ETAS

RTA-BSW v3.2.0

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1 Introduction

1.1 Definitions and Abbreviations

Term/Abbreviation	Definition
BSW	AUTOSAR Basic Software module. AUTOSAR defines a comprehensive BSW architecture consisting of OS, RTE, service, interface and driver BSW modules that provide a device independent ECU abstraction to ASW and thus promote SWC reuse and relocation. See *Product Definition* for a list of AUTOSAR BSW modules.
EHI	ETAS Help Desk International
HW	Hardware
KIR	Known Issue Report – For severe Problem Reports which occur after a release, ETAS has introduced the Known Issue Report to inform affected customer immediately. The current Known Issues of former versions can be found on the ETAS website: http://www.etas.com/kir
PR	Problem Report
SW	Software

1.2 References

1. RTA-BSW User Guide, v3.2.0, ETAS GmbH
2. RTA-BSW Installation and Getting Started Guide, v3.2.0, ETAS GmbH
3. RTA-BSW Reference Guide v3.2.0, ETAS GmbH

1.3 Conventions

The following typographical conventions are used in this document:

Choose **File->Open**.	Menu commands are shown in boldface.
Click **OK**.	Buttons are shown in boldface.
Press <ENTER>.	Keyboard commands are shown in angled brackets.
The ‘Open File’ dialog box is displayed.	Names of program windows, dialog boxes, fields, etc. are shown in quotation marks.
Select the file *setup.exe*	Text in drop-down lists on the screen, program code, as well as path- and file names are shown in italics.
A *distribution* is always a one-dimensional table of sample points.	General emphasis and new terms are set in italics.

A distribution is always a one-dimensional

1.4 User Documentation

The RTA-BSW User documentation in PDF format can be found on the CD.

2 Product Definition

2.1 Functions at a Glance

This release of RTA-BSW supports the following features:

- Generate software modules compatible with AUTOSAR R4.2.2.
- Provide access to the following stacks, as controlled by license features:

  Common Bfx, ComStack, Compiler, Crc, Mfl, Mfx, Platform, Rba_ArxmlGen, Rba_DiagLib, Standard

  RTA-BASE BswM, Det, EcuM, StbM

  RTA-CAN CanIf, CanNm, CanSM, CanTp

  RTA-COM Com, ComM, IpduM, Nm, PduR, Rba_Trcv

  RTA-DIAG Dcm, Dem, Dlt, FiM, Rba_DemObdBasic

  RTA-ETH EthIf, EthSM, Rba_EthArp, Rba_EthAutoIp, Rba_EthDHCP, Rba_EthICMP, Rba_EthIPv4, Rba_EthTcp, Rba_EthUdp, Sd, SoAd, TcpIp, UdpNm

  RTA-FRAY FrIf, FrNm, FrSM, FrTp

  RTA-HWD(Can) CanTrcv

  RTA-HWD(Eth) EthSwt, EthSwt_Marvell_88Q5050, EthTrcv

  RTA-HWD(Fray) FrTrcv

  RTA-HWD(Lin) LinTrcv

  RTA-J1939 J1939Tp

  RTA-LIN LinIf, LinSM

  RTA-MEM Ea, Fee, MemIf, NvM, Rba_FeeFs1

  RTA-SAFE E2E, E2EXf, WdgIf, WdgM

  RTA-SEC CryIf, Crypto, Csm, Rba_CryptoBCL, Rba_CryptoHSM, SecOC

  RTA-XCP Xcp

- Generate BSW configuration as part of an EcuC value collection for the following modules:
  - CanIf, CanNM, CanSM, Com, ComM, IpduM, Nm, PduR (derived from an ISOLAR-AB import of DBC files)
  - Fee, MemIf, NvM
  - Dcm, Dem (derived from ISOLAR-AB import of ODX file)
  - FrIf, FrNm, FrSM (derived from ISOLAR-AB import of FIBEX file)
  - LinIf, LinSM (derived from ISOLAR-AB import of LDF files)

- Generate code for any correctly licensed module from a valid BSW configuration.
- Generate system configuration artefacts to allow the RTE to work with generated modules.

2.2 General Description

2.2.1 System Prerequisites

In order to use RTA-BSW ConfGen and CodeGen the system should be sufficient to use ISOLAR-AB.

Please refer to the relevant ISOLAR-AB Release Notes for the exact requirements.

2.2.2 Software Prerequisites

ISOLAR-AB	v5.0.1

2.3 Delivery

The software is delivered with an installation routine on a CD including RTA-BSW software, documentation, tools, utilities, and further information. All software documentation is available in the Portable Document Format (PDF), which requires Adobe® Reader®. The CD contains the following items:

- Product Installer

2.3.1 Used 3rd Party Software

None.

2.4 Installation

The RTA-BSW Installation and Getting Started Guide[2] describes how to install RTA-BSW and how to start using the product.

2.5 Licensing

RTA-BSW is protected by ETAS License Manager. You will need a valid license key in order to use RTA-BSW.

The RTA-BSW Installation and Getting Started Guide[2] describes how to obtain and activate licenses.

2.6 Compatibility

RTA-BSW ensures compatibility with the following other ETAS products and product versions.

Product	Version
ISOLAR-AB	v5.0.1
RTA-RTE	v6.5.0, v6.6.0, v6.7.1
RTA-OS	v5.5.11, v5.6.2, v5.6.4

3 Changes and Defects Fixed

3.1 RTA-BSW v3.2.0

3.1.1 New Features

The supported version for this release is AUTOSAR v4.2.2.

