respective specifications, i.e. requirement in SWS DLT refers to the protocol specification in the Foundation standard.

1.3 Content of chapters

This document is structured as follows:

- Chapter 2 provides a list of documentation references.
- Chapter 3 provides a summary of changes that were implemented since the preceding Release 4.2
- Chapter 4 contains the overview of specifications comprising the Release 4.3.1 in its latest Revision . This chapter is structured according to the clusters being in use in AUTOSAR Release 4.3.1.
- Chapter 5 contains remarks about known technical deficiencies.
- Chapter 6 contains the detailed revision history of all released specifications.
- Chapter 7.1 provides a set of definitions aimed to increase the understanding of the content of this document and the Release 4.3.1.



2 Related documentation

- 1) Release Overview and Revision History
- 2) AUTOSAR specifications in general
- 3) Change Documentation
- 4) Glossary



3 Summary of changes

This chapter contains a summary of changes which were implemented since the previous Release 4.2.

3.1 Release 4.3.0

In AUTOSAR R4.3.0, the concept work focused on improving the sustainability of the AUTOSAR standard by introducing the first-time support of Vehicle2X communication and by extending the cryptographic faculties of AUTOSAR towards a complete cryptographic protection stack. The SOME/IP data handling has been extended to newly support large messages.

Additionally, further improvements have been applied to the Diagnostic information handling and Rapid Prototyping.

3.1.1 Concepts

3.1.1.1 Introduced Concepts

The following concepts in 3.1.1.1 - 3.1.1.7 have been introduced.

3.1.1.1.1 Hardware Test Management on Startup and Shutdown

The concept introduces interfaces that allow the monitoring of the startup and shutdown hardware tests on a running AUTOSAR system.

3.1.1.1.2 Crypto Interface

The concept completes the AUTOSAR crypto stack by adding Crypto Interface and Crypto Driver. These new modules allow the integration of heterogeneous hardware and software solutions.

Together with the concept, the Crypto Service Manager has been reworked to provide a unique interface, meeting all requirements of today's automotive security.

3.1.1.1.3 V2X Support

The concept V2X Support adds support of Vehicle2X communication mechanisms to the AUTOSAR standard, especially the support of wireless ITS-G5 message handling and support of V2X applications distributed over multiple ECUs in a vehicle network.

3.1.1.1.4 Decentralized Configuration Extension 01

Based on the already implemented concept "Decentralized Configuration", the concept Extension 01 extends the functional capabilities of the Diagnostic Extract (OBD / WWH-OBD, FIM, J1939) and adds capabilities for creation and maintenance of the DEXT e.g. "Roles&Rights Management".



3.1.1.1.5 Profile for Data Exchange Points

The concept "Profile for Data Exchange Points" aims for improving the interoperability between AUTOSAR tools by providing means for describing which data is expected for a given data exchange point.

3.1.1.1.6 Extended Buffer Access for Rapid Prototyping

The "Extended Buffer Access Method for Rapid Prototyping" concept enhances the existing AUTOSAR rapid prototyping (RP) methods by adding support for the use case of a quick validation of a software algorithm in the context of an ECU environment before final integration into a production ECU build. This is achieved by providing a well-defined memory interface that ensures that all communicated AUTOSAR signals are accessible by rapid prototyping tools (RPT) and to support the modification of existing ECU images to insert such memory interfaces.

3.1.1.1.7 SOME/IP Transport Protocol (Segmenter)

The concept introduces a SOME/IP segmenter module to enable handling of SOME/IP messages bigger than 127kByte.

3.1.1.2 Impacts of Concepts

The introduced concepts had impact on several specifications. The following table provides a detailed overview.

Please note that some of the specifications are marked by special text formatting:

- Specifications in **bold** font are completely new specifications originating from the particular concept.
- Specifications in *italic* font are affected indirectly as they provide artefacts for the actually impacted specifications.



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	Affected specifications		
Concept Name	Specification Long Name	Class.	Standard
	Meta Model-generated XML Schema		
	Standardization Template	std	
	Generic Structure Template		
	Meta Model		
	Interoperability Of Autosar Tools Supplement	_	
Destite for Data	Requirements on Interoperability of AUTOSAR Tools Interoperability of AUTOSAR Tools	_	
Profile for Data	Requirements on Methodology		CP
Exchange Points	Methodology	aux	
	Requirements on Standardization Template	-	
	Predefined Names in AUTOSAR	-	
	Supplementary material of the AUTOSAR XML		
	Schema		
	Main Requirements]	FO
Decentralized	Diagnostic Extract Template	std	
Configuration	System Template	310	CP
Extension 01	Requirements on Diagnostic Extract Template	aux	
	Specification of RTE Software		
	Basic Software Module Description Template	std	
	Software Component Template	Siu	
	Specification of ECU Configuration Parameters (XML)		
Extended Buffer	Basic Software UML Model		
Access	Requirements on Runtime Environment		CP
	Requirements on Basic Software Module Description Template	aux	
	Requirements on Software Component Template		
	Methodology		
	Requirements on AUTOSAR Features		
	Diagnostic, Log and Trace Protocol Specification		FO
	Specification of PDU Router		СР
	Specification of Diagnostic Communication Manager		
Rework of DLT for Classic- and Adaptive Platform	Specification of Diagnostic Log and Trace	std	
	Specification of ECU Configuration Parameters (XML)		
	System Template		
	Software Component Template		
	Basic Software UML Model		
	Requirements on Diagnostic Log and Trace		
	Layered Software Architecture	aux	
	List of Basic Software Modules	1	



	Affected specifications		
Concept Name	Specification Long Name	Class.	Standard
	Specification on SOME/IP Transport Protocol		
	General Specification on Transformers		
	Specification of COM Based Transformer		
	Specification of E2E Transformer	std	CP
	Specification of SOME/IP Transformer	Siu	
SOME/IP Transport	Specification of Socket Adaptor		
Protocol	System Template		
	SOME/IP Protocol Specification		FO
	Basic Software UML Model		
	Specification of ECU Configuration Parameters (XML)	aux	СР
	Layered Software Architecture	aux	01
	List of Basic Software Modules		

3.1.2 Specifications

3.1.2.1 New Specifications

In addition to the above listed new specifications which were introduced via Concepts, the following documents and templates were added with R4.3.0:

- ARXML Serialization Rules (UID 779, TPS, std)
- Modeling Show Cases Report (UID 789, TR, aux)
- Modeling Show Cases Examples (UID 790, EXP, aux)
- Macro Encapsulation of Library Calls (UID 808, EXP, aux)
- NV Data Handling Guideline (UID 810, EXP, aux)

3.1.2.2 Migrated Specifications

With this release, the following specifications were moved from AUTOSAR Classic Platform to the AUTOSAR Foundation standard:

- Requirements on Diagnostic (UID 004, SRS, aux)
- Main Requirements (UID 054, RS, aux)
- Glossary (UID 055, TR, aux)
- Project Objectives (UID 599, RS, aux)

3.1.2.3 Obsolete Specifications

The following specification is set to status "obsolete" in this release:

• Specification of Crypto Abstraction Library (UID 438, SWS, std)

3.1.2.4 Reworked specifications

The following documents have been changed fundamentally in R4.3.0:



- Requirements on Synchronized Time-Base Manager (UID 420, SRS, aux)
- Specification of Synchronized Time-Base Manager (UID 421, SWS, std)
- Specification of Time Synchronization over CAN (UID 674, SWS, std)
- Specification of Time Synchronization over FlexRay (UID 675, SWS, std)
- Specification of Time Synchronization over Ethernet (UID 676, SWS, std)

The following main aspects have been addressed to fulfill user needs for improved precision of Global Time Synchronization and better support of automotive use cases:

- Rate Correction added
- Time precision measurement support added
- Time/status notification mechanism added
- Resident time compensation for Ethernet switches added
- AUTOSAR specific TLV for Ethernet added
- Harmonization of <Bus>TSyn interface to StbM
- Offset message formats changed (for CAN / FlexRay)
- Support for immediate Time Synchronization added

Additionally, the Diagnostic Log and Trace has been reworked in the course of the "Rework of DLT for Classic- and Adaptive Platform" concept:

• Specification of Diagnostic Log and Trace (UID 351, SWS, std)

3.1.3 Release Documentation

There were no major changes regarding the Release Documentation.

3.2 Release 4.3.1

The AUTOSAR Release 4.3.1 focuses on bug fixing according to the objective of revisions in the AUTOSAR release strategy.

3.2.1 Concepts

No concepts have been incorporated in this revision.

3.2.2 Specifications

3.2.2.1 New Specifications

No new specifications have been added with R4.3.1.



3.2.2.2 Migrated Specifications

With this release, the following specifications were moved from AUTOSAR Classic Platform to the AUTOSAR Foundation standard:

- Requirements on Diagnostic Log and Trace (UID 350, SRS)
- Requirements on Methodology (UID 362, RS)

3.2.2.3 Obsolete Specifications

The following specification is set to status "obsolete" in this release:

- Specification of ECU State Manager with fixed state machine (UID 444, SWS)
- Technical Safety Concept Status Report (UID 233, TR)
- Requirements on AUTOSAR Features (UID 294, RS)

3.2.2.4 Reworked specifications

No specifications have been reworked fundamentally.

3.2.3 Release Documentation

There were no major changes regarding the Release Documentation.



4 Specification overview

The published specifications are divided up into the clusters

- Body and Comfort
- BSW General
- Chassis
- Communication
- Communication
- Crypto
- Diagnostics
- General
- Global Time
- HMI
- IO
- Libraries
- MCAL
- Memory
- Methodology and Manifests
- Methodology and Templates
- Mode Management
- Powertrain
- Release Documentation
- RTE
- Safety
- System Services
- Tools

These clusters are then further structured by subcategories to provide a better orientation to the specification users. The assignment of the specifications to those clusters is shown below.

Long Name	File Name	Life cycle changes		
Cluster: Release Documentation	1			
Change Documentation	AUTOSAR_TR_ChangeDocumentation			
Release Overview and Revision History	AUTOSAR_TR_ReleaseOverviewAndRevHistory			
AUTOSAR Specification Hashes	AUTOSAR_TR_SpecificationHashes			
Cluster: Body and Comfort				
Explanation of Application Interfaces of the Body and Comfort Domain	AUTOSAR_EXP_AIBodyAndComfort			
Cluster: BSW General				
Basic Software UML Model	AUTOSAR_MOD_BSWUMLModel			
Complex Driver design and integration guideline	AUTOSAR_EXP_CDDDesignAndIntegrationGuideli ne			



Long Name	File Name	Life
		cycle
		changes
Description of the AUTOSAR standard errors	AUTOSAR_EXP_ErrorDescription	
Explanation of Error Handling on	AUTOSAR_EXP_ApplicationLevelErrorHandling	
Application Level		
Explanation of Interrupt Handling	AUTOSAR_EXP_InterruptHandlingExplanation	
within AUTOSAR		
General Requirements on Basic Software Modules	AUTOSAR_SRS_BSWGeneral	
General Specification of Basic Software Modules	AUTOSAR_SWS_BSWGeneral	
Guide to BSW Distribution	AUTOSAR_EXP_BSWDistributionGuide	
List of Basic Software Modules	AUTOSAR_TR_BSWModuleList	
Modeling Guidelines of Basic Software EA UML Model	AUTOSAR_TR_BSWUMLModelModelingGuide	
Specification of Communication Stack Types	AUTOSAR_SWS_CommunicationStackTypes	
Specification of Compiler Abstraction	AUTOSAR_SWS_CompilerAbstraction	
Specification of Platform Types	AUTOSAR_SWS_PlatformTypes	
Specification of Standard Types	AUTOSAR_SWS_StandardTypes	1
Cluster: Chassis		
Explanation of Application	AUTOSAR_EXP_AIChassis	
Interfaces of the Chassis Domain		
Cluster: Communication		•
General Specification on	AUTOSAR_ASWS_TransformerGeneral	
Transformers		
Requirements on BSW Modules	AUTOSAR_SRS_SAEJ1939	
for SAE J1939		-
Requirements on CAN	AUTOSAR_SRS_CAN	
Requirements on Communication		
Requirements on E2E	AUTOSAR_SRS_E2E	
Communication Protection Requirements on Ethernet	AUTOSAR_SRS_Ethernet	
Support in AUTOSAR		
Requirements on FlexRay	AUTOSAR_SRS_FlexRay	
Requirements on Gateway	AUTOSAR_SRS_Gateway	
Requirements on I-PDU	AUTOSAR_SRS_IPDUMultiplexer	
Multiplexer		
Requirements on LIN	AUTOSAR_SRS_LIN	
Requirements on Module XCP	AUTOSAR_SRS_XCP	
Requirements on Network	AUTOSAR_SRS_NetworkManagement	
Management	_	
Requirements on Secure	AUTOSAR_SRS_SecureOnboardCommunication	
Onboard Communication		
Requirements on SPI Handler/Driver	AUTOSAR_SRS_SPIHandlerDriver	
Requirements on Transformer	AUTOSAR_SRS_Transformer	
Requirements on TTCAN	AUTOSAR_SRS_TTCAN	1
Requirements on Vehicle-2-X Communication	AUTOSAR_SRS_V2XCommunication	New in R4.3.0
Specification of Large Data COM	AUTOSAR_SWS_LargeDataCOM	



