

MICROSAR E2E

Document Information

History

Author	Date	Version	Remarks
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	- -		

Reference Documents

No.	Source	Title	Version
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Illustrations

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1 Component History

Component Version	New Features

2 Introduction

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

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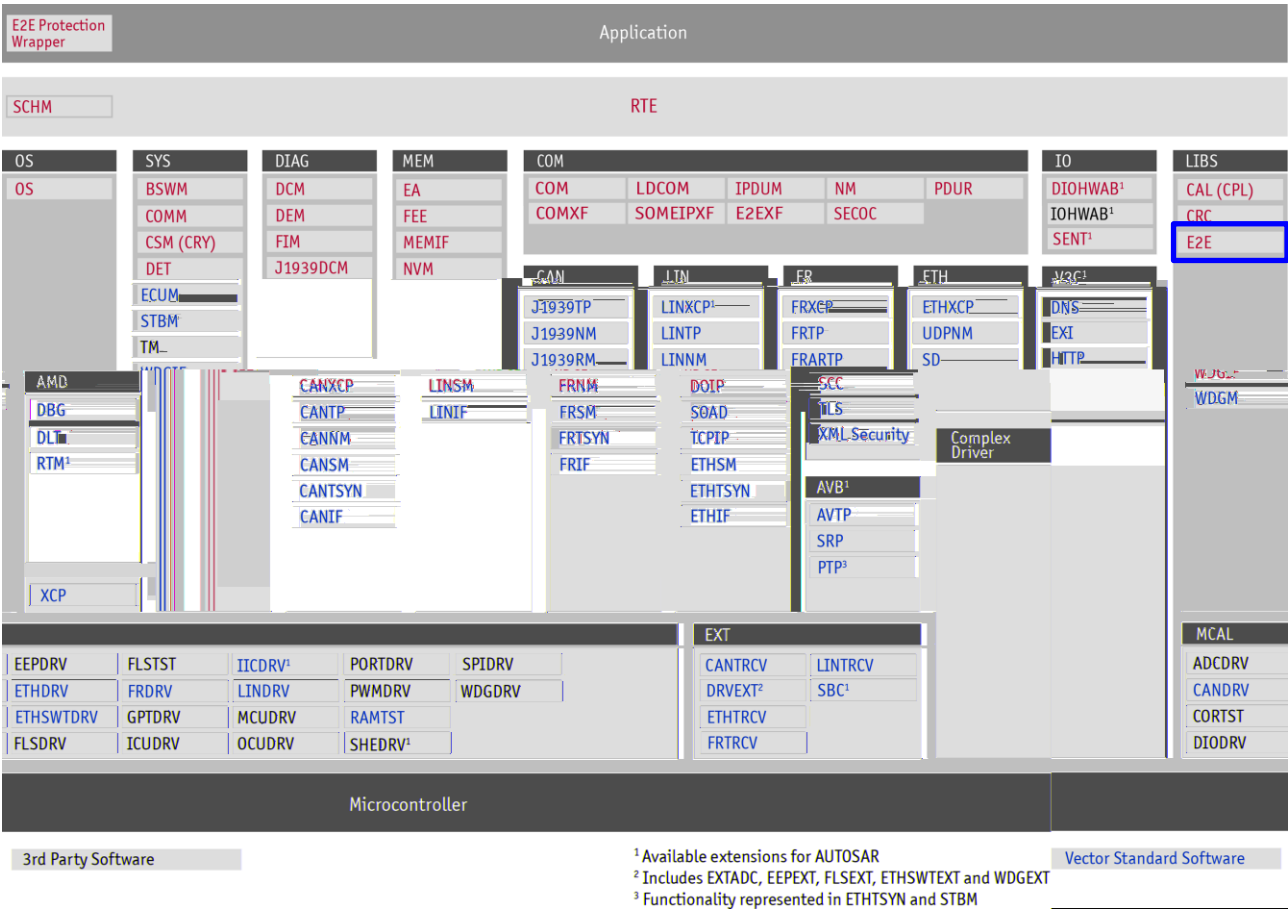
-