Integration of FlexRay package

- [BSWP-4996] Flexray Tp module (FrTp) support in RTA-BSW
- [BSWP-4991] Flexray NM (FrNm) support in RTA-BSW
- [BSWP-4990] FrTrcv module support in RTA-BSW
- [BSWP-4947] Flexray COM modules (FrIf, FrSM) support in RTA-BSW

Flexray support in Confgen

- [BSWP-5324] RTA-FRAY ConfGen support
- [BSWP-5576] FrTrcv ConfGen support
- [BSWP-5541] FrNm ConfGen support
- [BSWP-5540] FrTp ConfGen support

Plugin UI Redesign

- [BSWP-3877] CodeGen command line support

Support DEXT to ECUC conversion in ConfGen

- [BSWP-4801] RTA-DIAG ConfGen support

Plugin Bugs, Improvements and New Features

- [BSWP-3286] Enhance input validation to validate module configurations
- [BSWP-5817] Remove unused UI components from the CodeGen Launch Configuration
- [BSWP-5271] Handling the NullPointerException and the IndexOutOfBound errors generated by the CodeGen scripts
- [BSWP-5263] NullPointerException handling when the ECUC values contain null Definitions.
- [BSWP-5008] Error reporting for Null Evaluation enhancement
- [BSWP-4019] Displaying the complete set of ECUC values after CodeGen

3.1.2 Known Issues Resolved

Key	Summary
BSWP-4600	NullPointerException may be thrown when launch configuration “BundleName” does not match any bundle
BSWP-4604	Extra project natures can cause CodeGen to fail
BSWP-4933	NullPointerException being thrown during CodeGen for an imported project
BSWP-4644	Handle NullPointerException being thrown when launch configuration “BundleName” does not match any bundle
BSWP-4142	Error: ‘Print To Console Job’ has encountered a problem may occur during CodeGen
BSWP-4049	ConfGen generates an configuration for CanSM when it encounters multiple CAN channels that is not supported by CodeGen

4 Known Issues

4.1 Concurrent modification exception may occur during Post-Build

Key	BSWP-5133
Impact	This has no impact on CodeGen.
Workaround	Click “Okay” on the error message.

4.2 Pdu Reference is wrongly generated when there are 2 frames with name containing same string

Key	BSWP-5861
Impact	CodeGen cannot be done without manual fix in CanIf and Com configuration in Project_EcucValues.arxml. When running ConfGen again, the manual fix is override and lost.
Workaround	No workaround.

4.3 NullPointerException occasionally thrown during CodeGen

Key	BSWP-6047
Impact	Unlike in 3.1 the Project is not broken. Code is not generated. Issue is more likely to reoccur until project is reloaded
Workaround	Close and Reopen the Project

4.4 CodeGen fails silently when EcucModuleValidation errors are present

Key	BSWP-6097
Impact	User will not receive a pop-up notification that CodeGen has failed.
Workaround	Consult the Problems console

4.5 Copying a project does not update the associated launch configuration

Key	BSWP-6169
Impact	When copying a project, if that project has an existing launch configuration, the launch configuration associated with that project will not be updated to match the new project.
Workaround	Either, remove the copied launch configuration then create a new one for the copied project, or update the copied launch configuration to match the copied project.

4.6 BswM_Cfg_MRPEcuMRunReqType_tst definition and configuration do not match regarding the location of dataState_en and dataModeInitValue_en

Key	BSWP-6286
Impact	The mode request port is never triggered, even if the mode changed for this particular EcuM state.
Workaround	Use dataState_en definition (ECUM_STAT_APP_POST_RUN) as init value for mode if the value does not interfere.

4.7 MRP.c should refer to ECUM_STATE_APP_RUN and not RUN for parameter below when ModeRequestPort uses in Deferred mode

Key	BSWP-6287
Impact	Compilation issue because RUN and APPRUN are unknown
Workaround	Use BswMRequestProcessing mode BSWM_IMMEDIATE if possible when selecting BswMEcuMRUNRequestIndication as BswMModeRequestSource

4.8 The flag BswM_Prv_flgNewReqstProgress_b can stay set indefinitely in some cases

Key	BSWP-6288
Impact	All future requests and mode reports to BswM from other modules will be ignored.
Workaround	Define a BswMEcuMRUNRequestProtocolPort for every possible mode (RUN and POST_RUN)

4.9 FPL in CF_EOB should not be zero.

Key	Defect 1307
Failure	FrTp sends CF_EOB with FPL = 0. Sender transmits CF_EOB with FPL as 0 and waits for FC from receiver. Receiver on other side, discards this frame as FPL is 0 and waits for CF or CF_EOB. Both sender and receiver are waiting for FC and CF/CF_EOB respectively. Eventually timeout will occur and connection will terminate.
Impact	FrTp sends CF_EOB to inform the receiver that it should send a FC frame. Which means that there is still some data left to be sent from the sender side. Since connection terminates due to timeout, the remaining data cannot be transferred, giving rise to data loss.
Workaround	No workaround

4.10 Wrong id generated in the BswM_Cfg_MRP file for the end action Communication Allowed for the requested channel

Key	Defect 186
Failure	Wrong Id generated for RequestMode API as User Ids used for RequestMode API were not sorted for stable output and Hence the end action is not invoked.
Impact	Functional risk as wrong User Ids lead to not invoking of desired Action.
Workaround	No workaround

4.11 Weakness of Fee1.0 driver against resets

Key	Defect 228
Failure	An interruption like hardware reset during a page programming operation, could cause a page to be in an undefined state. The state of the page could be stable at one time and later become unstable, leading to different failure modes.
Impact	Following impacts could be seen due to an unstable page handling1. Latest values of a block are lost and driver falls back to old values,2. Complete block is lost (MEMIF_BLOCK_INCONSISTENT),3. Temporary read failures (block is read successfully in one drive cycle, then its lost and then seen again in next driving cycle),4. Unstable page is over programmed with data from another block, this block has a reduced life time (as the cells were not in erased state),5. In addition for Renesas controllers, there is a possibility of flash sequence error.Impact on FFI none for non-Renesas controllersFor Renesas controllers flash sequence errors might lead to a system-reset depending on the system-configuration - The Fls-component however requires that this reaction is deactivated)
Workaround	One possible workaround is that all critical blocks is configured as Redundant Blocks (workaround for complete data loss issue).Attention: Please do check for Defect [AR4x][Mem][rba_FeeFs1]: Redundant block might be left with only one copy after sector reorg (105855) when using redundant blocks.

