# **User Manual**

for MPC574XG BASE Driver

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# **Chapter 1 Revision History**

Table 1-1. Revision History

Revision	Date	Author	Description
1.0	17/02/2017	FSL Dev. Team	Updated version for MPC574XG1.0.0 Release

# **Chapter 2 Introduction**

This User Manual describes NXP Semiconductor AUTOSAR Base (BASE) for MPC574XG.

AUTOSAR BASE driver configuration parameters are described in BASE Driver chapter of this document. BASE driver requirements and APIs are also described in BASE Driver chapter of this document. The BASE configuration plugin is described in the Tresos Configuration Plug-in chapter.

# 2.1 Supported Derivatives

The software described in this document is intented to be used with the following microcontroller devices of NXP Semiconductor .

Table 2-1. MPC574XG Derivatives

NXP Semiconductor	MPC5748G_LQFP176,
	MPC5748G_MAPBGA256,
	MPC5748G_MAPBGA324,
	MPC5747G_LQFP176,
	MPC5747G_MAPBGA256,
	MPC5747G_MAPBGA324,
	MPC5746G_LQFP176,
	MPC5746G_MAPBGA256,
	MPC5746G_MAPBGA324,
	MPC5748C_LQFP176,
	MPC5748C_MAPBGA256,
	MPC5748C_MAPBGA324,
	MPC5747C_LQFP176,
	MPC5747C_MAPBGA256,
	MPC5747C_MAPBGA324,
	MPC5746C_LQFP176,
	MPC5746C_MAPBGA256,
	MPC5746C_MAPBGA324,
	MPC5746C_MAPBGA100,
	MPC5745C_LQFP176,
	MPC5745C_MAPBGA256,
	MPC5745C_MAPBGA100,
	MPC5744C_LQFP176,
	MPC5744C_MAPBGA256,

Overview

Table 2-1. MPC574XG Derivatives

MPC5744C_MAPBGA100,
MPC5746B_LQFP176,
MPC5746B_MAPBGA256,
MPC5746B_MAPBGA100,
MPC5744B_LQFP176,
MPC5744B_MAPBGA256,
MPC5744B_MAPBGA100,
MPC5745B_LQFP176,
MPC5745B_MAPBGA256,
MPC5745B_MAPBGA100

All of the above microcontroller devices are collectively named as MPC574XG.

## 2.2 Overview

**AUTOSAR** (**AUTomotive Open System ARchitecture**) is an industry partnership working to establish standards for software interfaces and software modules for automobile electronic control systems.

#### **AUTOSAR**

- paves the way for innovative electronic systems that further improve performance, safety and environmental friendliness.
- is a strong global partnership that creates one common standard: "Cooperate on standards, compete on implementation".
- is a key enabling technology to manage the growing electrics/electronics complexity. It aims to be prepared for the upcoming technologies and to improve cost-efficiency without making any compromise with respect to quality.
- facilitates the exchange and update of software and hardware over the service life of the vehicle.

# 2.3 About this Manual

This Technical Reference employs the following typographical conventions:

**Boldface** type: Bold is used for important terms, notes and warnings.

*Italic* font: Italic typeface is used for code snippets in the text. Note that C language modifiers such "const" or "volatile" are sometimes omitted to improve readability of the presented code.

Notes and warnings are shown as below:

#### Note

This is a note.

# 2.4 Acronyms and Definitions

Table 2-2. Acronyms and Definitions

Term	Definition	
API	Application Programming Interface	
ASM	Assembler Language	
AUTOSAR	Automotive Open System Architecture	
BSMI	Basic Software Make file Interface	
C/CPP	C and C++ Source Code	
DEM	Diagnostic Event Manager	
DET	Development Error Tracer	
N/A	Not Applicable	
MCU	Micro Controller Unit	
VLE	Variable Length Encoding	

# 2.5 Reference List

**Table 2-3. Reference List** 

#	Title	Version
1	AUTOSAR 4.2 Rev0002BASE Driver Software Specification Document.	V4.2.2
2	MPC5748G Reference Manual	Rev. 5, 12/2016
3	MPC5746C Reference Manual	Rev. 4, 12/2016
4	MPC5748G_1N81M_Rev.2 (official document) (1N81M)	Jun-16
5	MPC5748G_1N81M_0N78S_Comparison_Summary_v 2_0 (internal document) (1N81M, 0N78S)	31.10.2016
6	MPC5746C_1N06M_Rev.4 (official document) (1N06M)	Jul-16
7	MPC5746C_cut1.1_cut2.0_cut2.1_comparison_v0 (internal document) (1N06M, 0N84S, 1N84S)	14-Sep-16
8	C3M_cut2.1_new_errata_20170113 (internal document) (1N84S)	13-Jan-17

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Reference List

# Chapter 3 Driver

# 3.1 Requirements

BASE is an custom module, so AUTOSAR only specifies some guidelines for the design and configuration. Other details for this module can be found in EB tresos Studio developer's guide. (See Table Reference List). This module contains stubs from several AutoSAR components. The requirements used for the files present in this module are available in the Software Specification documents from Table Reference List.

# 3.2 Driver Design Summary

The BASE module contains the common files/definitions needed by the MCAL. This means that it is a dependency for all other MCAL modules.

The BASE module consists from a list of C header files that can be split into 3 categories:

- AutoSAR required files (that AutoSAR specifies and must not be modified)
- Stubs files that are required by AutoSAR but are provided as examples in the NXP SemiconductorMPC574XG MCAL release. They must be re-written by the integrator.
- Files that are required by the NXP SemiconductorMPC574XG MCAL and must not be modified.

Below you can find the descriptions for each file present in the BASE module:

Table 3-1. Description of files inside the BASE module

File Name	File Type	Description
pes.h	all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines/typedefs/constants that are needed by the MCAL drivers. Note: The following files need to be included prior to include Can_GeneralTypes.h - ComStack_Cfg.h and Can_Cfg.h

Table continues on the next page...

**Driver Design Summary** 

Table 3-1. Description of files inside the BASE module (continued)

File Name	File Type	Description
Compiler.h	AutoSAR specified file -	This is a file with content fully defined by the AutoSAR standard. AutoSAR requires that no modification must be done to the contents of this file.
	must not be modified.	During integration this file can be overwritten with another one with the same C content.
	daiiida	The NXP SemiconductorMPC574XG MCAL release provides this file and can be used as-is.
Compiler_Cfg.h	Stub file. Must be replaced by all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines that are needed by the MCAL drivers.
		This file defines the compiler memory and pointer classes to be used for MCAL. The value of the defines must be set by each integrator.
ComStack_Cfg. h	Stub file. Must be replaced by all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines/typedefs/constants that are needed by the MCAL drivers.
ComStack_Type s.h	Stub file. Must be replaced by all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines/typedefs/constants that are needed by the MCAL drivers.
Eth_GeneralTyp es.h	Stub file. Must be replaced by all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines/typedefs/constants that are needed by the MCAL drivers.
Fr_GeneralType s.h	Stub file. Must be replaced by all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines/typedefs/constants that are needed by the MCAL drivers.
Lin_GeneralTyp es.h	Stub file. Must be replaced by all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines/typedefs/constants that are needed by the MCAL drivers.
Mcal.h	MCAL specific file.	This is a file that specific to NXP SemiconductorMPC574XG MCAL release. It contains defines and macros needed by MCAL drivers.
		It contains several macros defined for every compiler supported by MCAL (but not all compilers are available for all releases - for a list of compilers supported by this release please check the release note document).
		If no operating system is used, the following 4 macros can be overwritten by the integrators depending on their environment:  • ISR  • EXIT_INTERRUPT  • SuspendAllInterrupts  • ResumeAllInterrupts
		If the integrated project uses an AutoSAR operating system, this file must be used as-is.
MemMap.h	Stub file. Must be replaced by all integrators.	This file is a stub. Its name and content is specified by AutoSAR but in the NXP SemiconductorMPC574XG MCAL release it contains only the defines/typedefs/constants that are needed by the MCAL drivers.
		This file contains the memory mapping instructions/pragmas needed for every memory section from the MCAL code.
		The default content of this file only renames some sections and has the pragmas to clearly mark the RAM code sections. Depending on the integrating environment, this entire file must be updated.
Platform_Types. h	AutoSAR specified file -	This is a file with content fully defined by the AutoSAR standard. AutoSAR requires that no modification must be done to the contents of this file.

Table continues on the next page...

Table 3-1. Description of files inside the BASE module (continued)

File Name	File Type	Description
	must not be modified.	During integration this file can be overwritten with another one with the same C content.  The NXP SemiconductorMPC574XG MCAL release provides this file and can be used as-is.
RegLockMacros .h	MCAL specific file - to be used as-is.	This is a file that specific to NXP SemiconductorMPC574XG MCAL release. It contains defines needed by MCAL drivers.
Reg_eSys.h	MCAL specific file - to be used as-is.	This is a file that specific to NXP SemiconductorMPC574XG MCAL release. It contains defines needed by MCAL drivers.
SilRegMacros.h	MCAL specific file - to be used as-is.	This is a file that specific to NXP SemiconductorMPC574XG MCAL release. It contains defines and macros needed by MCAL drivers.
Soc_lps.h	MCAL specific file - to be used as-is.	This is a file that specific to NXP SemiconductorMPC574XG MCAL release. It contains defines and macros needed by MCAL drivers.
StdRegMacros.h	MCAL specific file - to be used as-is.	This is a file that specific to NXP SemiconductorMPC574XG MCAL release. It contains defines and macros needed by MCAL drivers.
	AutoSAR specified file -	This is a file with content fully defined by the AutoSAR standard. AutoSAR requires that no modification must be done to the contents of this file.
	must not be modified.	During integration this file can be overwritten with another one with the same C content.
		The NXP SemiconductorMPC574XG MCAL release provides this file and can be used as-is.
modules.h	MCAL specific file - to be used as-is.	This is a file that is generated by Base plugin and contains defines needed by MCAL drivers.

# 3.3 Hardware Resources

None.

# 3.4 Deviation from Requirements

Since this is a custom module, it contains files from several AutoSAR components. The AUTOSAR provides some guidelines for design and configuration the BASE Module. The BASE module deviates from the AUTOSAR software specification documents from Table Reference List mainly for the files provided as stubs in the current release.

There are also some additional requirements (on top of requirements detailed in AUTOSAR software specification documents from Table Reference List which need to be satisfied for correct operation.

#### **Driver limitations**

### **Table 3-2. Deviations Status Column Description**

Term	Definition
N/A	Not available
N/T	Not testable
N/S	Out of scope
N/I	Not implemented
N/F	Not fully implemented

Below table identifies the AUTOSAR requirements that are not fully implemented, implemented differently, or out of scope for the module.

**Table 3-3. Driver Deviations Table** 

Requirement	Status	Description	Notes
N/A	N/A	N/A	N/A

# 3.5 Driver limitations

None

#### **Driver usage and configuration tips** 3.6

None

#### **Runtime Errors** 3.7

The module does not generate any DEM errors at runtime.

**Table 3-4. Runtime Errors** 

Function	Error Code	Condition triggering the error
N/A	N/A	N/A

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# 3.8 Software specification

The following sections contains driver software specifications.

# 3.8.1 Define Reference

Constants supported by the driver are as per AUTOSAR BASE Driver software specification Version 4.2 Rev0002.

## 3.8.1.1 Define COMPILER\_VENDOR\_ID

Parameters that shall be published within the compiler abstraction header file and also in the module's description file.

**Implements:** DBASE03023

Table 3-5. Define COMPILER\_VENDOR\_ID Description

Name	COMPILER_VENDOR_ID
Initializer	43

# 3.8.1.2 Define COMPILER\_AR\_RELEASE\_MAJOR\_VERSION

Parameters that shall be published within the compiler abstraction header file and also in the module's description file.

