

MICROSAR MemIf

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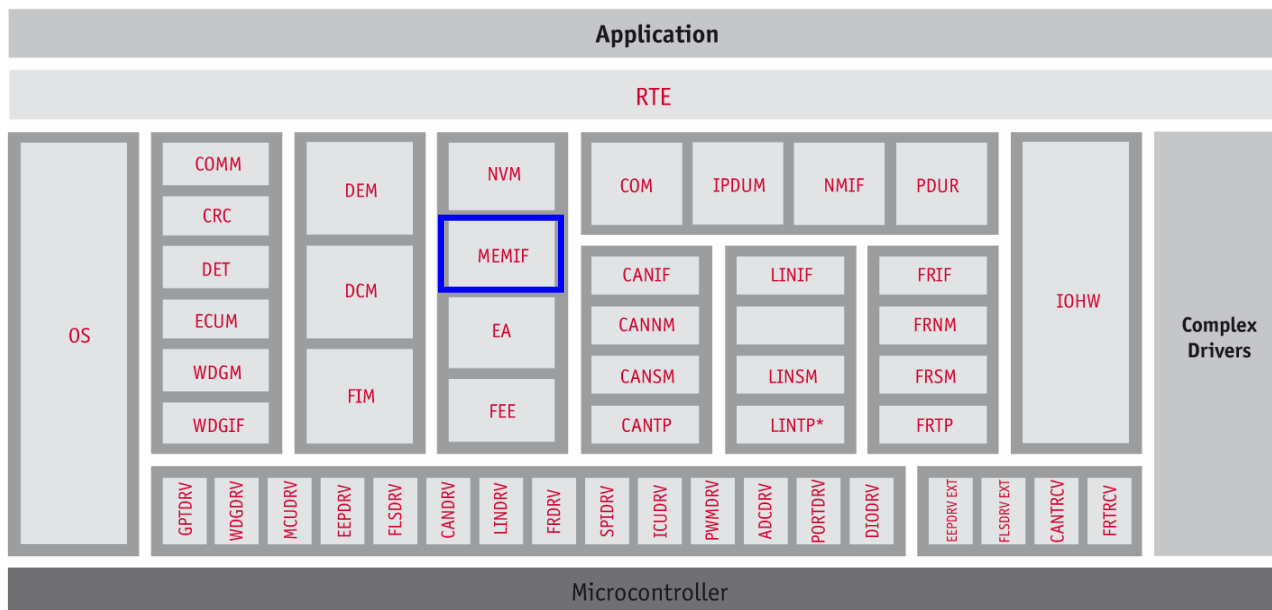
Tables

[illegible]

2 Introduction

Supported AUTOSAR Release*:		
Supported Configuration Variants:	-	
Vendor ID:		-
Module ID:		

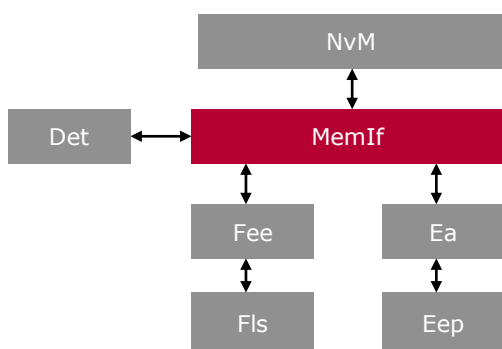
2.1 Architecture Overview



Vector MICROSAR Product

Service by Vector

* Option included in LINIF



3 Functional Description


3.1 Features

Feature

3.2 Initialization

	Caution not
------------------------------------------------------------------------------------	-----------------------

3.3 Main Functions

	Caution not
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3.4 Error Handling

3.4.1 Development Error Reporting

Det_ReportError()

Service ID	Service
	MemIf_SetMode
	MemIf_Read
	MemIf_Write
	MemIf_Cancel
	MemIf_GetStatus
	MemIf_GetJobResult
	MemIf_InvalidateBlock
	MemIf_GetVersionInfo
	MemIf_EraseImmediateBlock