4.12 CPU Trap when DISCONNECT is received while Xcp_EventChannel is running and Xcp_MainFunction and Xcp_EventChannel run on separate Cores or are preemptive

Key	Defect 251
Failure	Preconditions (one of them has to be satisfied to get the error)- Multicore-Usage MainFunction and the EventChannel are running on separate cores- Preemption-Usage MainFunction can interrupt the EventChannel-functionWhen during a running Xcp-Measurement (DAQ/S-TIM) a DISCONNECT-Command is sent to the ECU a trap may occur.Details of the failureA Disconnect-Command is received and triggers the Disconnect in the next MainFunction-call.The EventChannel-function is executed and during the execution it accesses the DAQ-List-configuration multiple times.The MainFunction now executes the Disconnect and removes the DAQ-List-configuration.The access to the DAQ-List-configuration in the EventChannel-function now uses a NULL-Pointer and raises a trap.(Alternatively the Transmit of the DAQ-List fails as the Transmit accesses a NULL-Pointer)
Impact	The ECU goes into trap.
Workaround	Do not allow the MainFunction to interrupt the EventChannel-function (do not use PREEMPTIVE tasks).Do not distribute the MainFunction and the EventChannel-calls over multiple cores.

4.13 Possible fall back to old data for redundant blocks

Key	Defect 2757
Failure	The defect fix (defect fix 106519) for handling of redundant block during sector reorganization fails to transfer the correct instance of the block under certain conditions. Instead of transferring latest valid copy, the driver transfers old copy.
Impact	There are 2 possible impacts because of this failure1. fall back to old data and2. when no valid copies found but a broken copy is found (valid header but invalid data), this broken copy is transferred to new sector -> leading to wastage of memory.Impact of this at the system level must be further analyzed based on the criticality of the data by respective applications.Impact on FFI none.
Workaround	Problem could be mitigated, if there is smooth shutdown i.e., when NvM_WriteAll() is triggered. This internally calls NvM Block maintenance and will create 2 copies again.

4.14 Fee_Init enters into an endless loop when the FeePollingMode disabled

Key	Defect 2934
Failure	Fee_init() enters into endless loop, if the polling mode is disabled by configuration.
Impact	Once Fee_Init enters into the endless loop, system never get completed with the initialization and it could possibly leads to watchdog (WDG) reset in the initialization. Specific Impact of this at the system level may vary system to system.Impact on FFI endless-loop during initialization / system is not availableAdditional Information on probability of occurrence1.Failure occurs if the Fee used without NvM or integrated with non RTA-BSW NvM and2. FeePollingMode is set to FALSESince all the projects uses NvM, this problem would not been seen. Also, if any project has this configuration, then the software will never start successfully and hence the problem will be easily identified. So far no projects have reported any such problem, so the probability of occurrence is low.
Workaround	Always enable FeePollingMode

4.15 Missing spinlock protection leads to improper behavior

Key	Defect 2935
Failure	Missing spinlock protection for the shared internal global variables leads to inconsistent data handling in Fee1.0.
Impact	When there is an interruption in particular time window of Fee_MainFunction() execution and during this time an API is called, could lead to any of the following misbehavior1. Requested NVM job get rejected (operation is not performed) and/or2. Wrong return value in case of FEE_RB_INVALIDATE_MODE_E, FEE_RB_WRITE_MODE_E and FEE_RB_MAINTAIN_MODE_E (i.e., Defect 48013 / Err5198 is still present)Impact on FFI noneAdditional Information on probability of occurrenceFor the failure Requested NVM job is rejected All the following scenarios have to occur for the problem to occur1.Fee_MainFunction() execution is interrupted in critical window. The critical window is only once per request (the very last step) and its about 8 C instructions + 1 function call execution time (typically in range of few nano second (ns))* and2.During this critical window, Fee_GetJobResult() API is called (via MemIf_GetJobResult() call) and3.There is at least 2 calls of NvM_MainFunction() before Fee_MainFunction() is resumed (in the first call the results are processed and in the second call a new request is placed) and4.There is a new job request placed.For the failure incorrect return value is returned for Write, Invalidate and Maintain APIs()1.Fee_MainFunction() execution is interrupted in critical window. The critical window is only once per request (the very last step) and its about 2 C instructions execution time (typically in range of few ns) and2.During this critical window, Fee_GetJobResult() API is called (via MemIf_GetJobResult() call)As seen above the error window is very small and the problem comes up only when the API to check the job result is called in this window. Also, more often then not both the NvM and Fee are scheduled in same raster, so the probability of occurrence is low.
Workaround	Schedule NvM and Fee mainfunctions in same tasks in same core

4.16 Array OOB access and data is always stored for Robustness activated block

Key	Defect 2936
Failure	The length of the Robustness activated block (FeeRbRobustness set to TRUE) is not handled correctly during internal flow of the driver.
Impact	Due to the faulty implementation following 2 impacts could be seen1. Out of bound (OOB) access in the user buffer (as 4 bytes more are compared) -> further impact of OOB access must be checked in application user buffer and/or2. As a result the block may be written to DFLASH even when there is no change in the data.Impact on FFIno impact on RAM data (OOB is only reading data), OOB access might cause an exception (potentially followed by a reset, depending on project-setting)) if the buffer is at the end of a memory or MPU regionNote project is not affected if all blocks have FeeRbRobustness=FALSE (that is the default)Additional Information on probability of occurrenceError would occur when the block is written with same data.As far as we know, Robustness feature is only used by ENVRAM block in projects that use DGS EEP adapter layer software. This block is written once in every shutdown and have data changes in every drive cycle, so the buggy software will not be reached. Hence, probability is low.
Workaround	If affected:- Write the block with different data- OR Locate buffer with 4bytes margin to MPU/memory-region end