Long Name	File Name	Life
3		cycle
		changes
Specification of a Request	AUTOSAR_SWS_SAEJ1939RequestManager	3
Manager for SAE J1939		
Specification of a Transport	AUTOSAR_SWS_SAEJ1939TransportLayer	
Layer for SAE J1939		
Specification of CAN Driver	AUTOSAR_SWS_CANDriver	
Specification of CAN Interface	AUTOSAR_SWS_CANInterface	
Specification of CAN Network	AUTOSAR_SWS_CANNetworkManagement	
Management		
Specification of CAN State	AUTOSAR_SWS_CANStateManager	
Manager		
Specification of CAN Transceiver	AUTOSAR_SWS_CANTransceiverDriver	
Driver		
Specification of CAN Transport	AUTOSAR_SWS_CANTransportLayer	
Layer		
Specification of COM Based	AUTOSAR_SWS_COMBasedTransformer	
Transformer		
Specification of Communication	AUTOSAR_SWS_COM	
Specification of Diagnostic over	AUTOSAR_SWS_DiagnosticOverIP	
IP		
Specification of Ethernet Driver	AUTOSAR_SWS_EthernetDriver	
Specification of Ethernet	AUTOSAR_SWS_EthernetInterface	
Interface		
Specification of Ethernet State Manager	AUTOSAR_SWS_EthernetStateManager	
Specification of Ethernet	AUTOSAR_SWS_EthernetTransceiverDriver	
Transceiver Driver		
Specification of FlexRay	AUTOSAR_SWS_FlexRayARTransportLayer	
AUTOSAR Transport Layer		
Specification of FlexRay	AUTOSAR_SWS_FlexRayInterface	
Interface	,	
Specification of FlexRay ISO	AUTOSAR_SWS_FlexRayISOTransportLayer	
Transport Layer		
Specification of FlexRay Network	AUTOSAR_SWS_FlexRayNetworkManagement	
Management		
Specification of FlexRay State	AUTOSAR_SWS_FlexRayStateManager	
Manager		
Specification of FlexRay	AUTOSAR_SWS_FlexRayTransceiverDriver	
Transceiver Driver Specification of I-PDU Multiplexer	AUTOSAR SWS IRRUMUltiployor	
Specification of LIN Driver	AUTOSAR_SWS_LINDriver	
Specification of LIN Interface	AUTOSAR_SWS_LINInterface	
Specification of LIN Network	AUTOSAR_SWS_LINNetworkManagement	
Management		
Specification of LIN State	AUTOSAR_SWS_LINStateManager	
Manager	AUTOSAR SWIS LINTROPOSICIO	
Specification of LIN Transceiver Driver	AUTOSAR_SWS_LINTransceiverDriver	
Specification of Module E2E	AUTOSAR_SWS_E2ETransformer	
Transformer		
Specification of Module XCP	AUTOSAR_SWS_XCP	
Specification of Network	AUTOSAR_SWS_SAEJ1939NetworkManagement	



Long Name	File Name	Life cycle changes
Specification of Network	AUTOSAR_SWS_NetworkManagementInterface	changes
Management Interface		
Specification of PDU Router	AUTOSAR_SWS_PDURouter	
Specification of Secure Onboard	AUTOSAR_SWS_SecureOnboardCommunication	
Communication		
Specification of Service Discovery	AUTOSAR_SWS_ServiceDiscovery	
Specification of Socket Adaptor	AUTOSAR_SWS_SocketAdaptor	
Specification of SOME/IP	AUTOSAR_SWS_SOMEIPTransformer	
Transformer Specification of SPI	AUTOSAR_SWS_SPIHandlerDriver	
Handler/Driver		
Specification of TCP/IP Stack	AUTOSAR_SWS_Tcplp	
Specification of TTCAN Driver	AUTOSAR_SWS_TTCANDriver	
Specification of TTCAN Interface	AUTOSAR_SWS_TTCANInterface	
Specification of UDP Network Management	AUTOSAR_SWS_UDPNetworkManagement	
Specification of Vehicle-2-X Basic Transport	AUTOSAR_SWS_V2XBasicTransport	New in R4.3.0
Specification of Vehicle-2-X Facilities	AUTOSAR_SWS_V2XFacilities	New in R4.3.0
Specification of Vehicle-2-X Geo Networking	AUTOSAR_SWS_V2XGeoNetworking	New in R4.3.0
Specification of Vehicle-2-X	AUTOSAR_SWS_V2XManagement	New in
Management		R4.3.0
Specification of Wireless Ethernet Driver	AUTOSAR_SWS_WirelessEthernetDriver	New in R4.3.0
Specification of Wireless Ethernet Transceiver Driver	AUTOSAR_SWS_WirelessEthernetTransceiverDriv er	New in R4.3.0
Specification on Ethernet Switch Driver	AUTOSAR_SWS_EthernetSwitchDriver	1(4.5.0
Specification on SOME/IP Transport Protocol	AUTOSAR_SWS_SOMEIPTransportProtocol	New in R4.3.0
Cluster: Crypto		1110.0
Requirements on Crypto Stack	AUTOSAR_SRS_CryptoStack	
Specification of Crypto Driver	AUTOSAR_SWS_CryptoDriver	New in R4.3.0
Specification of Crypto Interface	AUTOSAR_SWS_CryptoInterface	New in
Specification of Crypto Service	AUTOSAR_SWS_CryptoServiceManager	R4.3.0
Manager Utilization of Crypto Services	AUTOSAR_EXP_UtilizationOfCryptoServices	
Cluster: Diagnostics		
Specification of Diagnostic	AUTOSAR_SWS_DiagnosticCommunicationManag	
Communication Manager	er	
Specification of a Diagnostic Communication Manager for SAE J1939	AUTOSAR_SWS_SAEJ1939DiagnosticCommunicat ionManager	
Specification of Diagnostic Event Manager	AUTOSAR_SWS_DiagnosticEventManager	
Specification of Diagnostic Log and Trace	AUTOSAR_SWS_DiagnosticLogAndTrace	



Long Name	File Name	Life
		cycle
		changes
Cluster: General		onangeo
Application Design Patterns	AUTOSAR_TR_AIDesignPatternsCatalogue	
Catalogue		
Application Interface Examples	AUTOSAR_MOD_AISpecificationExamples	
Application Interfaces User	AUTOSAR_EXP_AIUserGuide	
Guide		
Layered Software Architecture	AUTOSAR_EXP_LayeredSoftwareArchitecture	
Predefined Names in AUTOSAR	AUTOSAR_TR_PredefinedNames	
Requirements on AUTOSAR Features	AUTOSAR_RS_Features	Obsolete in R4.3.1
Requirements on SW-C and System Modeling	AUTOSAR_RS_SWCModeling	
SW-C and System Modeling Guide	AUTOSAR_TR_SWCModelingGuide	
Unique Names for Documentation, Measurement and Calibration: Modeling and Naming Aspects including Automatic Generation	AUTOSAR_TR_AIMeasurementCalibrationDiagnosti cs	
Virtual Functional Bus	AUTOSAR_EXP_VFB	
XML Specification of Application Interfaces	AUTOSAR_MOD_AISpecification	
Cluster: Global Time		
Requirements on Synchronized	AUTOSAR_SRS_SynchronizedTimeBaseManager	
Time-Base Manager		
Specification of Synchronized Time-Base Manager	AUTOSAR_SWS_SynchronizedTimeBaseManager	
Specification of Time Synchronization over CAN	AUTOSAR_SWS_TimeSyncOverCAN	
Specification of Time Synchronization over FlexRay	AUTOSAR_SWS_TimeSyncOverFlexRay	
Specification of Time Synchronization over Ethernet	AUTOSAR_SWS_TimeSyncOverEthernet	
Cluster: HMI		
Explanation of Application Interfaces of the HMI, Multimedia and Telematics Domain	AUTOSAR_EXP_AIHMIMultimediaAndTelematics	
Cluster: IO		
Requirements on ADC Driver	AUTOSAR_SRS_ADCDriver	
Requirements on DIO Driver Requirements on I/O Hardware	AUTOSAR_SRS_DIODriver AUTOSAR_SRS_IOHWAbstraction	
Abstraction Requirements on ICU Driver	AUTOSAR_SRS_ICUDriver	
Requirements on OCU Driver	AUTOSAR_SRS_ICUDIIver	
Requirements on Port Driver	AUTOSAR_SRS_OCODIVER	
Requirements on PWM Driver	AUTOSAR_SRS_PUIDIver	
Specification of ADC Driver	AUTOSAR_SKS_PWMDIver	
Specification of DIO Driver	AUTOSAR_SWS_DIODriver	
Specification of I/O Hardware Abstraction	AUTOSAR_SWS_IOHardwareAbstraction	
Specification of ICU Driver	AUTOSAR_SWS_ICUDriver	