**Implements:** DBASE03023

Table 3-6. Define COMPILER\_AR\_RELEASE\_MAJOR\_VERSION Description

Name	COMPILER_AR_RELEASE_MAJOR_VERSION
Initializer	4

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# 3.8.1.3 Define COMPILER\_AR\_RELEASE\_MINOR\_VERSION

Parameters that shall be published within the compiler abstraction header file and also in the module's description file.

**Implements:** DBASE03023

Table 3-7. Define COMPILER\_AR\_RELEASE\_MINOR\_VERSION Description

Name	COMPILER_AR_RELEASE_MINOR_VERSION
Initializer	0

# 3.8.1.4 Define COMPILER\_AR\_RELEASE\_REVISION\_VERSION

Parameters that shall be published within the compiler abstraction header file and also in the module's description file.

**Implements:** DBASE03023

Table 3-8. Define COMPILER\_AR\_RELEASE\_REVISION\_VERSION Description

Name	COMPILER_AR_RELEASE_REVISION_VERSION
Initializer	3

# 3.8.1.5 Define COMPILER\_SW\_MAJOR\_VERSION

Parameters that shall be published within the compiler abstraction header file and also in the module's description file.

**Implements:** DBASE03023

Table 3-9. Define COMPILER\_SW\_MAJOR\_VERSION Description

Name	COMPILER_SW_MAJOR_VERSION
Initializer	Software release major version number

## 3.8.1.6 Define COMPILER\_SW\_MINOR\_VERSION

Parameters that shall be published within the compiler abstraction header file and also in the module's description file.

**Implements:** DBASE03023

Table 3-10. Define COMPILER\_SW\_MINOR\_VERSION Description

Name	COMPILER_SW_MINOR_VERSION
Initializer	Software release minor version number

## 3.8.1.7 Define COMPILER\_SW\_PATCH\_VERSION

Parameters that shall be published within the compiler abstraction header file and also in the module's description file.

**Implements:** DBASE03023

Table 3-11. Define COMPILER\_SW\_PATCH\_VERSION Description

Name	COMPILER_SW_PATCH_VERSION
Initializer	Software release patch version number

# 3.8.1.8 Define AUTOMATIC

The memory class AUTOMATIC shall be provided as empty definition, used for the declaration of local pointers.

**Implements: DBASE03004** 

**Table 3-12. Define AUTOMATIC Description** 

Name	AUTOMATIC
Initializer	

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#### 3.8.1.9 Define CONST

The compiler abstraction shall define the CONST macro for the declaration and definition of constants.

**Implements:** DBASE03012

Table 3-13. Define CONST Description

Name	CONST
Initializer	const consttype

#### 3.8.1.10 Define CONSTP2CONST

The compiler abstraction shall define the CONSTP2CONST macro for the declaration and definition of constant pointers accessing constants.

**Implements:** DBASE03013

Table 3-14. Define CONSTP2CONST Description

Name	CONSTP2CONST
Initializer	const ptrtype * const

## 3.8.1.11 Define CONSTP2VAR

The compiler abstraction shall define the CONSTP2VAR macro for the declaration and definition of constant pointers accessing variables.

**Implements: DBASE03014** 

Table 3-15. Define CONSTP2VAR Description

Name	CONSTP2VAR
Initializer	ptrtype * const

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### 3.8.1.12 **Define FUNC**

The compiler abstraction shall define the FUNC macro for the declaration and definition of functions, that ensures correct syntax of function declarations as required by a specific compiler.

**Implements:** DBASE03015

**Table 3-16. Define FUNC Description** 

Name	FUNC
Initializer	rettype

## 3.8.1.13 Define NULL PTR

The compiler abstraction shall provide the NULL\_PTR define with a void pointer to zero definition.

**Implements: DBASE03009** 

Table 3-17. Define NULL\_PTR Description

Name	NULL_PTR
Initializer	((void *)0)

# 3.8.1.14 Define P2CONST

The compiler abstraction shall define the P2CONST macro for the declaration and definition of pointers in RAM pointing to constants.

**Implements:** DBASE03017

Table 3-18. Define P2CONST Description

Name	P2CONST
Initializer	const ptrtype *

Software specification

#### 3.8.1.15 Define P2FUNC

The compiler abstraction shall define the P2FUNC macro for the type definition of pointers to functions.

**Implements: DBASE03018** 

Table 3-19. Define P2FUNC Description

Name	P2FUNC
Initializer	rettype (*fctname)

#### 3.8.1.16 Define P2VAR

The compiler abstraction shall define the P2VAR macro for the declaration and definition of pointers in RAM, pointing to variables.

**Implements:** DBASE03019

Table 3-20. Define P2VAR Description

Name	P2VAR
Initializer	ptrtype *

# 3.8.1.17 Define TYPEDEF

The memory class TYPEDEF shall be provided as empty definition. This memory class shall be used within type definitions, where no memory qualifier can be specified. This can be necessary for defining pointer types, with e.g. P2VAR, where the macros require two parameters. First parameter can be specified in the type definition (distance to the memory location referenced by the pointer), but the second one (memory allocation of the pointer itself) cannot be defined at this time. Hence memory class TYPEDEF shall be applied.

**Implements:** DBASE03011

#### **Table 3-21. Define TYPEDEF Description**

Name	TYPEDEF
Initializer	

#### 3.8.1.18 Define VAR

The compiler abstraction shall define the VAR macro for the declaration and definition of variables.

# **Implements:** DBASE03022

**Table 3-22. Define VAR Description** 

Name	VAR
Initializer	vartype

# 3.8.1.19 Define ADC\_CODE

ADC memory and pointer classes.

**Implements: DBASE04001** 

Table 3-23. Define ADC\_CODE Description

Name	ADC_CODE
Initializer	

# 3.8.1.20 Define ADC\_CONST

ADC memory and pointer classes.

**Implements:** DBASE04001

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#### Table 3-24. Define ADC\_CONST Description

Name	ADC_CONST
Initializer	

## 3.8.1.21 Define ADC\_APPL\_DATA

ADC memory and pointer classes.

**Implements:** DBASE04001

Table 3-25. Define ADC\_APPL\_DATA Description

Name	ADC_APPL_DATA
Initializer	

#### 3.8.1.22 Define ADC\_APPL\_CONST

ADC memory and pointer classes.

**Implements:** DBASE04001

## Table 3-26. Define ADC\_APPL\_CONST Description

Name	ADC_APPL_CONST
Initializer	

# 3.8.1.23 Define ADC\_APPL\_CODE

ADC memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-27. Define ADC\_APPL\_CODE Description

Name	ADC_APPL_CODE
Initializer	

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## 3.8.1.24 Define ADC\_CALLOUT\_CODE

ADC memory and pointer classes.

**Implements:** DBASE04001

Table 3-28. Define ADC\_CALLOUT\_CODE Description

Name	ADC_CALLOUT_CODE
Initializer	

#### 3.8.1.25 Define ADC\_VAR\_NOINIT

ADC memory and pointer classes.

**Implements: DBASE04001** 

Table 3-29. Define ADC\_VAR\_NOINIT Description

Name	ADC_VAR_NOINIT
Initializer	

### 3.8.1.26 Define ADC\_VAR\_POWER\_ON\_INIT

ADC memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-30. Define ADC\_VAR\_POWER\_ON\_INIT Description

Name	ADC_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.27 Define ADC\_VAR\_FAST

ADC memory and pointer classes.

**Implements:** DBASE04001

Table 3-31. Define ADC\_VAR\_FAST Description

Name	ADC_VAR_FAST
Initializer	

#### 3.8.1.28 Define ADC\_VAR

ADC memory and pointer classes.

**Implements:** DBASE04001

Table 3-32. Define ADC\_VAR Description

Name	ADC_VAR
Initializer	

# 3.8.1.29 Define CAN\_CODE

CAN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-33. Define CAN\_CODE Description

Name	CAN_CODE
Initializer	

# 3.8.1.30 Define CAN CONST

CAN memory and pointer classes.

#### **Implements: DBASE04001**

Table 3-34. Define CAN\_CONST Description

Name	CAN_CONST
Initializer	

### 3.8.1.31 Define CAN\_APPL\_DATA

CAN memory and pointer classes.

**Implements:** DBASE04001

Table 3-35. Define CAN\_APPL\_DATA Description

Name	CAN_APPL_DATA
Initializer	

# 3.8.1.32 Define CAN\_APPL\_CONST

CAN memory and pointer classes.

**Implements:** DBASE04001

Table 3-36. Define CAN\_APPL\_CONST Description

Name	CAN_APPL_CONST
Initializer	

# 3.8.1.33 Define CAN\_APPL\_CODE

CAN memory and pointer classes.

**Implements:** DBASE04001

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#### Table 3-37. Define CAN\_APPL\_CODE Description

Name	CAN_APPL_CODE
Initializer	

## 3.8.1.34 Define CAN\_CALLOUT\_CODE

CAN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-38. Define CAN\_CALLOUT\_CODE Description

Name	CAN_CALLOUT_CODE
Initializer	

# 3.8.1.35 Define CAN\_VAR\_NOINIT

CAN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-39. Define CAN\_VAR\_NOINIT Description

Name	CAN_VAR_NOINIT
Initializer	

# 3.8.1.36 Define CAN\_VAR\_POWER\_ON\_INIT

CAN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-40. Define CAN\_VAR\_POWER\_ON\_INIT Description

Name	CAN_VAR_POWER_ON_INIT
Initializer	

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#### 3.8.1.37 Define CAN\_VAR\_FAST

CAN memory and pointer classes.

**Implements:** DBASE04001

Table 3-41. Define CAN\_VAR\_FAST Description

Name	CAN_VAR_FAST
Initializer	

#### 3.8.1.38 Define CAN\_VAR

CAN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-42. Define CAN\_VAR Description

Name	CAN_VAR
Initializer	

### 3.8.1.39 Define CRCU\_CODE

CRCU memory and pointer classes.

# **Implements:**

### Table 3-43. Define CRCU\_CODE Description

Name	CRCU_CODE
Initializer	

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# 3.8.1.40 Define CRCU\_CONST

CRCU memory and pointer classes.

#### **Implements:**

#### Table 3-44. Define CRCU\_CONST Description

Name	CRCU_CONST
Initializer	

# 3.8.1.41 Define CRCU\_APPL\_DATA

CRCU memory and pointer classes.

#### **Implements:**

#### Table 3-45. Define CRCU\_APPL\_DATA Description

Name	CRCU_APPL_DATA
Initializer	

# 3.8.1.42 Define CRCU\_APPL\_CONST

CRCU memory and pointer classes.

# **Implements:**

#### Table 3-46. Define CRCU\_APPL\_CONST Description

Name	CRCU_APPL_CONST
Initializer	

# 3.8.1.43 Define CRCU\_APPL\_CODE

CRCU memory and pointer classes.

#### **Implements:** DBASE04001

Table 3-47. Define CRCU\_APPL\_CODE Description

Name	CRCU_APPL_CODE
Initializer	

### 3.8.1.44 Define CRCU\_CALLOUT\_CODE

CRCU memory and pointer classes.

#### **Implements:**

#### Table 3-48. Define CRCU\_CALLOUT\_CODE Description

Name	CRCU_CALLOUT_CODE
Initializer	

# 3.8.1.45 Define CRCU VAR NOINIT

CRCU memory and pointer classes.

## **Implements:**

#### Table 3-49. Define CRCU\_VAR\_NOINIT Description

Name	CRCU_VAR_NOINIT
Initializer	

# 3.8.1.46 Define CRCU\_VAR\_POWER\_ON\_INIT

CRCU memory and pointer classes.