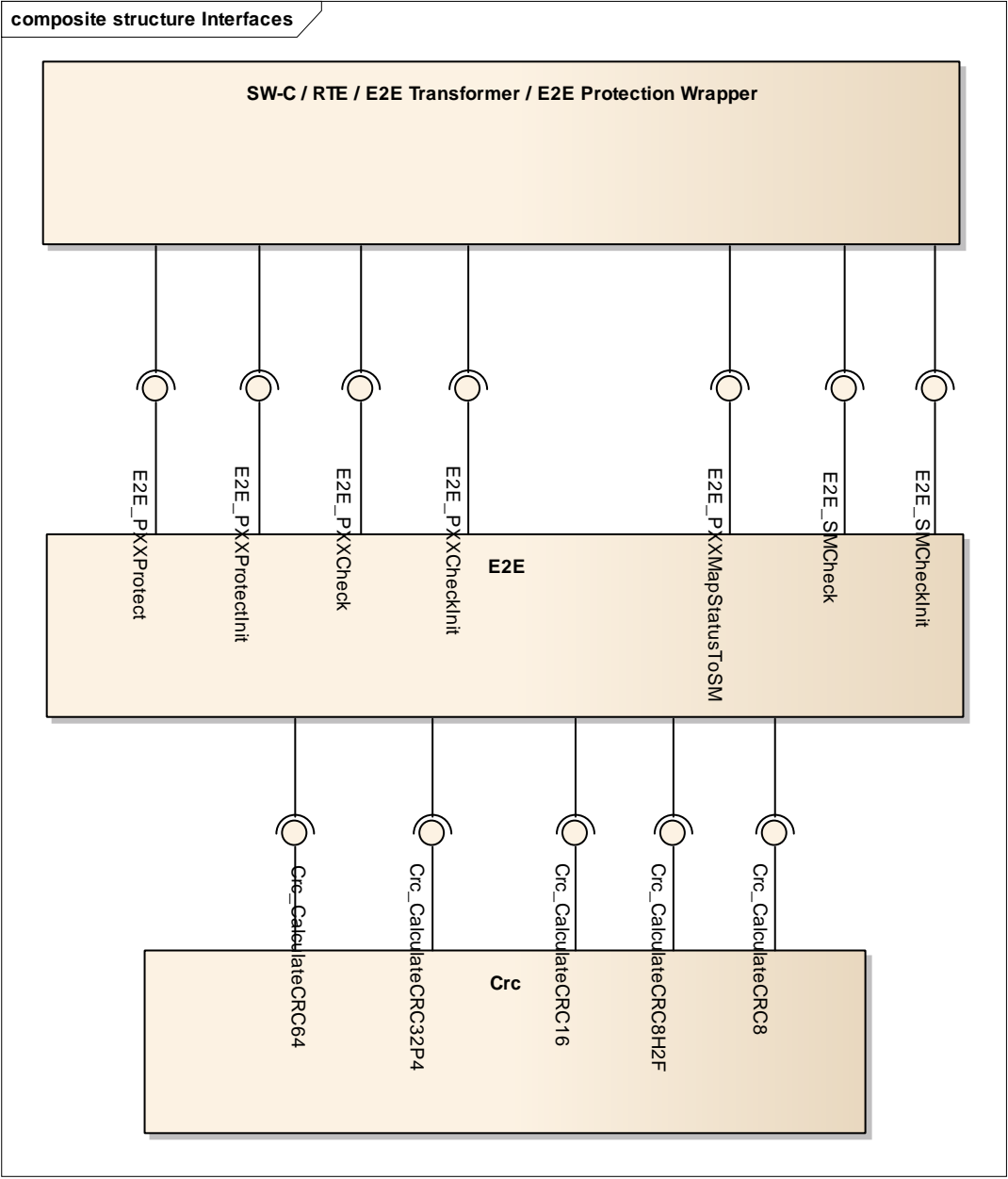
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2.1 Architecture Overview





PXX

P02
P07

PXX

P04
PJLR

P05

P01
P06

3 Functional Description

3.1 Features

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Supported AUTOSAR Standard Conform Features

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Features Provided Beyond the AUTOSAR Standard

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3.2 E2E Communication Protection

3.2.1 Communication Faults

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3.2.2 Fault Model

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3.2.3 Protection mechanisms

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E2E Mechanism	Description
	-