Specification of OCU Driver AUTOSAR_SWS_OCUDriver Specification of POWI Driver AUTOSAR_SWS_PortDriver Specification of PWM Driver AUTOSAR_SWS_POMDriver Cluster: Libraries AUTOSAR_EXP_MacroEncapsulationofInterpolation Requirements on Libraries AUTOSAR_SWS_ENLibraries Specification of Bit Handling AUTOSAR_SWS_ESLibraries Specification of CRC Routines AUTOSAR_SWS_ECRUbrary Specification of CRC Routines AUTOSAR_SWS_CryptoAbstractionLibrary Specification of Extended Fixed AUTOSAR_SWS_EFXLibrary Point Routines AUTOSAR_SWS_IFXLibrary Specification of Extended Fixed AUTOSAR_SWS_IFXLibrary Point Routines AUTOSAR_SWS_IFXLibrary Specification of Fixed Point AUTOSAR_SWS_MFXLibrary Interpolation Routines AUTOSAR_SWS_MFXLibrary Specification of Floating Point AUTOSAR_SWS_MFXLibrary Math Routines AUTOSAR_SWS_MSLibrary Specification of Floating Point AUTOSAR_SWS_MEXLibrary Math Routines AUTOSAR_SWS_MCLibrary Specification of Floating Point AUTOSAR_SWS_MCLibrary Brequinements on Core Test AUTOSAR_SWS_	Long Name	File Name	Life
Specification of OCU Driver AUTOSAR_SWS_OCUDriver Changes Specification of Port Driver AUTOSAR_SWS_PortDriver Specification of Port Driver AUTOSAR_SWS_PORDDriver Cluster: Libraries AUTOSAR_SKS_Libraries Specification of Ibrary AUTOSAR_SKS_Libraries New in Requirements on Libraries AUTOSAR_SKS_Libraries Specification of Bit Handling AUTOSAR_SKS_Libraries Specification of CRC Routines AUTOSAR_SKS_CRCLibrary Obsolete Specification of CRC Routines AUTOSAR_SWS_CRCLibrary Obsolete Net AUTOSAR_SWS_CRCLibrary Obsolete Specification of Fixed Point AUTOSAR_SWS_EFXLibrary Obsolete Net Autos Net Autos Specification of Fixed Point Math AUTOSAR_SWS_IFLLibrary Net Autos Net Autos Specification of Floating Point AUTOSAR_SWS_MFLLibrary AUTOSAR_SWS_MFLLibrary Net Autos Specification of Floating Point AUTOSAR_SWS_SCOTES AUTOSAR_SWS_EDTA Net Autos Specification of Floating Point AUTOSAR_SWS_GPTA AUTOSAR_SWS_GPTA Net Autos Specification of Floating Point AUTOSAR_SWS_GPTA Net Autos Net Autos			
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Specification of PWM Driver AUTOSAR_SWS_PWMDriver Cluster: Libraries AUTOSAR_EXP_MacroEncapsulationofInterpolation Calls New in R4.3.0 Requirements on Libraries AUTOSAR_SS_Libraries R4.3.0 Specification of Bit Handling AUTOSAR_SWS_BFXLibrary New in R4.3.0 Specification of CRC Routines AUTOSAR_SWS_CRCLibrary New in R4.3.0 Specification of CRC Routines AUTOSAR_SWS_CRCLibrary Nosolete in R4.3.0 Specification of CRC Routines AUTOSAR_SWS_CRCLibrary Nosolete in R4.3.0 Specification of Extended Fixed AUTOSAR_SWS_IFXLibrary Nosolete in R4.3.0 Specification of Fixed Point AUTOSAR_SWS_IFXLibrary Nosolete in R4.3.0 Specification of Floating Point AUTOSAR_SWS_IFXLibrary Notones AutosAR_SWS_IFXLibrary AUTOSAR_SWS_MFXLibrary Notones Specification of Floating Point AUTOSAR_SWS_EE2Library Notones AutosAR_SWS_SCOTETest AUTOSAR_SRS_SPALGeneral Requirements on Core Test AUTOSAR_SWS_GPTDriver Requirements on GC Tor Tiver AUTOSAR_SWS_GPTDriver Specification of MCU Driver AUTOSAR_SWS_GPTDriver Specification of OC Tor Test	-		
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Routines AUTOSAR_SWS_CRCLibrary Specification of CRQ Routines AUTOSAR_SWS_CRCLibrary Obsolete AUTOSAR_SWS_CryptoAbstractionLibrary Obsolete In R4.3.0 Specification of Crypto AUTOSAR_SWS_EFXLibrary Point Routines AUTOSAR_SWS_IFXLibrary Specification of Fixed Point AUTOSAR_SWS_IFXLibrary Interpolation Routines AUTOSAR_SWS_IFXLibrary Specification of Floating Point AUTOSAR_SWS_IFLLibrary Interpolation Routines AUTOSAR_SWS_SPELibrary Specification of Floating Point AUTOSAR_SWS_IFLLibrary Interpolation Routines AUTOSAR_SWS_E2ELibrary Specification of Floating Point AUTOSAR_SRS_SPALGeneral Requirements on Core Test AUTOSAR_SRS_OreTest Requirements on GPT Driver AUTOSAR_SRS_MCUDriver Specification of GPT Toriver AUTOSAR_SWS_MCUDriver Specification of GPT Driver AUTOSAR_SWS_MCUDriver Specification of MCU Drive	Requirements on Libraries	AUTOSAR_SRS_Libraries	
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Abstraction Library in R4.3.0 Specification of Extended Fixed AUTOSAR_SWS_EFXLibrary Specification of Fixed Point AUTOSAR_SWS_IFXLibrary Interpolation Routines AUTOSAR_SWS_IFXLibrary Specification of Fixed Point AUTOSAR_SWS_IFLLibrary Interpolation Routines AUTOSAR_SWS_IFLLibrary Specification of Floating Point AUTOSAR_SWS_IFLLibrary Interpolation Routines AUTOSAR_SWS_MFLLibrary Specification of SW-C End-to- End Communication Protection AUTOSAR_SRS_SPALGeneral Requirements on SPAL AUTOSAR_SRS_CoreTest Requirements on OCre Test AUTOSAR_SRS_CoreTest Requirements on Core Test AUTOSAR_SRS_CoreTest Specification of Core Test AUTOSAR_SRS_MCUDriver Specification of Core Test AUTOSAR_SRS_CoreTest Specification of Core Test AUTOSAR_SRS_MCUDriver Specification of MCU Driver AUTOSAR_SRS_MCUDriver Specification of EPROM AUTOSAR_SRS_EPEROMDriver Specification of Memory AUTOSAR_SRS_EEPROMDriver Requirements on EEPROM AUTOSAR_SRS_FlashDriver Requirements on Memory AUTOSAR_SRS_MEMORYBEVE Requirements on Memory AUTOSAR_SR			
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Long Name	File Name	Life
		cycle
		changes
Specification of Flash Test	AUTOSAR_SWS_FlashTest	onangoo
Specification of FlexRay Driver	AUTOSAR_SWS_FlexRayDriver	
Specification of Memory	AUTOSAR_SWS_MemoryAbstractionInterface	
Abstraction Interface		
Specification of Memory Mapping	AUTOSAR_SWS_MemoryMapping	
Specification of NVRAM	AUTOSAR_SWS_NVRAMManager	
Manager		
Specification of RAM Test	AUTOSAR_SWS_RAMTest	
Cluster: Methodology and Temp		
ARXML Serialization Rules	AUTOSAR_TPS_ARXMLSerializationRules	New in
		R4.3.0
AUTOSAR Feature Model	AUTOSAR_RS_FeatureModelExchangeFormat	114.0.0
Exchange Format Requirements		
AUTOSAR Feature Model	AUTOSAR_TPS_FeatureModelExchangeFormat	
Exchange Format		
AUTOSAR Miscellaneous	AUTOSAR_MOD_MiscSupport	
Support Files		
Basic Software Module	AUTOSAR_TPS_BSWModuleDescriptionTemplate	
Description Template	' ' '	
Collection of blueprints for	AUTOSAR_MOD_GeneralBlueprints	
AUTOSAR M1 models		
Collection of constraints on	AUTOSAR_TR_AutosarModelConstraints	
AUTOSAR M1 models		
Diagnostic Extract Template	AUTOSAR_TPS_DiagnosticExtractTemplate	
General Requirements on	AUTOSAR_RS_MethodologyAndTemplatesGeneral	
Methodology and Templates		
Generic Structure Template	AUTOSAR_TPS_GenericStructureTemplate	
Integration of Franca IDL	AUTOSAR_TR_FrancaIntegration	
Software Component		
Descriptions		
Interoperability Of Autosar Tools	AUTOSAR_TR_InteroperabilityOfAutosarToolsSuppl	
Supplement	ement	
Meta Model	AUTOSAR_MMOD_MetaModel	
Meta Model-generated XML	AUTOSAR_MMOD_XMLSchema	
Schema		
Methodology	AUTOSAR_TR_Methodology	
Modeling Show Cases Examples	AUTOSAR_EXP_ModelingShowCases	New in
		R4.3.0
Modeling Show Cases Report	AUTOSAR_TR_ModelingShowCases	New in
		R4.3.0
Requirements on Basic Software	AUTOSAR_RS_BSWModuleDescriptionTemplate	
Module Description Template		
Requirements on Diagnostic	AUTOSAR_RS_DiagnosticExtractTemplate	
Extract Template		
Requirements on ECU	AUTOSAR_RS_ECUConfiguration	
Configuration	ALITOSAD DS ECLIDosourooTomplato	
Requirements on ECU Resource Template	AUTOSAR_RS_ECUResourceTemplate	
Requirements on Software	AUTOSAR_RS_SoftwareComponentTemplate	
Component Template		
Requirements on Standardization	AUTOSAR_RS_StandardizationTemplate	
Template		
i sinpluto	1	I



Long Name	File Name	Life
		cycle
		changes
Requirements on System	AUTOSAR_RS_SystemTemplate	onangoo
Template		
Requirements on Timing	AUTOSAR_RS_TimingExtensions	
Extensions		
Software Component Template	AUTOSAR_TPS_SoftwareComponentTemplate	
Specification of ECU	AUTOSAR_TPS_ECUConfiguration	
Configuration		
Specification of ECU	AUTOSAR_MOD_ECUConfigurationParameters	
Configuration Parameters (XML)		
Specification of ECU Resource	AUTOSAR_TPS_ECUResourceTemplate	
Template		
Specification of Timing	AUTOSAR_TPS_TimingExtensions	
Extensions		
Standardization Template	AUTOSAR_TPS_StandardizationTemplate	
Standardized M1 Models used	AUTOSAR_MOD_GeneralDefinitions	
for the Definition of AUTOSAR		
Supplementary material of	AUTOSAR_TR_GeneralBlueprintsSupplement	
general blueprints for AUTOSAR		
Supplementary material of the	AUTOSAR_TR_XMLSchemaSupplement	
AUTOSAR XML Schema		
System Template	AUTOSAR_TPS_SystemTemplate	
XML Schema Production Rules	AUTOSAR_TPS_XMLSchemaProductionRules	
Cluster: Mode Management		1
Guide to Mode Management	AUTOSAR_EXP_ModeManagementGuide	
Requirements on Mode	AUTOSAR_SRS_ModeManagement	
Management	//oroc/inc_onco_modemanagement	
Specification of Basic Software	AUTOSAR_SWS_BSWModeManager	
Mode Manager		
Specification of ECU State	AUTOSAR_SWS_ECUStateManager	
Manager	······································	
Specification of ECU State	AUTOSAR_SWS_ECUStateManagerFixed	Obsolete
Manager with fixed state		in R4.3.1
machine		
Cluster: Powertrain		
Explanation of Application	AUTOSAR_EXP_AIPowertrain	
Interfaces of the Powertrain		
Engine Domain		
Cluster: RTE		
Requirements on Runtime	AUTOSAR_SRS_RTE	
Environment		
Specification of RTE Software	AUTOSAR_SWS_RTE	
Cluster: Safety	·	
Explanation of Application	AUTOSAR_EXP_AIOccupantAndPedestrianSafety	
Interfaces of Occupant and		
Pedestrian Safety Systems		
Domain		
Overview of Functional Safety	AUTOSAR_EXP_FunctionalSafetyMeasures	
Measures in AUTOSAR	-	
Requirements on Safety	AUTOSAR_RS_SafetyExtensions	
Extensions		
Requirements on Watchdog	AUTOSAR_SRS_WatchdogDriver	
Driver		



Long Name	File Name	Life
		cycle
		changes
Safety Use Case Example	AUTOSAR_EXP_SafetyUseCase	
Specification of Watchdog Driver	AUTOSAR_SWS_WatchdogDriver	
Specification of Watchdog Interface	AUTOSAR_SWS_WatchdogInterface	
Specification of Watchdog Manager	AUTOSAR_SWS_WatchdogManager	
Specifications of Safety Extensions	AUTOSAR_TPS_SafetyExtensions	
Technical Safety Concept Status	AUTOSAR_TR_SafetyConceptStatusReport	Obsolete
Report		in R4.3.1
Cluster: System Services		
Recommended Methods and	AUTOSAR_TR_TimingAnalysis	
Practices for Timing Analysis and Design within the AUTOSAR		
Development Process		
Requirements on Free Running Timer	AUTOSAR_SRS_FreeRunningTimer	
Requirements on Function Inhibition Manager	AUTOSAR_SRS_FunctionInhibitionManager	
Requirements on Hardware Test	AUTOSAR_SRS_HWTestManager	New in
Manager on start up and shutdown		R4.3.0
Requirements on Operating System	AUTOSAR_SRS_OS	
Requirements on Time Service	AUTOSAR_SRS_TimeService	
Specification and Integration of	AUTOSAR_TR_HWTestManagementIntegrationGui	New in
Hardware Test Management at start up and shutdown	de	R4.3.0
Specification of Communication Manager	AUTOSAR_SWS_COMManager	
Specification of Default Error Tracer	AUTOSAR_SWS_DefaultErrorTracer	
Specification of Function	AUTOSAR_SWS_FunctionInhibitionManager	
Inhibition Manager Specification of Hardware Test	AUTOSAR_SWS_HWTestManager	New in
Manager on start up and shutdown		R4.3.0
Specification of Operating	AUTOSAR_SWS_OS	
System Specification of Time Service	AUTOSAR_SWS_TimeService	
Cluster: Tools		
	ALITOCAD TD Internation/MithDatasticre/Mastel	
Interaction with Behavioral Models	AUTOSAR_TR_InteractionWithBehavioralModels	
Interoperability of AUTOSAR Tools	AUTOSAR_TR_InteroperabilityOfAutosarTools	
Requirements on Interaction with Behavioral Models	AUTOSAR_RS_InteractionWithBehavioralModels	
Requirements on Interoperability of AUTOSAR Tools	AUTOSAR_RS_InteroperabilityOfAutosarTools	



5 Remarks to known technical deficiencies

The technical deficiencies per specification are – if applicable – mentioned inside the respective specification in a chapter called "Known Limitations" which is located after the table of contents.

There are the following technical deficiencies to be mentioned which are not related to a specific specification:

• none

There are major changes or major extension on/of specifications which shall be pointed out here:

• TR_Methodology (UID 068, TR):

This document contains specification items which refer to requirements that do not exist anymore. This will be resolved with the release R4.4.0.

AUTOSAR_EXP_UtilizationOfCryptoServices (UID 602):

This document was impacted by the Crypto Interface concept released with R4.3.0 but not yet updated accordingly. The update is planned for R4.3.1.

- V2X-Modules:
 - Wireless Communication supports IEEE 802.11p only. Other 802.11 standards (e. g. for infrastructure networks and integration with TCP/IP) can be extended in future releases of the AUTOSAR standard.
 - The V2X modules follow the guidance regarding the Day-1 scenarios defined by the Basic System Standards Profile from Car-2-Car-Consortium.
 - The Car-2-Car-Consortium supports also American and Japanese regional versions of C2C. AUTOSAR R4.3.0 only focuses on the European version of car-to-car communication as defined by ETSI. Extensions to other regions are planned for future releases of the AUTOSAR standard.

• AUTOSAR_SWS_ServiceDiscovery (UID 616):

This document does not yet contain trace links to the SRS Ethernet, therefore, the trace table is empty.

• AUTOSAR_SRS_SynchronizedTimeBaseManager (UID 420),

AUTOSAR_SWS_SynchronizedTimeBaseManager (UID 421),

AUTOSAR_SWS_TimeSyncOverCAN (UID 674),

AUTOSAR_SWS_TimeSyncOverFlexRay (UID 675),

AUTOSAR_SWS_TimeSyncOverEthernet (UID 676),

AUTOSAR_SWS_DiagnosticLogAndTrace (UID 351):

Due to the major changes which were applied to these documents (see 3.1.2.4 "Reworked specifications"), existing implementations need to be thoroughly checked regarding their conformance to the updated specifications listed above.



• An incompatibility exists between CP R4.3.1 and AP 17-10 in cases an AUTOSAR AP server inter-operates with an AUTOSAR CP client (and both make use of the same modeling of the ClientServerOperation) in case an ApplicationError is raised by the ClientServerOperation since the AUTOSAR CP client expects a SOME/IP Message Type of RESPONSE (0x80) containing all ArgumentDataPrototypes of the ClientServerOperation which have direction INOUT or OUT in the serialized payload, but this expectation is not met by the AUTOSAR CP server.



6 Revision history

6.1 Release 4.3.0

Revision 0 of Release 4.3.1. has been released on the 30th of November 2016. The following deliverables had major changes.