Error Code	Description
	-

3.4.1.1 Parameter Checking

Check		
Service		
		■
	■	
	■	
	■	
	■	
	■	
	■	
	■	

-

4 Integration

4.1 Scope of Delivery

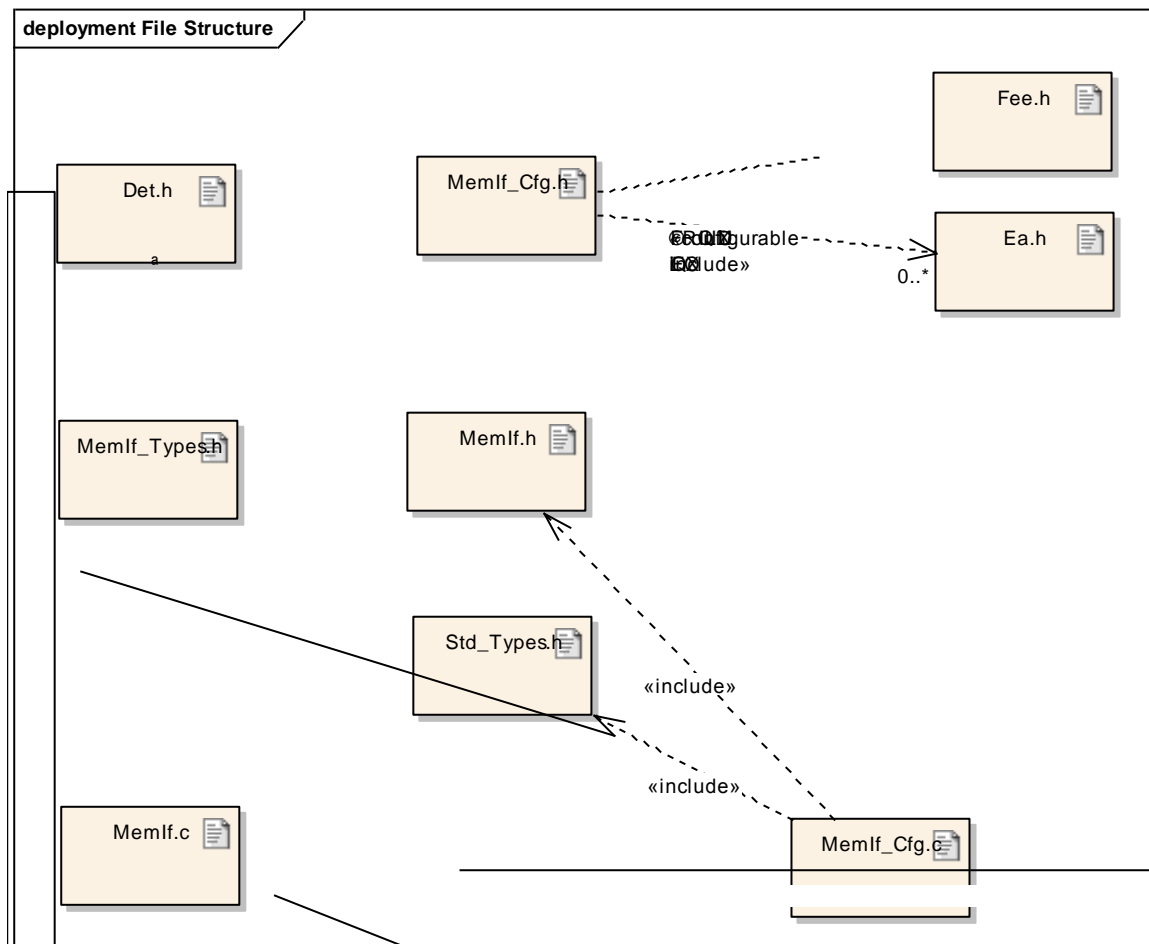
4.1.1 Static Files

File Name	Description

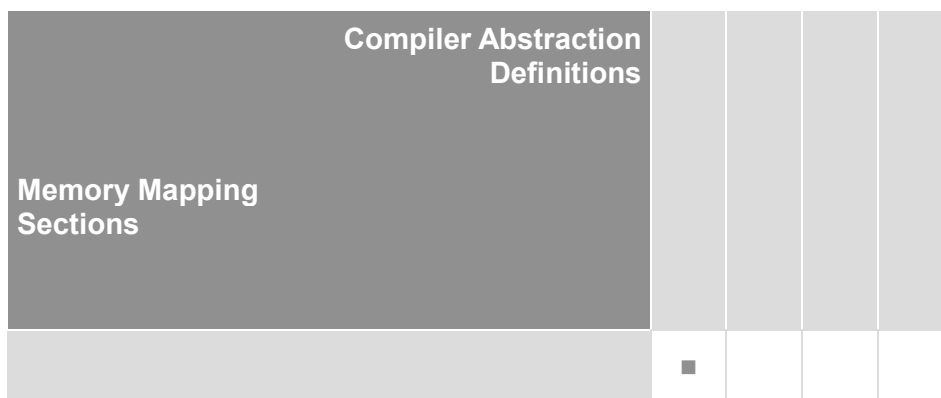
4.1.2 Dynamic Files