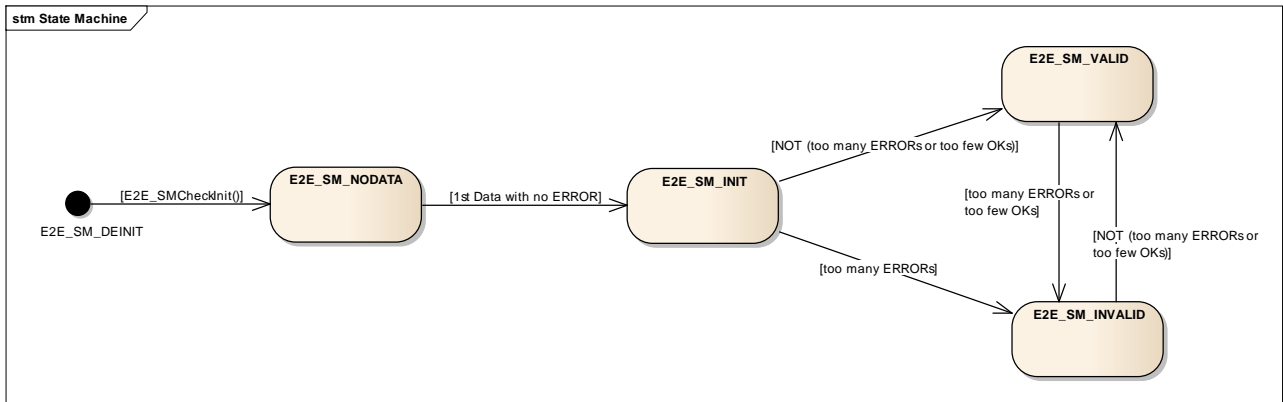
3.2.4 Detected Communication Faults

E2E Mechanism	Detected communication faults
-	

3.3 Initialization

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3.4 States



3.5 Main Functions

3.6 Error Handling

4 Integration

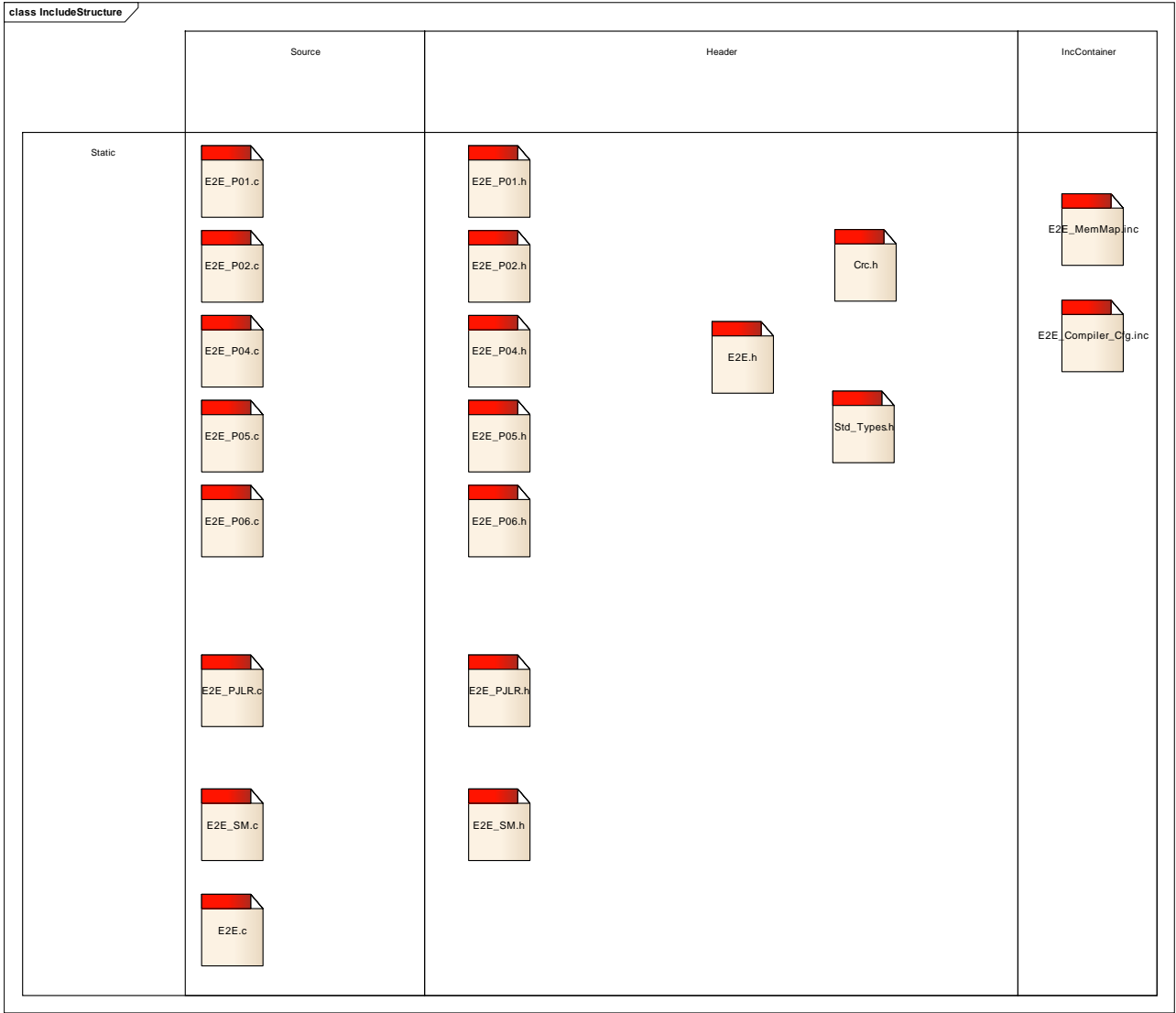
4.1 Scope of Delivery

4.1.1 Static Files

File Name	Description

4.1.2 Dynamic Files

4.2 Include Structure



4.3 Make

Setting Profile 1 in E2E_cfg.mak

```
-  
-  
  
E2E_USE_PROFIL1 = 1
```

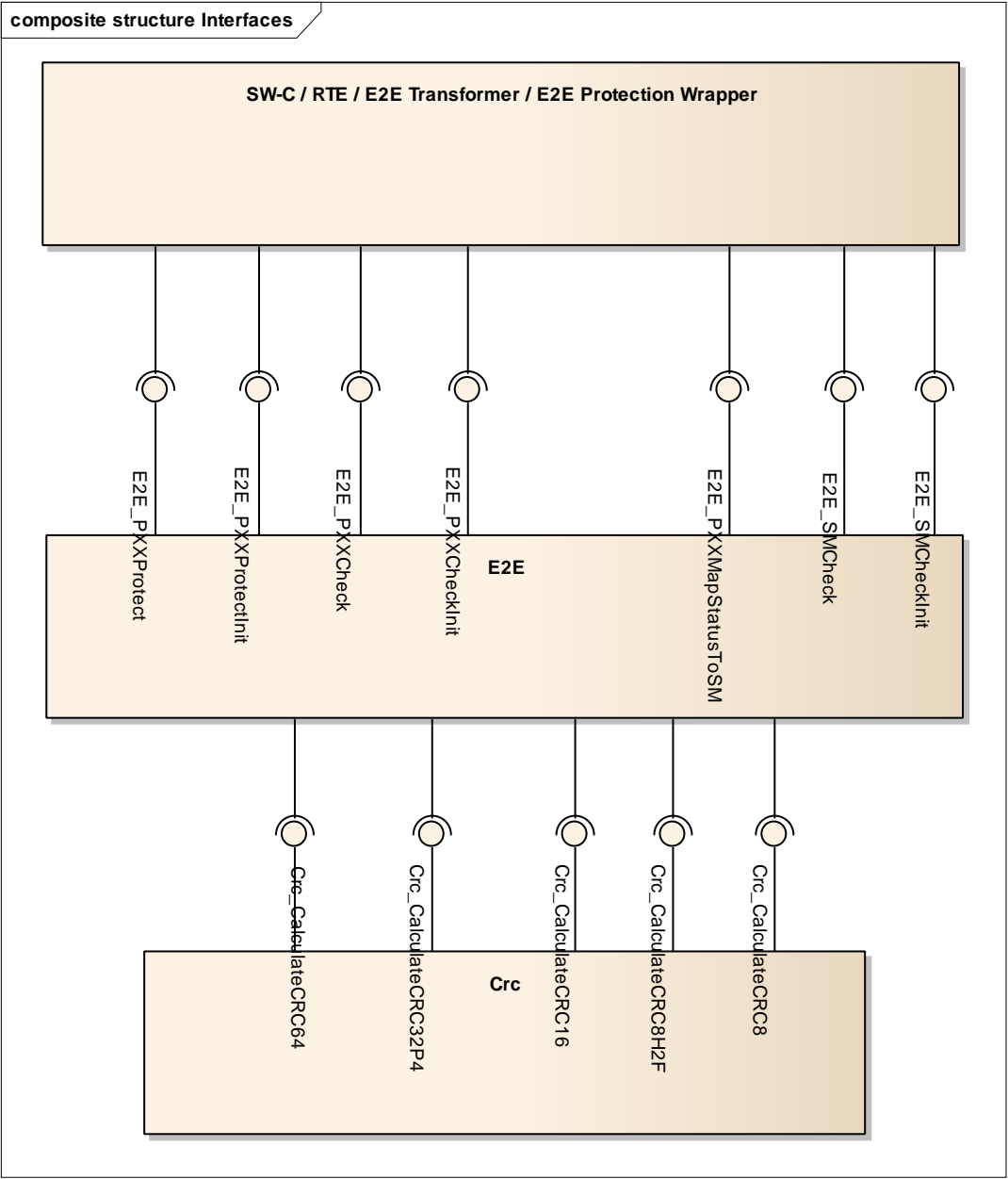
4.4 Critical Sections

4.5 Invocation of Protect and Check service

```
> E2E_PXXProtect    E2E_P01Protect
```

```
> E2E_PXXCheck     E2E_P01Check
```


5 API Description



5.1 Type Definitions

Type Name	C-Type	Description

Type Name	C-Type	Description
		-

5.2 Services provided by E2E

5.2.1 E2E_PXXProtect

Prototype	
Std_ReturnType (E2E_PXXConfigType* ConfigPtr, E2E_PXXProtectStateType* StatePtr, uint8* DataPtr, uint16 Length)	
Parameter	
ConfigPtr	
StatePtr	
DataPtr	
Length	(only supported in Profile 4, 5 and 6) Profile 7

Return code	
Std_ReturnType	>