Name	Specification history entry
Application Design	 generalization of arbitration pattern,
Patterns Catalogue	three examples: several setpoint
	requesters, several providers of estimated values, several providers
	of consolidated values
	minor changes
Application Interfaces	 Add chapter about implementation of data types as integer or
User Guide	floating point data types – Chapter ID 4.2.3.3.
ARXML Serialization	Initial Release
Rules	
AUTOSAR Feature	Editorial changes
Model Exchange Format	
Requirements	
AUTOSAR Feature	Editorial changes
Model Exchange Format	
Basic Software Module	Standarization of Rapid Prototyping Support
Description Template	Improve Callout handling
	 Extended Uses-Case descriptions for BSW modules
	Editorial changes
Collection of constraints	minor corrections / clarifications / editorial changes; For details
on AUTOSAR M1	please refer to the ChangeDocumentation
models	
Complex Driver design	Add chapter to interface with StbM module
and integration guideline	Update for Module ID
Description of the	Editorial changes
AUTOSAR standard	
errors	
Diagnostic Extract	Support for OBD
Template	Support for J1939
	Support for Fim configuration
	 Support for environmental conditions Minor corrections / clarifications / editorial changes; For details
	 Minor corrections / clamications / editorial changes, For details please refer to the ChangeDocumentation



Name	Specification history entry
Explanation of	Editorial changes
Application Interfaces of	
Occupant and	
Pedestrian Safety	
Systems Domain	
Explanation of	Extension of number of ports of Body composition
Application Interfaces of	Editorial changes
the Body and Comfort	
Domain	
Explanation of	Editorial changes
Application Interfaces of	
the Chassis Domain	
Explanation of	Editorial changes
Application Interfaces of	
the HMI, Multimedia and	
Telematics Domain	
Explanation of	Chapters "Terminology – Torque within the Powertrain Domain"
Application Interfaces of	and "Overview of AUTOSAR torque application interfaces"
the Powertrain Engine	updated by new torque signals requested by WP-I-TRSM.
Domain	Update Chapter "Appendix: Mapping Ports to Display Names -
	Powertrain Domain" according Sensor/Actuator Pattern
	Definitions. Keep elements from earlier AUTOSAR Releases inside.
Explanation of Error	 minor corrections / clarifications / editorial changes; For details
Handling on Application	please refer to the ChangeDocumentation
Level	
Explanation of Interrupt	Editorial changes
Handling within	
AUTOSAR	
General Requirements	Interfaces for C90 has been added
on Basic Software	Support for MISRA 2012 updated
Modules	Obsolete references removed
	Editorial Changes
General Requirements	Editorial changes
on Methodology and	
Templates	
General Requirements	Editorial changes
on SPAL	
General Specification of	Meta Data handling
Basic Software Modules	Changed to MISRA C 2012 Standard
	Debugging support was removed
	 minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
General Specification on	Minor corrections / clarifications / editorial changes; For details
Transformers	please refer to the ChangeDocumentation



Name	Specification history entry
Generic Structure	Extend AttributeValuePattern for enumeration
Template	Editorial changes
	Control the production of specification documents
	Added section on Special Data Group Definitions
Guide to BSW	Editorial changes
Distribution	
Guide to Mode	Explanation of multicore BswM interaction
Management	Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Integration of Franca	editorial changes
IDL Software	
Component Descriptions	
Interaction with	 Reference to AUTOSAR_TR_Methodology.pdf corrected
Behavioral Models	
Interoperability of	Clean-up
AUTOSAR Tools	Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Layered Software	 Incorporated new 4.3 concepts for Crypto Stack, Vehicle-2-X
Architecture	Communication, SOME/IP Transport Protocol, DLT rework
	Removed obsolete Dbg module
	Editorial changes
List of Basic Software	Corrected DLT layer assignment after DLT rework
Modules	Deprecated Debugging module removed
	Added SOME/IP-Transport Protocol
	Introduced modules for Vehicle-2-X communication
	Introduced modules for new Crypto stack
Macro Encapsulation of	Initial Release
Library Calls	
Methodology	Support for Data Exchange Points added
	Minor corrections / clarifications / editorial changes; For details
Madaling Quidalings of	please refer to the ChangeDocumentation
Modeling Guidelines of	Editorial changes
Basic Software EA UML	
Model	
Modeling Show Cases	Initial Release
Examples	
Modeling Show Cases	Initial Release
Report	
NV Data Handling	Initial Release
Guideline	
Overview of Functional	New Chapter: "Use of AUTOSAR features for functional safety"
Safety Measures in	is based on Chapters 4.2 and 4.3 from document
AUTOSAR	"TR_SafetyConceptStatusReport_233"
	Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation.



Name Predefined Names in	Specification history entry
Predenned Names in	Include abbreviations for DDCD
AUTOSAR	Include abbreviations for PDEP
Recommended Methods	Section 1.9 added roles and their benefits from reading this
and Practices for Timing	document
Analysis and Design	Section 2.6 introduced function-level Use-cases
within the AUTOSAR	Some ECU UCs are consolidated in chapter 3
Development Process	 New figure for overview of E2E Use-cases is improved (figures 5.1)
	 Improved timing tasks in section 6.3
	 References to methods and properties are consolidated in chapter 6
Requirements on ADC Driver	Chapter 5 added with requirements tracing table
Requirements on	Obsolete Debugging features removed
AUTOSAR Features	 Incorporation of features for new R4.3 concepts
Requirements on Basic	Removed Debugging support requirement
Software Module	[RS_BSWMD_00061].
Description Template	Added further rapid prototyping support with
· · · ·	[RS_BSWMD_00070] and [RS_BSWMD_00071].
Requirements on BSW	Added traceability matrix
Modules for SAE J1939	Support for Request2
Requirements on CAN	Added method to obtain error active/passive state of a CAN
Requirements on	restricted I-PDU groups to contain only PDUs with the same
Communication	direction
	 minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Requirements on Core Test	Added Requirements Tracing section
Requirements on Crypto	Added requirements for the whole Crypto Stack and renamed
Stack	the document
	Introduced crypto job concept
	 Introduced key management concept
Requirements on	Add requirements for OBD
Diagnostic Extract	 Add requirements for the support of Fim
Template	 Add requirements for the support of J1939
	 Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Requirements on	Editorial changes
Diagnostic Log and	Ŭ
• •	
	Add section 5 Requirements Tracing
Driver	
Requirements on E2E	Update requirements considering new profiles 7, 11, 22
Communication	Update requirements tracing
Protection	
Trace Requirements on DIO Driver Requirements on E2E	Update requirements considering new profiles 7, 11, 22



Name	Specification history entry
Requirements on ECU	Updated title of [RS_ECUC_00066]
Configuration	
Requirements on ECU	Layout update
Resource Template	
Requirements on	Editorial changes
EEPROM Driver	
Requirements on	Improvements of switch related requirements
Ethernet Support in	 Introduction of testing and diagnostics features
AUTOSAR	Editorial changes
Requirements on Flash	Editorial changes
Driver	
Requirements on Flash	Editorial changes
Test	
Requirements on	Minor corrections
FlexRay	
Requirements on Free	Editorial changes
Running Timer	
Requirements on	Editorial Changes
Function Inhibition	
Manager	
Requirements on	FIFO shall be enabled for TP Gateway
Gateway	
Requirements on GPT	Editorial changes
Driver	
Requirements on	Initial Release
Hardware Test Manager	
on start up and	
shutdown	
Requirements on I/O	Requirement Tracing section added
Hardware Abstraction	
Requirements on ICU	Editorial changes
Driver Dequiremente en	
Requirements on	Editorial changes
Interaction with	
Behavioral Models	
Requirements on	 added use case and requirements for the description of data avalance points
Interoperability of	exchange points
AUTOSAR Tools	minor corrections / classifications / aditatic laboratory Far batally
Requirements on I-PDU	 minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation
Multiplexer	please refer to the ChangeDocumentation
Requirements on	Removal of the requirement SRS_LIBS_00006 Addition of Requirements Tracing section
Libraries	 Addition of Requirements Tracing section Addition of details about 64-bit CRC
Requirements on LIN	 Addition of details about 64-bit CRC Added requirement tracing section



Name	Specification history entry
Requirements on MCU	Added "Chapter 5 – Requirement Tracing" to trace against
Driver	AUTOSAR features.
	Editorial changes
Requirements on	Added Requirements Tracing chapter
Memory Hardware	
Abstraction Layer	
Requirements on	Added Requirements Tracing chapter
Memory Services	
Requirements on	Support for Data Exchange Points added
Methodology	Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Requirements on Mode	 Clarification of Network Management requirements
Management	 Introduced Requirements Tracing information
Requirements on	Added requirements tracing
Module XCP	
Requirements on	Added Requirements Tracing section
Network Management	Editorial changes
Requirements on OCU	Add section 3 Requirements Tracing
Driver	
Requirements on	 minor corrections / clarifications / editorial changes; For details
Operating System	please refer to the ChangeDocumentation
Requirements on Port	Editorial changes
Driver	
Requirements on PWM	Added requirements tracing section
Driver	
Requirements on RAM	Add section 5 Requirements Tracing
Test	
Requirements on	Added support for
Runtime Environment	ExtendedBufferAccess:
	• [SRS_Rte_00254],
	• [SRS_Rte_00255],
	• [SRS_Rte_00256],
	• [SRS_Rte_00257],
	• [SRS_Rte_00258],
	• [SRS_Rte_00259],
	• [SRS_Rte_00260]
Requirements on Safety	 minor corrections / clarifications / editorial changes; For details
Extensions	please refer to the ChangeDocumentation
Requirements on	 Minor corrections / clarifications / editorial changes; For details
Secure Onboard	please refer to the ChangeDocumentation
Communication	
Requirements on	 Added requirements for rapid prototyping support.
Software Component	
Template	



Name	Specification history entry
Requirements on SPI	New chapter "Requirements tracing"
Handler/Driver	
Requirements on	Profiles for Data Exchange Points
Standardization	restructure chapters
Template	editorial changes
Requirements on SW-C	Editorial changes
and System Modeling	
Requirements on	Rate Correction added
Synchronized Time-	Time precision measurement support added
Base Manager	AUTOSAR specific TLV and resident time compensation for
	switches added for Ethernet
	 Various enhancements and corrections (e.g. support for
	immediate Timesync message transmission)
Requirements on	minor corrections / clarifications / editorial changes; For details
System Template	please refer to the ChangeDocumentation
Requirements on Time	 Add section 5 Requirements Tracing
Service	
Requirements on Timing	Editorial changes
Extensions	
Requirements on	 Minor corrections / clarifications / editorial changes; For details
Transformer	please refer to the ChangeDocumentation
Requirements on	Update Requirements Tracing
TTCAN	
Requirements on	Initial Release
Vehicle-2-X	
Communication	
Requirements on	 Added chapter 5: Requirements Tracing
Watchdog Driver	
Safety Use Case	Editorial changes
Example	
Software Component	Improved support for Unions
Template	Improved upstream mapping
	 Improved description of service use cases
	Minor corrections / clarifications / editorial changes; For details
Crossification or d	please refer to the ChangeDocumentation
Specification and	Initial Release
Integration of Hardware	
Test Management at	
start up and shutdown	late due d'action la TuO action d'act
Specification of Large	Introduced reliable TxConfirmation
Data COM	Minor corrections
Specification of RTE	Service-based bypass support
Software	 Minor corrections / clarifications / editorial changes; For details places refer to the Change Decumentation
	please refer to the ChangeDocumentation



Name	Specification history entry
Specification of a	Clarifications, Corrections and Optimization
Diagnostic	 DM1 max number of DTC to be set to configurable
Communication	 Support of DM53, DM54, and DM55
Manager for SAE J1939	 Extend J1939DcmBusType with new enumerators
Specification of a	Request2 support
Request Manager for	 Improved handling of meta data
SAE J1939	Reliable TxConfirmation replaces timeout
0AL 01000	Separate configuration of different users
Specification of a	Improved handling of meta data
Transport Layer for SAE	Reliable TxConfirmation replaces timeout
J1939	Clarification on concurrent connections
	 Support of link time configuration variant
Specification of ADC	Variant-Post-Build requirements removed
Driver	Variant specific requirements for initialization API removed
	Error classification table update
	Editorial changes
Specification of Basic	Added some actions/indications to allow for more BswM
Software Mode Manager	interaction with following BSW Modules: Ethlf, EcuM
	Waiting functionality added using the BswMTimer mode request
	source
	 Some mode requests are now modeled using
	BswMEventRequestPort, instead of BswMModeRequestPort
	Editorial changes, increased requirement traceability and minor
	changes to configuration containers/parameters
Specification of Bit	Removal of the requirement SWS_Bfx_00204
Handling Routines	Updation of MISRA violation comment format
	 Updation of unspecified value range for BitPn, BitStartPn, BitLn and ShiftCnt
	Clarifications
Specification of CAN	Added API's Can_GetControllerErrorState Can_Delnit,
Driver	Can_GetControllerMode, Types Can_ControllerStateType,
Dilver	Can_ErrorStateType and new requirements Can_91002 to
	SWS_Can_91018.
	 Modified minimum range of MainFunctionPeriod parameters
	and replaced Word "DLC" by "Data Length".
	Removed unresolved BSW SRS references, definition of the
	"configuration variants", Can_StateTransitionType, WAKEUP
	related, Can_ChangeBaudrate API support, MISRA references,
	requirements related to module initialization check for
	scheduled functions.
One officiation of OAN	Small improvements and minor bug-fixes.
Specification of CAN	Remove CCMSM
Interface	Rework MetaData handling Baliable TxConfirmation
	Reliable TxConfirmation
	Error Active/Passive State API



