# Issue Report

**VECTOR** >

| License Number | Customer |
|---|---|
| CBD1800284 | Nexteer Automotive Corporation<br>Package: FBL Fca SLP5 - the company Nexteer<br>Automotive company with Full RScan |

**Maintenance Expiry Date**

2018-09-01

**SIP Version**

20.07.00

| SLP | Delivery Number |
|---|---|
| FBL Fca SLP5 | D00 |

**Report Creation Date**

2018-08-03

**Contact**

In case of questions or the need for an update of the basic software delivery, please contact
Support@vector.com or your Vector contact person.


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## 1. Introduction

### 1.1 Resolving Issues

Reported issues are not automatically fixed with the next update delivery.
If a reported issue shall be fixed, please contact Vector agree on the issues that can be fixed with upcoming deliveries.
Please note that Vector may fix issues without explicit request.

### 1.2 Issue Classification

This Issue Report provides issues that have been detected since the last report. The issues have been classified to facilitate the assessment of their impact:

The chapter 'New Issues' lists issues that have been detected since the last report and which could not be excluded based on the use-case defined in the questionnaire. The issues are classified as follows:

- **Safety Related Issues:** Safety related issues have impact on the functional safety of the software module.  If this issue interferes with the functional safety concept of the ECU, this module (or module configuration) must not be used for serial production in a safety-related project. The effect of the issue to the ECU functionality and functional safety has to be analyzed by the user as the software usage and its configuration is not known by Vector. The risk of change has also to be taken into account.
- **Runtime Issues without Workaround:** Runtime issues without a workaround require an update of the software delivery in case the issue affects the ECU overall functionality. The effect of an issue to the ECU functionality has to be analyzed by the customer as the software usage and its configuration is not known by Vector. The risk of change has also to be taken into account.
- **Runtime Issues with Workaround:** It is not recommended to update a delivery due to a runtime issue with a documented workaround. The effect of an issue to the ECU functionality has to be analyzed by the user as the software usage and its configuration is not known by Vector. The risk of change has also to be taken into account.
- **Not Released Functionality:** Not released functionalities (BETA) are either complete software modules or features in the software module that have not yet passed a complete development cycle (they are e.g. not or only partly tested). If a BETA issue ticket affects a complete software module, the software module must not be used for serial production. If a BETA issue ticket affects a feature in the software module, the user has to ensure that all BETA features are disabled as indicated for the serial production release of the ECU.
- **Apparent Issues:** Apparent issues are detected immediately when using the software module. If an issue does not show up while working with the software module, the ECU project is not affected by the issue. Apparent issues may or may not have workarounds.
- **Compiler Warnings:** As a service we also provide the known compiler warnings. The occurrence of a compiler warning may depend on the used software module configuration and compiler settings.

The chapter 'New Issues for Information' lists issues that are not relevant for the use-case that has been documented in the questionnaire provided to Vector. The issues may, however, be relevant for other use-cases. Additionally, issues that have been accepted or are tolerated by the OEM (as defined in the questionnaire) are reported here.

# Issue Report

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## 2. New Issues

### 2.1 Safety Relevant Issues

Safety related issues have impact on the functional safety of the software module.  If this issue interferes with the functional safety concept of the ECU, this module (or module configuration) must not be used for serial production in a safety-related project.

The effect of the issue to the ECU functionality and functional safety has to be analyzed by the user as the software usage and its configuration is not known by Vector. The risk of change has also to be taken into account.

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MemService_AsrNvM@Implementation

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**VECTOR**

| ESCAN00096387 | Undefined ECU behavior due to invalid index access if <MSN>WriteOutOfBoundsWriteProtectionStrategy is INDEX_SATURATION and Post Build Variance Support is true |
|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| **First affected version:** | 7.00.00 |
| **Fixed in versions:** | 8.03.03, 8.07.03, 8.03.80, 8.06.01, 8.07.81, 8.05.02, 8.07.80, 8.01.01, 8.11.00, 8.00.01, 8.04.01, 8.03.81, 8.05.80 |

**Problem Description:**

What happens (symptoms):
------------------------------------------------------------------

The issue results in an undefined behavior of the ECU due to invalid index RAM write access in the bounds of the array.

When does this happen:
------------------------------------------------------------------

The issue occurs always at runtime if VAR arrays are used by the component.

In which configuration does this happen:
------------------------------------------------------------------

Any configuration where the Post Build Variance Support is true in the module configuration.
AND
all component configuration data is different in variants.
AND
<MSN>WriteOutOfBoundsWriteProtectionStrategy is configured to INDEX_SATURATION.

This feature is classified by the most components with the "WARNING" "The feature must never be used in productive builds!".

**Resolution Description:**

Workaround:
------------------------------------------------------------------
IF
the component generator offers the parameter <MSN>WriteOutOfBoundsWriteProtectionStrategy
configure it to NONE
ELSE
no workaround available.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00096411 | Undefined ECU behavior due to invalid value access in post build selectable configuration with more than 2 variants |
|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| *First affected version:* | 4.00.00 |
| *Fixed in versions:* | 8.07.80, 8.05.80, 8.01.01, 8.03.80, 8.05.02, 8.00.01, 8.07.03, 8.06.01, 8.03.03, 8.04.01, 8.11.01, 8.03.81, 8.07.81 |

**Problem Description:**

What happens (symptoms):
------------------------------------------------------------------
Undefined ECU behavior due to invalid CONST value access in arrays or structs.

The effect can be for example:
- Det_ReportError is called if configured.
- Callbacks can be called or even not if intended.
- Memory can be overwritten.

When does this happen:
------------------------------------------------------------------
Always at runtime if the condition below matches.

In which configuration does this happen:
------------------------------------------------------------------
Any configuration where the Post Build Variance Support is true in the module configuration
AND
arrays and structures are of the Configuration Class PRECOMPILE or LINKTIME (Note: Even POST-BUILD configurations have data of the Configuration Class PRECOMPILE or LINKTIME)
AND
more than 2 configured variants
AND
the data is reduced.
(The not optimized configuration data contains the same subsets of data in multiple variants.
This triggers a variant dependent data reduction optimization in the generator.
Note, that this is not visible in the generated code since the not optimized configuration data is not output by the generator.)

**Resolution Description:**

Workaround:
------------------------------------------------------------------
No workaround available.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00097518 | CRC32 calculations deliver wrong results |
|---|---|
| **Component@Subcomponent:** | MemService_AsrNvM@Implementation |
| **First affected version:** | 5.00.00 |
| **Fixed in versions:** | |

**Problem Description:**

What happens (symptoms):

-----------------------------------------------------------------

CRC32s calculated internally by NVM are not as specified by AUTOSAR, i.e. the results may differ, depending on number of single CRC library calls done per NVM block.

Calculated values are still CRCs, but they don't match the results from using corresponding standardized CRC32 calculations

Since CRC handling is done internally, this is usually not visible to users.

The issue becomes visible, if NVM's configuration changed between a write and a read request (see below): Data may become unreadable due to failed CRC check.

When does this happen:

-----------------------------------------------------------------

It happens at run-time during CRC calculation.

However this behavior is symmetric, i.e. calculated CRC during writes match the CRC calculated during reads. Data can be written and read back as expected.

In which configuration does this happen:

-----------------------------------------------------------------

It happens for all blocks having CRC (NvMBlockUseCrc) enabled, and CRC type (NvMBlockCrcType) was set to CRC32 .

If (in a running project), the number of "Bytes per MainFunction" (NvMCrcNumOfBytes) was changed, existing data become unreadable, because same data result in different CRC.

**Resolution Description:**

Workaround:

-----------------------------------------------------------------

In a running project's configuration don't change the number of "Bytes per MainFunction" (NvMCrcNumOfBytes).

Resolution:

-----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

## 2.2 Runtime Issues without Workaround

Runtime issues without a workaround require an update of the software delivery in case the issue affects the ECU overall functionality. The effect of an issue to the ECU functionality has to be analyzed by the customer as the software usage and its configuration is not known by Vector. The risk of change has also to be taken into account.

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**VECTOR >**

| ESCAN00098581 | Init Action Lists on multiple partitions are not working correct |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 13.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Init Action Lists might be not executed as expected, as a consequence some modules are not initialized.


When does this happen:

------------------------------------------------------------------

During initialization.


In which configuration does this happen:

------------------------------------------------------------------

Only in configurations with multiple BswMConfig containers (Beta functionality)

AND

The BswMActionListPriority is set to the same value for init action lists configured in different BswMConfig containers.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

No workaround available.


Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00099826 | Wrong Hth used for Can_Write API |
|---|---|
| *Component@Subcomponent:* | If_AsrIfCan@GenTool_GeneratorMsr |
| *First affected version:* | 4.06.00 |
| *Fixed in versions:* | 4.08.80 |

*Problem Description:*

What happens (symptoms):

-------------------------------------------------------------------

The successful sending of a Can message is not possible.

Or a wrong CanHardwareObject (send buffer) will be used for transmission (send on wrong controller or as FullCAN instead of BasicCAN)

In case a receive buffer will be used for Hth instead of a send buffer, a DET is thrown from the Can driver if it is enabled.


When does this happen:

-------------------------------------------------------------------

The issue occurs during runtime, when the Can_Write API is called with a wrong hth.

The wrong hth is only chosen if the generated data from the Can driver does not have a channel sorted mailbox configuration.


In which configuration does this happen:

-------------------------------------------------------------------

Occurs when using a can driver, which expected no channel specific sorting of the hth's.

AND

only if none Vector CAN driver used

*Resolution Description:*

Workaround:

-------------------------------------------------------------------

No workaround available.

Resolution:

-------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

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**VECTOR**

| ESCAN00099928 | Communication Interface Queued Rx API forwarding routing path do not work with regular PduR queue |
|---|---|
| ***Component@Subcomponent:*** | Gw_AsrPduRCfg5@Implementation |
| ***First affected version:*** | 11.03.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Communication Interface Queued Rx API Forwarding routing paths do not work correctly.
The Queue will always overflow and will therefore be flushed. A DET error with API-ID
PDUR_FCT_RMIF_FQ and Error code PDUR_E_PDU_INSTANCES_LOST is reported if error reporting
is enabled.
After the flush the same behavior occurs again.
The Pdu which is first in the queue will be forwarded to the upper layer in context of the
MainFunction. All other Pdus will remain in the queue and will not be forwarded. They will be
discarded at the queue flush.

When does this happen:

------------------------------------------------------------------

Always during runtime.

In which configuration does this happen:

------------------------------------------------------------------

The routing path must satisfy all of the following conditions:
- Communication interface Pdu
- API Forwarding
- Rx direction
- Queue depth set to some value > 0

***Resolution Description:***

Workaround:

------------------------------------------------------------------

For Multicore routing paths use the so called 'Multicore queue'. The queueing can't be used for
singlecore routing paths.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

## 2.3 Runtime Issues with Workaround

It is not recommended to update a delivery due to a runtime issue with a documented workaround. The effect of an issue to the ECU functionality has to be analyzed by the user as the software usage and its configuration is not known by Vector. The risk of change has also to be taken into account.

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# Issue Report

**VECTOR >**

| ESCAN00061207 | DaVinci Configurator 5: Issue Reporting Procedure |
|---|---|
| ***Component@Subcomponent:*** | GenTool_ConfiguratorCfg5@Application |
| ***First affected version:*** | 5.00.01 |
| ***Fixed in versions:*** | |

***Problem Description:***

This ticket describes the reporting of DaVinci Configurator Pro issues. This ticket is a general information and not an issue.

-------------------------------------------------------------------------------------------------------------------


Issues of the DaVinci Configurator Pro tool are not part of the active issue reporting (i.e. this report).
The DaVinci Configurator Pro issue list can be downloaded from our home page:

DaVinci Developer OpenIssue Lists
https://portal.vector.com/web/davinci/shared-folder?t=c2b431ff-5dae-4a72-83ec-b9c8ca17561c

DaVinci Configurator Pro OpenIssue Lists
https://portal.vector.com/web/davinci/shared-folder?t=15d156f3-65d3-4b6e-8107-ec44051aebff

***Resolution Description:***

Workaround:
-----------------------------------------------------------------
This is not an issue but only a reference to the tool specific issue reporting.
No changes to the delivery required.

# Issue Report

**VECTOR** >

| ESCAN00092116 | Long runtime of flash library functions can delay the Rx frame processing | |
|---|---|---|
| ***Component@Subcomponent:*** | FblDrvFlash_Rh850Rv40His@Impl_Base | 12 |
| ***First affected version:*** | 1.06.00 | |
| ***Fixed in versions:*** | | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Flash library operations might be very runtime consuming.

This might delay the processing of a Rx frame that long, that the corresponding CAN mailbox has already been overwritten with the following Rx frame assigned to the mailbox.

The download will abort with a NRC 0x73 (WrongBlockSequenceCounter).

When does this happen:

------------------------------------------------------------------

During the flash routines of the flash library.

In which configuration does this happen:

------------------------------------------------------------------

-Usage of pipelined programming/early acknowledge

-So far the behavior has only been detected on F1H and F1K derivatives

***Resolution Description:***

Workaround:

------------------------------------------------------------------

Driving the system with a higher clock also speed up the flash operations and reduces their runtime.

(verified with R7F7015032+R7F7015874AFP @ 120MHz)

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00093263 | Missing "if" statement |
|---|---|
| *Component@Subcomponent:* | DrvCan_Mpc5700McanLl@Implementation |
| *First affected version:* | 2.08.00 |
| *Fixed in versions:* | 2.09.01 |

**Problem Description:**

What happens (symptoms):

-----------------------------------------------------------------

The transition to "Start" or "Stop" Mode is returned erroneously as "Done" to upper layers.
 E.g. the MCAN can still be active with pending Tx requests although Stop Mode reached is notified.

When does this happen:

-----------------------------------------------------------------

At run time.

In which configuration does this happen:

-----------------------------------------------------------------

Only for AutoSar 4.x
AND
MCAN Revision 2.x, 3.0.0, 3.0.1
AND
CAN_BOSCH_ERRATUM_008 == STD_ON.