	>
	>
	>
Functional Description	
Particularities and Limitations	
>	
>	
>	

5.2.2 E2E_PXXProtectInit

Prototype	
Std_ReturnType	(E2E_PXXProtectStateType* StatePtr)
Parameter	
StatePtr	
Return code	
Std_ReturnType	>
	>
Functional Description	
Particularities and Limitations	
>	
>	

5.2.3 E2E_PXXCheck

Prototype	
Std_ReturnType (E2E_PXXConfigType* ConfigPtr, E2E_PXXProtectStateType* StatePtr, uint8* DataPtr, uint16 Length)	
Parameter	
ConfigPtr	
StatePtr	
DataPtr	
Length	(only supported in Profile 4, 5 and 6) Profile 7
Return code	
Std_ReturnType	> > > >
Functional Description	
Particularities and Limitations	
>	
>	
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5.2.4 E2E_PXXCheckInit

Prototype	
Std_ReturnType (E2E_PXXCheckStateType* StatePtr)	
Parameter	
StatePtr	
Return code	
Std_ReturnType	> >
Functional Description	

Particularities and Limitations	
>	
>	

5.2.5 E2E_PXXMapStatusToSM

Prototype	
E2E_PCheckStatusType (Std_ReturnType CheckReturn, E2E_PXXCheckStatusType* Status, Boolean profileBehavior)	
Parameter	
CheckReturn	
Status	
profileBehavior	> > This parameter is only supported in Profile 1, 2 and JLR.
Return code	
E2E_PCheckStatusType	
Functional Description	
-	
Particularities and Limitations	
>	
>	

5.2.6 E2E_SMCheck

Prototype	
Std_ReturnType (E2E_PCheckStatusType ProfileStatus, E2E_SMConfigType* ConfigPtr, E2E_SMCheckStateType* StatePtr)	
Parameter	
ProfileStatus	
ConfigPtr	
StatePtr	

Return code	
Std_ReturnType	> > > > >
Functional Description	
-	
Particularities and Limitations	
>	
>	

5.2.7 E2E_SMCheckInit

Prototype	
Std_ReturnType (E2E_SMCheckStateType* StatePtr, E2E_SMConfigType* ConfigPtr)	
Parameter	
StatePtr	
ConfigPtr	
Return code	
Std_ReturnType	> >
Functional Description	
Particularities and Limitations	
>	
>	

5.3 Services used by E2E

Component	API
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5.4 Callback Functions

5.5 Configurable Interfaces

6 Configuration

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Caution



7 Glossary and Abbreviations

7.1 Glossary

Term	Description

7.2 Abbreviations

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8 Contact

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