4.17 Incorrect handling when block length is increased by 4 bytes but Fee index is same

Key	Defect 2937
Failure	Fee driver is not robust when block length is increased by 4 bytes but the fee index (Persistant ID) is same i.e., when old block in DFLASH has length x and new block in PFLASH has length (x + 4) bytes.
Impact	During a write of such a new block following failures could be seen1. Partial data is stored -> Only x bytes are stored i.e., last 4 bytes are not stored (Since the length is also stored to x, so validation after write will also be successful) and2. Block may not be stored when the first x bytes data are same but last 4 bytes are different i.e., write job is returned as successful but there is no write performed.Impact on FFI noneAdditional Information on probability of occurrenceError would occur when the fee index is manually configured (via NvMRbBlockPersistentId) and block length (NvMNvBlockLength) is increased by 4 bytes when compared to old software.Most project uses automatic generation of Fee index, so any change in length will result in new fee index and problem would not be seen. So the probability of issue occurrence is low.
Workaround	Do not set fee index manually. If set manually, ensure that new fee index is used when the length is changed.

4.18 Possible block loss or fallback to older data due to OOB access of block properties table

Key	Defect 2938
Failure	There could be out of bound (OOB) access of the internal block properties array when survival feature is enabled (FeeRbActSurvivalEval = TRUE) and a corrupted unknown block is found.
Impact	Depending on the contents of the OOB location and state of DFLASH following possible impacts could occur1. Block loss - if the header not found before the present address and/or2. Fallback to older data - if the unknown block with inconsistent data identified from the current address and valid header found only from the old valueImpact on FFI on RAM none,DFLASH OOB access to data might cause an exception (potentially followed by a reset, depending on project-setting))Additional Information on probability of occurrenceProblem occurs when all of the below conditions are fulfilled1.the survival feature is enabled (FeeRbActSurvivalEval = TRUE) and2.the contents of OOB location has valid fee index (= FEE_NUM_BLOCKS/MAXUINT16) and3.a corrupt unknown block is found -> for Fee versions >= AR40.7.x.x, this could occur only when there is either a hardware failure or user changes the buffer contents when write request is placed (leading to unstable copies in DFLASH)** For versions < AR40.7.x.x, incorrect DFLASH copies can also be created via interruption during programming operation (where header is fully programmed but only partial data was programmed).For latest version, the problem comes up when there is a corrupt copy in DFLASH. This could occur only when there are bit flips i.e., hardware failure. This is part of the overall device failure rate which is covered in an agreement with controller supplier. Hence, the probability of error occurrence is low.
Workaround	Disable partial afterburner

4.19 Incorrect handling of Blocks with length greater than 65521 bytes on IFX Dev4

Key	Defect 2939
Failure	Incorrect handling of Blocks with length greater than 65521 bytes on the devices which have sectors more than 64KB and using Fee 1.0Note1. By design Fee 1.0 does not support blocks with absolute block length (Actual data size + Block header + Page alignment) > sector size. There is a BCT error when the absolute block length > sector size.2. Of the current supported devices, only IFX dev4 has logical sectors of 128KB, all other devices have maximum 64KB only. Hence it will leads to a BCT error when such a block is configured for devices other than IFX Dev4.
Impact	Following problem could be seen for 64k blocks1. block is not fully transferred during reorganization -> leading to block loss,2. comparison before writing fails leading to block being written even when there is no change in data -memory wastage.Impact on FFInoneAdditional Information on probability of occurrenceProjects using the device IFX dev4 with Fee 1.0and configured block size > 65521 Bytes (very unlikely)
Workaround	Do not configure data blocks > 65521 bytes

4.20 Incomplete fix for HSR issue (Errata 5195/Defect 48012)

Key	Defect 2940
Failure	There are some theoretical use cases where fix for HSR bug (Errata 5195/Defect 48012) is not complete (HSR=hard sector reorganization).
Impact	Depending on the project configuration following impacts could be seen1. Software is stuck and never comes out of reorganization and/or2. Exception could occur due to access of non existent memory location (OOP) and/or3. Data loss or fall back to old data for projects using controllers other then Renesas controllersImpact on FFI OOB access might lead to an exception (and in consequence a reset, dependent on project) ifAdditonal infomation Probability of occuranceThis issue occurs only under a highly unstable environment, where reorganization is interrupted multiple times. The problem was only seen in lab when the driver was subjected to extreme tests (Continous resets were triggered at high frequency and tests were run for days). So the chances that such an issue occurs is extremly low.The details on the different scenario which leads to the above impact and their workarounds are explained here (CCPSCodeReviewFeeDefects.pptx - page no. 11).
Workaround	No workaround

4.21 Incorrect handling during hardware failure

Key	Defect 2941
Failure	Fee driver is not robust against hardware failure at all instances.
Impact	Depending on where the hardware failure occurred, any of the following impact could be seen1.When there is hardware failure (page could not be programmed) during write of 2nd copy, it could happen that the block is not stored twice,2.When erase operation during sector reorganization fails (sector could not be erased), driver is stuck in an endless state doing nothing (no success or failed reported) in the current drive cycle.Impact on FFInoneAdditional Information on probability of occurrenceEach error has a slightly different probability of occurrence. But the most important thing to occur for all the failures is a hardware failure.This is part of the overall device failure rate which is covered in an agreement with controller supplier. Hence, the probability of error occurrence is low.
Workaround	No workaround

4.22 Possible fallback to old data for No fallback activated blocks during hardware failure

Key	Defect 2942
Failure	Old block may not be invalidated when maintain block request is triggered for No fall back configured block.
Impact	Possible to fall back to old values when latest values are lost due to hardware error.Impact on FFI noneAdditional Information on probability of occurrenceProblem would occur when all the following conditions are satisfied1. Only redundant blocks with no fall back feature activated blocks are impacted,2. There are 2 copies of this block in DFLASH which has different values i.e., there was an interruption during writing of previous write operation,3. When maintain request is triggered, current sector has lesser then 2 or no free page and4. The latest 2 valid copies of the block are lost due to hardware failures.The problem comes up when the copy in DFLASH is corrupted. This could occur only when there are bit flips i.e., hardware failure. This is part of the overall device failure rate which is covered in an agreement with controller supplier. Hence, the probability of error occurrence is low.
Workaround	No workaround

