

MCAL Integration Package

Document Information

History

Author	Date	Version	Remarks
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Reference Documents

No.	Source	Title	
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Caution

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Illustrations

[illegible]

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1 Introduction

MICROSAR MCAL Integration Package

3rd party MCAL

-

1. *Single configuration tool usage*
2. *Mixed configuration tool usage*
3. *Split configuration tool usage*

1.1 Responsibility

MCAL integration

1.2 Support requests

MCAL integration

-

1.3 Mix between AUTOSAR specification versions

-

Package (mixed ASR)

MCAL Integration

2 First Steps

MCAL integration

2.1 Delivery structure

MCAL

integration

```
> BSW\<MCAL_μC>:

> BSWMD\<MCAL_μC>

> DaVinciConfigurator\Generator\<MCAL_μC>
-

-

> ThirdParty\<MCAL_μC>\Supply

>
>
>
>
```



Caution

ThirdParty\<MCAL_μC>\Supply

Note

Supply

```
ThirdParty\<MCAL_μC>\Supply  
.\MC-ISAR_AS4XX_AURIX_TC27X_CA_PB_BASE_V100  
.\MC-ISAR_AS4XX_AURIX_TC27X_CA_PB_MEM_V100  
.\Tresos
```

> ThirdParty\<MCAL_μC>\VectorIntegration

2.2 Starting up

2.2.1 MCAL delivered within Vector SIP

```
>                                     Compiler_cfg.h      MemMap.h
```

```
>                                     BSWMD\<MCAL_μC>
```

```
>
```

2.2.3 MCAL Update needed



Practical Procedure

```
Script_MCAL_Prepare.bat      --undo
Script_MCAL_Prepare.bat
--prepare
```



Caution

```
>
>
▶ Script_MCAL_Prepare.bat
▶
--prepare      Script_MCAL_Prepare.bat
```