**Resolution Description:**

Workaround:

-----------------------------------------------------------------

Enable "Hardware Loop Check by application" and check for timeout notifications for
"kCanLoopStart"/"kCanLoopStop".
If a timeout appears the requested mode change must be repeated.

Resolution:

-----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR >**

| ESCAN00096248 | Validator PDUR12501 is not shown as error for PduRDestPduRef |
|---|---|

| | | |
|---|---|---|
| *Component@Subcomponent:* | Gw_AsrPduRCfg5@GenTool_GeneratorMsr | |
| *First affected version:* | 9.01.00 | |
| *Fixed in versions:* | | |

**Problem Description:**

What happens (symptoms):
------------------------------------------------------------------
Validator message PDUR12501 is shown on a PduRDestPduRef. It is shown as information only, but in reality shall be an error message.


When does this happen:
------------------------------------------------------------------
During live validation in the DaVinci Configurator 5.


In which configuration does this happen:
------------------------------------------------------------------
The validator message is shown if the global Pdu of PduRDestPduRef is referenced by more than one other container. This kind of 1:N routing path is not supported.

**Resolution Description:**

Workaround:
------------------------------------------------------------------
Check if the validation message is shown for a PduRDestPduRef.
If No, then you're not affected.
If Yes, check if this is correctly configured. The PduR will only forward the Pdu to one of the destination container (the destination is chosen randomly while generating due to the internal Java structure). The routing to this destination container will then work as configured.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR ▶**

| ESCAN00096588 | Updater is not reset safe without initializing the PLL [will not get fixed] | |
|---|---|---|
| ***Component@Subcomponent:*** | FblUpd_Ap_Rh850@Implementation | |
| ***First affected version:*** | 1.00.00 | |
| ***Fixed in versions:*** | | |

### Problem Description:

What happens (symptoms):

------------------------------------------------------------------

Standard bootloader update sequence without power loss will work always properly but an power loss during the update will lock the device in a state which cannot be left without attaching a debugger of external flash tool.

Background:

In standard use case the Bootloader may initialize the PLL for the updater. After an power loss during updating the updater is called directly without bootloader. Therefore the updater requires it's own PLL initialization. Without proper PLL initialization in ApplFblUpdHwInit(), it is not possible to initialize the Renesas flash libraries and FlashDriver_InitSync() will return a failure code. The updater will attempt to reprogram the bootloader since the flash driver init failed.

Hint: A comparable behavior can be caused by other missing (hardware-) initialization.

When does this happen:

------------------------------------------------------------------

When a reset interrupts the bootloader update process and the updater starts without first running the bootloader initialization code.

In which configuration does this happen:

------------------------------------------------------------------

All projects that have not adapted and tested ApplFblUpdHwInit() to initialize the PLL.

### Resolution Description:

Workaround:

------------------------------------------------------------------

This issue can be avoided by testing updater as stand alone software at customer side.

Resolution:

------------------------------------------------------------------

No resolution. The topic will move into documentation.

The ApplFblUpdHwInit() gets a default code for PLL initialization as a template compareable to bootloader ApplFblInit PLL example

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**VECTOR**

| ESCAN00097115 | Buffer overflow during gap fill operation |
|---|---|
| *Component@Subcomponent:* | FblLib_Mem@Implementation |
| *First affected version:* | 3.01.00 |
| *Fixed in versions:* | |

## Problem Description:

What happens (symptoms):
----------------------------------------------------------------
A write to the internal buffer holding the fill pattern for the gap fill operation is outside the array bounds.
This can cause other variables to be overwritten, resulting in undefined behavior.

When system check is enabled (FBL_ENABLE_SYSTEM_CHECK) the corrupted buffer will be detected afterwards and a general error will be issued.


When does this happen:
----------------------------------------------------------------
During the gap fill operation, e.g. during a RequestTransferExit.


In which configuration does this happen:
----------------------------------------------------------------
When all of the following conditions apply:

- Gap fill is enabled (FBL_MEM_ENABLE_GAP_FILL)
- Gap fill segmentation is smaller than the memory segment size
(FBL_MEM_GAP_FILL_SEGMENTATION < FBL_MEM_SEGMENT_SIZE)
Typically the gap fill segmentation is equal to the write segmentation
(FBL_MEM_WRITE_SEGMENTATION).

## Resolution Description:

Workaround:
----------------------------------------------------------------
Ensure the gap fill segmentation is equal to or larger than the memory segment size
(FBL_MEM_GAP_FILL_SEGMENTATION >= FBL_MEM_SEGMENT_SIZE).
Typicall this can be achieve by setting the WriteSegmentation in the configuration tool to at least to the size of the greatest SegmentSize of your memory drivers.

Resolution:
----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00097200 | useless information might remain in the ARXML file after deleting Pdus |
|---|---|

| | | |
|---|---|---|
| ***Component@Subcomponent:*** | FblPduSystemDescrExtractor@VASE | |
| ***First affected version:*** | 1.03.00 | |
| ***Fixed in versions:*** | | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

While deleting PDUs from an ARXML with the VASE-Script some other communication elements being referenced by the Pdus are not required anymore and have to be deleted as well. If the ARXML File to be patched describes EthernetCommunication then the file might be affected by this issue.

As a consequence of this . if a new project in DaVinci Configurator 5 is created with the patched ARXML File,some information is also imported which had to be deleted by the script . Then the customer needs to delete this information manually in its project.


When does this happen:

------------------------------------------------------------------

This might occur if there are RoutingGroups for EthernetCommunication in the ARXML File The VASE-Script does not delete the RoutingGroups



In which configuration does this happen:

------------------------------------------------------------------

If the customer wants to delete Pdus which will be transmitted over Ethernet from the list found in the file UserVariablesConfig.xml .

```
<variable name="ISignalIPdus" remove="yes"/>
<variable name="MultiplexedIPdus" remove="yes"/>
<variable name="UserDefinedPdus" remove="yes"/>
<variable name="UserDefinedIPdus" remove="yes"/>
<variable name="GeneralPurposePdus" remove="yes"/>
<variable name="SecuredIPdus" remove="yes"/>
<variable name="DcmIPdus" remove="yes"/>
<variable name="XcpPdus" remove="yes"/>
<variable name="NmPdus" remove="yes"/>
<variable name="GeneralPurposeIPdus" remove="yes"/>
```


***Resolution Description:***

Workaround:

------------------------------------------------------------------

Remove the useless information from the Cfg5 configuration

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

Technical resolution:
 Error is resolved in file FblPduSystemDescrExtractorSkript.py
 Function : deleteSocketConnectionIPduIdentifier line 822

# Issue Report

**VECTOR**

| ESCAN00099329 | Stay-In-Boot (Force Boot Mode) is not able to process messages if FBL_ENABLE_PRE_WDINIT is enabled |
|---|---|
| ***Component@Subcomponent:*** | FblMain@Implementation |
| ***First affected version:*** | 3.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

----------------------------------------------------------------

Bootloader does not process diagnostic messages due to a locked diagnostic buffer.

When does this happen:

----------------------------------------------------------------

Runtime issue after a Stay-In-Boot message has been received.


In which configuration does this happen:

----------------------------------------------------------------

When using the following configuration:

FBL_ENABLE_STAY_IN_BOOT
and message reception is done in FblCwStateTask()
and FBL_ENABLE_PRE_WDINIT
and FBL_ENABLE_PRE_TIMERINIT

Message reception is done in FblCwStateTask() if one of the following settings is valid:
FBL_CW_ENABLE_TASK_CODE_IN_RAM
or FBL_CW_ENABLE_RECEPTION_IN_STATE_TASK
or MSR based communication stack used
or CBD based communication stack use

***Resolution Description:***

Workaround:

----------------------------------------------------------------

Disable FBL_ENABLE_PRE_WDINIT. Possible NV-memory accesses or other long lasting tasks should be moved to initialization tasks after the Stay-In-Boot message has been processed.

Resolution:

----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

## 2.4 Not Released Functionality

Not released functionalities (BETA) are either complete software modules or features in the software module that have not yet passed a complete development cycle (they are e.g. not or only partly tested). If a BETA issue ticket affects a complete software module, the software module must not be used for serial production. If a BETA issue ticket affects a feature in the software module, the user has to ensure that all BETA features are disabled as indicated for the serial production release of the ECU.

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ESCAN00100031    BETA version - the BSW module is in BETA state
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                 FblKbApi_Frame_Fca@Implementation

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                 FblKbApi_FrameDiag_Fca@Implementation

ESCAN00100035    BETA version - the BSW module is in BETA state
                 FblKbApi_FrameNv_Fca@Implementation

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**VECTOR** >

| ESCAN00092470 | BETA version - the BSW module has a feature with BETA state (FEAT-1454) |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 10.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What is the impact of BETA software:

------------------------------------------------------------------

BETA software
- must not be used in productive projects as they may result in unpredictable ECU behavior
- may not provide all features intended for the productive project
- is not or only partly tested and not all quality measures have taken place


Which functionality is BETA:

------------------------------------------------------------------

The following feature/function is in BETA state.
- Configuration of Switch Ports (Mode Request Port (BswM_EthIf_PortGroupLinkStateChg))

Additonal:
Currently the BswM general switch BswMEthIfEnabled is not set via a Auto-Validation. During fixing of this BETA ESCAN a validation has to be implemented which ensures that the BswMEthIfEnabled is true if the EthIf calls this API and if the Mode Request Port is configured in BswM.

***Resolution Description:***

| ESCAN00098377 | BETA version - the BSW module has a feature with BETA state (FEAT-2721) |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 13.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What is the impact of BETA software:

------------------------------------------------------------------

BETA software
- must not be used in productive projects as they may result in unpredictable ECU behavior
- may not provide all features intended for the productive project
- is not or only partly tested and not all quality measures have taken place


Which functionality is BETA:

------------------------------------------------------------------

The following feature/function is in BETA state.
- Configuration of more than one BswMConfig container / MultiPartition Support

***Resolution Description:***

# Issue Report

**VECTOR**

## ESCAN00100031　　BETA version - the BSW module is in BETA state

| | |
|---|---|
| ***Component@Subcomponent:*** | FblDiag_14229_Fca@Implementation |
| ***First affected version:*** | 0.95.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What is the impact of BETA software:

------------------------------------------------------------------

BETA software
- must not be used in productive projects as they may result in unpredictable ECU behavior
- may not provide all features intended for the productive project
- is not or only partly tested and not all quality measures have taken place
�
Which functionality is BETA:

------------------------------------------------------------------

The complete BSW module is in BETA state

***Resolution Description:***

## ESCAN00100032　　BETA version - the BSW module is in BETA state

| | |
|---|---|
| ***Component@Subcomponent:*** | FblKbApi_Fca@Implementation |
| ***First affected version:*** | 0.95.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What is the impact of BETA software:

------------------------------------------------------------------

BETA software
- must not be used in productive projects as they may result in unpredictable ECU behavior
- may not provide all features intended for the productive project
- is not or only partly tested and not all quality measures have taken place
�
Which functionality is BETA:

------------------------------------------------------------------

The complete BSW module is in BETA state

***Resolution Description:***

## ESCAN00100033     BETA version - the BSW module is in BETA state

| | |
|---|---|
| *Component@Subcomponent:* | FblKbApi_Frame_Fca@Implementation |
| *First affected version:* | 0.95.00 |
| *Fixed in versions:* | |

*Problem Description:*
What is the impact of BETA software:
------------------------------------------------------------------
BETA software
- must not be used in productive projects as they may result in unpredictable ECU behavior
- may not provide all features intended for the productive project
- is not or only partly tested and not all quality measures have taken place
�
Which functionality is BETA:
------------------------------------------------------------------
The complete BSW module is in BETA state


*Resolution Description:*

## ESCAN00100034     BETA version - the BSW module is in BETA state

| | |
|---|---|
| *Component@Subcomponent:* | FblKbApi_FrameDiag_Fca@Implementation |
| *First affected version:* | 0.95.00 |
| *Fixed in versions:* | |

*Problem Description:*
What is the impact of BETA software:
------------------------------------------------------------------
BETA software
- must not be used in productive projects as they may result in unpredictable ECU behavior
- may not provide all features intended for the productive project
- is not or only partly tested and not all quality measures have taken place
�
Which functionality is BETA:
------------------------------------------------------------------
The complete BSW module is in BETA state


*Resolution Description:*

## ESCAN00100035     BETA version - the BSW module is in BETA state

| | |
|---|---|
| *Component@Subcomponent:* | FblKbApi_FrameNv_Fca@Implementation |
| *First affected version:* | 0.95.00 |
| *Fixed in versions:* | |

*Problem Description:*
What is the impact of BETA software:
------------------------------------------------------------------
BETA software
- must not be used in productive projects as they may result in unpredictable ECU behavior
- may not provide all features intended for the productive project
- is not or only partly tested and not all quality measures have taken place
�
Which functionality is BETA:
------------------------------------------------------------------
The complete BSW module is in BETA state


*Resolution Description:*

# Issue Report

> VECTOR

## 2.5 Apparent Issues

Apparent issues are detected immediately when using the software module. If an issue does not show up while working with the software module, the ECU project is not affected by the issue. Apparent issues may or may not have workarounds.