Name	Specification history entry
Specification of CAN	API Harmonizations
Network Management	 Improved post-build parameter support and dependencies
	Transmission of additional NM message on NM Coordinator
	Ready Sleep Bit change
	Introduction of Reliable TX Confirmation
Specification of CAN	Provide DeInit-API
State Manager	ECU passive mode clarified and fixed
	Editorial changes
Specification of CAN	Added CanTrcv_DeInit API
Transceiver Driver	Sequence diagram updated
	 CanTrcvGetVersionInfo renamed to CanTrcvVersionInfoApi
	 Updated Configuration class for configuration parameters
	Minor corrections in the MainFunction periods
Specification of CAN	Harmonized API functions description
Transport Layer	Parallel handling of CAN 2.0 and CAN-FD clarification
	Introduction of reliable TxConfirmation
0 10 10 0000	Clarification of addressing in Upper Layers using MetaData
Specification of COM	Updated include file structure figure 5.1.
Based Transformer	Clarification on postBuild configuration in chapter 10.
	Added support for unqueued communication when no data is available in [SIMS_ComXf_00025]
Specification of	available in [SWS_ComXf_00035]
Communication	 updated TX-confirmation handling revised Signal Based Gateway
Communication	 revised Signal Based Gateway Com-Stack API harmonization
	 minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of	 Added the possibility to switch ehternet switch ports according to
Communication	ComM channel request / release
Manager	 Added the wake up handling in case of a ECU which is
	controlling a Ethernet switch and using PNCs.
	Minor corrections
Specification of	 Removed Type BusTrcvErrorType because it is not used at all
Communication Stack	 Updated PduInfoType for addressing in Upper Layers using
Types	MetaData
	Update of SWS document as per BSW General document
Specification of	Removed chapter 'Variants'
Compiler Abstraction	Removed obsolete elements
Specification of Core	Replaced Development Error Tracer with Default Error Tracer
Test	Removed Debugging Support section
	Removed Variants section
Specification of CRC	Introduction of a new CRC-64 for E2E Profile 7
Routines	Editorial changes
Specification of Crypto	Initial Release
Driver	
Specification of Crypto	Initial Release
Interface	



Name	Specification history entry
Specification of Crypto	Introduced crypto job concept
Service Manager	 Introduced key management concept
	 Removed Cry_XXX functions from the Csm and introduced two
	new layers in the crypto stack: Crypto Interface (Crylf) and
	Crypto Driver (Crypto)
Specification of Default	Improved Sequence Diagrams
Error Tracer	 Added Description of Callouts (8.1.5)
	 Changed Port Defined Arguments in Service
	Improved traceability
	Added DetModuleInstance parameter
	Made TransientFaults an BSW-Service
Specification of	Redesign interfaces between Dem and Dcm
Diagnostic	Rework Security Access management
Communication	 Add management for parallel support for OBD and UDS
Manager	protocolsClarify usage of Diagnosis scaling
	 minor corrections / clarifications / editorial changes; For details
	please refer to the BWCStatement
Specification of	 Removal of context workarounds and reworked callback
Diagnostic Event	behaviour. Introduced monitor status and updated point in time
Manager	of callback processing.
	 Introduced client concept for multiple access to the Dem.
	Optimized APIs for better runtime performance and aligned
	return values to allow the Dcm mapping to return values
	according to ISO 14229-1 [1].
	 Supporting event memories for multiple diagnostic servers Clarified thresholds and operation cycle handling
	 minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of	Major rework of the SWS Dlt
Diagnostic Log and	 Dlt Protocol moved to PRS Dlt Protocol specification
Trace	Removed interaction with DCM
Specification of	Support for DoIP Activation line switch
Diagnostic over IP	 Support for UDP multicast vehicle announcement
	 Introduction of reliable TxConfirmation
	Harmonization of identical APIs functions within BSW
Specification of DIO	Removed SWS_Dio_00065
Driver	Replaced content of "7.6.2 Runtime Errors" by "There are no
	runtime errors."
	 Replaced content of "7.6.3 Transient Faults" by "There are no transient faults.
	transient faults
	 Removed the definition of the "configuration variants" from 10.1.1
	Changed Figure 2: Include File Structure
Specification of ECU	 Minor corrections / clarifications / editorial changes; For details
Configuration	please refer to the ChangeDocumentation
Sonngaration	France in the end get boundering and



Name	Specification history entry
Specification of ECU	Layout update
Resource Template	
Specification of ECU	Partial Network Cluster Support
State Manager	Initialization BSW scheduler slipt
5	Added a driver initialization list
	 Removed EcuM_StateType
Specification of ECU	Minor corrections / clarifications / editorial changes; For details
State Manager with	please refer to the ChangeDocumentation
fixed state machine	
Specification of	Rules for request acceptance/rejection and related error
EEPROM Abstraction	reporting updated
	Updated tracing information
	Range / limits on main function changed
Specification of	Obsolete chapter "7.11 Support for Debugging" and sub chapter
EEPROM Driver	"10.2.1 Variants" are removed
	 Byte-wise read/write/erase access adaptation
	 Alignment of DataBuffers passed to functions
Specification of Ethernet	 Quality of Service (QoS) support
Driver	Ethernet statistics counter access
Specification of Ethernet	Diagnostics access APIs added
Interface	gPTP Timestamp rework
	 Ethernet Switch enhancements (Port Groups)
	Wireless Ethernet support
Specification of Ethernet	Remove Set and Get Transceiver mode functionality
State Manager	 Correct EthSM_TcpIpModeIndication callback return value
	Harmonize main function period with the other modules
	Remove Get current internal mode
Specification of Ethernet	Configuration via Switch or Mii
Transceiver Driver	100BASE-T1 test mode support
Specification of	Modified:
Extended Fixed Point	Updated the correct reference to SRS_BSW_General
Routines	(SRS_BSW_00437) & (SRS_BSW_00448) for
	SWS_Efx_00810 & SWS_Efx_00822 requirements.
	 Updated EFX document to support MISRA 2012 standard. (Removed redundant statements in SWS_Efx_00809 which
	already exist in SWS_BSW document and SWS_SRS
	document)
	 Updated SWS_Efx_00275 & SWS_Efx_00276 to provide more
	clarity on resolution of parameters.
	 Updated SWS_Efx_00278 & SWS_Efx_00279 to provide more
	clarity on rounding and minimum value of Param_cpcst-
	>SlopeXXX_u32 * dT_s32. Provided the correct IT number.
	Updated the section 8.5.3.1 for Structure definitions for
	controller routines.
	•



Name	Specification history entry
Specification of Fixed	Added:
Point Interpolation	 Added a new requirement (SWS_lfx_00250) to provide info on
Routines	symmetricity for interpolation services.
1 Coulines	 A note has been added in SWS_lfx_00016 as a suggestion to
	provide hardware independent solution too.
	Modified:
	 Section 2 has been updated to include abbreviation for (DET)
	Default Error tracer.
	Updated IFX document to support MISRA 2012 standard.
	(Removed redundant statements in SWS_Ifx_00809 which
	already exist in SWS_BSW document and SWS_SRS
	document)
	 Modified the reference to SRS_BSW_General
	(SRS_BSW_00437) & (SRS_BSW_00448) for SWS_lfx_00436
	& SWS_Ifx_00999 requirements.
Specification of Fixed	Modified
Point Math Routines	The renaming of "Development Error Tracer" to "Default Error
	Tracer" is done in abbreviations
	 Removal of the requirement SWS_Mfx_00204
	 Maximum shift value updated for SWS_Mfx_00064
	 Updated SWS_Mfx_00073 for clarity in min/max handling
	Clarifications
Specification of Flash	Updated tracing information
Driver	 Internal buffer alignment clarified
	Error handling refined, new configuration parameters added
Specification of Flash	Updated tracing information
EEPROM Emulation	 Behaviour during MEMIF_BUSY_INTERNAL reworked
	Range of main function adapted
Specification of Flash	 ECUC_FIsTst_00172: FIsTstMainFunctionPeriod added;
Test	 SWS_FIsTst_00081 removed;
	 Unresolved references BSW00431, BSW00434,
	SRS_BSW_00326, SRS_BSW_00435, SRS_BSW_00436
	deleted
Specification of FlexRay	Chapters Runtime Errors, and Transient Faults have been
AUTOSAR Transport	established
Layer	Development Error Tracer has been replaced by Default Error
	Meta Data handling has been introduced
	 Requirements about handling negative TxConfirmations has
Constitution of FlowDow	been added.
Specification of FlexRay	Added TX conflict detectionsupport
Driver	Editorial changes
Specification of FlexRay	New feature to get the "TxConflictState"
Interface	Introduce reliable TxConfirmation
	Unused bit handling reworked
	Several bug fixes



Name	Specification history entry
Specification of FlexRay	Removed configuration parameters FrTpMaxBufferSize,
ISO Transport Layer	FrTpMaxAs, FrTpMaxAr, FrTpMaxFrlf, FrTpTimeFrlf,
	FrTpTimeoutBr, FrTpTimeoutCs.
	 Addressing in Upper Layers using MetaData.
	 Introduced reliable TxConfirmation.
	Editorial changes.
Specification of FlexRay	API Harmonizations
Network Management	Clarification on initiatlization of FrNm
5	 Introduction of Reliable TX Confirmation
	Update in TriggerTransmit
	Minor corrections
Specification of FlexRay	Added wakeup forwarding for dual channel FlexRay networks
State Manager	Minor corrections / clarifications / editorial changes; for details
	please refer to the ChangeDocumentation
Specification of FlexRay	Icu APIs are used to activate/de-activate the ISR that indicates
Transceiver Driver	a wakeup
	Clarification in configuration of SPI sequence
	Correction of mainfunction period
Specification of Floating	Modified:
Point Interpolation	Section 2 has been revisited to update Default Error Tracer
Routines	instead of Development Error tracer.
	 Updated IFL document to support MISRA 2012 standard.
	(Removed redundant statements in SWS_IfI_00209 which
	already exist in SWS_BSW document and SWS_SRS
	document)
	 Updated the correct reference to SRS_BSW_General
	(SRS_BSW_00437) & (SRS_BSW_00448) for SWS_lfl_00210
	& SWS_IfI_00224 requirements.
Specification of Floating	Modified:
Point Math Routines	Section 2 has been revisited to update Default Error Tracer
	instead of Development Error tracer.
	 SWS_Mfl_00362 has been updated to provide clarity in
	requirements.
	 SWS_Mfl_00363 has been modified to provide clear
	requirements.
	Updated the parameters in SWS_MfI_00360 for MfI_AreTap2_f22 convice to be in sume with standard C library
	 Mfl_ArcTan2_f32 service to be in sync with standard C library. Updated SWS_Mfl_00122 to provide better clarity on the input
	 parameter limits. Verified that the spec SWS_Mfl_00122 has been updated to
	 verified that the spec SV/S_IVII_00122 has been updated to provide better clarity on input parameter limits.
	 Updated MFL document to support MISRA 2012 standard.
	(Removed Reference related to MISRA 2002 standard.
	ans redundant statements in SWS_MfI_00809 which already
	exist in SWS_BSW document and SWS_SRS document)
	 Modified the reference to SRS_BSW_General
	(SRS_BSW_00437) & (SRS_BSW_00448) for SWS_MfI_00810
	& SWS_Mfl_00822 requirements.



Name	Specification history entry
Specification of Function	Editorial changes
Inhibition Manager	
Specification of GPT	Variant chapter reworked. Remove redundant requirement
Driver	SWS_Gpt_00342. Remove any reference to Dem.
	•
Specification of	Initial Release
Hardware Test Manager	
on start up and	
shutdown	
Specification of I/O	minor corrections / clarifications / editorial changes; For details
Hardware Abstraction	please refer to the ChangeDocumentation
	•
Specification of ICU	Removed chapter "10.2.1 Variants"
Driver	 Changed upper multiplicity of the ICU_EcuModuleDef to 1 in
	figure of section 10.2.2
	Removed config parameter lcuIndex(ECUC_lcu_00221) from
	IcuGeneral section 10.2.3 and in figure of section 10.2.3
	 Requirement ID SWS_Icu_00383 given to additional test "EcuM_WakeupSourceType shall be imported from
	EcuM_Types.h"
	 Removed requirement SWS_Icu_00346
	Editorial changes
Specification of I-PDU	updated TX-confirmation handling
Multiplexer	added support for MetaData
	Com-Stack API harmonization
	 minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of LIN	Updated tracing information
Driver	Removed chapter 'Variants'
Specification of LIN	 Changed the call of MainFunction_<channelld> of each</channelld>
Interface	channel
	Added the new function for schedule table change Changed the signature of Lizer TxConfirmation
Specification of LIN	 Changed the signature of User_TxConfirmation Updated requirement ECUC_LinNm_00028 for
Network Management	LinNm_MainFunction calling period (0INF).
INCLIVER INALIAYETTETT	 Harmonize descriptions of identical API functions.
	 Introduced reliable TxConfirmation.
	Editorial changes.
Specification of LIN	Editorial changes
State Manager	
Specification of LIN	Change in GetVersionInfo API
Transceiver Driver	• minor corrections / editorial changes; For details please refer to
	the ChangeDocumentation
Specification of MCU	Removed chapter "Variants"
Driver	Cleaned up unresolved references in traceability