3 Workflow

-



Note

ReleaseNotes_3rdPartyMCAL_VectorIntegration.pdf



Multimedia Link

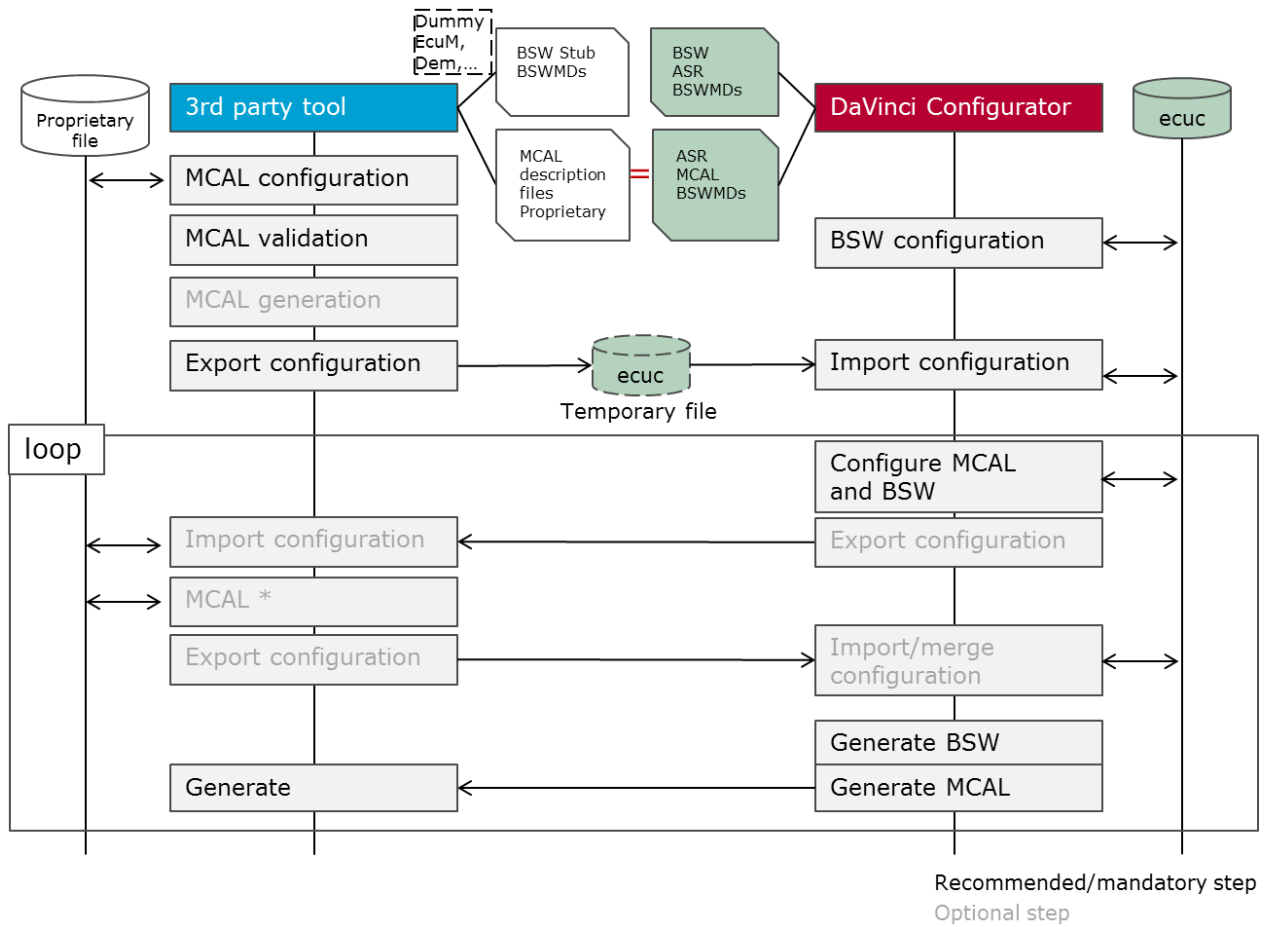
3.1 Single configuration tool usage

Prerequisite	
Advantages	Disadvantages

3.2 Mixed configuration tool usage

- >
- >
- >

one tool solution



Prerequisite	
Advantages	Disadvantages



Practical Procedure (startup)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.



Note

3.3 Split configuration tool usage

Prerequisite	
Advantages	Disadvantages

4 Configuration tools



Note

4.1 Vector DaVinci Configurator

4.2 EB tresos™

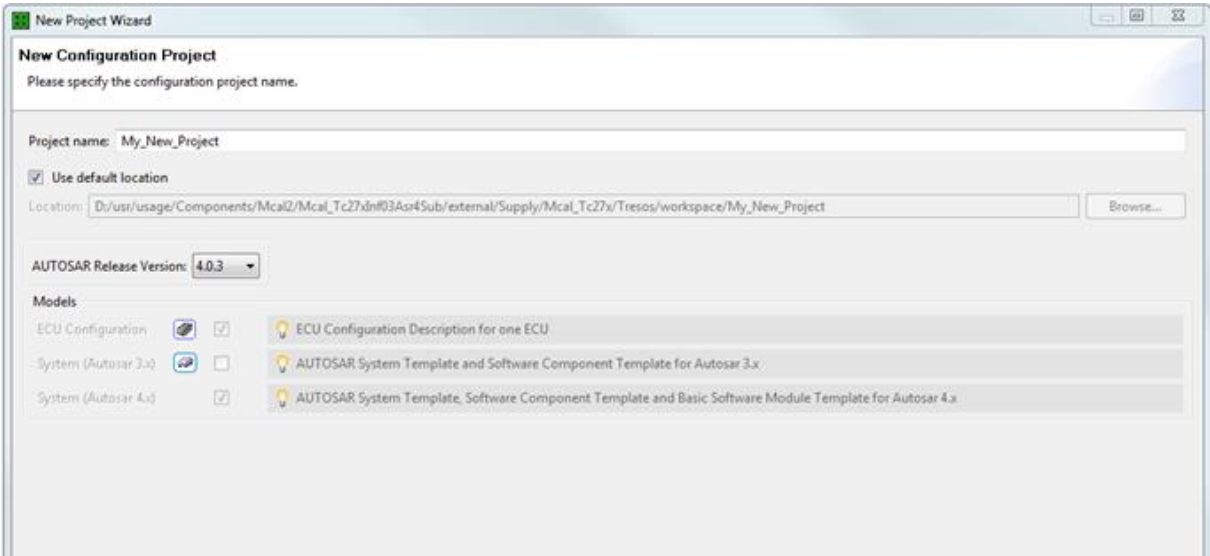
```
Tresos\bin
ThirdParty\<MCAL_μC>\Supply\
tresos_gui.exe
```