File Name	Description

4.2 Include Structure

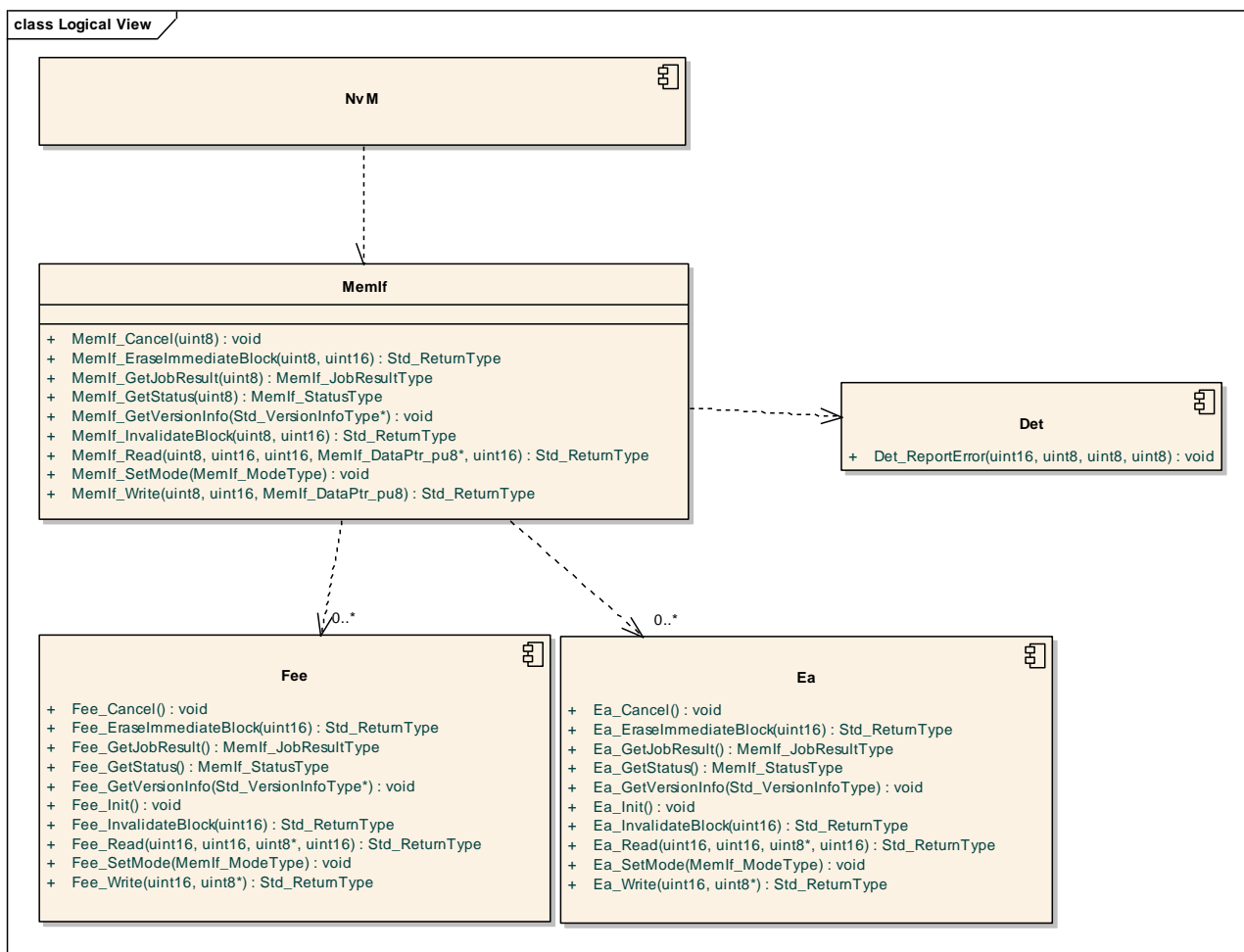


4.3 Compiler Abstraction and Memory Mapping



5 API Description

5.1 Interfaces Overview



5.2 Type Definitions

Type Name	C-Type	Description	Value Range
			MEMIF_UNINIT
			MEMIF_IDLE
			MEMIF_BUSY
			MEMIF_BUSY_INTERNAL