## **Implements:**

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#### Table 3-50. Define CRCU\_VAR\_POWER\_ON\_INIT Description

Name	CRCU_VAR_POWER_ON_INIT
Initializer	

#### 3.8.1.47 Define CRCU\_VAR\_FAST

CRCU memory and pointer classes.

# **Implements:**

#### Table 3-51. Define CRCU\_VAR\_FAST Description

Name	CRCU_VAR_FAST
Initializer	

## 3.8.1.48 Define CRCU\_VAR

CRCU memory and pointer classes.

#### **Implements:**

# Table 3-52. Define CRCU\_VAR Description

Name	CRCU_VAR
Initializer	

# 3.8.1.49 Define CANIF\_CODE

CANIF memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-53. Define CANIF\_CODE Description

Name	CANIF_CODE
Initializer	

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## 3.8.1.50 Define CANIF\_CONST

CANIF memory and pointer classes.

**Implements:** DBASE04001

Table 3-54. Define CANIF\_CONST Description

Name	CANIF_CONST
Initializer	

#### 3.8.1.51 Define CANIF\_APPL\_DATA

CANIF memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-55. Define CANIF\_APPL\_DATA Description

Name	CANIF_APPL_DATA
Initializer	

### 3.8.1.52 Define CANIF\_APPL\_CONST

CANIF memory and pointer classes.

**Implements: DBASE04001** 

# Table 3-56. Define CANIF\_APPL\_CONST Description

Name	CANIF_APPL_CONST
Initializer	

# 3.8.1.53 Define CANIF\_APPL\_CODE

CANIF memory and pointer classes.

**Implements: DBASE04001** 

Table 3-57. Define CANIF\_APPL\_CODE Description

Name	CANIF_APPL_CODE
Initializer	

# 3.8.1.54 Define CANIF\_CALLOUT\_CODE

CANIF memory and pointer classes.

**Implements:** DBASE04001

Table 3-58. Define CANIF\_CALLOUT\_CODE Description

Name	CANIF_CALLOUT_CODE
Initializer	

# 3.8.1.55 Define CANIF\_VAR\_NOINIT

CANIF memory and pointer classes.

**Implements:** DBASE04001

Table 3-59. Define CANIF\_VAR\_NOINIT Description

Name	CANIF_VAR_NOINIT
Initializer	

# 3.8.1.56 Define CANIF\_VAR\_POWER\_ON\_INIT

CANIF memory and pointer classes.

#### **Implements: DBASE04001**

#### Table 3-60. Define CANIF\_VAR\_POWER\_ON\_INIT Description

Name	CANIF_VAR_POWER_ON_INIT
Initializer	

### 3.8.1.57 Define CANIF\_VAR\_FAST

CANIF memory and pointer classes.

**Implements:** DBASE04001

Table 3-61. Define CANIF\_VAR\_FAST Description

Name	CANIF_VAR_FAST
Initializer	

# 3.8.1.58 Define CANIF\_VAR

CANIF memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-62. Define CANIF\_VAR Description

Name	CANIF_VAR
Initializer	

# 3.8.1.59 Define DEM\_CODE

DEM memory and pointer classes.

**Implements:** DBASE04001

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#### Table 3-63. Define DEM\_CODE Description

Name	DEM_CODE
Initializer	

#### 3.8.1.60 Define DEM\_CONST

DEM memory and pointer classes.

# **Implements:** DBASE04001

#### Table 3-64. Define DEM\_CONST Description

Name	DEM_CONST
Initializer	

#### 3.8.1.61 Define DEM\_APPL\_DATA

DEM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-65. Define DEM\_APPL\_DATA Description

Name	DEM_APPL_DATA
Initializer	

# 3.8.1.62 Define DEM\_APPL\_CONST

DEM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-66. Define DEM\_APPL\_CONST Description

Name	DEM_APPL_CONST
Initializer	

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#### 3.8.1.63 Define DEM\_APPL\_CODE

DEM memory and pointer classes.

**Implements:** DBASE04001

Table 3-67. Define DEM\_APPL\_CODE Description

Name	DEM_APPL_CODE
Initializer	

# 3.8.1.64 Define DEM\_CALLOUT\_CODE

DEM memory and pointer classes.

**Implements: DBASE04001** 

Table 3-68. Define DEM\_CALLOUT\_CODE Description

Name	DEM_CALLOUT_CODE
Initializer	

### 3.8.1.65 Define DEM\_VAR\_NOINIT

DEM memory and pointer classes.

**Implements:** DBASE04001

### Table 3-69. Define DEM\_VAR\_NOINIT Description

Name	DEM_VAR_NOINIT
Initializer	

### 3.8.1.66 Define DEM\_VAR\_POWER\_ON\_INIT

DEM memory and pointer classes.

**Implements:** DBASE04001

Table 3-70. Define DEM\_VAR\_POWER\_ON\_INIT Description

Name	DEM_VAR_POWER_ON_INIT
Initializer	

#### 3.8.1.67 Define DEM\_VAR\_FAST

DEM memory and pointer classes.

**Implements:** DBASE04001

Table 3-71. Define DEM\_VAR\_FAST Description

Name	DEM_VAR_FAST
Initializer	

# 3.8.1.68 Define DEM\_VAR

DEM memory and pointer classes.

**Implements:** DBASE04001

Table 3-72. Define DEM\_VAR Description

Name	DEM_VAR
Initializer	

# 3.8.1.69 Define DET\_CODE

DET memory and pointer classes.

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#### **Implements:** DBASE04001

Table 3-73. Define DET\_CODE Description

Name	DET_CODE
Initializer	

### 3.8.1.70 Define DET\_CONST

DET memory and pointer classes.

**Implements:** DBASE04001

Table 3-74. Define DET\_CONST Description

Name	DET_CONST
Initializer	

# 3.8.1.71 Define DET\_APPL\_DATA

DET memory and pointer classes.

**Implements:** DBASE04001

Table 3-75. Define DET\_APPL\_DATA Description

Name	DET_APPL_DATA
Initializer	

# 3.8.1.72 Define DET\_APPL\_CONST

DET memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-76. Define DET\_APPL\_CONST Description

Name	DET_APPL_CONST
Initializer	

## 3.8.1.73 Define DET\_APPL\_CODE

DET memory and pointer classes.

**Implements:** DBASE04001

Table 3-77. Define DET\_APPL\_CODE Description

Name	DET_APPL_CODE
Initializer	

#### 3.8.1.74 Define DET\_CALLOUT\_CODE

DET memory and pointer classes.

**Implements:** DBASE04001

# Table 3-78. Define DET\_CALLOUT\_CODE Description

Name	DET_CALLOUT_CODE
Initializer	

# 3.8.1.75 Define DET\_VAR\_NOINIT

DET memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-79. Define DET\_VAR\_NOINIT Description

Name	DET_VAR_NOINIT
Initializer	

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#### 3.8.1.76 Define DET\_VAR\_POWER\_ON\_INIT

DET memory and pointer classes.

**Implements:** DBASE04001

Table 3-80. Define DET\_VAR\_POWER\_ON\_INIT Description

Name	DET_VAR_POWER_ON_INIT
Initializer	

#### 3.8.1.77 Define DET\_VAR\_FAST

DET memory and pointer classes.

**Implements: DBASE04001** 

Table 3-81. Define DET\_VAR\_FAST Description

Name	DET_VAR_FAST
Initializer	

### 3.8.1.78 Define DET\_VAR

DET memory and pointer classes.

**Implements:** DBASE04001

# Table 3-82. Define DET\_VAR Description

Name	DET_VAR
Initializer	

# 3.8.1.79 Define DIO\_CODE

DIO memory and pointer classes.

**Implements:** DBASE04001

Table 3-83. Define DIO\_CODE Description

Name	DIO_CODE
Initializer	

#### 3.8.1.80 Define DIO\_CONST

DIO memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-84. Define DIO\_CONST Description

Name	DIO_CONST
Initializer	

# 3.8.1.81 Define DIO\_APPL\_DATA

DIO memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-85. Define DIO\_APPL\_DATA Description

Name	DIO_APPL_DATA
Initializer	

# 3.8.1.82 Define DIO\_APPL\_CONST

DIO memory and pointer classes.

#### **Implements:** DBASE04001

Table 3-86. Define DIO\_APPL\_CONST Description

Name	DIO_APPL_CONST
Initializer	

### 3.8.1.83 Define DIO\_APPL\_CODE

DIO memory and pointer classes.

**Implements:** DBASE04001

Table 3-87. Define DIO\_APPL\_CODE Description

Name	DIO_APPL_CODE
Initializer	

# 3.8.1.84 Define DIO\_CALLOUT\_CODE

DIO memory and pointer classes.

**Implements:** DBASE04001

## Table 3-88. Define DIO\_CALLOUT\_CODE Description

Name	DIO_CALLOUT_CODE
Initializer	

# 3.8.1.85 Define DIO\_VAR\_NOINIT

DIO memory and pointer classes.

**Implements:** DBASE04001

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#### Table 3-89. Define DIO\_VAR\_NOINIT Description

Name	DIO_VAR_NOINIT
Initializer	

## 3.8.1.86 Define DIO\_VAR\_POWER\_ON\_INIT

DIO memory and pointer classes.

# **Implements:** DBASE04001

#### Table 3-90. Define DIO\_VAR\_POWER\_ON\_INIT Description

Name	DIO_VAR_POWER_ON_INIT
Initializer	

#### 3.8.1.87 Define DIO\_VAR\_FAST

DIO memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-91. Define DIO\_VAR\_FAST Description

Name	DIO_VAR_FAST
Initializer	

# 3.8.1.88 Define DIO\_VAR

DIO memory and pointer classes.

**Implements:** DBASE04001

# Table 3-92. Define DIO\_VAR Description

Name	DIO_VAR
Initializer	

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# 3.8.1.89 Define ETH\_CODE

ETH memory and pointer classes.

**Implements:** DBASE04001

Table 3-93. Define ETH\_CODE Description

Name	ETH_CODE
Initializer	

#### 3.8.1.90 Define ETH\_CONST

ETH memory and pointer classes.

**Implements: DBASE04001** 

Table 3-94. Define ETH\_CONST Description

Name	ETH_CONST
Initializer	

### 3.8.1.91 Define ETH\_APPL\_DATA

ETH memory and pointer classes.

**Implements:** DBASE04001

Table 3-95. Define ETH\_APPL\_DATA Description

Name	ETH_APPL_DATA
Initializer	

# 3.8.1.92 Define ETH\_APPL\_CONST

ETH memory and pointer classes.

**Implements:** DBASE04001

Table 3-96. Define ETH\_APPL\_CONST Description

Name	ETH_APPL_CONST
Initializer	

#### 3.8.1.93 Define ETH\_APPL\_CODE

ETH memory and pointer classes.

**Implements:** DBASE04001

Table 3-97. Define ETH\_APPL\_CODE Description

Name	ETH_APPL_CODE
Initializer	

# 3.8.1.94 Define ETH\_CALLOUT\_CODE

ETH memory and pointer classes.

**Implements:** DBASE04001

 Table 3-98.
 Define ETH\_CALLOUT\_CODE Description

Name	ETH_CALLOUT_CODE
Initializer	

# 3.8.1.95 Define ETH\_VAR\_NOINIT

ETH memory and pointer classes.

#### **Implements:** DBASE04001

Table 3-99. Define ETH\_VAR\_NOINIT Description

Name	ETH_VAR_NOINIT
Initializer	

### 3.8.1.96 Define ETH\_VAR\_POWER\_ON\_INIT

ETH memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-100. Define ETH\_VAR\_POWER\_ON\_INIT Description

Name	ETH_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.97 Define ETH\_VAR\_FAST

ETH memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-101. Define ETH\_VAR\_FAST Description

Name	ETH_VAR_FAST
Initializer	

# 3.8.1.98 Define ETH\_VAR

ETH memory and pointer classes.