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| ESCAN00087367 | Internal: CAN FD configuration for current MCAN versions (Rev 3.x) has to be reworked<br>FblDrvCan_Mpc5700McanCrx@Implementation |
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| ESCAN00094355 | [Error] CANIF10027 None CAN-channel has multiple BasicCAN Tx-objects. Hence the feature "CanIfMultipleBasicCANTxObjects" is not required in current configuration and must be disabled.<br>If_AsrIfCan@GenTool_GeneratorMsr |
| ESCAN00094414 | Compiler error: Undeclared identifier in GetAddressOfDataMacros<br>CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| ESCAN00094541 | Auto-Configuration Communication Control: Rules without expressions are created and so validation errors are shown<br>SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ESCAN00094875 | Compiler error: dld.exe: warning: Undefined symbol 'MemIf_*_WriteWrapper' in file 'obj/MemIf_Cfg.o'<br>If_AsrIfMem@GenTool_GeneratorMsr |
| ESCAN00095072 | ApplFblSetModulePresence() Cannot write presence pattern to multiple memory devices with different erased values<br>FblKbApi@Implementation |
| ESCAN00095553 | Compiler error: Undefined identifier *PtrType to VARs of simple types with <MSN>_USE_INIT_POINTER to STD_ON<br>CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| ESCAN00096164 | Compiler error: A generated value is not in range of the specified datatype<br>CommonAsr_ComStackLib@GenTool_GeneratorMsr |
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# Issue Report

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# Issue Report

**VECTOR** >

## Index

# Issue Report

**VECTOR**

| ESCAN00079491 | Diagnostic timing too slow (pipelining) |
|---|---|
| *Component@Subcomponent:* | FblLib_Mem@Implementation |
| *First affected version:* | 1.00.00 |
| *Fixed in versions:* | |

**Problem Description:**
What happens (symptoms):
------------------------------------------------------------------
Diagnostic timers active while the ECU is idle do not trigger in time. This can delay actions like e.g. reset when S3 timeout occurs.
Depending on the diagnostic implementation the following timers may be affected:

- S3 session timeout
- Security access delay
- Sleep mode


When does this happen:
------------------------------------------------------------------
After data was received (e.g. through TransferData), the final response is already transmitted, but the actual programming is carried out in a background operation (pipelined programming).
The effect is observable when the next event resetting or evaluating the respective timers does not occur before the timer usually runs out. E.g. when no service request is received within S3, the session timeout is delayed by the time required to program the pending data.


In which configuration does this happen:
------------------------------------------------------------------
When the diagnostic timer values are counted down outside of the context of the watchdog trigger function configured through __ApplFblMemWdTrigger (typically FblLookForWatchog), e.g. in FblDiagTimer task called in FblRepeat.
Additionally at least one of the following has to apply:

- Pipelined programming is used (FBL_ENABLE_PIPELINED_PROGRAMMING)
- Pipelined verification is used (FBL_MEM_ENABLE_VERIFY_PIPELINED)

**Resolution Description:**
Workaround:
------------------------------------------------------------------
No workaround available.


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR >**

| ESCAN00081436 | Using FlashDriver_SetResetVector() might cause exception | |
|---|---|---|
| ***Component@Subcomponent:*** | FblDrvFlash_Rh850Rv40His@Impl_Base | 27 |
| ***First affected version:*** | 1.02.00 | |
| ***Fixed in versions:*** | | |

***Problem Description:***

What happens (symptoms):
------------------------------------------------------------------
When using FlashDriver_SetResetVector() an exception occurs.

When does this happen:
------------------------------------------------------------------
When code called from wdTriggerFct (typically FblLookForWatchdog()) is not located in RAM.
This may apply e.g. to the Communication Wrapper task functions.

In which configuration does this happen:
------------------------------------------------------------------
if FLASH_ENABLE_SET_RESETVECTOR_API is enabled.

***Resolution Description:***

Workaround:
------------------------------------------------------------------
 Either manually handle memDrvDeviceActive in the updater or locate any code referenced by
FblLookForWatchdog() in RAM


Resolution:
------------------------------------------------------------------
None.

# Issue Report

**VECTOR** >

| ESCAN00087367 | Internal: CAN FD configuration for current MCAN versions (Rev 3.x) has to be reworked |
|---|---|
| ***Component@Subcomponent:*** | FblDrvCan_Mpc5700McanCrx@Implementation |
| ***First affected version:*** | 1.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

---------------------------------------------------------------

CAN FD configuration with 3.x revisions most likely is incorrect.


When does this happen:

---------------------------------------------------------------

Configurations with CAN FD and Bootloader CAN driver

In which configuration does this happen:

---------------------------------------------------------------

CAN FD mode 1 activated

***Resolution Description:***

Workaround:

---------------------------------------------------------------

No workaround available.


Resolution:

---------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report



| ESCAN00088524 | Compiler error: Undeclared identifier in the initialization structure | |
|---|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr | |
| **First affected version:** | 7.00.00 | 29 |
| **Fixed in versions:** | 8.01.00 | |

**Problem Description:**

What happens (symptoms):

----------------------------------------------------------------

Compiler throws an error for an undeclared identifier used in the root initialization structure.

When does this happen:

----------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

----------------------------------------------------------------

The configuration contains multiple predefined variants (selectable)
AND
array or struct symbols are generated to the configuration class precompile
AND
isReduceConstantData2Define() returns true
AND
isInterfacesForDeactivatedData() returns true

**Resolution Description:**

Workaround:

----------------------------------------------------------------

if isInterfacesForDeactivatedData() is user configurable a workaround is available else not.

Resolution:

----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** ›

| ESCAN00091455 | A RuntimeException "unknown DataTapeRep enumeration" for sint64 is thrown |
|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| **First affected version:** | 6.00.00 |
| **Fixed in versions:** | 8.03.01 |

**Problem Description:**
What happens (symptoms):
----------------------------------------------------------------
A RuntimeException "unknown DataTapeRep enumeration" for sint64 is thrown at generation time.

When does this happen:
----------------------------------------------------------------
Always and immediately under specific circumstances. See in which configuration does this happen.

In which configuration does this happen:
----------------------------------------------------------------
Any configuration using the EComStackDataTypeRep sint64.

**Resolution Description:**
Workaround:
----------------------------------------------------------------
No workaround available.

Resolution:
----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

| ESCAN00092001 | Compiler error: Undefined identifier *IterType with size relations |
|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| **First affected version:** | 8.00.00 |
| **Fixed in versions:** | 8.03.01 |

**Problem Description:**
What happens (symptoms):
----------------------------------------------------------------
Compile error occurs in the doxygen group *IterableTypesWithSizeRelations. The type definition of the size relevant array *IterType is undefined.

When does this happen:
----------------------------------------------------------------
The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
----------------------------------------------------------------
Any configuration with a ConstStruct containing only indirection, which is deactivated by a reason.

**Resolution Description:**
Workaround:
----------------------------------------------------------------
No Workaround available.

Resolution:
----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00093405 | Auto Configuration - Invalid multiplicity after manual adaptations of container BswMAvailableActions |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 10.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):
-----------------------------------------------------------------
User-modifications about a changed BswMAvailableActions subcontainer are recognized by the Auto Configuration assistant but even if they should be kept, the assistant will re-create the original action. This leads to an invalid model because the user modification is not removed by the assistant.

Example:
- Configure Communication Control is used and Reinitialize TX is turned ON, Finish is clicked.
- the /MICROSAR/BswM/BswMConfig/BswMModeControl/BswMAction CC_EnableDM_<I-PDU-Group> has a BswMDeadlineMonitoringControl container which is deleted within the Basic Editor
- Instead another BswMAvailableActions subcontainer is created of another type, e.g. BswMComMModeLimitation
- Configure Communication Control is used once again and Finish is clicked. An option if offered to either keep this modification or to restore it, but independent of the choice, the original BswMDeadlineMonitoringControl is restored without removing the user modification. Because the user modification is not removed the multiplicity of the container BswMAvailableActions[0...1] is violated.


When does this happen:
-----------------------------------------------------------------
During the configuration with DaVinci Configurator in the BSW Management Editor in the following sequence:
- Configure <Auto Configuration> is clicked
- Finish is clicked
- Some objects like a /MICROSAR/BswM/BswMConfig/BswMModeControl/BswMAction/ BswMAvailableActions/BswMDeadlineMonitoringControl container are deleted or changed
- Configure <Auto Configuration> is clicked once again
- Finish is clicked
- the dialog 'Manual Adaptions' does pop up
- Finish is clicked in the 'Manual Adaptions' dialog


In which configuration does this happen:
-----------------------------------------------------------------
Any configuration using one of the Auto Configurations in BSW Management in DaVinci Configurator

***Resolution Description:***

Workaround:
-----------------------------------------------------------------
Redo the previously manual changes that have been overwritten.

Resolution:
-----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00093413 | Auto Configuration Module Initialization - Changed User Include Files always restores |
|---|---|
| *Component@Subcomponent:* | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| *First affected version:* | 2.00.01 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):
------------------------------------------------------------------
If the EcuM_Init_PBCfg.h entry in the User Config File (/MICROSAR/BswM/BswMGeneral/ BswMUserIncludeFiles/BswMUserIncludeFile) list is overwritten by some other value or being replaced, it is being restored after the Module Configuration Auto Configuration is applied again and the other value might be removed.


When does this happen:
------------------------------------------------------------------
During the configuration with DaVinci Configurator in the BSW Management Editor in the following sequence:
- Configure Module Initialization is clicked
- Finish is clicked
- One of the /MICROSAR/BswM/BswMGeneral/BswMUserIncludeFiles/BswMUserIncludeFile has the value EcuM_Init_PBCfg.h, this one is being changed or deleted.
- Configure Module Initialization is clicked once again
- Finish is clicked
- the dialog 'Manual Adaptions' does not pop up or it pops up but the change is not displayed
- Finish is clicked in the 'Manual Adaptions' dialog if it is displayed


In which configuration does this happen:
------------------------------------------------------------------
Any configuration using the Module Initialization Auto Configurations in BSW Management in DaVinci Configurator

AND

EcuM is configured as Postbuild Loadable or Postbuild Selectable

**Resolution Description:**

Workaround:
------------------------------------------------------------------
Redo the previously manual changes that have been overwritten.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** ⟩

| ESCAN00093839 | CFG5 Exception or Compile Error "Too many initializer values" |
|---|---|
| ***Component@Subcomponent:*** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| ***First affected version:*** | 4.00.00 |
| ***Fixed in versions:*** | 8.06.00, 8.05.01 |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

CFG5 shows the following error message
"Exception in <MSN> generator during Generation encountered"
and no files are generated.
The detailed error description is: java.lang.NullPointerException

OR

the compiler informs about arrays of structs with too many initializer values.

When does this happen:

------------------------------------------------------------------

at generation time

OR

at compile time

In which configuration does this happen:

------------------------------------------------------------------

Any configuration where the postbuild-selectable support is enabled for this module
AND
the generator uses the API setRequiresIndexUsedArray() with the parameter true.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

deactivate ComStackLib boolean deduplications
AND
configure <MSN>StructBoolDataUsage to a value different from "BITMASKING"
AND
generate again.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00094259 | Auto-Configuration Communication Control shows an error in case of not available module Com | |
|---|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr | 34 |
| ***First affected version:*** | 2.01.00 | |
| ***Fixed in versions:*** | | |

***Problem Description:***
What happens (symptoms):
-----------------------------------------------------------------
Auto-Configuration shows the following error:

Configuration *error*

Reason for *error*:
Could not collect all necessary informations. Solve errors in depending Modules first!

To see following errors in the Validation view execute on-demand generator validation!

Container ComConfig does not exist. Element def.: /[ANY]/Com/ComConfig


When does this happen:
-----------------------------------------------------------------
Always during configuration.

In which configuration does this happen:
-----------------------------------------------------------------
In all configurations without the module Com.

***Resolution Description:***
Workaround:
-----------------------------------------------------------------
No workaround available.


Resolution:
-----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00094319 | Auto-Configuration Communication Control: Init Mode of Lin Schedule Indication is missing |
|---|---|

| | |
|---|---|
| *Component@Subcomponent:* | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| *First affected version:* | 10.01.00 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):
------------------------------------------------------------------
A validator in Cfg5 reports the following warning:

BSWM01057 Init Mode of CC_LinScheduleIndication_<Schedule Name> is not known.
 Set BswMBswModeInitValueMode(value=) to LinSMConf_LinSMSchedule_<NAME>
/ActiveEcuC/BswM/BswMConfig/BswMArbitration/
CC_LinScheduleIndication_LIN00_<Schedule_Name>/BswMModeInitValue/
BswMBswModeInitValue[BswMBswModeInitValueMode]
 /ActiveEcuC/BswM/BswMConfig/BswMArbitration/
CC_LinScheduleIndication_LIN00_<Schedule_Name>


When does this happen:
------------------------------------------------------------------
Always after configuring the Auto-Configuration Communication Control.


In which configuration does this happen:
------------------------------------------------------------------
Only in configurations with at least one Lin channel

AND

Auto-Configuration Communication Control is configured.

**Resolution Description:**

Workaround:
------------------------------------------------------------------
Set the normal schedule via the provided solving action.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** ❯

| ESCAN00094355 | [Error] CANIF10027 None CAN-channel has multiple BasicCAN Tx-objects. Hence the feature "CanIfMultipleBasicCANTxObjects" is not required in current configuration and must be disabled. |
|---|---|
| ***Component@Subcomponent:*** | If_AsrIfCan@GenTool_GeneratorMsr |
| ***First affected version:*** | 4.02.00 |
| ***Fixed in versions:*** | |

***Problem Description:***
What happens (symptoms):
------------------------------------------------------------------
One of the following validation messages always occurs during configuration:

[Error] CANIF10027 - A feature is not supported in current configuration and shall be disabled.
- None CAN-channel has multiple BasicCAN Tx-objects. Hence the feature "CanIfMultipleBasicCANTxObjects" is not required in current configuration and must be disabled.
Solving action: Disable parameter: "CanIfMultipleBasicCANTxObjects".

-> After executing of this solving action you get the following validation message within the CanDrv:


[Error] CAN02002 - An invalid value is configured
- CanMultipleBasicCANTxObjects is not active but multiple TX BasicCANs used on some controller.
Solving action: Enable parameter: "CanMultipleBasicCANTxObjects"

-> After execution of this solving action you get the validation message mentioned above


When does this happen:
------------------------------------------------------------------
During configuration


In which configuration does this happen:
------------------------------------------------------------------
In case there is at least one CAN channel with no BasicCAN Tx-hardware object (there is no "CanHardwareObject" with "CanHandleType" == BASIC and "CanObjectType" == TRANSMIT)
-> The configuration has only FullCAN-objects or no Tx-objects at all on at least one channel

***Resolution Description:***
Workaround:
------------------------------------------------------------------
Make sure you get [Error] CANIF10027 (i.e. solve [Error] CAN02002 if present).
Set the parameter "CanIfMultipleBasicCANTxObjects" to user defined and keep it enabled.
[Error] CANIF10027 is then demoted to a warning that can be ignored.