4.23 Incorrect scan of headers beyond sector header area

Key	Defect 2943
Failure	Driver scans first 13 logical pages of the sector for sector header information, instead of 12 pages only.
Impact	Depending on what is found in the 13th page (i.e., data area) following impact could be seen for worst case scenario (when the complete sector is filled up in one drive cycle and the effect is seen only after 1 or more sectors have been filled)Valid Erase or Used or Full markerSector change counter could extracted from this marker. If sector change counter is more then actual marker, the sectors could be resorted, leading to1. Increase in sector change counter value,2. sectors being re-erased (after sorting),3. fall back to old data,4. data loss for overlap blocks,5. complete sector might be left un-programmed - wastage of memory (though there wont be any ghost issue as blank check is performed for 4th header page).Valid Start markerIncorrect identification of next free page in non Renesas controllers leading to possible over programming.Valid Erase request markersector would be erased -> loss of data and/or fall back to old values.Impact on FFI noneAdditional Information on probability of occurrenceProblem would occur when the data of the block looks like a marker. For this to happen all of the following must match1. First 16 byte of a page has value 0xCAFE, Ex. Assuming all data combinations to have equal probability = 1/2^16 = 15.258ppm2. Next 1 byte has a value between 0x01 to 0x06, Ex. Assuming all data combinations to have equal probability = 6/2^8 = 0.02343753. The 16bit CRC matches i.e., page is identified as valid header. Ex. Assuming all CRC values are possible with equal probability = 1/2^16= 15.258ppmEx. Total probability for any impact to be seen = 15.258ppm * 0.0234375* 15.258ppm = 5.45E-12
Workaround	No workaround

4.24 Possible trap when data matches to preamble value

Key	Defect 2944
Failure	During a boundary condition, when the user data matches the preamble (preamble is a fixed pattern used to identify start of the block in the DFLASH), the Fast cache initialization operation could lead to an access of non existent flash memory location (OOP).
Impact	The ECU is accessing a non-existing memory location (read access) - this could lead to an exception (followed by a reset, depending on the project configuration). In that case, this would lead to repetitive resets and the system will never come out of initialization.
Workaround	No workaround

4.25 Multiple Tester is not supported for RDPI service.

Key	Defect 3130
Failure	Error is raised during validation phase. dcmDslProtocolIsParallelExecutab is removed in AR42 versions but is still used in one of the validation script. Applicable only for AR42 implementationAffected Service ReadDataByPeriodicIdentifier (0x2A)
Impact	CodeGen will be unsuccessful due to validation error
Workaround	No workaround

4.26 DCM General reject after 255 responses pending

Key	Defect 3140
Failure	If DcmDslDiagRespMaxNumRespPen = 255, DCM shall send continuous pending responses, but in current implementation after getting 255 times pending response, DCM is sending general reject and then service is getting cancelled .Service / ConfigurationsDcmDslDiagRespMaxNumRespPend = 255
Impact	Any Service that takes longer for execution doesn’t get completed and gets cancelledExample When executing the Erase-Routine in the bootloader which erases whole ROM blocks is not executed fully since erase process gets cancelled.
Workaround	During testing, this issue can be detected easily by executing the test case corresponding to the mentioned requirement and hence will not go undetected.

4.27 issues with Cancel operation on application interfaces using AsynchronousServerCallPoint

Key	Defect 3152
Failure	For asynchronous server communication (Interface type = AsynchronousServerCallPoint) the DCM provides a buffer to the application. This buffer is used by the application to store data asynchronously.In case of protocol preemption (running request in DCM is cancelled), there is no mechanism defined, how to request the application (asynchronous server) to terminate its operation and using the buffer.When the next request is received, the same buffer is used for the new request. As the running application (asynchronous server) is not stoppable, it might overwrite the data of the new request in buffer.
Impact	The desired operation of protocol preemption does not work properlyDue to this, the tester gets incorrect data.
Workaround	No workaround

4.28 Generated Flatview collides with the one from the product line

Key	Defect 3163
Failure	Dcm generates a Dcm_Ecuflatview_Connectors_Cfg_Swcd.arxml (in AR40 dcm_swc_ecuflatview_connectors.arxml) via OAW, which contains a composition called EcuFlatView but with a different path than the one generated by the ISOLAR perspective.Affected ConfigurationsIf the configuration contains Dids withDcmDspDataUsePort == "USE_DATA_SENDER_RECEIVER" and a valid reference to a DcmDspExternalSRDataElementClasssee also defect 140129
Impact	RTE error, as integrator wants to configure differently and a mismatch between paths occurs.
Workaround	No workaround

4.29 Generated Flatview collides with the one from the product line

Key	Defect 3193
Failure	Dcm generates a Dcm_Ecuflatview_Connectors_Cfg_Swcd.arxml (in AR40 dcm_swc_ecuflatview_connectors.arxml) via OAW, which contains a composition called EcuFlatView but with a different path than the one generated by the ISOLAR perspective.Affected ConfigurationsIf the configuration contains Dids withDcmDspDataUsePort == "USE_DATA_SENDER_RECEIVER" and a valid reference to a DcmDspExternalSRDataElementClasssee defect 139330
Impact	RTE error, as integrator wants to configure differently and a mismatch between paths occurs.
Workaround	No workaround

4.30 Dcm_CC_ActiveSession_u8 bring compile error 2

Key	Defect 3248
Failure	Incorrect memory mapping of the variable Dcm_CC_ActiveSession_u8 results in this compilation error in DGS build chain.During declaration the variable Dcm_CC_ActiveSession_u8 is mapped under DCM_START_SEC_VAR_CLEARED_8 memory sectionBut during the Extern declaration , the same variable is mapped under DCM_START_SEC_VAR_CLEARED_UNSPECIFIEDmemory section.
Impact	Compilation error in DGS build chain
Workaround	No workaround.

