

3rdParty MCAL Integration

Technical Reference

Infineon TC3xx Version 2.13.00

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Status	Released



Document Information

History

Author	Date	Version	Remarks
Virgaj	2018-02-08	1.0.0	Basic Integration of TC3xx MCAL Series
Virrsu	2018-02-09	2.0.0	Update Document Properties (Type Technical Reference)
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Virgki	2019-04-02	2.5.0	Integration of package MC- ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASI C_1.10.0 Added chapters 2.1.5
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Virnid	2019-08-13	2.8.0	Changed template Integration of MIP for MC- ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35 xA_TC37xA_BASIC_1.30.0-rc / MC- ISAR_AS42x_AURIX2G_TC36xA_BASIC_1.40.0- alpha
Virgaj	2019-11-13	2.9.0	Integration of package MC-ISAR_AS42x_TC3xx_BASIC_1.30.0
Virnid	2020-02-18	2.10.0	Integration of MC- ISAR_AS422_TC3xx_BASIC_1.40.0-alpha1
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Virnid	2020-04-30	2.11.0	Integration of MC- ISAR_AS422_TC3xx_BASIC_1.40.0-rc
Virnid	2020-06-15	2.12.0	Integration of MC- ISAR_AS422_TC3xx_BASIC_1.40.0 (PR)
Virnid	2020-11-12	2.12.1	Changed reference document to UserManual
Virnid	2021-01-14	2.13.0	Integration of MC- ISAR_AS422_TC3xx_BASIC_2.0.0-rc and MC- ISAR_AS440_TC3xx_BASIC_2.0.0-rc

Reference Documents

No.	Source	Title	Version
[1]	Vector	UserManual_3rdParty-MCAL-Integration.pdf	See Delivery
[2]	Vector	ScreenCast_McalIntegration_Tresos.pdf	See Delivery

Scope of the Document

This document contains information about the integration of 3rd Party MCAL into Vector software stack.



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1 MCAL Integration

1.1 Type of Integration

Basic Integration

Both configuration tools, EB tresos[™] as well as Vector DaVinci Configurator, are used for configuration.

Recommended workflow:

Start initial configuration with EB tresos™, export it in AUTOSAR format and import it into Vector DaVinci Configurator. Generation and minor changes in configuration are done in Vector DaVinci Configurator.

For usage with Vector DaVinci Configurator 5 please refer to chapter 'Mixed configuration tool usage' in the document UserManual 3rdParty-MCAL-Integration.pdf [1].



Multimedia Link

For additional information please also refer to the Vector screen cast referenced in ScreenCast McalIntegration Tresos.pdf [2]

1.2 MCAL Location within SIP

The 3rd Party MCAL is separated from the Vector parts within the SIP. It might not even be part of the delivery. Please refer to chapter 'First Steps' in document UserManual 3rdParty-MCAL-Integration.pdf [1].

1.3 Supported 3rd Party Products

This integration supports the following Infineon targets:

1.3.1 ASR 4.4

1.3.1.1 TC39x B-Step, TC38x A-Step,
TC37x, TC37x_ED A-Step, TC36x A-Step,
TC35x A-Step, TC33x, TC33x_ED A-Step,
TC32x A-Step, TC3Ex A-Step

MC-ISAR_AS440_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS440_TC3xx_CD_2.0.0-rc

1.3.2 ASR 4.2

1.3.2.1 TC39x B-Step

- MC-ISAR_AS422_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS422_TC3xx_CD_2.0.0-rc
- MC-ISAR AS422 TC3xx BASIC 1.40.0 /



- MC-ISAR AS422 TC3xx CD 1.40.0
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc / MC-ISAR_AS422_TC3xx_CD_1.40.0-rc
- MC-ISAR AS42x TC3xx BASIC 1.30.0
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_BASIC_1.30.0-rc /MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_CD_1.30.0-rc
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_BASIC_1.20.0-beta / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_CD_1.20.0-beta
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.10.0 / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_CD_1.10.0
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.10.0-rc / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_CD_1.10.0-rc

1.3.2.2 TC38x A-Step

- MC-ISAR_AS422_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS422_TC3xx_CD_2.0.0-rc
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0 / MC-ISAR_AS422_TC3xx_CD_1.40.0
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc / MC-ISAR_AS422_TC3xx_CD_1.40.0-rc
- MC-ISAR AS42x TC3xx BASIC 1.30.0
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_BASIC_1.30.0-rc / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_CD_1.30.0-rc
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_BASIC_1.20.0-beta / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_CD_1.20.0-beta
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC 1.10.0 / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_CD_1.10.0
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.10.0-rc / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_CD_1.10.0-rc