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00094414 | Compiler error: Undeclared identifier in GetAddressOfDataMacros | |
|---|---|---|
| ***Component@Subcomponent:*** | CommonAsr_ComStackLib@GenTool_GeneratorMsr | 37 |
| ***First affected version:*** | 7.00.00 | |
| ***Fixed in versions:*** | 8.07.00 | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Compiler throws an error for an undeclared identifier used in GetAddressOfDataMacros.

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

isOutOfBoundsReadSanitizer() returns true
AND
isReduceDataByStreaming() returns true
AND
the GetAddressOfDataMacro is activated and used in the embedded source code.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

Do not use the OutOfBoundsReadSanitizer as intended in productive builds.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** ›

| ESCAN00094541 | Auto-Configuration Communication Control: Rules without expressions are created and so validation errors are shown |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 11.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

--------------------------------------------------------------------

The validation tab shows the following message:

AR-ECUC02008 Invalid multiplicity (3 messages)
 AR-ECUC02008 Mandatory parameter BswMRuleExpressionRef is missing in
CC_<CHANNELNAME>_<PNCNAME_RX
 BswMRuleExpressionRef
 /ActiveEcuC/BswM/BswMConfig/BswMArbitration/CC_<CHANNELNAME>_<PNCNAME>
 AR-ECUC02008 Mandatory parameter BswMRuleExpressionRef is missing in
CC_<CHANNELNAME>_<PNCNAME_RX_DM
 BswMRuleExpressionRef
 /ActiveEcuC/BswM/BswMConfig/BswMArbitration/CC_<CHANNELNAME>_<PNCNAME>
 AR-ECUC02008 Mandatory parameter BswMRuleExpressionRef is missing in
CC_<CHANNELNAME>_<PNCNAME_TX
 BswMRuleExpressionRef
 /ActiveEcuC/BswM/BswMConfig/BswMArbitration/CC_<CHANNELNAME>_<PNCNAME>

When does this happen:

--------------------------------------------------------------------

Always after execution of the Communication Control assistant.


In which configuration does this happen:

--------------------------------------------------------------------

In configurations with PNCs where at least one PduGroup is mapped to different PNCs

AND

Not all PNCs of a channel are configured (selected) in the Communication Control assistant.

***Resolution Description:***

Workaround:

--------------------------------------------------------------------

Rules must be deleted manually from configuration.

Resolution:

--------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00094875 | Compiler error: dld.exe: warning: Undefined symbol 'MemIf_*_WriteWrapper' in file 'obj/MemIf_Cfg.o' |
|---|---|
| ***Component@Subcomponent:*** | If_AsrIfMem@GenTool_GeneratorMsr |
| ***First affected version:*** | 5.02.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

----------------------------------------------------------------

Compiler error: dld.exe: warning: Undefined symbol 'MemIf_*_WriteWrapper' in file 'obj/MemIf_Cfg.o'

When does this happen:

----------------------------------------------------------------

During linking the project

In which configuration does this happen:

----------------------------------------------------------------

Windriver Diab compiler for PPC version is used (tested with version 5.9.4.8)

***Resolution Description:***

Workaround:

----------------------------------------------------------------

Redefine MEMIF_LOCAL_INLINE to MEMIF_LOCAL (e.g. in Compiler_Cfg.h)

Resolution:

----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00095072 | ApplFblSetModulePresence() Cannot write presence pattern to multiple memory devices with different erased values |
|---|---|
| ***Component@Subcomponent:*** | FblKbApi@Implementation |
| ***First affected version:*** | 1.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

ApplFblSetModulePresence() errantly returns kFblFailed when it has written a valid presence pattern. Download will be halted.


When does this happen:

------------------------------------------------------------------

During the validation of a block of memory down loaded to secondary device type with a different erased value than primary memory


In which configuration does this happen:

------------------------------------------------------------------

FBL_ENABLE_PRESENCE_PATTERN
 AND
FBL_ENABLE_MULTIPLE_MEM_DEVICES
 AND
FBL_FLASH_DELETED is a different value than the deleted value of the secondary device driver.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

ApplFblSetModulePresence() has to be adapted according to the erased code.


Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00095553 | Compiler error: Undefined identifier *PtrType to VARs of simple types with <MSN>_USE_INIT_POINTER to STD_ON |
|---|---|
| ***Component@Subcomponent:*** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| ***First affected version:*** | 8.04.00 |
| ***Fixed in versions:*** | 8.09.00 |

***Problem Description:***

What happens (symptoms):
------------------------------------------------------------------
Compile error occurs in the doxygen group *PBRootValueTypes. The type definition of the *PtrType used for VARs of simple types is undefined.

When does this happen:
------------------------------------------------------------------
The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
Any configuration where
<MSN>_USE_INIT_POINTER is defined to STD_ON
AND
the generator instanciates objects of the type IVarVar (simple VARs in the config root) in the Configuration Class LINK time or POST-BUILD.

***Resolution Description:***

Workaround:
------------------------------------------------------------------
No workaround available.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR >**

| ESCAN00096164 | Compiler error: A generated value is not in range of the specified datatype |
|---|---|
| ***Component@Subcomponent:*** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| ***First affected version:*** | 5.00.00 |
| ***Fixed in versions:*** | 8.13.00 |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

RuntimeExeption "<MSN>90500 The value 18446744073709551615 with comment () is not in the range of the specified datatype" is thrown during generation of the module.

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during generation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

Always
OR
if <MSN>ReduceNumericalDataByOffsetThreshold is configured to a value > 0.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

configure getReduceNumericalDataByOffsetThreshold() to 0 is configurable.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00096594 | C Standard Library is used |
|---|---|
| *Component@Subcomponent:* | SysService_CryptoCv@Impl_actCLib |
| *First affected version:* | 1.00.00 |
| *Fixed in versions:* | |

*Problem Description:*

What happens (symptoms):

------------------------------------------------------------------

limits.h from C Standard Library is used
(in actPlatformTypes.h)

When does this happen:

------------------------------------------------------------------

always

In which configuration does this happen:

------------------------------------------------------------------

always

*Resolution Description:*

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00096629 | Linker error: unresolved symbol error for not existing callout function referenced in Det_Cfg.o in case of disabled DET |
|---|---|
| *Component@Subcomponent:* | SysService_AsrDet@GenTool_GeneratorMsr |
| *First affected version:* | 10.00.00 |
| *Fixed in versions:* | |

### Problem Description:

What happens (symptoms):

------------------------------------------------------------------

If the DET is disabled and a callout funtion is configured which does not exist an unresolved symbol error is thrown by the linker.

When does this happen:

------------------------------------------------------------------

The error is issued by the linker during linking of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

The issue occurs if all of the following conditions apply:
1) The DET is disabled by setting DetEnableDet = false
AND
2) One or more callout functions are configured, e.g. DetErrorHook, DetReportRuntimeErrorCallout or DetReportTransientFaultCallout
AND
3) At least one of the configured callout functions does not exist

### Resolution Description:

Workaround:

------------------------------------------------------------------

The following workarounds are possible:
1) In order to disable the DET remove it from the configuration.
2) Don't link Det_Cfg.o in case DET is disabled in your configuration.
3) Provide the configured callout functions also for a disabled DET.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

**VECTOR** >

| ESCAN00096652 | IllegalStateException is thrown and no files are generated | |
|---|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr | |
| *First affected version:* | 8.07.02 | 45 |
| *Fixed in versions:* | 8.11.01 | |

**Problem Description:**
What happens (symptoms):
------------------------------------------------------------------
An illegalStateException is thrown and no files are generated.
e.g. IllegalStateException: The size of the <A> pointing to <B> does not match to the size of the <C>!

When does this happen:
------------------------------------------------------------------
Always and immediately under specific circumstances. See in which configuration does this happen.

In which configuration does this happen:
------------------------------------------------------------------
Any configuration using Zero2UnsortedNStartEndIdxWithoutLength or One2UnsortedNStartEndIdxWithoutLength indirections in the in the Configuration Class POST-BUILD.

**Resolution Description:**
Workaround:
------------------------------------------------------------------
No workaround available.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00097063 | Auto-Configuration Communication Control: Tx PDU-Groups are not assigned to a channel and can not be selected |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 13.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):
------------------------------------------------------------------
Some Tx PDU-Groups are listed at the end of the communication control view and are marked in grey as not available with the following annotation:

"Channel of corresponding Group PDUs could not be determined"


When does this happen:
------------------------------------------------------------------
Always during execution of the Auto-Configuration Communication Control.


In which configuration does this happen:
------------------------------------------------------------------
In Configurations with at least one Tx Pdu Group, in which all of the Tx Pdus have different global Pdu References in parameters /MICROSAR/PduR/PduRRoutingTables/PduRRoutingTable/PduRRoutingPath/PduRDestPdu and /MICROSAR/PduR/PduRRoutingTables/PduRRoutingTable/PduRRoutingPath/PduRSrcPdu.

***Resolution Description:***

Workaround:
------------------------------------------------------------------
Control of Tx PDU-Groups has to be configured with manual BswM Rules.


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00097240 | CanIf debug data cannot be found in the map file |
|---|---|
| *Component@Subcomponent:* | If_AsrIfCan@GenTool_GeneratorMsr |
| *First affected version:* | 3.07.00 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

During A2L update some symbols of CanIf (that the CanIf generator actually registers through the CFG5 McData Service Interface) cannot be found in the map file.
CanIf_CtrlStates.CtrlModeOfCtrlStates
CanIf_CtrlStates.PduModeOfCtrlStates

When does this happen:

------------------------------------------------------------------

After compilation when the A2L / calibration workflow is used to generate a complete A2L file with addresses of the target.

In which configuration does this happen:

------------------------------------------------------------------

Whenever generation of Debug Data is enabled in DaVinci Configurator and CanIf is used.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

Fix the generated symbols in the A2L file manually before proceeding with the A2L workflow.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00097355 | Auto-Configuration Ecu State Handling: Self run request timeout value is not shown correct in case of 0 |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 11.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

The overview page of the Auto-configuration Ecu State handling does not show the correct value for the self run request timeout. Instead it shows the default value (0.1).


When does this happen:

------------------------------------------------------------------

Always if the value is set to 0.


In which configuration does this happen:

------------------------------------------------------------------

In all configurations with Auto-Configuration Ecu State Handling configured

AND

Value of self run request timeout is set to 0.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00097828 | Compiler error: 'Network' : undeclared identifier |
|---|---|
| *Component@Subcomponent:* | SysService_Asr4BswMCfg5@Implementation |
| *First affected version:* | 10.00.00 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):

----------------------------------------------------------------

The compiler throws an error like the following one:

error C2065: 'Network' : undeclared identifier


When does this happen:

----------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

----------------------------------------------------------------

If the BswM has more than one instance of container BswMConfig (Multi Partition UseCase)

AND

BswMDevErrorDetect is enabled

AND

One of the following Mode Request ports is used:
ComM_InitiateReset
ComM_CurrentPNCMode
Dcm_ApplicationUpdated
EthIf_PortGroupLinkStateChg
J1939DcmBroadcastStatus
EcuM_CurrentState
EcuM_CurrentWakeup
EcuM_RequestedState
Nm_StateChangeNotification
NvM_CurrentBlockMode
NvM_CurrentJobMode
PduR_RxIndication
PduR_TpRxIndication
PduR_TpStartOfReception
PduR_TpTxConfirmation
PduR_Transmit
PduR_TxConfirmation
Sd_ClientServiceCurrentState
Sd_ConsumedEventGroupCurrentState
Sd_EventHandlerCurrentState
WdgM_RequestPartitionReset


**Resolution Description:**

# Issue Report

**VECTOR**

| ESCAN00097828 | Compiler error: 'Network' : undeclared identifier |
|---|---|

Workaround:
------------------------------------------------------------------
No workaround available.


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

| ESCAN00097873 | Generated data streams toggle with each code generation if <MSN>ReduceDataByStreaming is enabled |
|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| *First affected version:* | 1.01.00 |
| *Fixed in versions:* | 8.13.00 |

*Problem Description:*
What happens (symptoms):
------------------------------------------------------------------
Generated Code has to be recompiled or added again to the Users CMS because
the order in streamed CONST arrays is not deterministic and changes by chance with each code generation.

When does this happen:
------------------------------------------------------------------
At generation time.

In which configuration does this happen:
------------------------------------------------------------------
Any configuration where <MSN>ReduceDataByStreaming returns true.

*Resolution Description:*
Workaround:
------------------------------------------------------------------
Configure <MSN>ReduceDataByStreaming to false if available.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00097876 | Generated data streams toggle with each code generation if <MSN>ReduceDataByStreaming is enabled |
|---|---|
| *Component@Subcomponent:* | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| *First affected version:* | 2.00.00 |
| *Fixed in versions:* | |

**Problem Description:**
What happens (symptoms):
----------------------------------------------------------------
Generated Code has to be recompiled or added again to the Users CMS because
the order in streamed CONST arrays is not deterministic and changes by chance with each code generation.

When does this happen:
----------------------------------------------------------------
At generation time.

In which configuration does this happen:
----------------------------------------------------------------
Any configuration where <MSN>ReduceDataByStreaming returns true.

**Resolution Description:**

# Issue Report

**VECTOR >**

| ESCAN00098260 | Erroneous validation message "CanIfMultipleBasicCANTxObjects is not required" |
|---|---|
| ***Component@Subcomponent:*** | If_AsrIfCan@GenTool_GeneratorMsr |
| ***First affected version:*** | 4.02.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Erroneous validation message CANIF10027 (None CAN-channel has multiple BasicCAN Tx-objects. Hence the feature ""CanIfMultipleBasicCANTxObjects" is not required in current configuration and must be disabled.) shows up in CFG5 and cannot be solved.


When does this happen:

------------------------------------------------------------------

During configuration.