Name	Specification history entry
Specification of Memory	Updated tracing information
Abstraction Interface	Editorial changes
Specification of Memory	Support dedicated allocation of pointer variables
Mapping	Remove obsolete specification content
	Amend examples
	Editorial changes
Specification of Module	 Added support for Profiles P7, P11, P22
E2E Transformer	Various minor improvements
Specification of Module	Editorial corrections.
XCP	 Harmonize descriptions of identical API functions.
	 Removal of unused artifacts and obsolete elements.
Specification of Network	Address coordination for gateways
Management for SAE	 Improved handling of meta data
J1939	 Reliable TxConfirmation replaces timeout
	SetEventStatus replaces ReportErrorStatus
Specification of Network	Add functionality for synchronizing channel A and channel B
Management Interface	 removed dependencies of ComMChannels to each other in
	respect to NMVariants
	• minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of NVRAM	 Added NvM_FirstInitAll and NvM_GetActiveService
Manager	functionalities
_	 NvM_SetRamBlockStatus works also for explicit
	synchronization blocks
	 The interaction between NvM and BswM is clarified.
	Other small clarifications and updates.
Specification of OCU	 Removed SWS_Ocu_00134 and SWS_Ocu_00135
Driver	 Renamed "SRS_BSW_000386" to "SRS_BSW_00386"
	 Removed SRS_BSW_00157, SRS_BSW_00326,
	SRS_BSW_00329, SRS_BSW_00338, SRS_BSW_00355,
	SRS_BSW_00370, SRS_BSW_00376, SRS_BSW_00434
	Removed SRS_BSW_0431 Observed #0220_0204 (00400)
	Changed "SRS_SPAL12448" to "SRS_SPAL_12448"
Specification of	Added new API for peripheral access
Operating System	Added new API for interrupt handling Minor updates (algoritization of descriptions)
	Minor updates/clarification of descriptions
Charification of DDU	Editorial changes Deliable TyConfirmation
Specification of PDU	Reliable TxConfirmation
Router	Addressing in Upper Layers using MetaData
	 Clarification on unknown message length handling for the TP gateway
	Added support for n:1 routing
	 Added support for FIFO for TP messages
	 Added support for FIFO for TP messages Removed module specific dependencies when calling DET
Specification of Platform	 Removed module specific dependencies when calling DET Support for 64 bit MCU's added.
•	 Editorial changes.
Types	



Name	Specification history entry
Specification of Port	Removed remaining references to DEM
Driver	Removed section "Variants"
Specification of PWM Driver	 Updated Pwm_GetOutputState return value requirement SWS_Pwm_30051 and its references Updated Configuration Class for PwmChannelID Removed definition of Configuration variants Removed Unresolved References of BSW requirements Updated Header file structure diagram
Specification of RAM Test	 Removed subsection 7.5 Debugging Renamed "RamTstGetVersionInfoApi" to "RamTstVersionInfoApi" Removed SWS_RamTst_00167 and SWS_RamTst_00168 Added line "Supported Config Variants" to the table of the module definition in 10.2.1 Added sections 7.2.2 Runtime Errors and 7.2.3 Transient Faults Renamed "RS_SPAL_12448" to "SRS_SPAL_12448" Removed BSW00434, BSW00443, BSW00444, SRS_BSW_00370, SRS_BSW_00435, SRS_BSW_00436
Specification of Secure Onboard Communication	 Handle freshness in external freshness manager New feature to send authenticator in an additional message Secured diagnostic communication Increase minimum value of parameter AuthInfoTxLength to 1 Changed the type of the parameter keyID of the interface SecOC_AssociateKey() to uint16
Specification of Service Discovery	 Major improvement (SoAd interaction) Several bugfixes Editorial changes
Specification of Socket Adaptor	 Support for decoupled data transmission Optimization for Client/Server communication Introduction of reliable TxConfirmations Clarifications and corrections of requirements
Specification of SOME/IP Transformer	 Sizes of length fields can be configured independently from each other Support of union data types Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation
Specification of SPI Handler/Driver	 Requirements removed: SWS_Spi_00339, SWS_Spi_00191, SWS_Spi_00367, SWS_Spi_00239, SWS_Spi_00056, SWS_Spi_00076, SWS_Spi_00148 Requirements updated: SWS_Spi_00999, SWS_Spi_00092 Improvement of the traceability with SRS BSW General requirements Editorial changes
Specification of	Corrected editorial traceability issues
Standard Types	



Name	Specification history entry
Specification of SW-C	Added new Profiles 7, 11 and 22.
End-to-End	 Fixed initialization of profile 1 and 2 in the init function. Now
Communication	properly sets WaitForFirstData to TRUE.
Protection Library	 Corrected/unified initialization of Counter state variable and
Frotection Library	bit/byte conversion in configuration data in profiles 4, 5, and 6.
	 Removed chapter 8.3.7 elementary protocol functions that were
	marked obsolete since several releases.
Specification of	Rate Correction added
Synchronized Time-	 Time precision measurement support added
Base Manager	 Time/status notification mechanism added
Dase Manager	 Various enhancements and corrections
Specification of TCP/IP	Improvements for robustness
Stack	 Introduction of diagnostic features
Slack	
	Clarifications and corrections of requirements
Specification of Time	Editorial changes Demoved the definition of the "configuration verients" from
Specification of Time	 Removed the definition of the "configuration variants" from 10.2.1 Variants
Service	
	 Added line "Supported Config Variants" to the table of the module definition in 10.2.2 Tm
	Removed SWS_Tm_00058
	• Removed SRS_BSW_00326, SRS_BSW_00338,
	SRS_BSW_00376, SRS_BSW_00435, SRS_BSW_00436
Specification of Time	Offset message formats changed
Synchronization over	Extended Offset message formats added
CAN	Immediate Time Synchronization message transmission
	Various enhancements and corrections
Specification of Time	Resident time compensation for switches added
Synchronization over	AUTOSAR specific TLV added
Ethernet	 Interface to StbM and EthIf reworked (incl. support for
	immediate Timesync message transmission)
	 Various enhancements and corrections (e.g. postbuild
	configuration)
Specification of Time	Offset message formats changed
Synchronization over	 Immediate Time Synchronization message transmission
FlexRay	 Various enhancements and corrections
Specification of Timing	Added support for conditional timing
Extensions	 Added support for timing constraints for Ethernet
	communications
	 Added timing function to support mode dependency
	Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of TTCAN	Remove CCMSM
Driver	Editorial changes
Specification of TTCAN	Remove CCMSM
Interface	Dem API update
	Editorial changes
L	



Name	Specification history entry
Specification of UDP	Added Trigger Transmit feature
Network Management	Car Wakeup support completed
	Immediate TX Transmission corrected
	Editorial changes
Specification of Vehicle-	Initial Release
2-X Basic Transport	
Specification of Vehicle-	Initial Release
2-X Facilities	
Specification of Vehicle-	Initial Release
2-X Geo Networking	
Specification of Vehicle-	Initial Release
2-X Management	
Specification of	Removed chapter 10.2.1 "Variants" including req
Watchdog Driver	SWS_Wdg_00157, SWS_Wdg_00158 SWS_Wdg_00159
	Removed Chapter "7.8 Debugging"
	 In table ECUC_Wdg_00073 added row for "Supported Config Variants"
	Variants"
	 minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation
Specification of	Minor corrections / clarifications / editorial changes; For details
Watchdog Interface	please refer to the ChangeDocumentation
Specification of	Deprecated features removed
Watchdog Manager	Service interfaces modified/corrected
	Removed duplicate type definitions
	Several minor fixes.
Specification of Wireless	Initial Release
Ethernet Driver	
Specification of Wireless	Initial Release
Ethernet Transceiver	
Driver	
Specification on Ethernet Switch Driver	 Restructured VLAN-membership as a port-related configuration parameter
	 Introduced configuration of rate policers on ingress side
	 Introduced filter configuration for double tagged frames
	 Introduced configuration of minimum buffer size for FIFOS
	 Introduced Types to read HW-statistic by List pointer; reorganized interfaces to read HW-statistics.
	 Introduced Compensation of Ethernet switch delays for Global Time Synchronization
	 Add / update elements to describe MAC interface and physical interface
	 Added testing functionality for diagnostic use cases
	 Added testing functionality for diagnostic use cases Added Possibility to switch off ports and switch instances
	according to VLAN or PNC.
	Introduced interfaces for verification of switch configuration



Name	Specification history entry
Specification on	Initial Release
SOME/IP Transport	•
Protocol	
Specifications of Safety	improved modeling of decomposition
Extensions	 relation of safety requirements;
	 minor corrections / clarifications /
	 editorial changes; For details please
	 refer to the ChangeDocumentation
Standardization	extend Blueprintables
Template	update specification levels
	 convert constraints in specification items
	 introduction of platform based document structure
	 introduction of Profiles for Data Exchange Points
SW-C and System	 New modeling rules for Units and Physical Dimensions
Modeling Guide	elements.
	Extended formulas expression for Units in Display names.
System Template	Added support for new E2E Profiles
	7, 11 and 22
	Improved configuration of Ethernet
	Switch Ports
	Introduced Security Profiles
	Minor corrections / clarifications /
	editorial changes; For details please
Technical Sefety	refer to the ChangeDocumentation
Technical Safety	 Aligning coverage justification with SWS requirements
Concept Status Report	Estitution of an anal
Unique Names for	Editorial changes
Documentation,	
Measurement and	
Calibration: Modeling	
and Naming Aspects	
including Automatic	
Generation	
Utilization of Crypto	Editorial changes
Services	
Virtual Functional Bus	 minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation
XML Schema	Renamed Document
Production Rules	 Removed chapter "6 XML description production rules"
	 Removed section about XML description conformance from chapter 7

More specifications might have been changed, which are not listed here. Those specifications have then only "minor corrections, clarifications or editorial changes; for details please refer to the Change Documentation" [3].



6.2 Release 4.3.1

Revision 1 of Release 4.3.1. has been released on the 8th of December 2017. The following deliverables had major changes.

Name	Specification history entry
Application Interfaces	Editorial changes
User Guide	
ARXML Serialization	update of pattern for AUTOSAR XML Schema location hint
Rules	
AUTOSAR Feature	Editorial changes
Model Exchange	
Format Requirements	
AUTOSAR Feature	Editorial changes
Model Exchange	
Format	
Basic Software	 Added Use-Case description for OBD services
Module Description	 Extended Use-Case descrpitions for BSW modules
Template	Editorial changes
Collection of	Minor corrections / clarifications / editorial changes; For details
constraints on	please refer to the ChangeDocumentation
AUTOSAR M1 models	
Complex Driver	adapt the 7.3.9 chapter title
design and integration	
guideline	
Description of the	Removed the reference to obsolete requirements Updated the
AUTOSAR standard	communication errors reporting flow.
errors	
Diagnostic Extract	Minor corrections / clarifications / editorial changes; For details
Template	please refer to the ChangeDocumentation
Explanation of	Editorial changes
Application Interfaces	
of Occupant and	
Pedestrian Safety	
Systems Domain	Editorial above a
Explanation of	Editorial changes
Application Interfaces	
of the Body and Comfort Domain	
	Editorial changes
Explanation of	Editorial changes
Application Interfaces of the Chassis	
Domain	
	Editorial changes
Explanation of Application Interfaces	
of the HMI, Multimedia	
and Telematics	
Domain	
Domain	



Name	Specification history entry
Explanation of Error	Editorial changes
Handling on	
Application Level	
Explanation of	Editorial changes
Interrupt Handling	
within AUTOSAR	
General	Life cycle change for header files Related standards and norms
Requirements on	are updated Editorial changes
Basic Software	
Modules	
General	Editorial changes
Requirements on	
Methodology and	
Templates	
General	SRS requirements refer to BMW specifications
Requirements on	Removed references to HIS
SPAL	minor corrections / clarifications / editorial changes; for details
	please refer to the ChangeDocumentation
General Specification	 Minor corrections / clarifications / editorial changes; For details
of Basic Software	please refer to the ChangeDocumentation
Modules	
General Specification	Signatures improved
on Transformers	 Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation
Generic Structure	Introduction of FileInfoCmmment
Template	Ordered collections
Template	 Naming conventions in variant handling patterns
Guide to BSW	Editorial changes
Distribution	
Guide to Mode	Clarifed rules of initialzation
Management	Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Interaction with	Editorial changes
Behavioral Models	-
Interoperability of	Minor corrections / clarifications / editorial changes; For
AUTOSAR Tools	details please refer to the ChangeDocumentation
Layered Software	Editorial changes
Architecture	
List of Basic Software	Editorial changes
Modules	
Macro Encapsulation	Editorial changes
of Library Calls	
Methodology	 Minor corrections / clarifications / editorial changes; For
	details please refer to the ChangeDocumentation
Modeling Show Cases	Editorial changes
Report	
	Editorial changes



Name	Specification history entry
NV Data Handling	Editorial changes
Guideline	
Predefined Names in	Include abbreviations for Name Spaces
AUTOSAR	Include Mentioned Class Tables
Recommended	Editorial changes
Methods and	
Practices for Timing	
Analysis and Design	
within the AUTOSAR	
Development Process	
Requirements on ADC	Scope of ADC driver clarified
Driver	References to not applicable documents removed
	Editorial changes"
Requirements on	Marked the document as obsolete
AUTOSAR Features	
Requirements on	Editorial changes
Basic Software	
Module Description	
Template	- Editorial abangoa
Requirements on BSW Modules for	Editorial changes
SAE J1939	
Requirements on CAN	Editorial changes
Requirements on	Editorial changes
Communication	
Requirements on	Editorial changes
Core Test	
Requirements on	Default error detection renamed to development error detection
Crypto Stack	Editorial changes
Requirements on	Editorial changes
Diagnostic Extract	
Template	
Requirements on DIO	Removed references to BMW and HIS documents
Driver	Editorial changes
Requirements on E2E	Minor corrections / clarifications / editorial changes; For details
Communication	please refer to the ChangeDocumentation
Protection	
Requirements on ECU	Editorial changes
Configuration	
Requirements on ECU	Layout update
Resource Template	
Requirements on	Removed obsolete references
EEPROM Driver	Editorial changes
Requirements on	Editorial changes
Ethernet Support in	
AUTOSAR	