Studio_documentation_users_guide

4.2.1 Setting up a new Configuration Project

>

>



>

4.2.2 Project Details

>

>

>

>

>



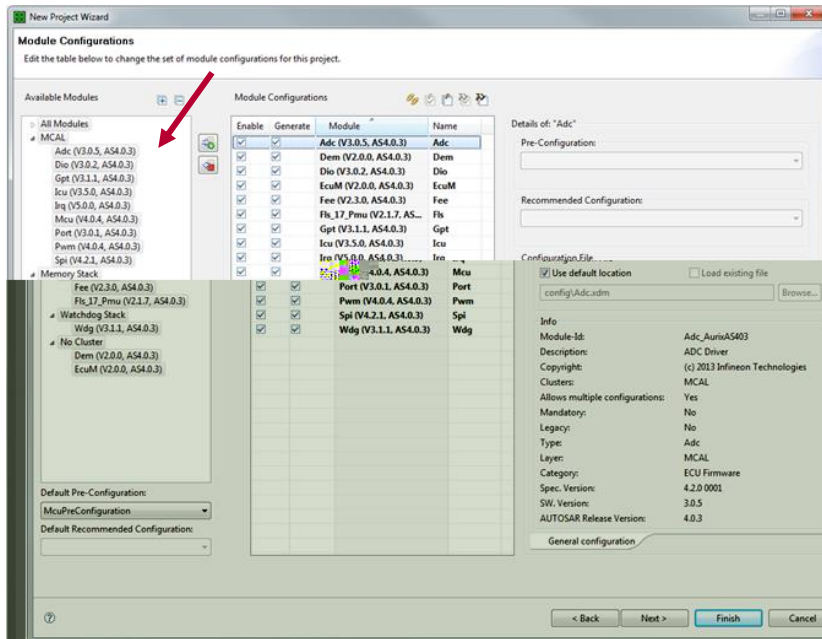
>

preferences.xdm

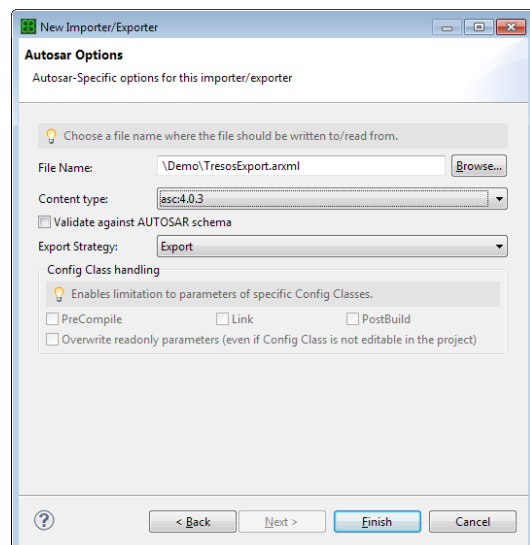
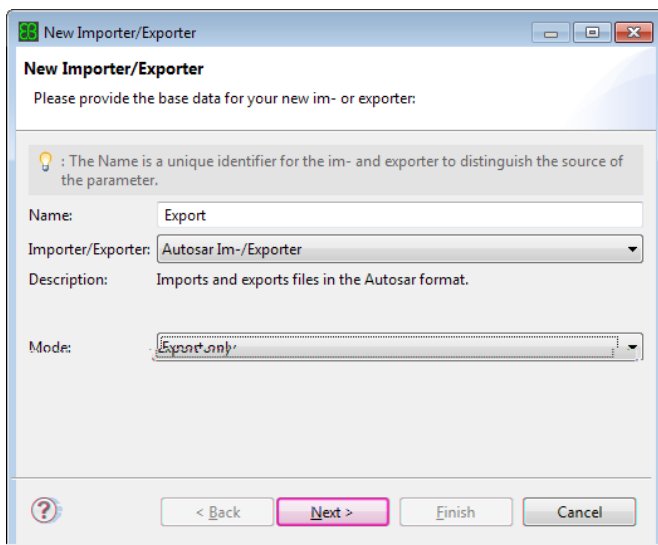
```
<d:var name="GenerationPath" value="output"/>
```