In which configuration does this happen:

------------------------------------------------------------------

Multiple CAN drivers are used

AND

There is at least one CAN channel with != 1 BasicCAN Tx-hardware object ("CanHardwareObject" with "CanHandleType" == BASIC and "CanObjectType" == TRANSMIT) for one of the drivers.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

Set the parameter "CanIfMultipleBasicCANTxObjects" to user defined and keep it enabled.
[Error] CANIF10027 is then demoted to a warning that can be ignored.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** ›

| ESCAN00098353 | IllegalStateException is thrown and no files are generated |
|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| **First affected version:** | 5.00.00 |
| **Fixed in versions:** | 8.13.00 |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

An illegalStateException is thrown and no files are generated.
e.g. IllegalStateException: The numberOfDataElements has not been calculated by
VVarIndirectableSizeCreator

When does this happen:

------------------------------------------------------------------

Always and immediately under specific circumstances. See in which configuration does this happen.

In which configuration does this happen:

------------------------------------------------------------------

A IVarElementInArray has multiple IndirectableFeatureDeactivationConditions where two or more
IndirectableFeatureDeactivationConditions are true.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

Find a way that only one IndirectableFeatureDeactivationConditions is true.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00098408 | Compile errors when inline function are used and DataDeduplicationStrategy != NONE | |
|---|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr | 54 |
| *First affected version:* | 8.11.00 | |
| *Fixed in versions:* | 9.00.00 | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

A compile error for undeclared arrays in inline functions.
The arrays are optimized through the ComStackLib and don't exist anymore.

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

Any configuration where EGenDataInterfaceStrategy.INLINE_FUNCTION and DataDeduplicationStrategy != NONE

**Resolution Description:**

Workaround:

------------------------------------------------------------------

Use EGenDataInterfaceStrategy.FUNCTION_LIKE_MACRO

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** ›

| ESCAN00098413 | Linker error: Undefined Symbol <MSN>_Get<ElementTagName>Of<StructTagName> |
|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| *First affected version:* | 8.08.00 |
| *Fixed in versions:* | 9.00.00 |

**Problem Description:**

What happens (symptoms):

-----------------------------------------------------------------

Linker error: Undefined Symbol <MSN>_Get<ElementTagName>Of<StructTagName>

When does this happen:

-----------------------------------------------------------------

Always and immediately at compile time.

In which configuration does this happen:

-----------------------------------------------------------------

The Generator returns in the class which implements ICslGenerationBase in
getPrecompilePreprocessingStrategy() EPrecompilePreprocessingStrategy.PREPROCESSOR_SWITCH
AND
setPrecompilePreprocessingStrategy() is set with
EPrecompilePreprocessingStrategy.RUNTIME_CHECKING in a ConstStruct without elements.

**Resolution Description:**

Workaround:

-----------------------------------------------------------------

set PrecompilePreprocessingStrategy globally to
EPrecompilePreprocessingStrategy.RUNTIME_CHECKING

Resolution:

-----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

| ESCAN00098418 | Compiler error: A generated value is not in range of the specified datatype |
|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| **First affected version:** | 5.00.00 |
| **Fixed in versions:** | 9.00.00 |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

RuntimeExeption "<MSN>90500 The value 18446744073709551615 with comment () is not in the range of the specified datatype" is thrown during generation of the module.

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

if <MSN>ReduceNumericalDataByOffsetThreshold is configured to a value > 0 and if DeduplicationStrategy is NONE.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

configure getReduceNumericalDataByOffsetThreshold() to 0 or use DeduplicationStrategy !=NONE.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

| ESCAN00098464 | Missing increment and decrement function macros for variable indirections |
|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| **First affected version:** | 8.11.00 |
| **Fixed in versions:** | 9.00.00 |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

The increment and decrement function macros are missing for varStructs.

In which configuration does this happen:

------------------------------------------------------------------

when varStructs with variable indirections are used.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR >**

| ESCAN00098477 | Compiler error <MSN>_GetPCConfigIdxOfPBConfig() undefined | |
|---|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr | |
| **First affected version:** | 8.08.00 | |
| **Fixed in versions:** | 9.00.00 | |

**Problem Description:**
What happens (symptoms):
------------------------------------------------------------------
Compiler error <MSN>_GetPCConfigIdxOfPBConfig() undefined.

When does this happen:
------------------------------------------------------------------
The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
- runtime checking is enabled globally
- in variant post-build loadable and selectable=false
- precompile elements

**Resolution Description:**
Workaround:
------------------------------------------------------------------
set PrecompilePreprocessingStrategy to PREPROCESSOR_SWITCH

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00098498 | Linker error: Undefined Symbol <MSN>_Get<ElementTagName>Of<StructTagName> |
|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| *First affected version:* | 8.08.00 |
| *Fixed in versions:* | 9.00.00 |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

Linker error: Undefined Symbol <MSN>_Get<ElementTagName>Of<StructTagName>

When does this happen:

------------------------------------------------------------------

Always and immediately at compile time.

In which configuration does this happen:

------------------------------------------------------------------

The Generator returns in the class which implements ICslGenerationBase in
getPrecompilePreprocessingStrategy() EPrecompilePreprocessingStrategy.PREPROCESSOR_SWITCH
AND
setPrecompilePreprocessingStrategy() is set with
EPrecompilePreprocessingStrategy.RUNTIME_CHECKING in a VarStruct without elements.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

set PrecompilePreprocessingStrategy globally to
EPrecompilePreprocessingStrategy.RUNTIME_CHECKING

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00098584 | NvM NVM01036 validation does not clearly describe the problem |
|---|---|
| ***Component@Subcomponent:*** | MemService_AsrNvM@GenTool_GeneratorMsr |
| ***First affected version:*** | 4.02.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

DaVinci Cfg5 shows the NvM error NVM01036 NVM01036 "NvMCalcRamBlockCrc requires configured NvMBlockCrcType, NvMSelectBlockForReadAll, NvMRamBlockDataAddress and disabled" for NvMBlockDescriptors derived from NvBlockNeeds. Resolving the problem via provided solving action leads to other validation errors in e.g. RTE.

Since the NvMBlockDescriptor is derived from NvBlockNeeds, the error cannot be fixed within the DaVinci Cfg5.

When does this happen:

------------------------------------------------------------------

NvMBlockDescriptor derived from NvBlockNeeds. For other blocks the error shall be clear and resolvable within the Cfg5.

In which configuration does this happen:

------------------------------------------------------------------

NvBlockNeeds with calcRamBlockCrc true, reliability != NO and enabled explicit synchronization leads to NvMBlockDescriptor with NvMBlockUseCrc true, NvMBlockCrcType != NoCrc and NvMBlockUseSyncMechanism.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

Correct the NvMBlockDescriptor preconditions directly within the DaVinci Developer -> ensure the configuration matches the preconditions described in error message NVM01036. Do not use the provided solving action!

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00098632 | Compiler error: Redefinition of <Msn>_Is<BoolConstVar>OfPCConfig |
|---|---|
| ***Component@Subcomponent:*** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| ***First affected version:*** | 5.00.00 |
| ***Fixed in versions:*** | 9.00.00 |

***Problem Description:***

What happens (symptoms):

---------------------------------------------------------------------

Two macros are generated to check if a BoolConstVar is enabled:

1. <Msn>_Is<BoolConstVar>OfPCConfig() ((<Msn>_ConfigDataPtr->
<BoolConstVar>OfPCConfig) != FALSE)
2. <Msn>_Is<BoolConstVar>OfPCConfig() (<MSN>_<BOOLCONSTVAR>OFPCCONFIG_MASK ==
(<Msn>_GetMaskedBitsOfPCConfig(Index) & SOAD_<BOOLCONSTVAR>OFPCCONFIG_MASK))

With both Macros a compiler Error is generated.

When does this happen:

---------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

---------------------------------------------------------------------

2 Configurations:
1. EModuleConfigurationVariant = VARIANT_PRE_COMPILE
 EBoolDataInArrayOfStructStrategy = BITMASKING
 2 or more BoolConstVar are generated
 EPrecompilePreprocessingStrategy = PREPROCESSOR_SWITCH
 selectable = true
2. EModuleConfigurationVariant = VARIANT_PRE_COMPILE
 EBoolDataInArrayOfStructStrategy = BITMASKING
 2 or more BoolConstVar are generated
 EPrecompilePreprocessingStrategy = RUNTIME_CHECKING

***Resolution Description:***

Workaround:

---------------------------------------------------------------------

EBoolDataInArrayOfStructStrategy = BOOLEAN or BITFIELD

Resolution:

---------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00098803 | Tool does not show text when Windows mode is set to Classic | |
|---|---|---|
| *Component@Subcomponent:* | _3rdParty_McalIntegration_Helper@VectorIntegration | |
| *First affected version:* | 2.02.03 | |
| *Fixed in versions:* | 2.03.01 | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

Grid does not contain text when Windows design is set to classic mode.


When does this happen:

------------------------------------------------------------------

When Windows design is set to classic mode.


In which configuration does this happen:

------------------------------------------------------------------

All.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

No workaround available.


Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products:

Step2.AddActionSetsToGridView(...)

Fixed in snapshot 2.03.00.3:
Components.Mcal2:_3rdParty_McalIntegration_Helper@root[2.03.00.3]

# Issue Report

**VECTOR**

| ESCAN00099160 | Patch action fails because file path is too long |
|---|---|
| *Component@Subcomponent:* | _3rdParty_McalIntegration_Helper@VectorIntegration |
| *First affected version:* | 1.00.00 |
| *Fixed in versions:* | 2.03.01 |

**Problem Description:**

What happens (symptoms):

-----------------------------------------------------------------

Performing patch actions on a SIP where the path and/or file names are too long avoid the execution of the patch action. The 3rd Party Integration Helper Tool reports an error in the GUI.


When does this happen:

-----------------------------------------------------------------

If files which have to be patched have a too long path or file name.


In which configuration does this happen:

-----------------------------------------------------------------

All with long path names (> 259 characters).

**Resolution Description:**

Workaround:

-----------------------------------------------------------------

Copy the SIP into a directory with short path. If error still occurs try again with a shorter path. Try as long as path is so short that the error does not occur.

Resolution:

-----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products:

- PatchFiles.PatchFileGeneric(...):
--- redesign
--- use LongPathFile.Open(...) to open files because this method can handle long paths

- FileDirectoryExt.CopyFileLong(...): add log entry if file which have to be copied does not exist
- LongPathFile.CheckReadOnly(...): fix spelling error in

Fixed in following RC:
Components.Mcal2:_3rdParty_McalIntegration_Helper@root[2.03.01.2]

| ESCAN00099352 | ConsistencyRT00002 - Error at validator runtime: CanIfTxBufferSupportValidator |
|---|---|
| ***Component@Subcomponent:*** | If_AsrIfCan@GenTool_GeneratorMsr |
| ***First affected version:*** | 4.06.01 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

The following error occurs in CFG5:

ConsistencyRT00002 Error at validator runtime (1 message)
 ConsistencyRT00002 Consistency: an exception was caught while executing onModelEvent() of a validator. Configuration inconsistencies couldn't be reported by this validator.
ModelView:UnfilteredInvariantProjectModelView
This is not a configuration problem but an internal implementation error. Please contact Vector for support.
Validator-Class:
com.vector.cfg.gen.If_AsrIfCan.validation.TxValidators.TxBufferValidators.CanIfTxBufferSupportVali
Validator-Description:Setting control of features: "CanIfPublicTxBuffering,
"CanIfMultipleBasicCANTxObjects" and "CanIfCtrlDrvTxCancellation".
Further runtime errors of this validator won't be reported in the UI.
Ex: java.lang.IllegalArgumentException: The passed instance element (/ActiveEcuC/Can/
CanConfigSet/CN_PB_9dcd9cfb_Tx (DefRef: /MICROSAR/Can_CanoeemuCanoe/Can/CanConfigSet/
CanHardwareObject)) is not unique in the ModelTraverser InstanceTree.
You can only pass elements which are unique in the InstanceTree, or you have to use the
selectxxxAsSubView() methods.
Please enable debug log level to see more details.
We are sorry, but due to this internal error, code generation of /MICROSAR/CanIf, /[ANY]/Can has
to be blocked. As a workaround, you may try to restart DaVinci Configurator. Otherwise, please
call Vector for support.
 /ActiveEcuC/Can
 /ActiveEcuC/CanIf

When does this happen:

------------------------------------------------------------------

During configuration

In which configuration does this happen:

------------------------------------------------------------------

The same Can/CanConfigSet/CanHardwareObject is referenced by multiple CanIf/CanIfInitCfg/
CanIfInitHohCfg/CanIfHthCfg/CanIfHthIdSymRef

***Resolution Description:***

Workaround:

------------------------------------------------------------------

Referencing the same CanHardwareObject from multiple CanIfHthCfgs is a mis-configuration -
delete the duplicated CanIfHthCfgs and reload the configuration to avoid the exception.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00099427 | Compiler error <MSN>_Get<Parameter>OfPCConfig() undefined | |
|---|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr | |
| *First affected version:* | 8.08.00 | |
| *Fixed in versions:* | 10.00.01, 9.01.01 | |

*Problem Description:*

What happens (symptoms):

------------------------------------------------------------------

Compiler error undefined <MSN>_Get<Parameter>OfPCConfig() Macro.
An invalid <MSN>_Get<Parameter>OfPCConfig() Macro is generated with the CSL Optimization ReduceConstantData2Define = true and RUNTIME_CHECKING.

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

EModuleConfigurationVariant = PRECOMPILE
isReduceConstantData2Define = true
EPrecompilePreprocessingStrategy = RUNTIME_CHECKING
empty Const Array

*Resolution Description:*

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00099461 | Messages having 'FrameRouting' attribute with value 'NONE' are not ignored for routing | |
|---|---|---|
| *Component@Subcomponent:* | GenTool_CsAsrLegacyDb2SystemDescr@Application | |
| *First affected version:* | 1.08.18 | |
| *Fixed in versions:* | 1.08.22 | |

*Problem Description:*

What happens (symptoms):

----------------------------------------------------------------

Messages with attribute 'FrameRouting' == 'NONE' are not converted correctly. They are considered for gateway routing instead of being treated as having no attribute 'FrameRouting' at all.