Name	Specification history entry
Requirements on	Removed references to HIS
Flash Driver	
Requirements on	Removed references to HIS
Flash Test	 Renamed "default error" to "development error"
	 minor corrections / clarifications / editorial changes; for details
	please refer to the ChangeDocumentation
Requirements on	Editorial changes
FlexRay	
Requirements on Free	Editorial changes
Running Timer	
Requirements on	Editorial changes
Function Inhibition	
Manager	
Requirements on	Editorial changes
Gateway	
Requirements on GPT	Editorial changes
Driver	
Requirements on	Editorial changes
Hardware Test	
Manager on start up	
and shutdown	
Requirements on I/O	Related standards and norms was removed
Hardware Abstraction	Editorial changes
Requirements on ICU	Editorial changes
Driver	
Requirements on	Editorial changes
Interaction with	
Behavioral Models	
Requirements on	Editorial changes
Interoperability of	
AUTOSAR Tools	
Requirements on I-	Editorial changes
PDU Multiplexer	
Requirements on	Section 3 has been revisited to update Default Error Tracer
Libraries	instead of Development Error tracer
	Editorial changes
Requirements on LIN	 Changed [SRS_Lin_01514] to solve inconsistency on channel
	state upon initialization
	Corrected [SRS_Lin_01564] to fit to current priority handling of
	LIN Schedule Table
Requirements on	Removed references to HIS
MCU Driver	Editorial changes
Requirements on	Editorial changes
Memory Hardware	
Abstraction Layer	
Requirements on	Editorial changes
Memory Services	



Name	Specification history entry
Requirements on	Editorial changes
Mode Management	
Requirements on	Editorial changes
Module XCP	
Requirements on	Removed section 7.2.2 HIS
Network Management	Replaced OSEK references to ISO
Requirements on	Editorial changes
OCU Driver	
Requirements on	Minor corrections / clarifications / editorial changes; For details
Operating System	please refer to the ChangeDocumentation
Requirements on Port	Minor corrections / clarifications / editorial changes; For details
Driver	please refer to the ChangeDocumentation
Requirements on	Editorial changes
PWM Driver	
Requirements on	Removed obsolete references
RAM Test	
Requirements on	Editorial changes
Runtime Environment	
Requirements on	Minor corrections / clarifications / editorial changes; For details
Safety Extensions	please refer to the ChangeDocumentation
Requirements on	Minor corrections / clarifications / editorial changes; For details
Secure Onboard	please refer to the ChangeDocumentation
Communication	
Requirements on	Editorial changes
Software Component	
Template	
Requirements on SPI	Editorial changes
Handler/Driver	
Requirements on	Editorial changes
Standardization	
Template	
Requirements on SW-	Editorial changes
C and System	
Modeling	
Requirements on	Editorial changes
Synchronized Time-	
Base Manager	
Requirements on	Editorial changes
System Template	
Requirements on	Editorial changes
Time Service	
Requirements on	Editorial changes
Timing Extensions	
Requirements on	Minor corrections / clarifications / editorial changes; For details
Transformer	please refer to the ChangeDocumentation
Requirements on	Editorial changes
TTCAN	



Requirements on Vehicle-2-X • Editorial changes Qommunication • Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation Safety Use Case • Editorial changes Example • Editorial changes Software Component Template • Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation Specification and Integration of Hardware Test Management at start up and shutdown • Editorial changes Specification of Large Data COM • Minor corrections / clarifications / editorial changes; for details please refer to the ChangeDocumentation Specification of a Diagnostic • Fixed instance reference to application data elements used for environmental checks Communication Manager for SAE J1939 • Clarified availability of J1939Rm_ComRxlpduCallout Added internal feedback of ACKM • Alded internal feedback of ACKM Specification of a Transport Layer for SAE J1939 • Clarified reception with identical channels Specification of A Transport Layer for SAE J1939 • Runtime error introduced; part of development errors changed intor runtime errors Specification of Basic Software Mode Manager • Rework of BswM-Com interaction for Pdu group switching and deadline monitoring control. BswM-Internal group vectors no longer used Specification of Basic Software Mode Manager • Rework of BswM-Com i	Name	Specification history entry
Communication Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation Safety Use Case Editorial changes Example Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation Specification and Integration of Hardware Test Management at start up and shutdown Editorial changes Specification of CMM Minor corrections / clarifications / editorial changes; for details please refer to the ChangeDocumentation Specification of ATE Minor corrections / clarifications / editorial changes; for details please refer to the ChangeDocumentation Specification of RTE Minor corrections / clarifications / editorial changes; for details please refer to the ChangeDocumentation Specification of a Diagnostic Fixed instance reference to application data elements used for environmental checks Communication Retry of failed transmissions Mager for SAE J1939 Introduction of runtime errors Specification of a Transport Layer for SAE J1939 Clarified reception with identical channels Specification of A Transport Layer for SAE J1939 Runtime error introduced; part of development errors changed into runtime errors Specification of Basic Software Mode Manager Rework of BswM-Com interaction for Pdu group switching and deadline monitoring control. BswM-Internal group vectors no longer used <td>Requirements on</td> <td></td>	Requirements on	
Requirements on • Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation Safety Use Case • Editorial changes Example • Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation Software Component Template • Minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation Specification and Integration of Hardware Test Management at start up and shutdown • Editorial changes Specification of Large Data COM • Minor corrections / clarifications / editorial changes; for details please refer to the ChangeDocumentation Specification of RTE Software • Minor corrections / clarifications / editorial changes; for details please refer to the ChangeDocumentation Specification of a Diagnostic • Fixed instance reference to application data elements used for environmental checks Communication Manager for SAE J1939 • Introduction of runtime errors Specification of a Transport Layer for SAE J1939 • Clarified reception with identical channels Specification of ADC Driver • Runtime error introduced; part of development errors changed into runtime errors Specification of ADC Driver • Runtime error introduced; part of development errors changed into runtime errors Specification of Basic Software Mode Manager • Rework of BswM-Com interaction for Pdu group switching and d		
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Editorial changes		
Specification of Bit Addition on mnemonic for boolean as "u8".	Specification of Bit	
Handling Routines • Editorial changes	-	



Name	Specification history entry
Specification of CAN	Added Support to Tx/RxProcessing per Controller
Driver	 Incompatible return types are corrected to E_NOT_OK and
	E_OK
	 Can_StateTransitionType is removed
	Runtime error is added and Rephrased from "default error" to
	"development error"
	 SWS_CAN_00504 and SWS_Can_00416 is modified
Specification of CAN	Introduction of Runtime errors
Interface	 Replace Can_ReturnType with Std_ReturnType overlay
	Minor corrections
	Editorial changes
Specification of CAN	 Node Detection Configuration per channel
Network Management	Runtime Errors introduced
Specification of CAN	 Moved CANSM_E_MODE_REQUEST_TIMEOUT to Runtime
State Manager	Error
Specification of CAN	 CanTrcv_DeInit API added in state machine diagram
Transceiver Driver	Editorial changes 'Runtime errors' added
Specification of CAN	Clarification of metadata provision
Transport Layer	 Extend data length for CAN-FD
	Rollout of Runtime errors
	Minor corrections
Specification of COM	Updated handling of gaps in the array representation of a signal
Based Transformer	group.
	Clarification on parameter passing.
Specification of	reverted I-PDU group control APIs to AUTOSAR Release 3
Communication	style
	 minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocu-mentation
Specification of	Clarification regarding communication inhibition and bus wake
Communication	up inhibition
	 Handling of ComM channel state machine if PNC wake-up-
Manager	indication is triggered
Specification of	Editorial changes
Communication Stack	
Types	
Specification of	Editorial changes
Compiler Abstraction	Clarification regarding module specific memory classes and
	global memory classes
Specification of Core	Minor corrections
Test	
Specification of CRC	Editorial changes
Routines	
Specification of Crypto	Editorial changes
Abstraction Library	
Specification of Crypto	Rollout of 'Runtime Errors'
Driver	 Minor corrections, clarifications and editorial changes; For
	details please refer to the ChangeDocumentation



Name	Specification history entry
Specification of Crypto	Minor corrections, clarifications and editorial changes; For
Interface	details please refer to the ChangeDocumentation
Specification of Crypto	Added definition for asymmetric key formats
Service Manager	 Error fixing and consistency improvements
	Editorial changes
Specification of	Clarified signature of callbacks
Default Error Tracer	Clarification in Error handling
	 Removed some DET errors from DET itself.
Specification of	 Cleanup SRS_Diagnostic requirement traceability
Diagnostic	 Fix Dcm/Dem interactions inconsistencies
Communication	 Add constraints requirements for parameter configuration
Manager	 minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of	Update and optimized interaction between Dcm and Dem
Diagnostic Event	Made many functions asynchronous
Manager	Shifted constraint handling to explicit requirements instead of
	informative text in ECUC tables
	 minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation
Specification of	Introduced use of StbM
Diagnostic Log and	 Added APIs regarding Rx data path
Trace	 Removed redundant items
Thate	Editorial changes
Specification of	Support for DoIP UDP Connections with limited broadcast IP
Diagnostic over IP	addresses
	Support for Further Action Code values for vehicle identification
	and vehicle announcement
	 Alignment of routing activation confirmation with ISO 13400
	Editorial changes
Specification of DIO	Removed unused artifacts
Driver	Editorial changes
Specification of ECU	Minor corrections / clarifications / editorial changes; For details
Configuration	please refer to the ChangeDocumentation
Specification of ECU	Layout update
Resource Template	
Specification of ECU	Adapt API Can_CheckWakeup
State Manager	Removed ConfigPtr parameter
	Removed Default error Bemaved upweed DIO driver
	Removed unused DIO driver EcuM ALITOSAR convice configure on convice partition only
Specification of ECU	 EcuM AUTOSAR service configure on service partition only Removal of unused artifacts of SWS_DIODriver
Specification of ECU	 Marked the specification as obsolete
State Manager with fixed state machine	
Specification of	Introduction of runtime errors
EEPROM Abstraction	 Set MEMIF_BUSY in Ea_InvalidateBlock and in
	Ea_EraseImmediateBlock



Name	Specification history entry
Specification of	Changed EEP_E_TIMEOUT and EEP_E_BUSY from
EEPROM Driver	Development error to Runtime error
	Changed description of ECUC_Eep_00189
Specification of	Minor adaptions and corrections
Ethernet Driver	
Specification of	Improved transceiver tests (Signal quality)
Ethernet Interface	 Enhanced sequence charts (Ethernet switch handling)
Specification of	Default error is removed
Ethernet State	Editorial changes
Manager	
Specification of	Minor corrections and adaptions
Ethernet Transceiver	Improved Switch integration
Driver	
Specification of	Added:
Extended Fixed Point	A note has been added in Section 8.1 of EFX specification to
Routines	provide clarity in usage of mnemonic for Boolean data types.
	Modified:
	The data type for Boolean has been updated in the UML of
	SWS_Efx_00355.
	 Inclusion of Pointer to Constant (P2CONST) for
	SWS_Efx_00355, SWS_Efx_00309, SWS_Efx_00307 &
	SWS_Efx_00193 and proper categorization of Parameters as
	InOut for SWS_Efx_00376.
Specification of Fixed	Added:
Point Interpolation	• A new requirement (SWS_lfx_00251) has been added under
Routines	Section 7.6 to provide clarity on the rounding mechanism for in-
	termediate result calculation.
	Removed:
	 A requirement (SWS_lfx_00250) has been removed as it is not
	real-izable for all the scenarios.
Specification of Fixed	Modified
Point Math Routines	 Added requirement tracing information for SWS_Mfx_00024
Foint Math Routines	 Removal of (**) from Mul variants in SWS_Mfx_00024
	 Addition of (*) for 0x078
	 Renamed "Development Error Tracer" to "Default Error Tracer"
	in abbreviations
Specification of Flash	Removed references to HIS
Driver	 Renamed "default error" to "development error"
	Introduction of runtime errors
	Configuration of instance ID for instantiated modules
Specification of Flash	Introduction of runtime errors
EEPROM Emulation	 Adjusted references
Specification of Flash	Numeric value definition
Test	 minor corrections / clarifications / editorial changes; for details
	please refer to the ChangeDocumentation
	production and the second seco



Name	Specification history entry
Specification of	Editorial changes
FlexRay AUTOSAR	
Transport Layer	
Specification of	Removed references to HIS
FlexRay Driver	Renamed "default error" to "development error"
	 minor corrections / clarifications / editorial changes; for details
	please refer to the ChangeDocumentation
Specification of	Runtime error rollout
FlexRay Interface	 UL_TxConfirmation replaced with UL_TriggerTransmit in
	affected requirements
Specification of	Removed HIS from acronym table in Section 2 and reference to
FlexRay ISO	HIS MISRA subset from Section 3.2
Transport Layer	For Rollout of Runtime errors:
	a. DET errors FRTP_E_SEG_ERROR and
	FRTP_E_NO_CHANNEL are moved to new section called
	'Runtime Errors' (SWS_FrTp_01208).
	 b. Updated requirements SWS_FrTp_01187, SWS_FrTp_01068, SWS_FrTp_01185, SWS_FrTp_01186.
Specification of	 Node Detetcion Configuration per channel
FlexRay Network	 Minor corrections with respect to Default Error Tracer
Management	 FrNmActiveWakeupBitEnabled dependency updated
Specification of	Minor corrections / clarifications / editorial changes; for details
FlexRay State	please refer to the ChangeDocumentation
Manager	
Specification of	Introduction of Default Error Tracer
FlexRay Transceiver	Introduction of runtime errors
Driver	
Specification of	Editorial changes
Floating Point	
Interpolation Routines	
Specification of	Added:
Floating Point Math	 A note has been added in Section 8.1 of MFL specification to
Routines	provide clarity in usage of mnemonic for Boolean data types.
	Modified:
	Inclusion of Pointer to Constant (P2CONST) for SNUS_MEL_00266_SNUS_MEL_00266_SNUS_MEL_00225_8
	SWS_MfI_00260, SWS_MfI_00246, SWS_MfI_00225 & SWS_MfI_00223 and proper categorization of Parameters as
	Out/InOut for SWS_MfI_00266, SWS_MfI_00285 &
	SWS_MfI_00037.
Specification of	 Minor corrections / clarifications / editorial changes; For details
Function Inhibition	please refer to the ChangeDocumentation
Manager	· · · · · · · · · · · · · · · · · · ·
Specification of GPT	Ensure consistency between default error tracer and
Driver	development errors.
	Add support of runtime errors and change type of errors
	GPT_E_MODE and GPT_E_BUSY.



