

3rdParty MCAL Integration

Release Notes

Renesas RH850P1x-C

Version 1.1.0

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Status	Released

Document Information

History

Author	Date	Version	Remarks
Andrej Gazvoda	2015-11-30	1.0.0	Integration of Renesas packages AUTOSAR_RH850_P1x-C_MCAL_SPAL Ver4.00.00
Andrej Gazvoda	2016-02-17	1.0.1	Basic Integration
Andrej Gazvoda	2016-12-08	1.1.0	Integration of Renesas packages AUTOSAR_RH850_P1H-C_P1H- CE_MCAL_Ver4.01.00.001 \\ AUTOSAR_RH850_P1M-C_MCAL_Ver4.01.00 incl. Ver 4.01.00.001_ADC_HF005_21122016 Ver 4.01.00.001_FLS_HF001_21122016 Ver 4.01.00.001_ICU_HF002_21122016 Ver4.01.00.001_ADC_HF001 Ver4.01.00.001_ADC_HF002 Ver4.01.00.001_ADC_HF003 Ver4.01.00.001_GPT_HF001_20161214 Ver4.01.00.001_HotFix Ver4.01.00.001_ICU_HF001_20161214 Ver4.01.00.001_ICU_HF003 Ver4.01.00.001_PWM_HF001_ARCAADA-549 Ver4.01.00.001_SPI_HF001_ARCAADA-552

Reference Documents

No.	Source	Title	Version
[1]	Vector	TechnicalReference_3rdParty-MCAL-Integration.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

- > Usage of DaVinci Cfg5.13 (or higher)

1.2 MCAL Location within SIP

The 3rd Party MCAL is separated from the Vector parts within the SIP; furthermore, it might not be part of the delivery.

Notification:

Please be aware that only the Mcal packages AUTOSAR_RH850_P1H-C_P1H-CE_MCAL_Ver4.01.00.001 and AUTOSAR_RH850_P1M-C_MCAL_Ver4.01.00 are supported. Further components like RamTst, ETH etc., are not part of this integration.

1.3 Supported µController

This integration supports the Renesas RH850P1H-CE target with the device R7F701370A and the PH850P1H-C target with the devices R7F701371 and R7F701372 as well as the RH850P1M-C target with the devices R7F701373 and R7F701374.

1.4 Used MCAL Packages

- > AUTOSAR_RH850_P1H-C_P1H-CE_MCAL_Ver4.01.00.001
- > AUTOSAR_RH850_P1M-C_MCAL_Ver4.01.00
- > Ver 4.01.00.001_ADC_HF005_21122016
- > Ver 4.01.00.001_FLS_HF001_21122016
- > Ver 4.01.00.001_ICU_HF002_21122016
- > Ver4.01.00.001_ADC_HF001
- > Ver4.01.00.001_ADC_HF002
- > Ver4.01.00.001_ADC_HF003
- > Ver4.01.00.001_GPT_HF001_20161214
- > Ver4.01.00.001_HotFix
- > Ver4.01.00.001_ICU_HF001_20161214
- > Ver4.01.00.001_ICU_HF003

- > Ver4.01.00.001_PWM_HF001_ARCAADA-549
- > Ver4.01.00.001_SPI_HF001_ARCAADA-552



> **Note**

Please be aware that only official 3rdParty-Vendor releases are part of this Vector integration package. Therefore any customer-specific releases cannot be considered.



Caution

Please contact the 3rdPartyVendor to find out if there are further Hotfixes available for your Mcal package.

It is essential to replace the effected module plugins in your original package before you start Script_MCAL_Prepare.bat.

For the case that you received the Mcal package from Vector, the hotfix packages mentioned above are already integrated.

1.5 Configuration Tools

- > DaVinci Cfg5.13 (or higher)

1.6 Supported Compilers

- > Green Hills Multi V6.1.6 Compiler Version 2015.1.7

2 Vector Comment

2.1 Known Issues

2.1.1 Hot fix Packages

The origin Mcal package AUTOSAR_RH850_P1H-C_P1H-CE_MCAL_Ver4.01.00.001 contains errors which prevent the configuration tool to generate the Mcal. Therefore, Renesas provided the following fix packages:

Ver 4.01.00.001_ADC_HF005_21122016
Ver 4.01.00.001_FLS_HF001_21122016
Ver 4.01.00.001_ICU_HF002_21122016
Ver4.01.00.001_ADC_HF001
Ver4.01.00.001_ADC_HF002
Ver4.01.00.001_ADC_HF003
Ver4.01.00.001_GPT_HF001_20161214
Ver4.01.00.001_HotFix
Ver4.01.00.001_ICU_HF001_20161214
Ver4.01.00.001_ICU_HF003
Ver4.01.00.001_PWM_HF001_ARCAADA-549
Ver4.01.00.001_SPI_HF001_ARCAADA-552



Caution

It's in the user's responsibility to merge the fixed files into the origin package. Please be aware there might be files that are in more than one package – use the latest.

2.1.2 R403_PORT_P1XC_701370A_701372.arxml / R403_PORT_P1XC_701373.arxml

In the Port description files, definition of PortNumberOfPostPins is wrong.



Caution

.\ThirdParty\VectorIntegration\Patches contains a Port description file where these changes are already done. Please replace the description file in the Mcal package before you run the 3rdPartyIntegrationHelperTool

2.1.3 R403_FLS_P1X-C

In the Fls description file, the definition of reference parameter FlsFdlCpuFrequency is wrong.

**Caution**

.\ThirdParty\VectorIntegration\Patches contains a FIs description file where these changes are already done. Please replace the description file in the Mcal package before you run the 3rdPartyIntegrationHelperTool

3 Glossary and Abbreviations

3.1 Glossary

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
EB tresos™	Configuration and generation tool for MCAL components

Table 3-1 Glossary

3.2 Abbreviations

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

Table 3-2 Abbreviations

4 Contact

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