4.31 Service 0x19 05 responds with wrong data if no records are available

Key	Defect 3285
Failure	When ReadDTCInformation (0x19) Service with sub-function 0x05 (reportDTCStoredDataByRecordNumber) is requested to send all DTCStoredDataRecordNumber data, and if there is no data in any record number - Dcm responds with positive response, and then all record numbers without data in ascending order. The expected answer in this case according to UDS spec would be - requested record number mirrored back to the tester, no data given.Affected Service ReadDTCInformation (0x19),sub-function = 0x05 reportDTCStoredDataByRecordNumber ,DTCStoredDataRecordNumber = 0xFF (0x19 05 FF)
Impact	Tester will be misguided with wrong data.
Workaround	No workaround.

4.32 EIRA and ERA is not calculated when CanNmAllNmMsgsKeepAwake is TRUE

Key	Defect 3310
Failure	With above configuration, EIRA and ERA is not calculated even if partial network information is received.
Impact	The updated EIRA and ERA information shall not be passed to COM module, hence PN will always stay in No Communication mode. Further impact needs to be analyzed by the product line.
Workaround	It can be checked in projects, if the Rx Indication handling is really needed for every NM PDU.If it is only required for NM PDUs where the PNI bit is set as True and that contain a PN request for this ECU, CanNmAllNmMsgsKeepAwake can be set as false and the issue will not happen.

4.33 Immediate requests delayed during processing of delayed requests not serviced.

Key	Defect 3603
Failure	Mode requests comes to BswM when it is already processing delayed mode requests are not processed immediately.
Impact	Impact is minimal because the above failure scenario will be caught during integration testing, even before the defect leaks to the OEM/Field.During the processing of delayed requests, if further requests are added to the interrupt queue variable BswM_Prv_IntrptQueue_ast, then these requests are not processed immediately. They are only processed during the next call to delayed requests processing function.
Workaround	No workaround

4.34 CanTp is ignoring the Frame when Data Length is more than 65535 bytes

Key	Defect 3605
Failure	Whenever Data is sent within multiple Frames, the first frame will include the total size of data. CanTP currently only accepts data sizes up to 0xFFFF. Any data with Datalength of more than 65535 bytes will be ignored by CanTP.
Impact	The frame which is to be received is ignored hence resulting in communication loss / data loss between lower layers and application.
Workaround	No workaround

4.35 Compilation error is given when Application implementation of Communication Control(0x28) service function interpreter is configured in DsdService table under DcmDsdSidTabFnc

Key	Defect 3606
Failure	The Extern declaration of the function DcmAppl_UserCommCtrlReEnableModeRuleService is not available but still being used in function due to which there is compiler error. Affected ServiceCommunicationControl(0x28)
Impact	The compilation will fail in projects when tries to use the function without declaration.
Workaround	No workaround

4.36 Inconsistent PDUR ID between ComM and BswM

Key	Defect 3609
Failure	Symbolic naming convention mismatch between ComM and BswM,The value of the Parameter ComMPduRId from BswM should be fetched from the symbolic names. Instead it is accessing ComMPduRId directly. This is making the PduRId Invalid between BswM and ComM ,due to that ComMPduRId is not compatible with BswM.
Impact	Impact is minimal, because the possible failure scenarios (given below) will always be caught during integration testing, even before the defect leaks to the OEM/Field.1) PduRID =0 If PduR_EnableRouting() is called with PduRID = 0, then the “DET” Error will be thrown for invalid ID of 0 during Integration Testing.2) PduRID > 0 If PduR_EnableRouting() is called with PduRID > 0, then the wrong PduR group is Enabled for routing.
Workaround	No workaround

4.37 Inconsistent PncId between ComM and BswM

Key	Defect 3614
Failure	PncId handling inconsistent between BswM and ComM, due to that BswM_ComM_CurrentPNCMode function is generate wrong output.
Impact	Impact is in BswM_ComM_CurrentPNCMode(VAR(PNCHandleType, AUTOMATIC) PNC, VAR(ComM_PncModeType, AUTOMATIC) CurrentPncMode)The value of the Parameter PNC should be fetched from the symbolic names generated inComM. Instead BswM is accessing ComMPncId directly, which is making the PncId Invalid for BswM_ComM_CurrentPNCMode api .Due to this Configured ComMPNC action i.e,BswM_ComM_CurrentPNCMode never gets executed.
Workaround	No workaround

4.38 Compiler error in file BswM_Cfg_AC.c for Mingw compiler

Key	Defect 3651
Failure	Compiler error in file BswM_Cfg_AC.c for Mingw compilerWarning detailsEnumerated type mixed with another type
Impact	Configured BswMSdClientServiceModeRequest service action is referring with another services, due to this expected service action is not executed.
Workaround	No workaround

4.39 Metadata of Direct Tx-NPdus are not containing the PGN in case of PDU2 format

Key	Defect 3652
Failure	In J1939Tp MetaData information is taken over from the upper layer. J1939Tp is not adding PGN information into the Metadata of a Direct PG. Direct Tx-Npdus for PDU1 and PDU2 Format require different handling; PDU1 Format has a DA (Destination Address) whereas, PDU2 Format has a GE (Group Extension = lower Byte of the PGN) Metadata of Direct Tx-NPdus are not containing the PGN (Parameter Group Number) in case of PDU2 format. This only affects configurations when of J1939TpMetaDataSupport == TRUE
Impact	CAN-Identifier of a Direct PG (Parameter Group) in AUTOSAR J1939Tp are based on MetaData Information of the Tx-Npdu. When MetaData are used as a CAN Identifier - without masking - in CanIf the CAN-Identifier of a Direct PG in PDU2 format is not correct. As a consequence, messages are lost.
Workaround	No Workaround