Name	Specification history entry
Specification of ICU Driver	 Removed SWS_Icu_00116 and SWS_Icu_00190 Added SRS_BSW_00450 to the list of non applicable
	requirementsRenamed "default error" to "development error"
	 SWS_lcu_00201: lcu_StartTimestamp: Parameter (IN):
	Icu_ValueType* BufferPtr changed to Parameters (out) type
	 Changed ICU_E_NOT_STARTED from development error to runtime error
	Editorial Changes
Specification of I-PDU	introduced static multiple-PDU-to-Container handling as draft
Multiplexer	revised error definitions
	 minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocu-mentation
Specification of LIN	Minor corrections / clarifications / editorial changes
Driver Specification of LIN	 Resolve inconsistency on channel state upon initialization Rollout of Runtime Errors
Specification of LIN Interface	 Rollout of Runtime Errors Clarification of SRF handling for Node Configuration Request
Interface	 Resolve inconsistency on channel state upon initialization
	Clarification of LIN schedule table switch behavior
Specification of LIN	Renamed "default error" to "developement error".
Network Management	 Changed DET error name from "LINNM_E_NO_INIT" to "LINNM_E_UNINIT".
	 The configuration parameters LinNmNodeIdEnabled and LinNmNodeDetectionEnabled are moved from
	LinNmGlobalConfig container to LinNmChannelConfig.
	 Editorial changes.
Specification of LIN	LINSM_E_CONFIRMATION_TIMEOUT changed to Runtime
State Manager	Error
Specification of LIN	Restricted initial state to LINTRCV_TRCV_MODE_SLEEP
Transceiver Driver	Editorial changes
Specification of MCU	 Introduced new configuration parameter – McuRamSectionWriteSize
Driver	 Changed reentrancy of API Mcu_SetMode to Reentrant
Specification of	Editorial changes
Memory Abstraction	
Interface	
Specification of	Amend explanatory text
Memory Mapping	Editorial changes
Specification of	Editorial changes
Module E2E Transformer	
Specification of	Editorial changes
Module XCP	Update development errors
	Adapt XCP with CAN return types
	Add new configuration container XcpChannel



Name	Specification history entry
Specification of	Fixed include hierarchy
Network Management	Removed multiple configuration container
for SAE J1939	
Specification of	Minor corrections / clarifications / editorial changes; For details
Network Management	please refer to the ChangeDocumentation
Interface	
Specification of	Correction for write protection and erase requests for
NVRAM Manager	NvMWriteBlockOnce blocks
	Clarification regarding implicit recovery of dataset blocks
	 minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of OCU Driver	Editorial changes
Specification of	Minor corrections / clarifications / editorial changes; For details
Operating System	please refer to the ChangeDocumentation
Specification of PDU	 API parameter RetryInfoType* retry has become pointer to
Router	const in PduR_ <user:lotp>CopyTxData</user:lotp>
	The ChangeParameter API has been rendered obsolete
	 DET Runtime Errors PDUR_E_TP_TX_REQ_REJECTED and
	PDUR_E_PDU_INSTANCES_LOST introduced
	 Det_ReportRuntimeError has become a Mandatory Interface
	and inclusion of DET is not optional anymore
	 Clarification of the disabled APIs and their behavior if
	PduR_DisableRouting called
	 Corrections in description of PduRDestTxBufferRef and
	PduRTxBuffer
	Editorial changes
Specification of	Editorial changes
Platform Types	
Specification of Port	Minor corrections / clarifications / editorial changes; For details
Driver	please refer to the ChangeDocumentation
Specification of PWM	 Added classification for Runtime error
Driver	Removed SWS_Pwm_20069, SWS_Pwm_10120 and
	SWS_Pwm_20120
Specification of RAM	Updated traceability
Test	 minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation
Specification of	Clarify new authentication data layout with optional parameters.
Secure Onboard	Clarified the details for SW-C Freshness Value Manager
Communication	(Section 11).
	Minor corrections / clarifications / editorial changes; For details
	please refer to the Change Documentation.
Specification of	Several minor bugfixes
Service Discovery	Editorial changes
Specification of	Rollout of Runtime Errors
Socket Adaptor	Clarifications and corrections of requirements
	Editorial changes



Name	Specification history entry
Specification of	Bugfixes in serialization of strings and data with variable size
SOME/IP Transformer	Signatures improved
	• Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Specification of SPI	 SPI_E_SEQ_IN_PROCESS and SPI_E_SEQ_PENDING are
Handler/Driver	migra-ted to runtime errors
	 The notion of prearranged bus is removed to simplify the use
	 Modified or removed requirements: SWS_Spi_00135,
	SWS_Spi_00324, SWS_Spi_00039
	Restored requirement: SWS_Spi_00035
Specification of	Updated OSEK reference (editorial)
Standard Types	
Specification of SW-C	Updated traceability to SRS E2E.
End-to-End	 Fixed enumeration literals for E2E_PxxCheckStatusType for partiles 4 and 9
Communication	profiles 1 and 2.
Protection Library	 Corrected name of step E2E_SMClearProfileStatus to E2E_SMClearStatus in Routine E2E_SM_checkinit
	 Various clarifications in configuration and routine parameters,
	mainly of profile 2 and 7.
Specification of	Corrections and clarification on how to apply rate correction
Synchronized Time-	 Clarifications on Time Base Status and Time Leap behavior
Base Manager	 Additional minor corrections / clarifications / editorial changes;
	For details please refer to the ChangeDocumentation
Specification of	Clarifications and corrections of requirements
TCP/IP Stack	Editorial changes
Specification of Time	Changed TM_E_HARDWARE_TIMER to Runtime Error
Service	 Renamed "default error" to "development error"
Specification of Time	Minor corrections / clarifications / editorial changes; For details
Synchronization over	please refer to the ChangeDocumentation
CAN	
Specification of Time	 Clarification of handling of unexpected Sub-TLVs
Synchronization over	Clarification for configuration parameter
Ethernet	Clarification of handling FUP messages
Specification of Time	Minor corrections / clarifications / editorial changes; For details
Synchronization over	please refer to the ChangeDocumentation
FlexRay	
Specification of	Editorial changes in chapter 6 and 7.
Timing Extensions	
Specification of	 Replace Can_ReturnType with Std_ReturnType overlay
TTCAN Driver	Editorial changes
Specification of	 Replace Can_ReturnType with Std_ReturnType overlay
TTCAN Interface	Editorial changes
Specification of UDP	Node Detection Configuration per channel
Network Management	Det error handling corrected
	Bug fixes and editorial changes



Name	Specification history entry
Specification of	Editorial changes
Vehicle-2-X Basic	
Transport	
Specification of	Editorial changes
Vehicle-2-X Facilities	J J J J J J J J J J J J J J J J J J J
Specification of	Editorial changes
Vehicle-2-X Geo	J J J J J J J J J J J J J J J J J J J
Networking	
Specification of	Editorial changes
Vehicle-2-X	
Management	
Specification of	Minor corrections / clarifications / editorial changes; For details
Watchdog Driver	please refer to the ChangeDocumentation
Specification of	Renaming – default errors changed to development errors
Watchdog Interface	
Specification of	Correction in development errors.
Watchdog Manager	Renaming of default error to development errors.
Specification of	Editorial changes
Wireless Ethernet	
Driver	
Specification of	Editorial changes
Wireless Ethernet	
Transceiver Driver	
Specification on	Minor corrections / clarifications / editorial changes; For details
Ethernet Switch Driver	please refer to the ChangeDocumentation
Specification on	Clarification of timeout to monitor successful reception
SOME/IP Transport	Editorial changes
Protocol	
Specifications of	Minor corrections / clarifications / editorial changes; For details
Safety Extensions	please refer to the ChangeDocumentation
Standardization	Editorial changes
Template	
Supplementary	Extend description of FIX_AXIS
material of general	Include Mentioned Class Tables
blueprints for	
AUTOSAR	
SW-C and System	Editorial changes
Modeling Guide	
System Template	 Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
Technical Safety	Marked the document as obsolete
Concept Status	
Report	



Name	Specification history entry
Unique Names for	Editorial changes
Documentation,	
Measurement and	
Calibration: Modeling	
and Naming Aspects	
including Automatic	
Generation	
Utilization of Crypto	Editorial changes
Services	
Virtual Functional Bus	 Minor corrections / clarifications / editorial changes; For details
	please refer to the ChangeDocumentation
XML Schema	Minor corrections / clarifications / editorial changes; For details
Production Rules	please refer to the ChangeDocumentation

More specifications might have been changed, which are not listed here. Those specifications have then only "minor corrections, clarifications or editorial changes; for details please refer to the Change Documentation" [3].



7 Appendix

7.1 Definitions

As far as not explained in this chapter, a collection of AUTOSAR definitions is provided in 4.

7.1.1 Release number

AUTOSAR applies a two-digit numbering scheme Rx.y to identify Releases. Its primary purpose is to identify a Release as a major (upgrade, can contain non-backward-compatible extensions) or as minor (update, backward compatible extensions) Release. Referring to previous Releases (e.g. R2.0), incrementing the first digit "x" does identify a Release as major, whereas incrementing "y" will mark a Release as only minor by nature.

7.1.2 Revision number

The Revision Number was first time introduced with Release 2.1 and extends the Release Numbering scheme as explained in section 7.1.1. Combined with the Release Number, the Revision Number shall:

- 1) Precisely identify the actual content (set of specifications) of a given Release.
- As depicted in every specification, precisely identify a given specification (with its unique name and three-digit version ID) as being part of the Release.

Item 1) addresses the fact that the set of specifications comprising a Release (in the meaning of a baseline) is rarely established once at a certain point in time ("Big Bang"), but rather evolves and/or varies over a certain timeframe. The maximum duration, which is limited by the timeframe, a Release is declared as "valid" by the AUTOSAR Partnership (see section 7.1.3).

Hence with Item 1), a major prerequisite will be put in place to enable the Standard Maintenance as planned by the AUTOSAR Partnership. In general, the primary objective is to avoid the provision of an additional – previously not planned – Release in case only one or a few specifications were to be modified as part of the Standard Maintenance. Conversely, without the application of a Revision Number, if the AUTOSAR partnership wants to avoid the provision of (an) additional intermediate Release(s), one would have to defer the introduction of any changes until the next planned Release – even in case of changes urgently needed by the applicants of the AUTOSAR Standard.

Item 2) is complementary to Item 1) in that for every specification a unique identifier is provided upon which Revision a) a specification was either 1st time added to/removed from a Release or b) a specification was modified as being part of one and the same Release, as long the latter is valid and therefore subject to Standard Maintenance.



Hence with item 2), the combination of Release and Revision Number in a specification can be interpreted either as a) "specification was $(1^{st} time)$ added to the Release x.y Rev n" or b) as "specification was modified as part of Release x.y Rev m", with m > n.

Conversely, the Revision number will only change for specifications subject to addition or modification of a valid Release (baseline). After their 1st time addition to the Release (baseline), it will not change for specifications which are not modified.

In the light of the above provided background, as an additional remark, the Revision Number will only be applied for each specification's Release version, i.e. it will not be applied to working versions.

7.1.3 Release life cycle of a major release

Each major release goes through four consecutive steps within its lifecycle:

- 1. Development: Between start of life cycle and the initial release (e.g. R4.0.1)
- 2. Evolution: Following the initial release with zero, one or several minor releases and/or revisions (e.g. R4.0.2, R4.1.1)
- 3. Maintenance: No new contents is added to a major release but only maintenance of the existing content with zero, one or several revisions (e.g. R3.2.2) is provided
- 4. Issue Notice: No more revisions but zero, one or several issue notices, i.e. updates of the list of known issues until end of life cycle.

7.1.4 Specification item and requirement life cycle states

The life cycle state of a specification item is found after the specification item ID surrounded by curly brackets. The states are:

- **Valid**: This indicates that the related entity is a valid part of the document. This is the default.
- **Draft:** This indicates that the related entity is newly introduced but still experimental. This information is published but is subject to change without backward compatibility guarantee.
- **Obsolete:** This indicates that the related entity is obsolete and will be removed in the next release.

If there is no life cycle state information stated then the state is Valid.

The life cycle state of a requirement is found in the attribute "type". The states are the same as the specification item states.



7.1.5 History information in AUTOSAR

The following diagram shows where which changes are documented.