Type Name	C-Type	Description	Value Range
			MEMIF_JOB_OK
			MEMIF_JOB_FAILED
			MEMIF_JOB_PENDING
			MEMIF_JOB_CANCELLED
			MEMIF_BLOCK_INCONSISTENT
			MEMIF_BLOCK_INVALID
			MEMIF_MODE_SLOW
			MEMIF_MODE_FAST

5.3 Services provided by MemIf

5.3.1 MemIf_GetVersionInfo

Prototype		
void		(Std_VersionInfoType * VersionInfoPtr)
Parameter		
Return code		
-		-
Functional Description		
Particularities and Limitations		
■	MEMIF_E_PARAM_POINTER	-
■	Version Info Api	STD_ON

■

5.3.2 MemIf_SetMode

Prototype	
void	(MemIf_ModeType Mode)
Parameter	
Return code	
-	-
Functional Description	
Particularities and Limitations	
■	MEMIF_IDLE
>	

5.3.3 MemIf_Read

Prototype	
Std_ReturnType	(uint8 DeviceIndex, uint16 BlockNumber, uint16 BlockOffset, uint8* DataBufferPtr, uint16 Length)
Parameter	
	-
	-

Return code	
Functional Description	
Particularities and Limitations	
>	DeviceIndex MEMIF_E_PARAM_DEVICE
>	

5.3.4 MemIf_Write

Prototype	
<pre>Std_ReturnType (uint8 DeviceIndex, uint16 BlockNumber, uint8* DataBufferPtr)</pre>	
Parameter	
	-
	-
Return code	
Functional Description	
Particularities and Limitations	
>	DeviceIndex MEMIF_E_PARAM_DEVICE

>

-

5.3.5 MemIf_Cancel

Prototype	
void	(uint8 DeviceIndex)
Parameter	
Return code	
-	-
Functional Description	
Particularities and Limitations	
>	DeviceIndex MEMIF_E_PARAM_DEVICE
>	

-

5.3.6 MemIf_GetStatus

Prototype	
MemIf_StatusType	(uint8 DeviceIndex)
Parameter	
Return code	
Functional Description	

Particularities and Limitations		
>	DeviceIndex	
	MEMIF_BROADCAST_ID	MEMIF_E_PARAM_DEVICE
>	MEMIF_BROADCAST_ID	
>	MEMIF_IDLE	
>	MEMIF_UNINIT	
>	MEMIF_BUSY	
	MEMIF_UNINIT	
>	MEMIF_BUSY_INTERNAL	
	MEMIF_BUSY	MEMIF_UNINIT
>		

5.3.7 MemIf_GetJobResult

Prototype	
MemIf_JobResultType	(uint8 DeviceIndex)
Parameter	
Return code	
Functional Description	
Particularities and Limitations	
>	DeviceIndex
	MEMIF_E_PARAM_DEVICE
>	

5.3.8 MemIf_EraseImmediateBlock

Prototype	
Std_ReturnType (uint8 DeviceIndex, uint16 BlockNumber)	
Parameter	
	-
Return code	
Functional Description	
Particularities and Limitations	
>	DeviceIndex MEMIF_E_PARAM_DEVICE
>	

5.3.9 MemIf_InvalidateBlock

Prototype	
Std_ReturnType (uint8 DeviceIndex, uint16 BlockNumber)	
Parameter	
	-
Return code	

Functional Description	
Particularities and Limitations	
>	DeviceIndex MEMIF_E_PARAM_DEVICE
>	

5.4 Services used by MemIf

Component	API
	Det_ReportError
	Ea_SetMode
	Ea_Read
	Ea_Write
	Ea_Cancel
	Ea_GetStatus
	Ea_GetJobResult
	Ea_InvalidateBlock
	Ea_GetVersionInfo
	Ea_EraseImmediateBlock
	Fee_SetMode
	Fee_Read
	Fee_Write
	Fee_Cancel
	Fee_GetStatus
	Fee_GetJobResult
	Fee_InvalidateBlock
	Fee_GetVersionInfo
	Fee_EraseImmediateBlock

6 Configuration

7 AUTOSAR Standard Compliance

7.1 Deviations

7.1.1 Extension of Error Codes

7.2 Additions/ Extensions

8 Glossary and Abbreviations

8.1 Glossary

Term	Description

8.2 Abbreviations

Abbreviation	Description

9 Contact

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