4.40 J1939Tp Data transmission with 255 packets is failing with BAM and CMDT

Key	Defect 3661
Failure	J1939Tp data transmission with 255 packets is failing with BAM (Broadcast Announce Message) and CMDT (Connection Management Data Transfer)Tx-Abort-Flag is set erroneously in case of TP.DT transmissions.This error has no effect for messages <= 1785 data bytes (<= 254 data packets). This affects configurations when J1939TpMetaDataSupport == TRUE and when transmitting messages with 255 data packets. (> 1785 data bytes)
Impact	The last TP.DT data packet (with packet number 255) has a wrong PGN in the MetaData of the TxNpdu.In case MetaData are used as a CAN Identifier - without masking - in CanIf the last TP.DT (with PGN 0x00EB00) will be send as TP.CM (with PGN 0x00EC00)Sender and receiver will abort due to a timeout.
Workaround	No Workaround

4.41 Validation error is reported when Os counter has fractions of nanoseconds

Key	Defect 3798
Failure	In case a timebase is referring an OS counter as Local Time Reference, a validation check will fail if the tick duration of the referred counter has fractions of nanoseconds. E.g. a 80Mhz Counter will lead to this issue as it has a tick duration of 12.5ns. A 50Mhz counter with 20ns tick duration will not lead to that failure. (tick duration = 1/frequency)).
Impact	Validation Error is thrown “Please configure frequency and prescalar for the timebase in accordance with the counter’s OsSecondsPerTick. (OsSecondsPerTick = Prescalar/Frequency)in seconds”. CodeGen will therefore break.
Workaround	No workaround

4.42 No validation error given when CanTpRxNPdu, CanTpRxFcNPdu, CanTpTxNPdu and CanTpTxFcNPdu shortnames are not unique

Key	Defect 3800
Failure	In CanTp configuration model (paramdef) following containers are located inside the containers CanTpRxNSdu and CanTpTxNSduCanTpRxNPduCanTpRxFcNPduCanTpTxNPduCanTpTxFcNPduAll of the 4 above containers shall get an symbolic name generated (following the AR naming schema <module>Conf_<ContainerName>_<ContainerShortname>)As the containers CanTpRxNSdu and CanTpTxNSdu are having an upper multiplicity bigger then 1, the containers are avilable multiple times in different contexts.E.g.CanTpRxNSdu.shortname=”SDU0” –> CanTpRxNPdu.shortname=”ABC_PDU”CanTpRxNSdu.shortname=”SDU1” –> CanTpRxNPdu.shortname=”ABC_PDU”Both containers are having the same shortname.Following the naming schema, the identical symbolic names will be derived.The current implementation is detecting the situation and only generating one define. But this might result in a wrong value usage for a the symbolic define.Pdus which have different PduReferences but same Shortname will be combined and one single ID will be generated.
Impact	This will cause a problem in communication since 1 Pdu reference is completely ignored. The Pdu state might be wrong and no transmission or reception will be performed.
Workaround	No workaround

4.43 Missing #endif section for corresponding #ifndef in EcuM_Cfg_MemMap_h.tpl template file

Key	Defect 3820
Failure	In the EcuM_Cfg_Memmap.h_tpl file, the ifndef ECUM_CFG_MEMMAP_H is defined but the the corresponding #undef ECUM_CFG_MEMMAP_H and #endif sections are not defined
Impact	Compilation error occurs in the project stand when using the template file as the corresponding codes for ifndef ECUM_CFG_MEMMAP_H are missing
Workaround	Define the necessary #undef ECUM_CFG_MEMMAP_H and #endif sections.

4.44 Incorrect handling of return value in IpduM_Transmit api.

Key	Defect 3824
Failure	Unintended return value(E_NOT_OK) is provided to upper layer during IpduM_Transmit api.
Impact	Upper layer might stop further transmission of a pdu due to incorrect return statement from IpduM_Transmit api,(e.g SecOc). Along with IpduM, upper layer modules also would retry transmission of such Pdu leading to undesired behavior of the software.
Workaround	No workaround

4.45 Reentrancy information is incorrect for the API's StbM_GetVersionInfo and StbM_GetTimeBaseStatus in StbM_BSWMD.arxml

Key	Defect 3863
Failure	Reentrancy information is incorrect for the API's StbM_GetVersionInfo and StbM_GetTimeBaseStatus in StbM_BSWMD.arxml. For StbM_GetVersionInfo and StbM_GetTimeBaseStatus the Reentrancy is mentioned as being Non-reentrant, but both APIs are Reentrant.
Impact	Reentrancy information is incorrect in the documentation for both APIs .
Workaround	No workaround

4.46 Compilation error is given when Application implementation of ControlDTCSetting(0x85) service function interpreter is configured in DsdService table under DcmDsdSidTabFnc

Key	Defect 3868
Failure	Extern declaration of the function 'DcmAppl_UserDTCSettingEnableModeRuleService' is not available but still being used in function due to which there is the compiler error: Compiler Error 'DcmAppl_UserDTCSettingEnableModeRuleService' was not declared in this scope. Extern declarations of the functions 'DcmAppl_UserMemoryRangeModeRuleService' and 'DcmAppl_UserRIDModeRuleService' are not available but still being used due to which there are compiler errors. Compiler Errors: "'DcmAppl_UserMemoryRangeModeRuleService' was not declared in this scope", "'DcmAppl_UserRIDModeRuleService' was not declared in this scope".
Impact	This error only occurs when the parameter DcmDsdSidTabFncis configured with a name other than the RTA-BSW implemented name(For eg Dcm_DcmControlDTCSetting, in this case) Affected ServiceControlDTCSetting(0x85), ReadMemoryByAddress (0x23), WriteMemoryByAddress (0x3D) and RoutineControl (0x31)Configuration Parameter DcmDsdSidTabFnc. In this case the compilation will fail.
Workaround	No workaround

4.47 SD might transmit Offer Service without endpoint options

Key	Defect 3870
Failure	If SD Transmit buffer is almost full and new options needs to be filled for this for the Offer Service then it might happen that this Offer Service do not have EndPoint associated with it.
Impact	Remote Client ECU will drop this Offer Service and it will not be able to able to establish communication with Server ECU.
Workaround	No workaround

4.48 If SD receives SubscribeEventgroupNack and TCP data path is configured for this EventGroup then sockets will be closed and will never get open.