When does this happen:

----------------------------------------------------------------

During conversion of dbc.

In which configuration does this happen:

----------------------------------------------------------------

In every dbc containing attribute 'FrameRouting' with value 'NONE'.

*Resolution Description:*

Workaround:

----------------------------------------------------------------

To exclude from gateway routing, delete attribute 'FrameRouting'.

Resolution:

----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00099525 | CanTpEnableSynchronousTransmit cannot be used with non MICROSAR Components | |
|---|---|---|
| *Component@Subcomponent:* | Tp_Asr4TpCan@Doc_TechRef | 66 |
| *First affected version:* | 3.01.00 | |
| *Fixed in versions:* | | |

*Problem Description:*

What happens (symptoms):
------------------------------------------------------------------
Add a warning box to chapter 3.1.2.8 and to the integration chapter that
CanTpEnableSynchronousTransmit cannot be used with non MICROSAR components.

When does this happen:
------------------------------------------------------------------
At runtime.

In which configuration does this happen:
------------------------------------------------------------------
Any configuration where CanTp/CanTpGeneral/CanTpEnableSynchronousTransmit is configured to
true.

*Resolution Description:*

Workaround:
------------------------------------------------------------------
No workaround available.


Resolution:
------------------------------------------------------------------
Not yet available.

# Issue Report

**VECTOR** ❯

| ESCAN00099526 | CanTpEnableSynchronousTransmit cannot be used with non MICROSAR Components |
|---|---|
| *Component@Subcomponent:* | Gw_AsrPduRCfg5@GenTool_GeneratorMsr |
| *First affected version:* | 5.00.00 |
| *Fixed in versions:* | 14.02.00 |

*Problem Description:*

What happens (symptoms):

------------------------------------------------------------------

The feature CanTpEnableSynchronousTransmit cannot be used with non MICROSAR components because the functionality is not specified by AUTOSAR.

When does this happen:

------------------------------------------------------------------

At runtime.

In which configuration does this happen:

------------------------------------------------------------------

Any configuration where the PduR is used and suggests to set CanTpEnableSynchronousTransmit to true.

*Resolution Description:*

Workaround:

------------------------------------------------------------------

Set the CanTp/CanTpGeneral/CanTpEnableSynchronousTransmit to UserDefined and false.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

| ESCAN00099582 | Compiler error: actAES.h:23 missing argument for macro P2FUNC |
|---|---|
| *Component@Subcomponent:* | SysService_CryptoCv@Impl_actCLib |
| *First affected version:* | 2.00.00 |
| *Fixed in versions:* | 3.02.00, 2.10.01 |

*Problem Description:*

What happens (symptoms):

------------------------------------------------------------------

actAES.h:23 23 missing argument for macro P2FUNC:23 23 missing argument for macro P2FUNC

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

If aes is used.

*Resolution Description:*

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00099640 | Compiler error: CAN driver with infix not supported |
|---|---|
| ***Component@Subcomponent:*** | FblWrapperCom_PduR@Implementation |
| ***First affected version:*** | 4.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

The dependencies to the CAN driver cannot be resolved.

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

CAN driver with infix is used.
E.g. DrvCan_Spc58xxMcanAsr placed in folder Can_30_Mcan.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

Create a header file Can.h, which remaps all infixed function and data type identifiers to match the name without infix used by fbl_cw.c, e.g.

#define Can_MainFunction_Write Can_30_Mcan_MainFunction_Write

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00099689 | Missing icon in tool bar icon of Helper Tool |
|---|---|
| **Component@Subcomponent:** | _3rdParty_McalIntegration_Helper@VectorIntegration |
| **First affected version:** | 2.02.03 |
| **Fixed in versions:** | |

**Problem Description:**

What happens (symptoms):

---------------------------------------------------------------

If icon size is set to big in the settings of the windows task bar, the tool icon of Helper Tool is not shown correctly. See attached screenshot.
Second case: if Windows 10 is used the icon size is not relevant but the problem occurs.

When does this happen:

---------------------------------------------------------------

If icon size is set to big in the settings of the windows task bar.


In which configuration does this happen:

---------------------------------------------------------------

All.

**Resolution Description:**

Workaround:

---------------------------------------------------------------

No workaround available in case of Windows 10 is used and the icon size is not changed.
In all other cases the icon size shall be set to small then the problem does not occur.



Resolution:

---------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

**VECTOR**

| ESCAN00099860 | Compiler error: shift count is too large |
|---|---|
| *Component@Subcomponent:* | FblDef@Implementation |
| *First affected version:* | 4.00.00 |
| *Fixed in versions:* | 4.04.01 |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

V_MEMROM0 static V_MEMROM1 tStateBitmap V_MEMROM2
kDiagStateMaskGeneralConditions[STATECHECK_ARRAYSIZE] =
STATE_BUILDARRAY(kDiagStateMaskAllLong);
fbl_diag.c",609 Error[Pe063]: shift count is too large

When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as
described below.

In which configuration does this happen:

------------------------------------------------------------------

All configurations

**Resolution Description:**

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

| ESCAN00099864 | Generation Error: ArxmlToA2l01009 - Generation of A2L file failed |
|---|---|
| **Component@Subcomponent:** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| **First affected version:** | 5.00.00 |
| **Fixed in versions:** | 10.00.02, 8.11.03, 9.01.01 |

**Problem Description:**

What happens (symptoms):

-------------------------------------------------------------------

DVMcDataConverter returned exit code 1. [Error] MICROSAR McDataConverter: M1001 An element with the same name "Initialized" has already been processed;
McDataConverter can't be generated because of same shortname of MC-DATA-INSTANCE in internal behaviours of different modules.

When does this happen:

-------------------------------------------------------------------

The error is issued by the generator during generation of Cfg5.

In which configuration does this happen:

-------------------------------------------------------------------

- generate debug data is enabled
- isSelectable = true

**Resolution Description:**

Workaround:

-------------------------------------------------------------------

Switch off generate debug data.
If you need the debug data the error can be fixed manually. Contact the support Microsar@de.vector.com for further details.

Resolution:

-------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

| ESCAN00099959 | Compiler error: undefined reference to `CanTp_IsTxSduCfgIndUsedOfRxPduMap' |
|---|---|
| ***Component@Subcomponent:*** | Tp_Asr4TpCan@Implementation |
| ***First affected version:*** | 2.01.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

The following errors are shown when trying to build the project:

CanTp.c:(.text.CanTp_RxIndication+0x30): error: undefined reference to
`CanTp_IsTxSduCfgIndUsedOfRxPduMap'

CanTp.c:(.text.CanTp_RxIndication+0x3a): error: undefined reference to
`CanTp_GetTxSduCfgIndStartIdxOfRxPduMap'

CanTp.c:(.text.CanTp_RxIndication+0x40): error: undefined reference to `CanTp_GetTxSduCfgInd'

CanTp.c:(.text.CanTp_RxIndication+0x436): error: undefined reference to
`CanTp_IsTxSduCfgIndUsedOfRxPduMap'


When does this happen:

------------------------------------------------------------------

The error is issued by the compiler during compilation of the code in case the configuration is as
described below.

In which configuration does this happen:

------------------------------------------------------------------

This happens in configurations fulfilling all of the following conditions:

- The CanTp is configured to support Postbuild-Selectable (the macro
CANTP_POSTBUILD_VARIANT_SUPPORT in CanTp_Cfg.h is defined as STD_ON)

- The Implementation variant is set to VARIANT-PRE-COMPILE ( the macro
CANTP_CONFIGURATION_VARIANT in CanTp_Cfg.h is defined as
CANTP_CONFIGURATION_VARIANT_PRECOMPILE)

- No Tx SDUs are configured (the macro CANTP_NUM_TX_SDUS in CanTp_Cfg.h is defined as 0)

***Resolution Description:***

# Issue Report

| ESCAN00099959 | Compiler error: undefined reference to `CanTp_IsTxSduCfgIndUsedOfRxPduMap' |
|---|---|

Workaround:
----------------------------------------------------------------
Add a user configuration file to the CanTp (CanTp/CanTpGeneral/CanTpUserConfigFile) with the following lines:

```
#if (CANTP_POSTBUILD_VARIANT_SUPPORT == STD_ON) &&
(CANTP_CONFIGURATION_VARIANT == CANTP_CONFIGURATION_VARIANT_PRECOMPILE) &&
(CANTP_NUM_TX_SDUS == 0)

# if !defined (CanTp_IsTxSduCfgUsedOfTxSduSnv2Hdl)
# define CanTp_IsTxSduCfgUsedOfTxSduSnv2Hdl(x) FALSE
# endif

# if !defined (CanTp_GetTxSduCfgIdxOfTxSduSnv2Hdl)
# define CanTp_GetTxSduCfgIdxOfTxSduSnv2Hdl(x)(PduIdType)0
# endif

# if !defined (CanTp_IsTxSduCfgUsedOfRxSduCfg)
# define CanTp_IsTxSduCfgUsedOfRxSduCfg(x) FALSE
# endif

# if !defined (CanTp_GetTxSduCfgIdxOfRxSduCfg)
# define CanTp_GetTxSduCfgIdxOfRxSduCfg(x) (PduIdType)0
# endif

# if !defined (CanTp_IsTxSduCfgIndUsedOfRxPduMap)
# define CanTp_IsTxSduCfgIndUsedOfRxPduMap(x) FALSE
# endif

#endif
```

Resolution:
----------------------------------------------------------------
Not yet available.

| ESCAN00099959 | Compiler error: undefined reference to `CanTp_IsTxSduCfgIndUsedOfRxPduMap' |
|---|---|

# Issue Report

**VECTOR**

| ESCAN00100154 | Speed optimized CRC32 is not calculated correctly |
|---|---|
| *Component@Subcomponent:* | SysService_SecModHis@Impl_Crc |
| *First affected version:* | 2.04.00 |
| *Fixed in versions:* | 2.04.02 |

**Problem Description:**
What happens (symptoms):
------------------------------------------------------------------
Speed optimized CRC is not calculated correctly.


When does this happen:
------------------------------------------------------------------
When a CRC is calculated.


In which configuration does this happen:
------------------------------------------------------------------
Platforms with an "int" type smaller than 32 Bit
and
Speed optimization (SEC_CRC_OPT == SEC_CRC_SPEED_OPTIMIZED) is used for non-reflected
CRCs (SEC_CRC_32_MODE == SEC_CRC_MODE_NON_REFLECTED).

**Resolution Description:**
Workaround:
------------------------------------------------------------------
Use size optimized CRC calculation variant.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

| ESCAN00100193 | Improve description |
|---|---|
| *Component@Subcomponent:* | AN-ISC-8-1184_Compiler_Warnings@Doc_ApplicationNote |
| *First affected version:* | 1.00.00 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

The application note can be misinterpreted how globally accepted compiler warnings are handled.

When does this happen:

------------------------------------------------------------------

When reading the application note.

In which configuration does this happen:

------------------------------------------------------------------

N/A

**Resolution Description:**

Workaround:

------------------------------------------------------------------

The application note stated that there are ESCANs for all compiler warnings.
ESCANs are not required if compiler warnings are caused by the documented standard usecases.
Keep this in mind when reading the application note.


Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

## 2.6 Compiler Warnings

As a service we also provide the known compiler warnings. The occurrence of a compiler warning may depend on the used software module configuration and compiler settings.

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# Issue Report

**VECTOR**

## Index

# Issue Report

| ESCAN00051574 | [MSR4 only] Compiler warning: statement is unreachable |
|---|---|
| **Component@Subcomponent:** | SysService_AsrDet@Implementation |
| **First affected version:** | 5.00.00 |
| **Fixed in versions:** | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

Compiler warns for unreachable statement in API function Det_ReportError

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

Configurations with disabled "Enable Extended Debug Support" and DET_AUTOSARVERSION == 4

**Resolution Description:**

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is not resolved because there is no technical solution.

# Issue Report

**VECTOR**

| ESCAN00055157 | Compiler warning: truncating assignment |
|---|---|
| *Component@Subcomponent:* | Common_Vdef@Implementation |
| *First affected version:* | 1.00.00 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):
------------------------------------------------------------------
A compiler warning similar the following may occur:
#warning cps12x ../../../external/BSW/Can\can_drv.c:<Line> truncating assignment

The following statements are issues by the compiler:
if ( CanLL_HwIsSleep(CAN_HW_CHANNEL_CANPARA_ONLY) ) { return ( VUINT8_CAST
( canStatus[channel] | kCanHwIsSleep ) ); }
if ( CanLL_HwIsStop(CAN_HW_CHANNEL_CANPARA_ONLY) ) { return ( VUINT8_CAST
( canStatus[channel] | kCanHwIsStop ) ); }
if ( CanLL_HwIsBusOff(CAN_HW_CHANNEL_CANPARA_ONLY) ) { return (( VUINT8_CAST
canStatus[channel] | kCanHwIsBusOff ) ); }
if ( CanLL_HwIsPassive(CAN_HW_CHANNEL_CANPARA_ONLY) ) { return ( VUINT8_CAST
( canStatus[channel] | kCanHwIsPassive ) ); }
if ( CanLL_HwIsWarning(CAN_HW_CHANNEL_CANPARA_ONLY) ) { return ( VUINT8_CAST
( canStatus[channel] | kCanHwIsWarning ) ); }
return ( VUINT8_CAST (canStatus[channel] & kCanTxOn) );


When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is
as described below.


In which configuration does this happen:
------------------------------------------------------------------
In every configuration

**Resolution Description:**

Workaround:
------------------------------------------------------------------
Ignore the warning.