4.2.3 Selection of components

Dem Events EcuM run modes



4.2.4 Creation of importers and exporters



4.2.5 Configure the MCAL components

4.2.6 Generation of the 3rd party MCAL

-

4.3 Configuration hints for parallel usage of DaVinci Configurator and EB tresos™

Dem/DemConfigSet/DemEventParameter
EcuM/EcuMConfiguration/EcuMCommonConfiguration/EcuMWakeupSource

Dio Ports Mcu ConfigSets Mcu ClockReferences Fee Blocks

4.3.1 Vector DaVinci Configurator 5

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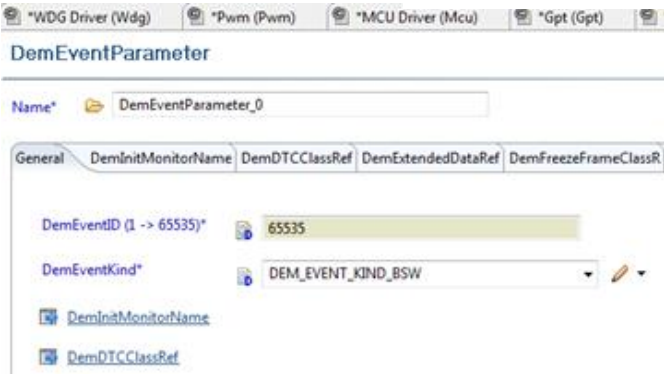
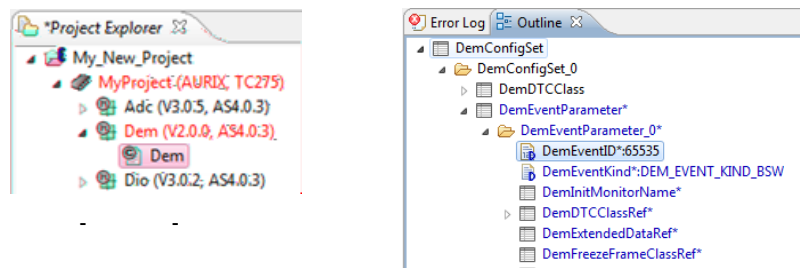
-

4.3.2 EB tresos™

>

>

> DemEventParameter_0 Event ID Event Kind



5 Known Issues

5.1 MCAL and SIP storage location using Vector Makesupport

D:\ -

5.2 Long path names



Caution

D:\BCM - D:\<ECU-Acronym>

5.3 Missing configuration items within imported configuration

**Note**

5.4 Configuration Export with EB tresos™ Version 13.0.0

5.5 Error messages regarding CommonPublishedInformation with EB tresos™

```
Invalid value for node "/AUTOSAR/TOP-LEVEL-  
PACKAGES/Wdg/ELEMENTS/Wdg/CommonPublishedInformation/VendorId  
": Value "" is no number
```


Abbreviation	Description

7 Contact

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www.vector.com