**Implements:** DBASE04001

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#### Table 3-102. Define ETH\_VAR Description

Name	ETH_VAR
Initializer	

# 3.8.1.99 Define ETH AR RELEASE MAJOR VERSION ETHGENERALTYPES

**Violates:** MISRA rule 1.4

Table 3-103. Define ETH\_AR\_RELEASE\_MAJOR\_VERSION\_ETHGENERALTYPES Description

Name	ETH_AR_RELEASE_MAJOR_VERSION_ETHGENERALTYPES
Initializer	4

# 3.8.1.100 Define ETH\_AR\_RELEASE\_MINOR\_VERSION\_ETHGENERALTYPES

**Violates:** MISRA rule 1.4

# Table 3-104. Define ETH\_AR\_RELEASE\_MINOR\_VERSION\_ETHGENERALTYPES Description

Name	ETH_AR_RELEASE_MINOR_VERSION_ETHGENERALTYPES
Initializer	0

# 3.8.1.101 Define ETH\_AR\_RELEASE\_REVISION\_VERSION\_ETHGENERALTYPES

**Violates:** MISRA rule 1.4

# Table 3-105. Define ETH\_AR\_RELEASE\_REVISION\_VERSION\_ETHGENERALTYPES Description

Name	ETH_AR_RELEASE_REVISION_VERSION_ETHGENERALTYPES
Initializer	3

## 3.8.1.102 Define ETH\_MODULE\_ID\_ETHGENERALTYPES

# Table 3-106. Define ETH\_MODULE\_ID\_ETHGENERALTYPES Description

Name	ETH_MODULE_ID_ETHGENERALTYPES
Initializer	0

# 3.8.1.103 Define ETH\_SW\_MAJOR\_VERSION\_ETHGENERALTYPES

**Violates:** MISRA rule 1.4

Table 3-107. Define ETH\_SW\_MAJOR\_VERSION\_ETHGENERALTYPES Description

Name	ETH_SW_MAJOR_VERSION_ETHGENERALTYPES
Initializer	0

# 3.8.1.104 Define ETH\_SW\_MINOR\_VERSION\_ETHGENERALTYPES

Violates: MISRA rule 1.4

Table 3-108. Define ETH\_SW\_MINOR\_VERSION\_ETHGENERALTYPES Description

Name	ETH_SW_MINOR_VERSION_ETHGENERALTYPES
Initializer	9

# 3.8.1.105 Define ETH\_SW\_PATCH\_VERSION\_ETHGENERALTYPES

**Violates:** MISRA rule 1.4

Table 3-109. Define ETH\_SW\_PATCH\_VERSION\_ETHGENERALTYPES
Description

Name	ETH_SW_PATCH_VERSION_ETHGENERALTYPES
Initializer	1

# 3.8.1.106 Define ETH\_VENDOR\_ID\_ETHGENERALTYPES Table 3-110. Define ETH\_VENDOR\_ID\_ETHGENERALTYPES

#### Description

Name	ETH_VENDOR_ID_ETHGENERALTYPES
Initializer	43

# 3.8.1.107 Define FEE\_CODE

FEE memory and pointer classes.

**Implements:** DBASE04001

# Table 3-111. Define FEE\_CODE Description

Name	FEE_CODE
Initializer	

# 3.8.1.108 Define FEE\_CONST

FEE memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-112. Define FEE\_CONST Description

Name	FEE_CONST
Initializer	

#### 3.8.1.109 Define FEE\_APPL\_DATA

FEE memory and pointer classes.

# **Implements:** DBASE04001

Table 3-113. Define FEE\_APPL\_DATA Description

Name	FEE_APPL_DATA
Initializer	

## 3.8.1.110 Define FEE\_APPL\_CONST

FEE memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-114. Define FEE\_APPL\_CONST Description

Name	FEE_APPL_CONST
Initializer	

# 3.8.1.111 Define FEE\_APPL\_CODE

FEE memory and pointer classes.

**Implements:** DBASE04001

# Table 3-115. Define FEE\_APPL\_CODE Description

Name	FEE_APPL_CODE
Initializer	

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## 3.8.1.112 Define FEE\_CALLOUT\_CODE

FEE memory and pointer classes.

**Implements:** DBASE04001

Table 3-116. Define FEE\_CALLOUT\_CODE Description

Name	FEE_CALLOUT_CODE
Initializer	

# 3.8.1.113 Define FEE\_VAR\_NOINIT

FEE memory and pointer classes.

**Implements: DBASE04001** 

Table 3-117. Define FEE\_VAR\_NOINIT Description

Name	FEE_VAR_NOINIT
Initializer	

### 3.8.1.114 Define FEE\_VAR\_POWER\_ON\_INIT

FEE memory and pointer classes.

**Implements:** DBASE04001

Table 3-118. Define FEE\_VAR\_POWER\_ON\_INIT Description

Name	FEE_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.115 Define FEE\_VAR\_FAST

FEE memory and pointer classes.

**Implements:** DBASE04001

Table 3-119. Define FEE\_VAR\_FAST Description

Name	FEE_VAR_FAST
Initializer	

#### 3.8.1.116 **Define FEE\_VAR**

FEE memory and pointer classes.

**Implements:** DBASE04001

Table 3-120. Define FEE\_VAR Description

Name	FEE_VAR
Initializer	

# 3.8.1.117 Define FLS\_CODE

FLS memory and pointer classes.

**Implements:** DBASE04001

 Table 3-121.
 Define FLS\_CODE Description

Name	FLS_CODE
Initializer	

# 3.8.1.118 Define FLS\_CONST

FLS memory and pointer classes.

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#### **Implements: DBASE04001**

#### Table 3-122. Define FLS\_CONST Description

Name	FLS_CONST
Initializer	

### 3.8.1.119 Define FLS\_APPL\_DATA

FLS memory and pointer classes.

**Implements:** DBASE04001

Table 3-123. Define FLS\_APPL\_DATA Description

Name	FLS_APPL_DATA
Initializer	

# 3.8.1.120 Define FLS\_APPL\_CONST

FLS memory and pointer classes.

**Implements: DBASE04001** 

Table 3-124. Define FLS\_APPL\_CONST Description

Name	FLS_APPL_CONST
Initializer	

## 3.8.1.121 Define FLS\_APPL\_CODE

FLS memory and pointer classes.

**Implements:** DBASE04001

# Table 3-125. Define FLS\_APPL\_CODE Description

Name	FLS_APPL_CODE
Initializer	

# 3.8.1.122 Define FLS\_CALLOUT\_CODE

FLS memory and pointer classes.

**Implements:** DBASE04001

# Table 3-126. Define FLS\_CALLOUT\_CODE Description

Name	FLS_CALLOUT_CODE
Initializer	

## 3.8.1.123 Define FLS\_VAR\_NOINIT

FLS memory and pointer classes.

**Implements:** DBASE04001

# Table 3-127. Define FLS\_VAR\_NOINIT Description

Name	FLS_VAR_NOINIT
Initializer	

# 3.8.1.124 Define FLS\_VAR\_POWER\_ON\_INIT

FLS memory and pointer classes.

**Implements:** DBASE04001

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# Table 3-128. Define FLS\_VAR\_POWER\_ON\_INIT Description

Name	FLS_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.125 Define FLS\_VAR\_FAST

FLS memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-129. Define FLS\_VAR\_FAST Description

Name	FLS_VAR_FAST
Initializer	

# 3.8.1.126 **Define FLS\_VAR**

FLS memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-130. Define FLS\_VAR Description

Name	FLS_VAR
Initializer	

#### 3.8.1.127 Define FR\_APPL\_CODE

FlexRay memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-131. Define FR\_APPL\_CODE Description

Name	FR_APPL_CODE
Initializer	

#### 3.8.1.128 Define FR\_APPL\_CONST

FlexRay memory and pointer classes.

# **Implements:** DBASE04001

Table 3-132. Define FR\_APPL\_CONST Description

Name	FR_APPL_CONST
Initializer	

## 3.8.1.129 Define FR\_APPL\_DATA

FlexRay memory and pointer classes.

#### **Implements:** DBASE04001

#### Table 3-133. Define FR\_APPL\_DATA Description

Name	FR_APPL_DATA
Initializer	

# 3.8.1.130 Define FR\_CALLOUT\_CODE

FlexRay memory and pointer classes.

## **Implements:** DBASE04001

Table 3-134. Define FR\_CALLOUT\_CODE Description

Name	FR_CALLOUT_CODE
Initializer	

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# 3.8.1.131 Define FR\_CIDX\_GCOLDSTARTATTEMPTS

#### Table 3-135. Define FR\_CIDX\_GCOLDSTARTATTEMPTS Description

Name	FR_CIDX_GCOLDSTARTATTEMPTS
Initializer	17U

#### 3.8.1.132 Define FR CIDX GCYCLECOUNTMAX

#### Table 3-136. Define FR\_CIDX\_GCYCLECOUNTMAX Description

Name	FR_CIDX_GCYCLECOUNTMAX
Initializer	18U

#### 3.8.1.133 Define FR CIDX GDACTIONPOINTOFFSET

#### Table 3-137. Define FR\_CIDX\_GDACTIONPOINTOFFSET Description

Name	FR_CIDX_GDACTIONPOINTOFFSET
Initializer	25U

#### 3.8.1.134 Define FR CIDX GDBIT

#### Table 3-138. Define FR\_CIDX\_GDBIT Description

Name	FR_CIDX_GDBIT
Initializer	26U

#### 3.8.1.135 Define FR\_CIDX\_GDCASRXLOWMAX

# Table 3-139. Define FR\_CIDX\_GDCASRXLOWMAX Description

Name	FR_CIDX_GDCASRXLOWMAX
Initializer	27U

#### 3.8.1.136 Define FR CIDX GDCYCLE

Macros which can be passed into Fr\_ReadCCConfig as parameter Fr\_ConfigParamIdx.

#### **Details:**

Each macro (index) uniquely identifies a configuration parameter which value can be read out of the controllers configuration using Fr\_ReadCCConfig.

Covers FR657

**Implements: DFR32010** 

Table 3-140. Define FR\_CIDX\_GDCYCLE Description

Name	FR_CIDX_GDCYCLE
Initializer	0U

#### 3.8.1.137 Define FR\_CIDX\_GDDYNAMICSLOTIDLEPHASE

# Table 3-141. Define FR\_CIDX\_GDDYNAMICSLOTIDLEPHASE Description

Name	FR_CIDX_GDDYNAMICSLOTIDLEPHASE
Initializer	28U

## 3.8.1.138 Define FR\_CIDX\_GDIGNOREAFTERTX

#### Table 3-142. Define FR\_CIDX\_GDIGNOREAFTERTX Description

Name	FR_CIDX_GDIGNOREAFTERTX
Initializer	54U

## 3.8.1.139 Define FR CIDX GDMACROTICK

#### Table 3-143. Define FR\_CIDX\_GDMACROTICK Description

Name	FR_CIDX_GDMACROTICK
Initializer	4U

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#### 3.8.1.140 Define FR CIDX GDMINISLOT