1.3.2.3 TC37x, TC37x ED A-Step

- MC-ISAR_AS422_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS422_TC3xx_CD_2.0.0-rc
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0 / MC-ISAR_AS422_TC3xx_CD_1.40.0
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc / MC-ISAR_AS422_TC3xx_CD_1.40.0-rc
- MC-ISAR AS42x TC3xx BASIC 1.30.0



- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_BASIC_1.30.0-rc / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_CD_1.30.0-rc
- MC-ISAR_AS42x_AURIX2G_TC37xA_BASIC_1.30.0-alpha / MC-ISAR_AS42x_AURIX2G_TC37xA_CD_1.30.0-alpha

1.3.2.4 TC36x A-Step

- MC-ISAR_AS422_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS422_TC3xx_CD_2.0.0-rc
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0 / MC-ISAR_AS422_TC3xx_CD_1.40.0
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc / MC-ISAR_AS422_TC3xx_CD_1.40.0-rc
- MC-ISAR_AS42x_AURIX2G_TC36xA_BASIC_1.40.0-alpha / MC-ISAR_AS42x_AURIX2G_TC36xA_CD_1.40.0-alpha

1.3.2.5 TC35x A-Step

- MC-ISAR_AS422_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS422_TC3xx_CD_2.0.0-rc
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0 / MC-ISAR_AS422_TC3xx_CD_1.40.0
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc / MC-ISAR_AS422_TC3xx_CD_1.40.0-rc
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_BASIC_1.30.0-rc / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_TC37xA_CD_1.30.0-rc
- MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_BASIC_1.20.0-beta / MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_CD_1.20.0-beta

1.3.2.6 TC33x, TC33x_ED A-Step

- MC-ISAR_AS422_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS422_TC3xx_CD_2.0.0-rc
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0 / MC-ISAR_AS422_TC3xx_CD_1.40.0
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc / MC-ISAR_AS422_TC3xx_CD_1.40.0-rc
- MC-ISAR_AS42x_ TC3xx_BASIC_1.40.0-alpha1 / MC-ISAR AS42x TC3xx CD 1.40.0-alpha1

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1.3.2.7 TC32x A-Step

- MC-ISAR_AS422_TC3xx_BASIC_2.0.0-rc / MC-ISAR_AS422_TC3xx_CD_2.0.0-rc
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0 / MC-ISAR_AS422_TC3xx_CD_1.40.0
- MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc / MC-ISAR_AS422_TC3xx_CD_1.40.0-rc



Note

Please refer to the Release Notes of the 3rd Party Products for further information, e.g. regarding supported versions, derivatives and compilers.



Note

Only official 3rd Party vendor releases are part of this Vector integration package. Therefore, any customer-specific releases cannot be considered.



Caution

To find out if there are further Hotfixes available for your MCAL package, please contact the 3rdParty Vendor.

It is essential to replace the affected EB tresos[™] module plugins in your original package before you start Script MCAL Prepare.bat.

1.4 Configuration Tools

- Vector DaVinci Configurator 4 (Mixed ASR for MSR3 project)
- Vector DaVinci Configurator 5 (MSR4 project)
- ▶ EB tresos™



2 Vector Comment

The user should consider the attached <code>UserManual_3rdParty-MCAL-Integration.pdf</code> [1] for further information regarding Vector integration and setup of a project.

2.1 Known Issues

The MCAL package in use might not be the latest one. Updates or Hot Fixes might be available from the vendor.

If you discover errors in the MCAL during development or suspect that faulty behavior could be caused by the MCAL, please contact the 3rdParty Vendor. If there are updates for your MCAL available, it might be helpful to use them. The corresponding 3rdParty Vendor Release Notes will tell you which errors have been fixed.

The errors documented in the following chapters were detected at Vector during the MCAL integration and reported to the 3rdParty Vendor.



Note

Vector makes every effort to ensure that this integration is compatible with all MCAL packages of the corresponding Controller Family as long as the 3rdParty Vendor does not change the structure of the packages. However, not all MCAL packages can be tested and therefore the user may find errors either in Vector's files or in the MCAL that are not listed in this document.



Caution

Modifications to the MCAL, which may be described in the following chapters under the keyword 'Workaround', must take place after the 3rdPartyMCALIntegrationHelperTool has run. Otherwise the changes will be overwritten.



Note

Necessary patches are provided via the SIP folder ThirdParty\<Short_Name>\VectorIntegration\Patches\ (called 'patch folder' in this chapter).