Nevertheless, the affected components (e.g. CAN driver) can be corrected by inserting the
following lines in the component user config file:

#if defined (C_DRV_INTERNAL)
# if defined (C_COMP_COSMIC_MCS12_MSCAN)
# undef VUINT8_CAST
# define VUINT8_CAST (vuint8)
# endif
#endif

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00065890 | Compiler warning: cast discards '__attribute__((noreturn))' qualifier from pointer target type |
|---|---|
| ***Component@Subcomponent:*** | DrvCan_Mpc5700McanLl@Implementation |
| ***First affected version:*** | 1.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***
What happens (symptoms):
------------------------------------------------------------------
The compiler generates the following warning:

Compiling file: ../../../external/BSW/Can/Can.c
../../../external/BSW/Can/Can.c: In function 'CanBasicCanMsgReceived':
../../../external/BSW/Can/Can.c:1745:16: warning: cast discards '__attribute__((noreturn))' qualifier from pointer target type [-Wcast-qual]
../../../external/BSW/Can/Can.c:1750:10: warning: cast discards '__attribute__((noreturn))' qualifier from pointer target type [-Wcast-qual]
../../../external/BSW/Can/Can.c:1780:55: warning: cast discards '__attribute__((noreturn))' qualifier from pointer target type [-Wcast-qual]

When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
GNU compiler and -Wcast-qual compiler option is used

***Resolution Description:***
Workaround:
------------------------------------------------------------------
Omit gcc command option -Wcast-qual.


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00065891 | Compiler warning: cast increases required alignment of target type |
|---|---|
| *Component@Subcomponent:* | DrvCan_Mpc5700McanLl@Implementation |
| *First affected version:* | 1.00.00 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):

----------------------------------------------------------------

Compiler generates the following warning:

Compiling file: ../../../external/BSW/Can/Can.c
../../../external/BSW/Can/Can.c: In function 'CanBasicCanMsgReceived':
../../../external/BSW/Can/Can.c:1745:16: warning: cast increases required alignment of target type [-Wcast-align]
../../../external/BSW/Can/Can.c:1750:10: warning: cast increases required alignment of target type [-Wcast-align]
../../../external/BSW/Can/Can.c:1752:29: warning: cast increases required alignment of target type [-Wcast-align]
../../../external/BSW/Can/Can.c:1758:30: warning: cast increases required alignment of target type [-Wcast-align]

When does this happen:

----------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

----------------------------------------------------------------

GNU compiler and -Wcast-align compiler option is used

**Resolution Description:**

Workaround:

----------------------------------------------------------------

Omit gcc command option -Wcast-align

Resolution:

----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00067159 | Compiler warning: cast truncates constant value |
|---|---|
| *Component@Subcomponent:* | MemService_AsrNvM@Implementation |
| *First affected version:* | 3.08.01 |
| *Fixed in versions:* | |

*Problem Description:*
What happens (symptoms):
-----------------------------------------------------------------

>..\..\bsw\nvm\nvm_crc.c(229) : warning C4310: cast truncates constant value

When does this happen:
-----------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
-----------------------------------------------------------------
CANoeEmu + VS2008
It depends on definition of uint16_least: Warning occures only if uint16_least is not of type int.

Hint:
-----------------------------------------------------------------
The compiler warning is known and has been analyzed thoroughly for its impact on the code. Nevertheless it will not be fixed, because the cast confirms and enforces this behavior (i.e. the value SHALL be truncated, if necessary).
Additionally: Why uint16_least is not (unsigned) int? -> this data type fulfills all requirements on a 16 bit unsigned value...

*Resolution Description:*
Workaround:
-----------------------------------------------------------------
No workaround necessary.

Resolution:
-----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00068434 | Compiler warning: conditional expression or part of it is always true/false |
|---|---|

| | | |
|---|---|---|
| *Component@Subcomponent:* | DrvCan__coreAsr@Implementation | |
| *First affected version:* | 4.00.00 | |
| *Fixed in versions:* | | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

- Compiler warns for "condition is always true": This may happen depending on configuration, i.e. assert checks

in function Can_SetControllerMode following code is available

...
 transitionRequest = kCanRequested;

 CanMicroModeRestore();
 }
 if ( transitionRequest == CAN_NOT_OK ) /* PRQA S 3355,3356,3358,3359 */ /* MD_Can_13.7 */
 { /* PRQA S 3201 */ /* MD_Can_3201 */
 retval = CAN_NOT_OK;
 transitionDone = CAN_NOT_OK; /* at least one HW channel is not in new state (CAN_MSR40: poll later) */
 }

..

this issues following compiler warning:
 if ( transitionRequest == CAN_NOT_OK ) - warning (dcc:1606): conditional expression or part of it is always true/false


When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

All configurations.
but not for all Platform implementations (hw always return OK for state transition)

***Resolution Description:***

Workaround:

------------------------

Ignore warning

# Issue Report

**VECTOR**

| ESCAN00068435 | Compiler warning: narrowing or signed-to-unsigned type conversion found: unsigned int to unsigned char |
|---|---|
| ***Component@Subcomponent:*** | MemService_AsrNvM@Implementation |
| ***First affected version:*** | 3.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

-----------------------------------------------------------------

- Compiler warns for narrowing or signed-to-unsigned type conversion found: unsigned int to unsigned char

Warning occurs in following function:
FUNC(void, NVM_PRIVATE_CODE) NvM_QueueInit(void)

 ...
 NvM_JobQueue_at[index].PrevEntry = index - 1u;

When does this happen:

-----------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

-----------------------------------------------------------------

It happens in all configurations

Hint:

-----------------------------------------------------------------

The compiler warning is known and has been analyzed thoroughly for its impact on the code. Nevertheless it will not be fixed due to MISRA 2004 - implicit conversion is allowed in this case. Additionally, it is obvious that actually no narrowing occurs (even a compiler could be capable of detection). Result of expression is always in range of [0,254].

***Resolution Description:***

Workaround:

-----------------------------------------------------------------

Just ignore warning.

Resolution:

-----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR >**

| ESCAN00068872 | Compiler warning: the order of volatile accesses is undefined in this statement | |
|---|---|---|
| *Component@Subcomponent:* | DrvCan__coreAsr@Implementation | |
| *First affected version:* | 3.00.00 | |
| *Fixed in versions:* | | |

**Problem Description:**
What happens (symptoms):
---------------------------------------------------------------
Compiler issues warning messages like this:
undefined behavior: the order of volatile accesses is undefined in this statement


When does this happen:
-----------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.


In which configuration does this happen:
-----------------------------------------------------------------
Rx Queue is enabled

**Resolution Description:**
Workaround:
-----------------------------------------------------------------
Ignore Warning


Resolution:
-----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00077761 | Compiler warning: Conversion from integer to smaller pointer |
|---|---|
| ***Component@Subcomponent:*** | SysService_SecModHis@Impl_Verification |
| ***First affected version:*** | 2.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Compiler warns: Conversion from integer to smaller pointer

Example for IAR compiler:
pWorkspace = (V_MEMRAM1 SEC_VERIFY_CLASS_CCC_WORKSPACE_TYPE V_MEMRAM2
V_MEMRAM3 *)pVerifyParam->currentHash.sigResultBuffer;
D:\usr\usage\Delivery\CBD14x\CBD1400332\D01\external\BSW\SecMod\Sec_Verification.c",1335
Warning[Pe1053]: conversion from integer to smaller pointer

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is
as described below.

In which configuration does this happen:

------------------------------------------------------------------

Always.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00081459 | Compiler warning: function "ApplCanTimerLoop" was declared but never referenced |
|---|---|
| ***Component@Subcomponent:*** | DrvCan__coreAsr@Implementation |
| ***First affected version:*** | 4.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***
What happens (symptoms):
------------------------------------------------------------------
compiler warning: function "ApplCanTimerLoop" was declared but never referenced

When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
In all configurations where feature SLeep/Wakeup is not enabled. And no other transition needs this hardware transition loop.

Hint:
------------------------------------------------------------------
The compiler warning is known and has been analyzed thoroughly for its impact on the code. Nevertheless it will not be fixed due to compiler will remove this function so no effect in code size will occur.
And the code complexity will increase significant to fix this problem by pre-processor switches

***Resolution Description:***
Workaround:
------------------------------------------------------------------
Ignore Warning


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00087501 | Compiler warning: "signed/unsigned mismatch" due to missing cast in 0:N or 1:N indirections |
|---|---|
| ***Component@Subcomponent:*** | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| ***First affected version:*** | 1.00.00 |
| ***Fixed in versions:*** | 8.01.00 |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

"Signed/unsigned mismatch" compiler warning due to missing cast for the subtracted indirection length.
The length macro of a 0:N or 1:N indirection calculates the length through endIndex - startIndex. This subtraction can be interpreted by the compiler as a signed value without a explicit unsigned cast.

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

any configuration using 0:N or 1:N Indirections with the length member
AND
the indirection configuration class is PRE-COMPILE

***Resolution Description:***

Workaround:

------------------------------------------------------------------

Perform a cast in your embedded code.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00087536 | Compiler warning: 'function' : conversion from 'const <SomeType>' to '<AnotherType>', possible loss of data |
|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr |
| *First affected version:* | 7.00.00 |
| *Fixed in versions:* | 8.07.00 |

*Problem Description:*

What happens (symptoms):
------------------------------------------------------------------
Compiler warns for possible loss of data in the module source code: 'function' : conversion from 'const <SomeType>' to '<AnotherType>', possible loss of data

When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
The module is in the configuration variant postbuild loadable or postbuild loadable selectable AND
indirections are modelled in the code generator pointing from the configuration class is POSTBUILD to a destination in the configuration class PRE-COMPILE or LINK.

OR

if the <MSN>NumericalDataTypeMinimizationStrategy if applicable is configured to NONE.

*Resolution Description:*

Workaround:
------------------------------------------------------------------
Add a type cast if in the embedded source code to avoid the warning.
OR
Do not offer <MSN>NumericalDataTypeMinimizationStrategy with NONE.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00088061 | BswM_Lcfg.c: warning: 'function' : conversion from 'const BswM_ImmediateUserStartIdxOfModeReqeustMappir to 'BswM_SizeOfImmediateUserType', possible loss of data |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 7.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

BswM_Lcfg.c: warning: 'function' : conversion from 'const BswM_ImmediateUserStartIdxOfModeReqeustMappingType' to 'BswM_SizeOfImmediateUserType', possible loss of data

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

All

***Resolution Description:***

# Issue Report

**VECTOR** 

| ESCAN00088362 | Compiler warning: "cast truncates constant value" with signed data | |
|---|---|---|
| *Component@Subcomponent:* | CommonAsr_ComStackLib@GenTool_GeneratorMsr | |
| *First affected version:* | 1.00.00 | |
| *Fixed in versions:* | 8.01.00 | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

Compiler warns for "cast truncates constant value" due to cast of subtracted signed data.

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

your component generator generates signed data in the configuration class precompile
AND
your component generator implementation returns in isReduceConstantData2Define() true
AND
your component generator implementation returns in getDataDeduplicationStrategy() != EDataDeduplicationStrategy.NONE

**Resolution Description:**

Workaround:

------------------------------------------------------------------

If the values for isReduceConstantData2Define() and getDataDeduplicationStrategy() are user configurable, you have a workaround else not.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00089241 | Compiler warning: multiple warnings | |
|---|---|---|
| *Component@Subcomponent:* | SysService_CryptoCv@Impl_actCLib | |
| *First affected version:* | 1.00.00 | 92 |
| *Fixed in versions:* | | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

- Compiler warns for possible loss of data: Check if cast is missing and if there is really a data loss due to an implicit/explicit cast on the target platform
- Compiler warns for ambiguous code, parentheses recommended.


When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.


In which configuration does this happen:

------------------------------------------------------------------

Always.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

No workaround available.


Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00089424 | Compiler warning: dead assignment to "returnValue" eliminated | |
|---|---|---|
| *Component@Subcomponent:* | SysService_CryptoCv@Impl_ESLib | 93 |
| *First affected version:* | 1.00.00 | |
| *Fixed in versions:* | | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Compiling file: ../../../BSW/SecMod/ESLib_RSA_V15_Ver_SHA256.c

ctc W588: ["../../../BSW/SecMod/ESLib_RSA_V15_Ver_SHA256.c" 193/17] dead assignment to "returnValue" eliminated
ctc W588: ["../../../BSW/SecMod/ESLib_RSA_V15_Ver_SHA256.c" 358/17] dead assignment to "returnValue" eliminated

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

- Signature verification using RSASSA-PKCS1-v1_5 is used

***Resolution Description:***

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00089425 | Compiler warning: missing braces around initializer |
|---|---|
| *Component@Subcomponent:* | SysService_CryptoCv@Impl_ESLib |
| *First affected version:* | 1.01.01 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):

-------------------------------------------------------------------

Compiling file: ../../../BSW/SecMod/ESLib_version.c
ctc W542: ["../../../BSW/SecMod/ESLib_version.c" 73/4] missing braces around initializer

When does this happen:

-------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

-------------------------------------------------------------------

In all configurations.

**Resolution Description:**

Workaround:

-------------------------------------------------------------------

Since ESLib_version.c is only used for component testing, it can be excluded from the build for integration.

Resolution:

-------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00091340 | Compiler warning: cast truncates constant value |
|---|---|
| *Component@Subcomponent:* | If_AsrIfCan@Implementation |
| *First affected version:* | 5.00.00 |
| *Fixed in versions:* | 6.17.00 |

*Problem Description:*

What happens (symptoms):

------------------------------------------------------------------

Compile warning occurs.

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

If partial network wakeup PDU filtering is active.
(canifcfg.h: CANIF_PN_WU_TX_PDU_FILTER == STD_ON)

*Resolution Description:*

Workaround:

------------------------------------------------------------------

No workaround available. Issue is checked and not critical.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00091343 | Compiler warning: warning C4310: cast truncates constant value |
|---|---|
| ***Component@Subcomponent:*** | If_AsrIfCan@Implementation |
| ***First affected version:*** | 6.09.00 |
| ***Fixed in versions:*** | 6.17.00 |

***Problem Description:***
What happens (symptoms):
------------------------------------------------------------------
Compile warning occurs.

When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
If transmit buffer is configured as FIFO and cancel API is supported.
(canifcfg.h: CANIF_TRANSMIT_BUFFER_FIFO == STD_ON && CANIF_CANCEL_SUPPORT_API == STD_ON)

***Resolution Description:***
Workaround:
------------------------------------------------------------------
No workaround available. Warning was checked, not critical.