#### Table 3-144. Define FR\_CIDX\_GDMINISLOT Description

Name	FR_CIDX_GDMINISLOT
Initializer	30U

#### 3.8.1.141 Define FR\_CIDX\_GDMINISLOTACTIONPOINTOFFSET

# Table 3-145. Define FR\_CIDX\_GDMINISLOTACTIONPOINTOFFSET Description

Name	FR_CIDX_GDMINISLOTACTIONPOINTOFFSET
Initializer	29U

#### 3.8.1.142 Define FR CIDX GDNIT

#### Table 3-146. Define FR CIDX GDNIT Description

Name	FR_CIDX_GDNIT
Initializer	7U

### 3.8.1.143 Define FR\_CIDX\_GDSAMPLECLOCKPERIOD

# Table 3-147. Define FR\_CIDX\_GDSAMPLECLOCKPERIOD Description

Name	FR_CIDX_GDSAMPLECLOCKPERIOD
Initializer	31U

#### 3.8.1.144 Define FR\_CIDX\_GDSTATICSLOT

## Table 3-148. Define FR\_CIDX\_GDSTATICSLOT Description

Name	FR_CIDX_GDSTATICSLOT
Initializer	8U

#### 3.8.1.145 Define FR CIDX GDSYMBOLWINDOW

# Table 3-149. Define FR\_CIDX\_GDSYMBOLWINDOW Description

Name	FR_CIDX_GDSYMBOLWINDOW
Initializer	32U

#### 3.8.1.146 Define

#### FR CIDX GDSYMBOLWINDOWACTIONPOINTOFFSET

# Table 3-150. Define FR\_CIDX\_GDSYMBOLWINDOWACTIONPOINTOFFSET Description

Name	FR_CIDX_GDSYMBOLWINDOWACTIONPOINTOFFSET
Initializer	33U

### 3.8.1.147 Define FR CIDX GDTSSTRANSMITTER

#### Table 3-151. Define FR CIDX GDTSSTRANSMITTER Description

Name	FR_CIDX_GDTSSTRANSMITTER
Initializer	34U

## 3.8.1.148 Define FR\_CIDX\_GDWAKEUPRXIDLE

# Table 3-152. Define FR\_CIDX\_GDWAKEUPRXIDLE Description

Name	FR_CIDX_GDWAKEUPRXIDLE
Initializer	35U

#### 3.8.1.149 Define FR\_CIDX\_GDWAKEUPRXLOW

# Table 3-153. Define FR\_CIDX\_GDWAKEUPRXLOW Description

Name	FR_CIDX_GDWAKEUPRXLOW
Initializer	36U

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## 3.8.1.150 Define FR\_CIDX\_GDWAKEUPRXWINDOW

# Table 3-154. Define FR\_CIDX\_GDWAKEUPRXWINDOW Description

Name	FR_CIDX_GDWAKEUPRXWINDOW
Initializer	9U

#### 3.8.1.151 Define FR\_CIDX\_GDWAKEUPTXACTIVE

#### Table 3-155. Define FR\_CIDX\_GDWAKEUPTXACTIVE Description

Name	FR_CIDX_GDWAKEUPTXACTIVE
Initializer	37U

#### 3.8.1.152 Define FR CIDX GDWAKEUPTXIDLE

#### Table 3-156. Define FR\_CIDX\_GDWAKEUPTXIDLE Description

Name	FR_CIDX_GDWAKEUPTXIDLE
Initializer	38U

## 3.8.1.153 Define FR\_CIDX\_GLISTENNOISE

## Table 3-157. Define FR\_CIDX\_GLISTENNOISE Description

Name	FR_CIDX_GLISTENNOISE
Initializer	19U

# 3.8.1.154 Define FR\_CIDX\_GMACROPERCYCLE

# Table 3-158. Define FR\_CIDX\_GMACROPERCYCLE Description

Name	FR_CIDX_GMACROPERCYCLE
Initializer	3U

#### 3.8.1.155 Define FR\_CIDX\_GMAXWITHOUTCLOCKCORRECTFATAL

# Table 3-159. Define FR\_CIDX\_GMAXWITHOUTCLOCKCORRECTFATAL Description

Name	FR_CIDX_GMAXWITHOUTCLOCKCORRECTFATAL
Initializer	20U

#### 3.8.1.156 Define

#### FR CIDX GMAXWITHOUTCLOCKCORRECTPASSIVE

# Table 3-160. Define FR\_CIDX\_GMAXWITHOUTCLOCKCORRECTPASSIVE Description

Name	FR_CIDX_GMAXWITHOUTCLOCKCORRECTPASSIVE
Initializer	21U

#### 3.8.1.157 Define

#### FR CIDX GNETWORKMANAGEMENTVECTORLENGTH

# Table 3-161. Define FR\_CIDX\_GNETWORKMANAGEMENTVECTORLENGTH Description

Name	FR_CIDX_GNETWORKMANAGEMENTVECTORLENGTH
Initializer	22U

## 3.8.1.158 Define FR\_CIDX\_GNUMBEROFMINISLOTS

# Table 3-162. Define FR\_CIDX\_GNUMBEROFMINISLOTS Description

Name	FR_CIDX_GNUMBEROFMINISLOTS
Initializer	5U

#### 3.8.1.159 Define FR CIDX GNUMBEROFSTATICSLOTS

# Table 3-163. Define FR\_CIDX\_GNUMBEROFSTATICSLOTS Description

Name	FR_CIDX_GNUMBEROFSTATICSLOTS
Initializer	6U

#### 3.8.1.160 Define FR CIDX GPAYLOADLENGTHSTATIC

# Table 3-164. Define FR\_CIDX\_GPAYLOADLENGTHSTATIC Description

Name	FR_CIDX_GPAYLOADLENGTHSTATIC
Initializer	23U

#### 3.8.1.161 Define FR CIDX GSYNCFRAMEIDCOUNTMAX

# Table 3-165. Define FR\_CIDX\_GSYNCFRAMEIDCOUNTMAX Description

Name	FR_CIDX_GSYNCFRAMEIDCOUNTMAX
Initializer	24U

### 3.8.1.162 Define FR\_CIDX\_PALLOWHALTDUETOCLOCK

# Table 3-166. Define FR\_CIDX\_PALLOWHALTDUETOCLOCK Description

Name	FR_CIDX_PALLOWHALTDUETOCLOCK
Initializer	55U

#### 3.8.1.163 Define FR\_CIDX\_PALLOWPASSIVETOACTIVE

# Table 3-167. Define FR\_CIDX\_PALLOWPASSIVETOACTIVE Description

Name	FR_CIDX_PALLOWPASSIVETOACTIVE
Initializer	39U

#### 3.8.1.164 Define FR CIDX PCHANNELS

#### Table 3-168. Define FR\_CIDX\_PCHANNELS Description

Name	FR_CIDX_PCHANNELS
Initializer	40U

### 3.8.1.165 Define FR\_CIDX\_PCLUSTERDRIFTDAMPING

# Table 3-169. Define FR\_CIDX\_PCLUSTERDRIFTDAMPING Description

Name	FR_CIDX_PCLUSTERDRIFTDAMPING
Initializer	41U

#### 3.8.1.166 Define FR CIDX PDACCEPTEDSTARTUPRANGE

# Table 3-170. Define FR\_CIDX\_PDACCEPTEDSTARTUPRANGE Description

Name	FR_CIDX_PDACCEPTEDSTARTUPRANGE
Initializer	16U

## 3.8.1.167 Define FR\_CIDX\_PDECODINGCORRECTION

#### Table 3-171. Define FR\_CIDX\_PDECODINGCORRECTION Description

Name	FR_CIDX_PDECODINGCORRECTION
Initializer	42U

#### 3.8.1.168 Define FR\_CIDX\_PDELAYCOMPENSATIONA

# Table 3-172. Define FR\_CIDX\_PDELAYCOMPENSATIONA Description

Name	FR_CIDX_PDELAYCOMPENSATIONA
Initializer	43U

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#### 3.8.1.169 Define FR CIDX PDELAYCOMPENSATIONB

# Table 3-173. Define FR\_CIDX\_PDELAYCOMPENSATIONB Description

Name	FR_CIDX_PDELAYCOMPENSATIONB
Initializer	44U

#### 3.8.1.170 Define FR CIDX PDLISTENTIMEOUT

## Table 3-174. Define FR\_CIDX\_PDLISTENTIMEOUT Description

Name	FR_CIDX_PDLISTENTIMEOUT
Initializer	2U

## 3.8.1.171 Define FR\_CIDX\_PDMICROTICK

#### Table 3-175. Define FR CIDX PDMICROTICK Description

Name	FR_CIDX_PDMICROTICK
Initializer	53U

### 3.8.1.172 Define FR\_CIDX\_PEXTERNALSYNC

# Table 3-176. Define FR\_CIDX\_PEXTERNALSYNC Description

Name	FR_CIDX_PEXTERNALSYNC
Initializer	56U

# 3.8.1.173 Define FR\_CIDX\_PFALLBACKINTERNAL

# Table 3-177. Define FR\_CIDX\_PFALLBACKINTERNAL Description

Name	FR_CIDX_PFALLBACKINTERNAL
Initializer	57U

#### 3.8.1.174 Define FR CIDX PKEYSLOTID

#### Table 3-178. Define FR\_CIDX\_PKEYSLOTID Description

Name	FR_CIDX_PKEYSLOTID
Initializer	10U

#### 3.8.1.175 Define FR\_CIDX\_PKEYSLOTONLYENABLED

# Table 3-179. Define FR\_CIDX\_PKEYSLOTONLYENABLED Description

Name	FR_CIDX_PKEYSLOTONLYENABLED
Initializer	58U

#### 3.8.1.176 Define FR CIDX PKEYSLOTUSEDFORSTARTUP

# Table 3-180. Define FR\_CIDX\_PKEYSLOTUSEDFORSTARTUP Description

Name	FR_CIDX_PKEYSLOTUSEDFORSTARTUP
Initializer	59U

## 3.8.1.177 Define FR\_CIDX\_PKEYSLOTUSEDFORSYNC

# Table 3-181. Define FR\_CIDX\_PKEYSLOTUSEDFORSYNC Description

Name	FR_CIDX_PKEYSLOTUSEDFORSYNC
Initializer	60U

## 3.8.1.178 Define FR\_CIDX\_PLATESTTX

#### Table 3-182. Define FR\_CIDX\_PLATESTTX Description

Name	FR_CIDX_PLATESTTX
Initializer	11U

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#### 3.8.1.179 Define FR CIDX PMACROINITIALOFFSETA

# Table 3-183. Define FR\_CIDX\_PMACROINITIALOFFSETA Description

Name	FR_CIDX_PMACROINITIALOFFSETA
Initializer	45U

#### 3.8.1.180 Define FR\_CIDX\_PMACROINITIALOFFSETB

# Table 3-184. Define FR\_CIDX\_PMACROINITIALOFFSETB Description

Name	FR_CIDX_PMACROINITIALOFFSETB
Initializer	46U

#### 3.8.1.181 Define FR\_CIDX\_PMICROINITIALOFFSETA

# Table 3-185. Define FR\_CIDX\_PMICROINITIALOFFSETA Description

Name	FR_CIDX_PMICROINITIALOFFSETA
Initializer	47U

#### 3.8.1.182 Define FR\_CIDX\_PMICROINITIALOFFSETB

# Table 3-186. Define FR\_CIDX\_PMICROINITIALOFFSETB Description

Name	FR_CIDX_PMICROINITIALOFFSETB
Initializer	48U

#### 3.8.1.183 Define FR CIDX PMICROPERCYCLE

# Table 3-187. Define FR\_CIDX\_PMICROPERCYCLE Description

Name	FR_CIDX_PMICROPERCYCLE
Initializer	1U

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## 3.8.1.184 Define FR\_CIDX\_PNMVECTOREARLYUPDATE