2.1.1 General Issues

2.1.1.1 MCAL Patches from Infineon

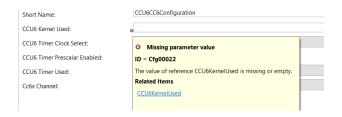
The MCAL contains issues that have been fixed by the MCAL vendor. Such patches like MC-ISAR AS42x TC3xx 1.30.0 Patch 1 are available in the patch folder.



Note

Further details about the fixed issues can be found in the related patch package.

2.1.1.2 Inconsistency between Tresos and CFG5



There may be inconsistencies between parameters in Tresos and CFG5. This is because the parameter in Tresos is marked as optional while it is mandatory in CFG5.

To avoid that the parameter has to be configured in CFG5 and the configuration is changed, set the parameter to User Defined.



2.1.2 TC38x A-Step

2.1.2.1 MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc

2.1.2.1.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

The function Spi_MainFunction_Handling is called unconditionally in the file SchM_Spi.h without any compiler switch but the extern definition of this function is defined in spi.h file with a compiler switch.

This leads to an error as below if Spi Level Delivered is different from 2:



In file included from ../../../external/BSW/../ThirdParty/Mcal_Tc3xx/Supply/MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.0.0-beta/Mclsar/Src/Mcal/Tricore/Spi/ssc/src/Spi.c:75: gendata/SchM_Spi.h:33: arguments given to macro `Spi_MainFunction_Handling'

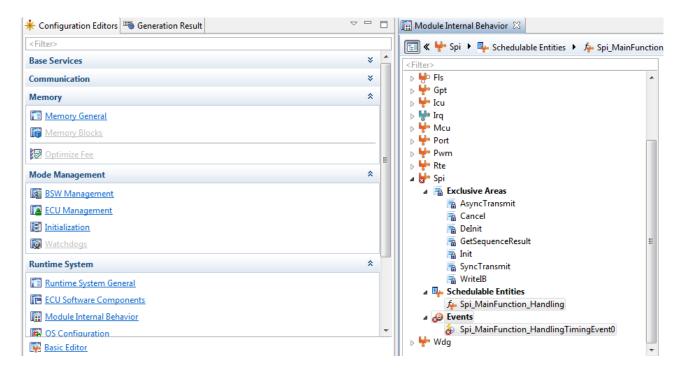


Workaround

Remove the configuration for Spi_MainFunction_Handling in

Runtime System → Module Internal Behavior → Spi → Schedulable Entities and Events

Please see the below image for some more information.



2.1.2.1.2 Test Mcal SafetyError.h: No such file or directory

While checking for the dependency, If the macro APP_SW is not defined the below error occurs

Error Message:

In file included from ../../external/BSW/../ThirdParty/Mcal_Tc3xx/Supply/MC-ISAR AS42x AURIX2G TC38xA TC39xB BASIC 1.0.0-

beta/DemoWorkspace/McalDemo/TC38A/0_Src/BaseSw/Infra/Autosar_Srv/Mcal_SafetyError.c:38:

../../external/BSW/../ThirdParty/Mcal_Tc3xx/Supply/MC-

ISAR AS42x AURIX2G TC38xA TC39xB BASIC 1.0.0-

beta/DemoWorkspace/McalDemo/TC38A/0_Src/BaseSw/Infra/Autosar_Srv/Mcal_SafetyError.h:42: Test_Mcal_SafetyError.h: No such file or direct



../../external/BSW/../ThirdParty/Mcal_Tc3xx/Supply/MC-

ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.0.0-

beta/DemoWorkspace/McalDemo/TC38A/0_Src/BaseSw/Infra/Autosar_Srv/Mcal_SafetyError.c:40: Test Print.h: No such file or directory

../../external/BSW/../ThirdParty/Mcal_Tc3xx/Supply/MC-

ISAR AS42x AURIX2G TC38xA TC39xB BASIC 1.0.0-

beta/DemoWorkspace/McalDemo/TC38A/0_Src/BaseSw/Infra/Autosar_Srv/Mcal_SafetyError.c:43: Test Mcal SafetyError.h: No such file or direct



Workaround

Define the APP_SW as below in Compiler_Cfg.h to solve this issue. #define APP_SW 3

- 2.1.2.2 MC-ISAR_AS42x_AURIX2G_ TC38xA TC39xB TC35xA TC37xA BASIC 1.30.0-rc
- 2.1.2.2.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

- 2.1.2.3 MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_BASIC_1.20.0-beta
- 2.1.2.3.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.2.3.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

- 2.1.2.4 MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.10.0
- 2.1.2.4.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.2.4.2 Test Mcal SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

- 2.1.2.5 MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.10.0-rc
- 2.1.2.5.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.