Key	Defect 3871
Failure	If SoAd API SoAd_OpenSoCon is called only once for TCP socket connection then Client receives SubscribeEventgroupNack as a response to SubscribeEventgroup and API SoAd_CloseSoCon is called then SoAd_OpenSoCon will not get called again when next OfferService is received from the server.
Impact	Client Method will not be able to communicate to Remote Application and ConsumedEventGroup will be able to send the SubscribeEventgroup messageHence Communication between Client and Server Applications will stop.
Workaround	No Workaround

4.49 NONEST lock is used instead of COMMON Lock in template file leads to Reset

Key	Defect 3875
Failure	In template LinIf_Cfg_SchM.h_tpl, if the user configures SchM_Enter_LinIf_CheckWakeup_LockNest() lock to NONEST, LinIf_CheckWakeup() calls Lin_CheckWakeup() that leads to nested locks.
Impact	During CheckWakeup sequence nested locks lead to software reset.
Workaround	In template, LinIf_Cfg_SchM.h_tpl, rename the NONEST Lock to COMMON lock as mentioned below. #define SchM_Enter_LinIf_CheckWakeup_LockNest() RBA_BSWSRV_GET_LOCK_COMMON(&LinIf_Lock_st)#define SchM_Exit_LinIf_CheckWakeup_LockNest() RBA_BSWSRV_RELEASE_LOCK_COMMON(&LinIf_Loc

4.50 Issue with ReadDataByIdentifier Response when Paged Buffer is Enabled

Key	Defect 3897
Failure	For the service ReadDataByIdentifier, when the functions Dcm_GetDIDData or Dcm_GetPagedDIDData are returning DCM_E_PENDING in the first Dcm main cycle, the pending flag (Dcm_Pending_DIDData_b) is not updated to TRUE. Now when the the API returns E_OK in next main cycle, then the service responds with positive response but the did and data in the targetbuffer are shifted by 3 bytes.
Impact	Tester will get wrong sequence of data for a positive response which is received after a pending response. As a result the function may write data outside of the provided buffer, which means memory corruption.
Workaround	No workaround

4.51 Mismatch between NvM Block length and EcuM structure size

Key	Defect 3898
Failure	Wrong size is forwarded to NvM for ECUM_CFG_NVM_BLOCK. So incorrect data might be read/written during NvM read/write operations.
Impact	When the forwarded size is less than the actual structure size, then during an NvM write operation the last bytes of data will not be written in NvM. When the forwarded size is greater than the actual structure size then there is a possibility of RAM buffer corruption during NvM read operations. As a result the EcuM Interface EcuM_Rb_GetLastShutdownInfo may return wrong data.
Workaround	No workaround

4.52 DCM_DSP_SID_DIAGNOSTICSESSIONCONTROL and DCM_DSP_SID_ECURESET give undefined error in DcmCore_DslDsd_BootLoader.c if UDS is not configured

Key	Defect 4631
Failure	DCM_DSP_SID_DIAGNOSTICSESSIONCONTROL and DCM_DSP_SID_ECURESET give undefined error in DcmCore_DslDsd_BootLoader.c if UDS is not configured.
Impact	Compilation error which will result in build failure.
Workaround	No workaround

4.53 Incorrect macro using in CanSM_DeInitPnSupported()

Key	Defect 4705
Failure	After CanSm_Init() is invoked, in the first main function call, CanSM_DeInitPnSupported() API will be invoked when PN is enbled. While executing the state machine of NO_COM, when Controller is requested to be Stopped state and the mode indication for the same is not obtained immediately then the CanSM_PreNoCom_Substates would be updated to CANSM_S_PN_CC_STOPPED_WAIT. In the next main function call when CanSM_DeInitPnSupported() API is invoked again, now assuming that the mode indication is obtained, the CanSM_PreNoCom_Substates is now updated to CANSM_S_TRCV_NORMAL. There is no state transition available from CANSM_S_TRCV_NORMAL in CanSM_DeInitPnSupported().
Impact	The Network will not be initialized.
Workaround	No Workaround

4.54 Validation error message displayed is incorrect while checking the NmComM-ChannelRef for the Channels.

Key	Defect 4714
Failure	Incorrect message displayed to the user as below “ComM channel,” + short-Name + “has ComMNmVariant as ‘LIGHT’ or ‘NONE’, but this channel is re-ferred by Nm” - When NmVariant “FULL” or “PASSIVE” .”ComM channel,” + shortName + “has ComMNmVariant as ‘FULL’ or ‘PASSIVE’, but this channel is referred by multiple NmChannels” - When NmVariant ‘LIGHT’ or ‘NONE’.
Impact	No Functional Impact, but message displayed for the NmVariant “FULL” or “PASSIVE” and NmVariant ‘LIGHT’ or ‘NONE’ is reversed
Workaround	No workaround

5 Hotfix Information

No hotfixes for RTA-BSW v3.2.0 are available at this time.

6 Contact, Support and Problem Reporting

6.1 ETAS HQ

ETAS GmbH Borsigstraße 24 70469 Stuttgart Germany	Phone:	+49 711 3423-0
	Fax:	+49 711 3423-2106
	WWW:	www.etas.com

6.2 ETAS Subsidiaries and Technical Support

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the ETAS website:

ETAS subsidiaries	WWW:	www.etas.com/en/contact.php
ETAS technical support	WWW:	www.etas.com/en/hotlines.php

6.2.1 RTA Hotline

The RTA hotline is available to all RTA users with a valid support contract.

- rta.hotline.uk@etas.com
- +44 (0)1904 562624. (0900-1730 GMT/BST)

Please provide support with the following information:

- Your support contract number.
- Your AUTOSAR XML and/or OS configuration files.
- Reproduction steps that result in an error message.
- The version of the ETAS tools you are using.