# Table 3-188. Define FR\_CIDX\_PNMVECTOREARLYUPDATE Description

Name	FR_CIDX_PNMVECTOREARLYUPDATE
Initializer	61U

#### 3.8.1.185 Define FR CIDX POFFSETCORRECTIONOUT

# Table 3-189. Define FR\_CIDX\_POFFSETCORRECTIONOUT Description

Name	FR_CIDX_POFFSETCORRECTIONOUT
Initializer	12U

#### 3.8.1.186 Define FR CIDX POFFSETCORRECTIONSTART

# Table 3-190. Define FR\_CIDX\_POFFSETCORRECTIONSTART Description

Name	FR_CIDX_POFFSETCORRECTIONSTART
Initializer	13U

## 3.8.1.187 Define FR\_CIDX\_PPAYLOADLENGTHDYNMAX

# Table 3-191. Define FR\_CIDX\_PPAYLOADLENGTHDYNMAX Description

Name	FR_CIDX_PPAYLOADLENGTHDYNMAX
Initializer	49U

## 3.8.1.188 Define FR CIDX PRATECORRECTIONOUT

#### Table 3-192. Define FR\_CIDX\_PRATECORRECTIONOUT Description

Name	FR_CIDX_PRATECORRECTIONOUT
Initializer	14U

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#### 3.8.1.189 Define FR CIDX PSAMPLESPERMICROTICK

# Table 3-193. Define FR\_CIDX\_PSAMPLESPERMICROTICK Description

Name	FR_CIDX_PSAMPLESPERMICROTICK
Initializer	50U

#### 3.8.1.190 Define FR CIDX PSECONDKEYSLOTID

# Table 3-194. Define FR\_CIDX\_PSECONDKEYSLOTID Description

Name	FR_CIDX_PSECONDKEYSLOTID
Initializer	15U

## 3.8.1.191 Define FR\_CIDX\_PTWOKEYSLOTMODE

# Table 3-195. Define FR\_CIDX\_PTWOKEYSLOTMODE Description

Name	FR_CIDX_PTWOKEYSLOTMODE
Initializer	62U

## 3.8.1.192 Define FR\_CIDX\_PWAKEUPCHANNEL

# Table 3-196. Define FR\_CIDX\_PWAKEUPCHANNEL Description

Name	FR_CIDX_PWAKEUPCHANNEL
Initializer	51U

#### 3.8.1.193 Define FR\_CIDX\_PWAKEUPPATTERN

# Table 3-197. Define FR\_CIDX\_PWAKEUPPATTERN Description

Name	FR_CIDX_PWAKEUPPATTERN
Initializer	52U

## 3.8.1.194 **Define FR\_CODE**

FlexRay memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-198. Define FR\_CODE Description

Name	FR_CODE
Initializer	

#### 3.8.1.195 Define FR CONST

FlexRay memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-199. Define FR\_CONST Description

Name	FR_CONST
Initializer	

### 3.8.1.196 Define FR\_SLOTMODE\_SINGLE

This macro is used for backward compatibility with Autosar 3.0 definition of Fr\_SlotModeType Covers FR599.

**Implements:** DFR32011

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# Table 3-200. Define FR\_SLOTMODE\_SINGLE Description

Name	FR_SLOTMODE_SINGLE
Initializer	FR_SLOTMODE_KEYSLOT

## 

FlexRay memory and pointer classes.

### **Implements:** DBASE04001

#### Table 3-201. Define FR\_VAR Description

Name	FR_VAR
Initializer	

## 3.8.1.198 Define FR\_VAR\_FAST

FlexRay memory and pointer classes.

## **Implements:** DBASE04001

#### Table 3-202. Define FR\_VAR\_FAST Description

Name	FR_VAR_FAST
Initializer	

### 3.8.1.199 Define FR\_VAR\_NOINIT

FlexRay memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-203. Define FR\_VAR\_NOINIT Description

Name	FR_VAR_NOINIT
Initializer	

## 3.8.1.200 Define FR\_VAR\_POWER\_ON\_INIT

FlexRay memory and pointer classes.

### **Implements:** DBASE04001

#### Table 3-204. Define FR\_VAR\_POWER\_ON\_INIT Description

Name	FR_VAR_POWER_ON_INIT
Initializer	

### 3.8.1.201 Define GPT\_CODE

GPT memory and pointer classes.

#### **Implements:** DBASE04001

## Table 3-205. Define GPT\_CODE Description

Name	GPT_CODE
Initializer	

# 3.8.1.202 Define GPT\_CONST

GPT memory and pointer classes.

**Implements:** DBASE04001

### Table 3-206. Define GPT\_CONST Description

Name	GPT_CONST
Initializer	

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## 3.8.1.203 Define GPT\_APPL\_DATA

GPT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-207. Define GPT\_APPL\_DATA Description

Name	GPT_APPL_DATA
Initializer	

### 3.8.1.204 Define GPT\_APPL\_CONST

GPT memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-208. Define GPT\_APPL\_CONST Description

Name	GPT_APPL_CONST
Initializer	

## 3.8.1.205 Define GPT\_APPL\_CODE

GPT memory and pointer classes.

**Implements:** DBASE04001

## Table 3-209. Define GPT\_APPL\_CODE Description

Name	GPT_APPL_CODE
Initializer	

## 3.8.1.206 Define GPT\_CALLOUT\_CODE

GPT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-210. Define GPT\_CALLOUT\_CODE Description

Name	GPT_CALLOUT_CODE
Initializer	

## 3.8.1.207 Define GPT\_VAR\_NOINIT

GPT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-211. Define GPT\_VAR\_NOINIT Description

Name	GPT_VAR_NOINIT
Initializer	

## 3.8.1.208 Define GPT\_VAR\_POWER\_ON\_INIT

GPT memory and pointer classes.

**Implements:** DBASE04001

## Table 3-212. Define GPT\_VAR\_POWER\_ON\_INIT Description

Name	GPT_VAR_POWER_ON_INIT
Initializer	

## 3.8.1.209 Define GPT VAR FAST

GPT memory and pointer classes.

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#### **Implements: DBASE04001**

#### Table 3-213. Define GPT\_VAR\_FAST Description

Name	GPT_VAR_FAST
Initializer	

## 3.8.1.210 Define GPT\_VAR

GPT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-214. Define GPT\_VAR Description

Name	GPT_VAR
Initializer	

## 3.8.1.211 **Define ICU\_CODE**

ICU memory and pointer classes.

**Implements:** DBASE04001

## Table 3-215. Define ICU\_CODE Description

Name	ICU_CODE
Initializer	

## 3.8.1.212 Define ICU\_CONST

ICU memory and pointer classes.

**Implements:** DBASE04001

### Table 3-216. Define ICU\_CONST Description

Name	ICU_CONST
Initializer	

#### 3.8.1.213 Define ICU APPL DATA

ICU memory and pointer classes.

**Implements:** DBASE04001

### Table 3-217. Define ICU\_APPL\_DATA Description

Name	ICU_APPL_DATA
Initializer	

### 3.8.1.214 Define ICU\_APPL\_CONST

ICU memory and pointer classes.

**Implements:** DBASE04001

### Table 3-218. Define ICU\_APPL\_CONST Description

Name	ICU_APPL_CONST
Initializer	

## 3.8.1.215 Define ICU\_APPL\_CODE

ICU memory and pointer classes.

**Implements:** DBASE04001

## Table 3-219. Define ICU\_APPL\_CODE Description

Name	ICU_APPL_CODE
Initializer	

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# 3.8.1.216 Define ICU\_CALLOUT\_CODE

ICU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-220. Define ICU\_CALLOUT\_CODE Description

Name	ICU_CALLOUT_CODE
Initializer	

### 3.8.1.217 Define ICU\_VAR\_NOINIT

ICU memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-221. Define ICU\_VAR\_NOINIT Description

Name	ICU_VAR_NOINIT
Initializer	

## 3.8.1.218 Define ICU\_VAR\_POWER\_ON\_INIT

ICU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-222. Define ICU\_VAR\_POWER\_ON\_INIT Description

Name	ICU_VAR_POWER_ON_INIT
Initializer	

## 3.8.1.219 Define ICU\_VAR\_FAST

ICU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-223. Define ICU\_VAR\_FAST Description

Name	ICU_VAR_FAST
Initializer	

## 3.8.1.220 Define ICU\_VAR

ICU memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-224. Define ICU\_VAR Description

Name	ICU_VAR
Initializer	

## 3.8.1.221 Define LIN\_CODE

LIN memory and pointer classes.

**Implements:** DBASE04001

## Table 3-225. Define LIN\_CODE Description

Name	LIN_CODE
Initializer	

## 3.8.1.222 Define LIN\_CONST

LIN memory and pointer classes.

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#### **Implements: DBASE04001**

#### Table 3-226. Define LIN\_CONST Description

Name	LIN_CONST
Initializer	

## 3.8.1.223 Define LIN\_APPL\_DATA

LIN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-227. Define LIN\_APPL\_DATA Description

Name	LIN_APPL_DATA
Initializer	

## 3.8.1.224 Define LIN\_APPL\_CONST

LIN memory and pointer classes.

**Implements:** DBASE04001

## Table 3-228. Define LIN\_APPL\_CONST Description

Name	LIN_APPL_CONST
Initializer	

## 3.8.1.225 Define LIN\_APPL\_CODE

LIN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-229. Define LIN\_APPL\_CODE Description

Name	LIN_APPL_CODE
Initializer	

## 3.8.1.226 Define LIN\_CALLOUT\_CODE

LIN memory and pointer classes.

**Implements:** DBASE04001

### Table 3-230. Define LIN\_CALLOUT\_CODE Description

Name	LIN_CALLOUT_CODE
Initializer	

### 3.8.1.227 Define LIN\_VAR\_NOINIT

LIN memory and pointer classes.

**Implements:** DBASE04001

### Table 3-231. Define LIN\_VAR\_NOINIT Description

Name	LIN_VAR_NOINIT
Initializer	

## 3.8.1.228 Define LIN\_VAR\_POWER\_ON\_INIT

LIN memory and pointer classes.

**Implements:** DBASE04001

### Table 3-232. Define LIN\_VAR\_POWER\_ON\_INIT Description

Name	LIN_VAR_POWER_ON_INIT
Initializer	

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### 3.8.1.229 Define LIN\_VAR\_FAST

LIN memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-233. Define LIN\_VAR\_FAST Description

Name	LIN_VAR_FAST
Initializer	

### 3.8.1.230 Define LIN\_VAR

LIN memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-234. Define LIN\_VAR Description

Name	LIN_VAR
Initializer	

## 3.8.1.231 Define MCEM\_CODE

MCEM memory and pointer classes.

#### **Implements:**

## Table 3-235. Define MCEM\_CODE Description

Name	MCEM_CODE
Initializer	

## 3.8.1.232 Define MCEM\_CONST

MCEM memory and pointer classes.

#### **Implements:**

#### Table 3-236. Define MCEM\_CONST Description

Name	MCEM_CONST
Initializer	

## 3.8.1.233 Define MCEM\_APPL\_DATA

MCEM memory and pointer classes.

#### **Implements:**

#### Table 3-237. Define MCEM\_APPL\_DATA Description

Name	MCEM_APPL_DATA
Initializer	

## 3.8.1.234 Define MCEM\_APPL\_CONST

MCEM memory and pointer classes.

## **Implements:**

## Table 3-238. Define MCEM\_APPL\_CONST Description

Name	MCEM_APPL_CONST
Initializer	

## 3.8.1.235 Define MCEM\_APPL\_CODE

MCEM memory and pointer classes.

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#### **Implements:**

#### Table 3-239. Define MCEM\_APPL\_CODE Description

Name	MCEM_APPL_CODE
Initializer	

## 3.8.1.236 Define MCEM\_CALLOUT\_CODE

MCEM memory and pointer classes.

### **Implements:**

#### Table 3-240. Define MCEM\_CALLOUT\_CODE Description

Name	MCEM_CALLOUT_CODE
Initializer	

# 3.8.1.237 Define MCEM\_VAR\_NOINIT

MCEM memory and pointer classes.

### **Implements:**

#### Table 3-241. Define MCEM\_VAR\_NOINIT Description

Name	MCEM_VAR_NOINIT
Initializer	

## 3.8.1.238 Define MCEM\_VAR\_POWER\_ON\_INIT

MCEM memory and pointer classes.