2.1.2.5.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.3 TC39x B-Step

- 2.1.3.1 MC-ISAR AS422 TC3xx BASIC 1.40.0-rc
- 2.1.3.1.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

- 2.1.3.2 MC-ISAR_AS42x_AURIX2G_ TC38xA TC39xB TC35xA TC37xA BASIC 1.30.0-rc
- 2.1.3.2.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.3.2.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.3.3 MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_TC35xA_BASIC_1.20.0-beta

2.1.3.3.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.3.3.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.3.4 MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.10.0

2.1.3.4.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.3.4.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.



2.1.3.5 MC-ISAR_AS42x_AURIX2G_TC38xA_TC39xB_BASIC_1.10.0-rc

2.1.3.5.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.3.5.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.3.6 MC-ISAR_AS42x_TC3xx_BASIC_1.30.0

2.1.3.6.1 Destination Reference of AUTOSAR Reference Parameter GptClockReference wrong

DestinationRef of AUTOSAR reference 'Gpt/GptDriverConfiguration/GptClockReferencePoint/GptClockReference' should be '/AUTOSAR/EcucDefs/Mcu/McuModuleConfiguration/McuClockSettingConfig/McuClockReferencePoint'



Workaround

In CFG5, add the correct path manually

2.1.4 TC35 A-Step

2.1.4.1 MC-ISAR AS422 TC3xx BASIC 1.40.0-rc

2.1.4.1.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.4.2 MC-ISAR_AS42x_AURIX2G_ TC38xA_TC39xB_TC35xA_TC37xA_BASIC_1.30.0-rc

2.1.4.2.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.4.2.2 Test Mcal SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.



2.1.4.3 MC-ISAR AS42x AURIX2G TC38xA TC39xB TC35xA BASIC 1.20.0-beta

2.1.4.3.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.4.3.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.4.3.3 GPT modules cannot be generated in DaVinci configurator.

For the derivative TC35x generation of GPT is not possible in DaVinci Configurator.

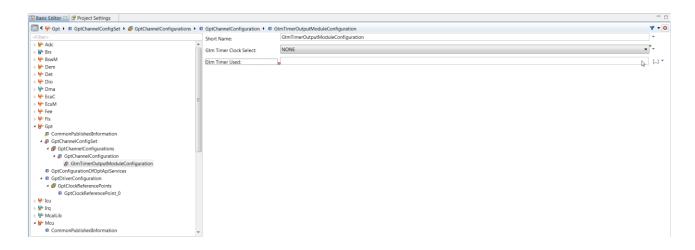
In the path

Gpt/GptChannelConfigSet/GptChannelConfiguration/GtmTimerOutputModuleConfiguration/GtmTimerUsed

The tag GtmTimerUsed is a mandatory tag with multiplicity 1:1.

To configure this tag, we must give a reference to

Mcu/McuHardwareResourceAllocationConf/McuGtmAllocationConfcontainer, but this container is not available for the derivative TC35x





Workaround

GPT module must be generated with Tresos and the generated files has to be copied to GenData/Src and Gendata/inc folders respectively for the compilation.

2.1.4.3.4 PWM modules cannot be generated in DaVinci configurator.

For the derivative TC35x generation of PWM is not possible in DaVinci Configurator.

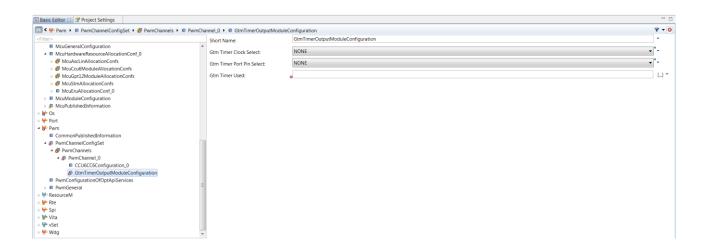
In the path

Pwm/PwmChannelConfigSet/PwmChannel/GtmTimerOutputModuleConfiguration/GtmTimerUsed

The tag GtmTimerUsed is a mandatory tag with multiplicity 1:1.



To configure this tag, we must give a reference to Mcu/McuHardwareResourceAllocationConf/McuGtmAllocationConfcontainer, but this container is not available for the derivative TC35x





Workaround

Pwm module must be generated with Tresos and the generated files has to be copied to GenData/Src and Gendata/inc folders respectively for the compilation.