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00092073 | Compiler warning: condition is always true |
|---|---|
| **Component@Subcomponent:** | SysService_SecModHis@Impl_SeedKey |
| **First affected version:** | 3.01.00 |
| **Fixed in versions:** | |

**Problem Description:**

What happens (symptoms):

------------------------------------------------------------------

Compiler: Tasking 3.0r3:
c166 W549: ["../../../BSW/SecMod/Sec_SeedKey.c" 370/19] condition is always true


```
SecM_StatusType SecM_GenerateSeed( V_MEMRAM1 SecM_SeedType V_MEMRAM2 V_MEMRAM3
* seed )
{

 /* Generate pseudo random numbers */
 result = SEC_PRNG_GENERATE_RANDOM(SEC_PRNG_POOL, pRandom, SEC_WORD_TYPE_SIZE);
<-------------------- SecM_GenerateRandomLcg () returns always SECM_OK

 if (SECM_OK == result) <---------- always true
 {
 /* Generate pseudo random numbers */
 result = SEC_PRNG_GENERATE_RANDOM(SEC_PRNG_POOL, pRandom, SEC_WORD_TYPE_SIZE);
 pBaseSeed->seedY = SecM_GetInteger(SEC_WORD_TYPE_SIZE, pRandom);

 }
}
```

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

When utilized random number generator always succeeds and therefore always returns SECM_OK.

**Resolution Description:**

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00092074 | Compiler warning: condition is always false |
|---|---|
| *Component@Subcomponent:* | SysService_SecModHis@Impl_SeedKey |
| *First affected version:* | 3.01.00 |
| *Fixed in versions:* | |

**Problem Description:**

What happens (symptoms):
--------------------------------------------------------------------
Compiler: Tasking 3.0r3:
c166 W549: ["../../../BSW/SecMod/Sec_SeedKey.c" 221/18] condition is always false

```
#define SEC_WORD_TYPE_SIZE 4u

SecM_StatusType SecM_GenerateSeed( V_MEMRAM1 SecM_SeedType V_MEMRAM2 V_MEMRAM3
* seed )
{
result = SEC_PRNG_GENERATE_RANDOM(SEC_PRNG_POOL, pRandom, SEC_WORD_TYPE_SIZE);
<---------
}


static SecM_StatusType SecM_GenerateRandomLcg( V_MEMRAM1 SecM_ByteType V_MEMRAM2
V_MEMRAM3 * pRandom, SecM_LengthType length )
{

 byteCount = length;

 if (byteCount > SEC_WORD_TYPE_SIZE)<------------------ always false since we always pass
"SEC_WORD_TYPE_SIZE"
 {
 byteCount = SEC_WORD_TYPE_SIZE;
 }

}
```

When does this happen:
--------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is
as described below.

In which configuration does this happen:
--------------------------------------------------------------------
For all configurations where LCG random number generator is used and seed length doesn't
exceed size of word type (32 bit / 4 byte).

**Resolution Description:**

Workaround:
--------------------------------------------------------------------
No workaround available.


Resolution:
--------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00093016 | Compiler Warning: possible truncation at implicit conversion to type "unsigned short int" |
|---|---|
| ***Component@Subcomponent:*** | FblMio@Implementation |
| ***First affected version:*** | 2.00.00 |
| ***Fixed in versions:*** | |

**Problem Description:**

What happens (symptoms):

----------------------------------------------------------------

Compiler warning: ctc W560: possible truncation at implicit conversion to type "unsigned short int"

When does this happen:

----------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

----------------------------------------------------------------

in every configuration

**Resolution Description:**

Workaround:

----------------------------------------------------------------

No workaround available.

Resolution:

----------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** 

| ESCAN00096165 | Compiler warning: : incompatible redefinition of macro "LOCAL_INLINE" in v_def.h |
|---|---|
| ***Component@Subcomponent:*** | Common_Vdef@Implementation |
| ***First affected version:*** | 3.55.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):
------------------------------------------------------------------
The compiler warns about incompatible redefinition of macro "LOCAL_INLINE" in v_def.h.

When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
V_def.h and compiler.h are used in one system. This are mixed system with CANbedded and Autosar modules.
AND v_def.h is included before compiler.h.
AND the definition of LOCAL_INLINE differs between v_def.h and compiler.h

Hint:
------------------------------------------------------------------
The compiler warning is known and has been analyzed thoroughly for its impact on the code. Nevertheless it will not be fixed due there is no fix inside this component possible and a workaround is available.

***Resolution Description:***

Workaround:
------------------------------------------------------------------
The definition of LOCAL_INLINE has to be copied from compiler.h to the user configuration file of v_cfg.h .

#define LOCAL_INLINE <depends on compiler>

Resolution:
------------------------------------------------------------------
The issue will not be resolved.

# Issue Report

**VECTOR**

| ESCAN00097851 | Compiler warning: FblUpdCheckAddressRange was declared but never referenced |
|---|---|
| ***Component@Subcomponent:*** | FblUpd_Main@Implementation |
| ***First affected version:*** | 3.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):
----------------------------------------------------------------
Compiler warning is issue by the compiler:

..\Vector_FBL_SIP_Rh850\BSW\FblUpd\upd_main.c", line 411: warning #177-D:
 function "FblUpdCheckAddressRange" was declared but never referenced
 static tFblResult FblUpdCheckAddressRange( tFblAddress address, tFblAddress rangeStart,
tFblLength rangeLength )


When does this happen:
----------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is
as described below.

In which configuration does this happen:
----------------------------------------------------------------
FBL_UPD_ENABLE_HOOK_ADJUST_SEGMENT_PROGRAM and
FBL_UPD_ENABLE_HOOK_ADJUST_SEGMENT_VALIDITY are not defined.

***Resolution Description:***

Workaround:
----------------------------------------------------------------
No workaround available.


Resolution:
----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** >

| ESCAN00098070 | Compiler warning: NvM_Cfg.c: 'ServiceId' : unreferenced formal parameter | |
|---|---|---|
| ***Component@Subcomponent:*** | MemService_AsrNvM@GenTool_GeneratorMsr | |
| ***First affected version:*** | 3.01.02 | |
| ***Fixed in versions:*** | | |

***Problem Description:***
What happens (symptoms):
------------------------------------------------------------------
1> NvM_Cfg.c
1>..\..\Appl\GenDataVtt\NvM_Cfg.c(588): warning C4100: 'ServiceId' : unreferenced formal parameter

with Visual Studio compiler

When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
Any configuration with disabled NvMMultiBlockCallback and NvMBswMMultiBlockJobStatusInformation

***Resolution Description:***
Workaround:
------------------------------------------------------------------
No workaround available.

Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR** ❯

| ESCAN00098411 | Compiler warning: conversion from somelargertype to somesmallertype, possible loss of data | |
|---|---|---|
| ***Component@Subcomponent:*** | CommonAsr_ComStackLib@GenTool_GeneratorMsr | 103 |
| ***First affected version:*** | 8.12.00 | |
| ***Fixed in versions:*** | 9.00.00 | |

***Problem Description:***
What happens (symptoms):
------------------------------------------------------------------
Compiler warns for a conversion from somelargertype to somesmallertype, possible loss of data.

When does this happen:
------------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
------------------------------------------------------------------
Any empty indirection based array that uses
EPrecompilePreprocessingStrategy.RUNTIME_CHECKING.

***Resolution Description:***
Workaround:
------------------------------------------------------------------
No workaround available.


Resolution:
------------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR >**

| ESCAN00099190 | Compiler warning: BswM_Lcfg.c(2990): warning C4100: 'handleId' : unreferenced formal parameter |
|---|---|
| ***Component@Subcomponent:*** | SysService_Asr4BswMCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 6.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Compiler warns about C4100: 'handleId' : unreferenced formal parameter in BswM_Lcfg.c.


When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.


In which configuration does this happen:

------------------------------------------------------------------

In all configurations which use actions of type BswMTimerControl.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00100176 | Compiler warning: cast truncates constant value |
|---|---|
| *Component@Subcomponent:* | If_AsrIfCan@Implementation |
| *First affected version:* | 5.00.00 |
| *Fixed in versions:* | 6.17.00 |

**Problem Description:**
What happens (symptoms):
----------------------------------------------------------------
The compiler warns for a truncation of a constant value due to cast.

When does this happen:
----------------------------------------------------------------
The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:
----------------------------------------------------------------
CANIF_WAKEUP_VALIDATION is enabled AND CANIF_WAKEUP_VALID_ALL_RX_MSGS is disabled AND CANIF_WAKEUP_VALID_ONLY_NM_RX_MSGS is enabled

**Resolution Description:**
Workaround:
----------------------------------------------------------------
No workaround available. Warning was checked, not critical.


Resolution:
----------------------------------------------------------------
The described issue is corrected by modification of all affected work-products.

# Issue Report

**VECTOR**

| ESCAN00100182 | Compiler warning: A value that cannot be used to initialize an entity with a function pointer type |
|---|---|
| ***Component@Subcomponent:*** | Gw_AsrPduRCfg5@GenTool_GeneratorMsr |
| ***First affected version:*** | 1.00.00 |
| ***Fixed in versions:*** | |

***Problem Description:***

What happens (symptoms):

------------------------------------------------------------------

Compiler warns for a value that cannot be used to initialize an entity with a function pointer type with MSN_CopyRxData, MSN_CopyTxData and MSN_StartOfReception.

When does this happen:

------------------------------------------------------------------

The warning is issued by the compiler during compilation of the code in case the configuration is as described below.

In which configuration does this happen:

------------------------------------------------------------------

Any configuration using a BSW or CDD adjacent to the PduR which has been implemented based on an AUTOSAR Specification that uses const in API parameters of MSN_CopyRxData, MSN_CopyTxData and MSN_StartOfReception.

The AUTOSAR Specifications have been changed multiple times between ASR 4.00.03 and today. There is no common solution for all versions possible and you have to accept the compile warning until all components in the system have implemented the Com-Stack API harmonization introduced with ASR 4.03.00.

***Resolution Description:***

Workaround:

------------------------------------------------------------------

No workaround available.

Resolution:

------------------------------------------------------------------

The described issue is corrected by modification of all affected work-products.

## 3. New Issues for Information

Issues which should not have an effect on the usage of the license as the issues are relevant for use cases other than those defined in the questionnaire. The list contains issues that have been detected since the last report.

Issues listed in this section are not relevant for the use case that has been documented in the questionnaire provided to Vector. However, the issues may be relevant for other use cases.  Also issues that have been accepted or are tolerated by the OEM (as defined in the questionnaire) are reported here.

No issue to be reported.

## 4. Report Legend

### Issue Report

**Report Creation Date**

2011-02-25

*The ID number identifies the Issue*

**Index**

ESCAN00022257  Headline describes symptoms and consequences of the Issue in one sentence
DrvCan_baseAsr@GenTool_GeneratorGeny

**ESCAN00022257Headline describes symptoms and consequences of the Issue in one sentence**

*Component@Subcomponent:*   DrvCan_baseAsr@GenTool_GeneratorGeny

*First affected version:* ——

*Version fixed:* ——

*The First affected Version describes in which version of the Component the Issue appears first and the Version fixed describes the corrected version of the Component in which the Issue does not appear anymore.*

*Component@Subcomponent describes the group of workproducts which are composed of the source code, project documentation, User Manual and Generation Tool. The Subcomponent describes the certain affected work-product in which part of the Component the issue appears. e.g. inside of the source code (e.g. Implementation) or inside of the User Manual (e.g. Documentation) or inside of the concerning Generation Tool code.*

*Problem Description:*

What happens (symptoms):

------------------------------------------

// to be removed:
   Describe FROM CUSTOMERS NON TECHNICAL POINT OF VIEW,
   - which symptoms one will get if this issue occurs?
   - How can the issue be seen?
   - if it cannot be seen, how can the customer detect it?
   - what happens AFTER the issue occurred?
   - What is the consequence, the implication?

   Consider the following questions:
   If the issue is TEMPORARY:
      Does the issue cause the malfunction once but after that ECU continues to work
      and probably works correctly?
      In which situation (ECU reset / wakeup) does the ECU recover?
   If the issue is PERMANENT:
      ECU is blocked until Watch-Dog reset.
      ECU blocked forever and Watch-Dog cannot help.

When does this happen:

------------------------------------------

// to be removed:
   Describe FROM CUSTOMERS NON TECHNICAL POINT OF VIEW,
   which circumstances, operational situations, API function calls
   lead to the issue.
   With this information the customer wants to find out,
   whether he is affected by this issue or not.

   Consider the following questions:
   When (during runtime) does the issue occur and how can the customer find the issue?
   (1) Always and immediatelly
   (2) Only under specific circumstances (describe them)
   (3) Rarely, very rarely or unlikely
      Can the probability of occurrence of the issue be estimated?

*The Problem description expresses the Issue content, eventually impact, etc.*
*What happens: Symptoms, consequences and/or the detection way is described.*
*When does it happen: Ignition, trigger point of the Issue*
*In which configuration does this happen: Dependencies to a certain functionality or another component*

In which configuration does this happen:

------------------------------------------

// to be removed:
   Describe FROM CUSTOMERS POINT OF VIEW,
   which configurations of e.g. GenTool, database (attributes),
   OEM, compiler, components, ...
   lead to the issue.

*Resolution Description:*

Workaround:

------------------------------------------

No workaround available.

// to be removed:
   If there is a workaround available,
   please replace the default text.
   Describe FROM CUSTOMERS POINT OF VIEW,
   what has to be done to avoid this issue.

*The Resolution description describes a workaround, if available and the resolution of the Issue.*

Resolution:

------------------------------------------

The described issue is corrected by modification of all affected workproducts.

// to be removed:
   technical resolution:
      e.g. error is resolved in file "xyz" function "opq"

## 5. 3rd Party Software Issues

This issue report does not include issues of 3rd party software. If 3rd party software was included in the SIP, the documentation of the issue reporting process is included in the SIP: .\Doc \DeliveryInformation\IssueHandling_<Name>.pdf. Please follow the given instructions.

## 6. Quality Management Contact

Quality Management
Productline Embedded Software (PES)

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