## **Implements:**

#### Table 3-242. Define MCEM\_VAR\_POWER\_ON\_INIT Description

Name	MCEM_VAR_POWER_ON_INIT
Initializer	

## 3.8.1.239 Define MCEM\_VAR\_FAST

MCEM memory and pointer classes.

## **Implements:**

#### Table 3-243. Define MCEM\_VAR\_FAST Description

Name	MCEM_VAR_FAST
Initializer	

## 3.8.1.240 Define MCEM\_VAR

MCEM memory and pointer classes.

## **Implements:**

## Table 3-244. Define MCEM\_VAR Description

Name	MCEM_VAR
Initializer	

## 3.8.1.241 Define MCL\_CODE

MCL memory and pointer classes.

## **Implements:**

## Table 3-245. Define MCL\_CODE Description

Name	MCL_CODE
Initializer	

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### 3.8.1.242 Define MCL\_CONST

MCL memory and pointer classes.

### **Implements:**

## Table 3-246. Define MCL\_CONST Description

Name	MCL_CONST
Initializer	

### 3.8.1.243 Define MCL\_APPL\_DATA

MCL memory and pointer classes.

#### **Implements:**

#### Table 3-247. Define MCL\_APPL\_DATA Description

Name	MCL_APPL_DATA
Initializer	

## 3.8.1.244 Define MCL\_APPL\_CONST

MCL memory and pointer classes.

#### **Implements:**

### Table 3-248. Define MCL\_APPL\_CONST Description

Name	MCL_APPL_CONST
Initializer	

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## 3.8.1.245 Define MCL\_APPL\_CODE

MCL memory and pointer classes.

### **Implements:**

#### Table 3-249. Define MCL\_APPL\_CODE Description

Name	MCL_APPL_CODE
Initializer	

## 3.8.1.246 Define MCL\_CALLOUT\_CODE

MCL memory and pointer classes.

#### **Implements:**

#### Table 3-250. Define MCL\_CALLOUT\_CODE Description

Name	MCL_CALLOUT_CODE
Initializer	

## 3.8.1.247 Define MCL\_VAR\_NOINIT

MCL memory and pointer classes.

# **Implements:**

### Table 3-251. Define MCL\_VAR\_NOINIT Description

Name	MCL_VAR_NOINIT
Initializer	

## 3.8.1.248 Define MCL\_VAR\_POWER\_ON\_INIT

MCL memory and pointer classes.

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#### **Implements:**

## Table 3-252. Define MCL\_VAR\_POWER\_ON\_INIT Description

Name	MCL_VAR_POWER_ON_INIT
Initializer	

## 3.8.1.249 Define MCL\_VAR\_FAST

MCL memory and pointer classes.

## **Implements:**

#### Table 3-253. Define MCL\_VAR\_FAST Description

Name	MCL_VAR_FAST
Initializer	

## 3.8.1.250 Define MCL\_VAR

MCL memory and pointer classes.

### **Implements:**

#### Table 3-254. Define MCL\_VAR Description

Name	MCL_VAR
Initializer	

## **3.8.1.251 Define MCU\_CODE**

MCU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-255. Define MCU\_CODE Description

Name	MCU_CODE
Initializer	

### 3.8.1.252 Define MCU\_CONST

MCU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-256. Define MCU\_CONST Description

Name	MCU_CONST
Initializer	

## 3.8.1.253 Define MCU\_APPL\_DATA

MCU memory and pointer classes.

**Implements:** DBASE04001

### Table 3-257. Define MCU\_APPL\_DATA Description

Name	MCU_APPL_DATA
Initializer	

## 3.8.1.254 Define MCU\_APPL\_CONST

MCU memory and pointer classes.

**Implements:** DBASE04001

### Table 3-258. Define MCU\_APPL\_CONST Description

Name	MCU_APPL_CONST
Initializer	

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## 3.8.1.255 Define MCU\_APPL\_CODE

MCU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-259. Define MCU\_APPL\_CODE Description

Name	MCU_APPL_CODE
Initializer	

### 3.8.1.256 Define MCU\_CALLOUT\_CODE

MCU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-260. Define MCU\_CALLOUT\_CODE Description

Name	MCU_CALLOUT_CODE
Initializer	

## 3.8.1.257 Define MCU\_VAR\_NOINIT

MCU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-261. Define MCU\_VAR\_NOINIT Description

Name	MCU_VAR_NOINIT
Initializer	

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## 3.8.1.258 Define MCU\_VAR\_POWER\_ON\_INIT

MCU memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-262. Define MCU\_VAR\_POWER\_ON\_INIT Description

Name	MCU_VAR_POWER_ON_INIT
Initializer	

## 3.8.1.259 Define MCU\_VAR\_FAST

MCU memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-263. Define MCU\_VAR\_FAST Description

Name	MCU_VAR_FAST
Initializer	

## 3.8.1.260 **Define MCU\_VAR**

MCU memory and pointer classes.

**Implements:** DBASE04001

## Table 3-264. Define MCU\_VAR Description

Name	MCU_VAR
Initializer	

## 3.8.1.261 Define PORT\_CODE

PORT memory and pointer classes.

#### Software specification

#### **Implements: DBASE04001**

#### Table 3-265. Define PORT\_CODE Description

Name	PORT_CODE
Initializer	

## 3.8.1.262 Define PORT\_CONST

PORT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-266. Define PORT\_CONST Description

Name	PORT_CONST
Initializer	

## 3.8.1.263 Define PORT\_APPL\_DATA

PORT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-267. Define PORT\_APPL\_DATA Description

Name	PORT_APPL_DATA
Initializer	

## 3.8.1.264 Define PORT\_APPL\_CONST

PORT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-268. Define PORT\_APPL\_CONST Description

Name	PORT_APPL_CONST
Initializer	

## 3.8.1.265 Define PORT\_APPL\_CODE

PORT memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-269. Define PORT\_APPL\_CODE Description

Name	PORT_APPL_CODE
Initializer	

# 3.8.1.266 Define PORT\_CALLOUT\_CODE

PORT memory and pointer classes.

**Implements:** DBASE04001

### Table 3-270. Define PORT\_CALLOUT\_CODE Description

Name	PORT_CALLOUT_CODE
Initializer	

## 3.8.1.267 Define PORT\_VAR\_NOINIT

PORT memory and pointer classes.

**Implements:** DBASE04001

### Table 3-271. Define PORT\_VAR\_NOINIT Description

Name	PORT_VAR_NOINIT
Initializer	

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#### 3.8.1.268 Define PORT\_VAR\_POWER\_ON\_INIT

PORT memory and pointer classes.

**Implements: DBASE04001** 

Table 3-272. Define PORT\_VAR\_POWER\_ON\_INIT Description

Name	PORT_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.269 Define PORT\_VAR\_FAST

PORT memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-273. Define PORT\_VAR\_FAST Description

Name	PORT_VAR_FAST
Initializer	

## 3.8.1.270 Define PORT\_VAR

PORT memory and pointer classes.

**Implements: DBASE04001** 

## Table 3-274. Define PORT\_VAR Description

Name	PORT_VAR
Initializer	

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# 3.8.1.271 Define PWM\_CODE

PWM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-275. Define PWM\_CODE Description

Name	PWM_CODE
Initializer	

#### 3.8.1.272 Define PWM\_CONST

PWM memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-276. Define PWM\_CONST Description

Name	PWM_CONST
Initializer	

# 3.8.1.273 Define PWM\_APPL\_DATA

PWM memory and pointer classes.

**Implements:** DBASE04001

### Table 3-277. Define PWM\_APPL\_DATA Description

Name	PWM_APPL_DATA
Initializer	

# 3.8.1.274 Define PWM\_APPL\_CONST

PWM memory and pointer classes.

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#### **Implements: DBASE04001**

#### Table 3-278. Define PWM\_APPL\_CONST Description

Name	PWM_APPL_CONST
Initializer	

### 3.8.1.275 Define PWM\_APPL\_CODE

PWM memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-279. Define PWM\_APPL\_CODE Description

Name	PWM_APPL_CODE
Initializer	

# 3.8.1.276 Define PWM\_CALLOUT\_CODE

PWM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-280. Define PWM\_CALLOUT\_CODE Description

Name	PWM_CALLOUT_CODE
Initializer	

# 3.8.1.277 Define PWM\_VAR\_NOINIT

PWM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-281. Define PWM\_VAR\_NOINIT Description

Name	PWM_VAR_NOINIT
Initializer	

#### 3.8.1.278 Define PWM\_VAR\_POWER\_ON\_INIT

PWM memory and pointer classes.

#### **Implements: DBASE04001**

#### Table 3-282. Define PWM\_VAR\_POWER\_ON\_INIT Description

Name	PWM_VAR_POWER_ON_INIT
Initializer	

#### 3.8.1.279 Define PWM\_VAR\_FAST

PWM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-283. Define PWM\_VAR\_FAST Description

Name	PWM_VAR_FAST
Initializer	

# 3.8.1.280 **Define PWM\_VAR**

PWM memory and pointer classes.

**Implements:** DBASE04001

# Table 3-284. Define PWM\_VAR Description

Name	PWM_VAR
Initializer	

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#### 3.8.1.281 Define RAMTST\_CODE

RamTST memory and pointer classes.

**Implements:** DBASE04001

#### **Table 3-285. Define RAMTST\_CODE Description**

Name	RAMTST_CODE
Initializer	

#### 3.8.1.282 Define RAMTST\_CONST

RamTST memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-286. Define RAMTST\_CONST Description

Name	RAMTST_CONST
Initializer	

### 3.8.1.283 Define RAMTST\_APPL\_DATA

RamTST memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-287. Define RAMTST\_APPL\_DATA Description

Name	RAMTST_APPL_DATA
Initializer	

# 3.8.1.284 Define RAMTST\_APPL\_CONST

RamTST memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-288. Define RAMTST\_APPL\_CONST Description

Name	RAMTST_APPL_CONST
Initializer	

# 3.8.1.285 Define RAMTST\_APPL\_CODE

RamTST memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-289. Define RAMTST\_APPL\_CODE Description

Name	RAMTST_APPL_CODE
Initializer	

# 3.8.1.286 Define RAMTST\_CALLOUT\_CODE

RamTST memory and pointer classes.

**Implements:** DBASE04001

### Table 3-290. Define RAMTST\_CALLOUT\_CODE Description

Name	RAMTST_CALLOUT_CODE
Initializer	

# 3.8.1.287 Define RAMTST\_VAR\_NOINIT

RamTST memory and pointer classes.

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#### **Implements: DBASE04001**

#### Table 3-291. Define RAMTST\_VAR\_NOINIT Description

Name	RAMTST_VAR_NOINIT
Initializer	

### 3.8.1.288 Define RAMTST\_VAR\_POWER\_ON\_INIT

RamTST memory and pointer classes.

#### **Implements:** DBASE04001

#### Table 3-292. Define RAMTST\_VAR\_POWER\_ON\_INIT Description

Name	RAMTST_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.289 Define RAMTST\_VAR\_FAST

RamTST memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-293. Define RAMTST\_VAR\_FAST Description

Name	RAMTST_VAR_FAST
Initializer	

# 3.8.1.290 Define RAMTST\_VAR

RamTST memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-294. Define RAMTST\_VAR Description

Name	RAMTST_VAR
Initializer	

# 3.8.1.291 Define SCHM\_CODE

SchM memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-295. Define SCHM\_CODE Description

Name	SCHM_CODE
Initializer	

## 3.8.1.292 Define SCHM\_CONST

SchM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-296. Define SCHM\_CONST Description

Name	SCHM_CONST
Initializer	

# 3.8.1.293 Define SCHM\_APPL\_DATA

SchM memory and pointer classes.

