BMW GROUP

Release Notes CodingClassic

Project	BMW AUTOSAR 4 Core Rel. 3
Author	BMW AG
Release Date	2017-12-14
Version	5.2.1
Status	Release
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Revision History

Version	Date	Issues
5.2.1	2017-12-14	BAC-6660, BAC-6704, BAC-6561, BAC-6585
5.2.0	2017-11-09	BAC-6434, BAC-6350
5.1.0	2017-10-12	BAC-6402
5.0.1	2017-09-14	BAC-6250, BAC-6239, BAC-6224, BAC-5170
5.0.0	2017-06-29	

1 Module Description

The Coding system consists of a Coding module that is part of the ECU application and the Coder. Almost in the same manner as the Bootloader programs the ROM of an ECU, the Coding module codes the NV memory of an ECU with vehicle specific data derived from the vehicle description document e.g. type key, extra equipment, country specifics, year of model/construction stage, additional comments or service upgrade options.

2 Revisions and Modifications

Revision 5.2.1 [Released]

Item	Description
CR ID:	BAC-6660
CR Headline:	Correct Misra- and Metric-violations
Description of Issues:	Correct Misra- and Metric-violations and compiler warnings.
Description of Changes:	Correct Misra- and Metric-violations and compiler warnings.
Changed Files:	src/Coding_UDSAdapter.c src/Coding_TimerAdapter.c generate/include/CodingClassic_Cfg.h.pgen template/include/Coding_MemMap.h.sample generate/meta/Coding_internal.arxml.pgen include/Coding_Assert.h generate/meta/Coding_ext_interfaces.arxml.pgen src/Coding_ErrMemAdapter.c src/Coding_CryptoAdapter.c doc/CodingClassic_RequirementsTable.pdf generate/include/CodingClassic_Version.h.pgen doc/CodingClassic_IntegrationManual.pdf generate/meta/Coding_interfaces.arxml.pgen doc/CodingClassic_UserManual.pdf
Compatibility:	

Item	Description
CR ID:	BAC-6704
CR Headline:	Activation of signature verification (RSA)
Description of Issues:	Changed Coding adapter to fit to the provided Crypto-Lib (RSA).
Description of Changes:	Changed Coding adapter to fit to the provided Crypto-Lib (RSA).
Changed Files:	src/Coding_CryptoAdapter.c
Compatibility:	

Item	Description
CR ID:	BAC-6561

Item	Description
CR Headline:	Wrong description of event mapping "Coding_TimerMain" in IntegrationManual
Description of Issues:	Fix description of event mapping "Coding_TimerMain" in Integration Manual.
Description of Changes:	Changed description from "Mode Switch Event" to "Timing Event".
Changed Files:	doc/CodingClassic_IntegrationManual.pdf
Compatibility:	

Item	Description
CR ID:	BAC-6585
CR Headline:	Rework Coding_paramdef.arxml
Description of Issues:	Add missing configuration parameters, provide human readable Coding function value input field and support tool based implementation type range check.
Description of Changes:	Added missing configuration parameters 'lowerlimit' and 'upperlimit'. Use choice container for supported implementation data types. Updated PAGe include files to convert human readable Coding function values to Coding internal machine code.
Changed Files:	doc/CodingClassic_IntegrationManual.pdf
Compatibility:	

Revision 5.2.0 [Released]

Item	Description
CR ID:	BAC-6434
CR Headline:	Schema of paramdefs, paramconfs and SWCDen should be AUTOSAR_4-3-0_STRICT_COMPACT.xsd
Description of Issues:	Schema of parameter definition files and SWCDs should be conform to AUTOSAR_4-3-0_STRICT_COMPACT.xsd.
Description of Changes:	Adapted parameter definition files and SWCDs to schema AUTOSAR_4-3-0_STRICT_COMPACT.
Changed Files:	cfgdesc/CodingClassic_paramdef.arxml
Compatibility:	

Item	Description
CR ID:	BAC-6350
CR Headline:	RoutineSignal Arrays must be configured with VARIABLE_LENGTH
Description of Issues:	Routine signal arrays must be configured with VARIABLE_LENGTH.
Description of Changes:	Coding generic has to support an additional function parameter 'dataLength' and Coding adapter has to support configuration with VARIABLE_LENGTH.
Changed Files:	src/Coding_UDSAdapter.c CMakeLists.txt generate/meta/Coding_ext_interfaces.arxml.pgen

Compatibility:	

Revision 5.1.0 [Released]

Item	Description
CR ID:	BAC-6402
CR Headline:	Activation of signature verification
Description of Issues:	Customize the function calls according to specification. Support the provided Crypto-Lib.
Description of Changes:	Removed unnecessary function call from Coding module. Changed Coding adapter to fit to the provided Crypto-Lib on one side and to fullfill the specification requirements on the other side.
Changed Files:	generate/meta/Coding_ext_interfaces.arxml.pgen generate/meta/Coding_internal.arxml.pgen src/Coding_CryptoAdapter.c
Compatibility:	

Revision 5.0.1 [Released]

Item	Description
CR ID:	BAC-6250
CR Headline:	CodingClassic_MemMap.h.sample should be Coding_MemMap.h.sample
Description of Issues:	Sample file has wrong file name.
Description of Changes:	Corrected file name.
Changed Files:	template/include/Coding_MemMap.h.sample
Compatibility:	

Item	Description
CR ID:	BAC-6239
CR Headline:	Improve requirements traceability
Description of Issues:	Improve generation of documents.
Description of Changes:	Replace special character and add reference information.
Changed Files:	doc/Coding_RequirementsTable.pdf
Compatibility:	

Item	Description
CR ID:	BAC-6224
CR Headline:	PublishedInformation of BMW modules is not modeled according to ASR4.2.2
Description of Issues:	Removed depricated ImplementationConfigClass from PublishedInformation and added ValueConfigClass instead.
Description of Changes:	File content was updated.
Changed Files:	cfgdesc/CodingClassic_paramdef.arxml
Compatibility:	

Item	Description
CR ID:	BAC-5170
CR Headline:	Modules paramdef violates TPS_ECUC_06004
Description of Issues:	AdminData filed in ECU configuration parameter definition is required.
Description of Changes:	Added missing AdminData field.
Changed Files:	cfgdesc/CodingClassic_paramdef.arxml
Compatibility:	

Revision 5.0.0 [Released]

Item	Description
CR ID:	
CR Headline:	Initial Release for SP2021
Description of Issues:	Initial Release for SP2021
Description of Changes:	Initial Release for SP2021
Changed Files:	
Compatibility:	