- 2.1.5 TC37x, TC37xA_ED A-Step
- 2.1.5.1 MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc
- 2.1.5.1.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

- 2.1.5.2 MC-ISAR_AS42x_AURIX2G_ TC38xA_TC39xB_TC35xA_TC37xA_BASIC_1.30.0-rc
- 2.1.5.2.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.5.2.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.5.3 MC-ISAR AS42x AURIX2G TC37xA BASIC 1.30.0-alpha

2.1.5.3.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.



2.1.5.3.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.6 TC36x A-Step

2.1.6.1 MC-ISAR AS422 TC3xx BASIC 1.40.0-rc

2.1.6.1.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.6.2 MC-ISAR_AS42x_AURIX2G_TC36xA_BASIC_1.40.0-alpha

2.1.6.2.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.6.2.2 Test_Mcal_SafetyError.h: No such file or directory

See chapter 2.1.2.1.2.

2.1.7 TC33x, TC33x_ED A-Step

- 2.1.7.1 MC-ISAR AS422 TC3xx BASIC 1.40.0-rc
- 2.1.7.1.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.7.1.2 UartCTSPinSelection not in range

When UartHwUnit is configured to e.g. ASCLIN0, the following error message occurs in DaVinci Configurator 5:

ERROR 20-04-30,12:59:39 (1025) Value "SELECT_CTS_B_PORT33_PIN5" of node "/AUTOSAR/TOP-LEVEL-

PACKAGES/Uart/ELEMENTS/Uart/UartConfigSet/UartChannel/UartChannel_0/UartCTSPinSelection "not in range "[NONE]"

But UartCTSPinSelection cannot be configured to NONE in the enumeration field.

The issue has been reported to Infineon issue database with number VECTOR-42.



Workaround

Choose ASCLIN2 for UartHwUnit.



2.1.7.2 MC-ISAR_AS42x_ TC3xx_BASIC_1.40.0-alpha1

2.1.7.2.1 Supported Devices

The MCAL contains files for TC32x which is not part of the Release Notes. Thus, the Integration for TC32x devices is not supported by Vector Informatik GmbH.

2.1.7.2.2 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.

2.1.7.2.3 TC332x: EcuM, Dem and Spi modulues not displayed in EB tresos™

If the subderivative TC332x is chosen in ResourceM module, the modules EcuM, Dem and Spi are not displayed and cannot be loaded in EB tresos™.

The issue has been reported to Infineon issue database with number VECTOR-23.



Workaround

Manually add the line

```
<ecuType target="AURIX2G" derivate="TC332"/>
```

to the plugin.xml files in the directories

\ThirdParty\Mcal Tc3xx\Supply\Tresos\plugins\(Dem|EcuM|Spi) Aurix2G

2.1.7.2.4 TC332x: Error during compiling in Spi module

For the subderivative TC332x, an error message like

ctc E269: ["../../internal/StartApplication/Appl/GenData/src/Spi_PBcfg.c" 478/5] too many initializers

occurs while compiling, because there are 4 lines generated for "QSPI Hw configuration" in Spi_PBcfg.h, but TC332x only supports QSPI0, QSPI1 and QSPI2.

The issue has been reported to Infineon issue database with number VECTOR-24.



Workaround



- 2.1.8 TC32x A-Step
- 2.1.8.1 MC-ISAR_AS422_TC3xx_BASIC_1.40.0-rc
- 2.1.8.1.1 Extern Definition for the function Spi_MainFunction_Handling is defined with a compiler switch.

See chapter 2.1.2.1.1.



2.2 Restrictions

2.2.1 General Restrictions

2.2.1.1 Configuration of Irq Init functions

The Init functions of the Irq module are not automatically added to the configuration. If the Init functions are needed, they have to be configured manually.

2.2.1.2 Usage of DemoWorkspace

For the integration and testing, some files of the DemoWorkspace are used. If they shall not be part of the built process, they can be deleted.



Glossary and Abbreviations 3

Glossary 3.1

Term	Description
3 rd party components / MCAL	BSW modules not provided by Vector. Vector may have integrated the software within the SIP but does not take over any responsibility regarding functionality of these modules.
DaVinci Configurator	Configuration and generation tool for Vector MICROSAR components

Table 3-1 Glossary

Abbreviations 3.2

Abbreviation	Description
MCAL	Microcontroller Abstraction Layer
AUTOSAR	Automotive Open System Architecture
SIP	Software Integration Package (as provided by Vector)
Msn	Module Short Name according AUTOSAR

Table 3-2 Abbreviations



4 Contact

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