**Implements:** DBASE04001

# Table 3-297. Define SCHM\_APPL\_DATA Description

Name	SCHM_APPL_DATA
Initializer	

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## 3.8.1.294 Define SCHM\_APPL\_CONST

SchM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-298. Define SCHM\_APPL\_CONST Description

Name	SCHM_APPL_CONST
Initializer	

# 3.8.1.295 Define SCHM\_APPL\_CODE

SchM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-299. Define SCHM\_APPL\_CODE Description

Name	SCHM_APPL_CODE
Initializer	

### 3.8.1.296 Define SCHM\_CALLOUT\_CODE

SchM memory and pointer classes.

**Implements:** DBASE04001

### Table 3-300. Define SCHM\_CALLOUT\_CODE Description

Name	SCHM_CALLOUT_CODE
Initializer	

# 3.8.1.297 Define SCHM\_VAR\_NOINIT

SchM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-301. Define SCHM\_VAR\_NOINIT Description

Name	SCHM_VAR_NOINIT
Initializer	

# 3.8.1.298 Define SCHM\_VAR\_POWER\_ON\_INIT

SchM memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-302. Define SCHM\_VAR\_POWER\_ON\_INIT Description

Name	SCHM_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.299 Define SCHM\_VAR\_FAST

SchM memory and pointer classes.

**Implements:** DBASE04001

### Table 3-303. Define SCHM\_VAR\_FAST Description

Name	SCHM_VAR_FAST
Initializer	

# 3.8.1.300 Define SCHM\_VAR

SchM memory and pointer classes.

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#### **Implements: DBASE04001**

#### Table 3-304. Define SCHM\_VAR Description

Name	SCHM_VAR
Initializer	

# 3.8.1.301 Define SPI\_CODE

SPI memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-305. Define SPI\_CODE Description

Name	SPI_CODE
Initializer	

# 3.8.1.302 Define SPI\_CONST

SPI memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-306. Define SPI\_CONST Description

Name	SPI_CONST
Initializer	

# 3.8.1.303 Define SPI\_APPL\_DATA

SPI memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-307. Define SPI\_APPL\_DATA Description

Name	SPI_APPL_DATA
Initializer	

# 3.8.1.304 Define SPI\_APPL\_CONST

SPI memory and pointer classes.

# **Implements: DBASE04001**

#### Table 3-308. Define SPI\_APPL\_CONST Description

Name	SPI_APPL_CONST
Initializer	

# 3.8.1.305 Define SPI\_APPL\_CODE

SPI memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-309. Define SPI\_APPL\_CODE Description

Name	SPI_APPL_CODE
Initializer	

# 3.8.1.306 Define SPI\_CALLOUT\_CODE

SPI memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-310. Define SPI\_CALLOUT\_CODE Description

Name	SPI_CALLOUT_CODE
Initializer	

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#### 3.8.1.307 Define SPI\_VAR\_NOINIT

SPI memory and pointer classes.

**Implements:** DBASE04001

Table 3-311. Define SPI\_VAR\_NOINIT Description

Name	SPI_VAR_NOINIT
Initializer	

# 3.8.1.308 Define SPI\_VAR\_POWER\_ON\_INIT

SPI memory and pointer classes.

**Implements: DBASE04001** 

Table 3-312. Define SPI\_VAR\_POWER\_ON\_INIT Description

Name	SPI_VAR_POWER_ON_INIT
Initializer	

### 3.8.1.309 Define SPI\_VAR\_FAST

SPI memory and pointer classes.

**Implements:** DBASE04001

### Table 3-313. Define SPI\_VAR\_FAST Description

Name	SPI_VAR_FAST
Initializer	

# 3.8.1.310 Define SPI\_VAR

SPI memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-314. Define SPI\_VAR Description

Name	SPI_VAR
Initializer	

#### **3.8.1.311 Define WDG\_CODE**

WDG memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-315. Define WDG\_CODE Description

Name	WDG_CODE
Initializer	

# 3.8.1.312 Define WDG\_CONST

WDG memory and pointer classes.

**Implements:** DBASE04001

### Table 3-316. Define WDG\_CONST Description

Name	WDG_CONST
Initializer	

# 3.8.1.313 Define WDG APPL DATA

WDG memory and pointer classes.

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#### **Implements: DBASE04001**

Table 3-317. Define WDG\_APPL\_DATA Description

Name	WDG_APPL_DATA
Initializer	

### 3.8.1.314 Define WDG\_APPL\_CONST

WDG memory and pointer classes.

**Implements:** DBASE04001

Table 3-318. Define WDG\_APPL\_CONST Description

Name	WDG_APPL_CONST
Initializer	

# 3.8.1.315 Define WDG\_APPL\_CODE

WDG memory and pointer classes.

**Implements:** DBASE04001

Table 3-319. Define WDG\_APPL\_CODE Description

Name	WDG_APPL_CODE
Initializer	

# 3.8.1.316 Define WDG\_CALLOUT\_CODE

WDG memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-320. Define WDG\_CALLOUT\_CODE Description

Name	WDG_CALLOUT_CODE
Initializer	

#### 3.8.1.317 Define WDG\_VAR\_NOINIT

WDG memory and pointer classes.

#### **Implements: DBASE04001**

#### Table 3-321. Define WDG\_VAR\_NOINIT Description

Name	WDG_VAR_NOINIT
Initializer	

#### 3.8.1.318 Define WDG\_VAR\_POWER\_ON\_INIT

WDG memory and pointer classes.

#### **Implements:** DBASE04001

#### Table 3-322. Define WDG\_VAR\_POWER\_ON\_INIT Description

Name	WDG_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.319 Define WDG\_VAR\_FAST

WDG memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-323. Define WDG\_VAR\_FAST Description

Name	WDG_VAR_FAST
Initializer	

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#### 3.8.1.320 Define WDG\_VAR

WDG memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-324. Define WDG\_VAR Description

Name	WDG_VAR
Initializer	

#### 3.8.1.321 Define WDGIF\_CODE

WDGIF memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-325. Define WDGIF\_CODE Description

Name	WDGIF_CODE
Initializer	

### 3.8.1.322 Define WDGIF\_CONST

WDGIF memory and pointer classes.

**Implements:** DBASE04001

# Table 3-326. Define WDGIF\_CONST Description

Name	WDGIF_CONST
Initializer	

# 3.8.1.323 Define WDGIF\_APPL\_DATA

WDGIF memory and pointer classes.

**Implements: DBASE04001** 

Table 3-327. Define WDGIF\_APPL\_DATA Description

Name	WDGIF_APPL_DATA
Initializer	

# 3.8.1.324 Define WDGIF\_APPL\_CONST

WDGIF memory and pointer classes.

**Implements: DBASE04001** 

Table 3-328. Define WDGIF\_APPL\_CONST Description

Name	WDGIF_APPL_CONST
Initializer	

# 3.8.1.325 Define WDGIF\_APPL\_CODE

WDGIF memory and pointer classes.

**Implements:** DBASE04001

### Table 3-329. Define WDGIF\_APPL\_CODE Description

Name	WDGIF_APPL_CODE
Initializer	

# 3.8.1.326 Define WDGIF\_CALLOUT\_CODE

WDGIF memory and pointer classes.

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#### **Implements: DBASE04001**

#### Table 3-330. Define WDGIF\_CALLOUT\_CODE Description

Name	WDGIF_CALLOUT_CODE
Initializer	

### 3.8.1.327 Define WDGIF\_VAR\_NOINIT

WDGIF memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-331. Define WDGIF\_VAR\_NOINIT Description

Name	WDGIF_VAR_NOINIT
Initializer	

# 3.8.1.328 Define WDGIF\_VAR\_POWER\_ON\_INIT

WDGIF memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-332. Define WDGIF\_VAR\_POWER\_ON\_INIT Description

Name	WDGIF_VAR_POWER_ON_INIT
Initializer	

# 3.8.1.329 Define WDGIF\_VAR\_FAST

WDGIF memory and pointer classes.

**Implements:** DBASE04001

#### Table 3-333. Define WDGIF\_VAR\_FAST Description

Name	WDGIF_VAR_FAST
Initializer	

# 3.8.1.330 Define WDGIF\_VAR

WDGIF memory and pointer classes.

**Implements: DBASE04001** 

#### Table 3-334. Define WDGIF\_VAR Description

Name	WDGIF_VAR
Initializer	

## 3.8.1.331 Define AUTOSAR\_COMSTACKDATA

Define for ComStack Data.

**Implements:** DBASE04001

#### Table 3-335. Define AUTOSAR\_COMSTACKDATA Description

Name	AUTOSAR_COMSTACKDATA
Initializer	

# 3.8.1.332 Define BUSTRCV\_E\_ERROR

Bus transceiver detected an unclassified error.

**Details**:

General return codes for BusTrcvErrorType

**Implements:** DBASE02012

#### Table 3-336. Define BUSTRCV\_E\_ERROR Description

Name	BUSTRCV_E_ERROR
Initializer	0x01

# 3.8.1.333 Define BUSTRCV\_OK

There is no bus transceiver error seen or transceiver does not support the detection of bus errors.

#### **Details:**

General return codes for BusTrcvErrorType

**Implements:** DBASE02012

Table 3-337. Define BUSTRCV\_OK Description

Name	BUSTRCV_OK
Initializer	0x00

# 3.8.1.334 Define COMSTACKTYPE\_AR\_RELEASE\_MAJOR\_VERSION Table 3-338. Define COMSTACKTYPE\_AR\_RELEASE\_MAJOR\_VERSION Description

Name	COMSTACKTYPE_AR_RELEASE_MAJOR_VERSION
Initializer	4

# 3.8.1.335 Define COMSTACKTYPE\_AR\_RELEASE\_MINOR\_VERSION Table 3-339. Define COMSTACKTYPE\_AR\_RELEASE\_MINOR\_VERSION Description

Name	COMSTACKTYPE_AR_RELEASE_MINOR_VERSION
Initializer	0

#### 3.8.1.336 Define

#### COMSTACKTYPE AR RELEASE REVISION VERSION

# Table 3-340. Define COMSTACKTYPE\_AR\_RELEASE\_REVISION\_VERSION Description

Name	COMSTACKTYPE_AR_RELEASE_REVISION_VERSION
Initializer	3

#### 3.8.1.337 Define COMSTACKTYPE SW MAJOR VERSION

# Table 3-341. Define COMSTACKTYPE\_SW\_MAJOR\_VERSION Description

Name	COMSTACKTYPE_SW_MAJOR_VERSION
Initializer	Software release major version number

#### 3.8.1.338 Define COMSTACKTYPE\_SW\_MINOR\_VERSION

# Table 3-342. Define COMSTACKTYPE\_SW\_MINOR\_VERSION Description

Name	COMSTACKTYPE_SW_MINOR_VERSION
Initializer	Software release minor version number

#### 3.8.1.339 Define COMSTACKTYPE\_SW\_PATCH\_VERSION

# Table 3-343. Define COMSTACKTYPE\_SW\_PATCH\_VERSION Description

Name	COMSTACKTYPE_SW_PATCH_VERSION
Initializer	Software release patch version number

# 3.8.1.340 Define COMSTACKTYPE\_VENDOR\_ID

Parameters that shall be published within the standard types header file and also in the module's description file.

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**Implements:** DBASE02013

#### Table 3-344. Define COMSTACKTYPE\_VENDOR\_ID Description

Name	COMSTACKTYPE_VENDOR_ID
Initializer	43

#### 3.8.1.341 Define NTFRSLT\_E\_ABORT

Flow control (FC) N\_PDU with FlowStatus = OVFLW received.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-345. Define NTFRSLT\_E\_ABORT Description

Name	NTFRSLT_E_ABORT
Initializer	0x09

# 3.8.1.342 Define NTFRSLT\_E\_CANCELATION\_NOT\_OK

Request cancellation has not been executed Due to an internal error the requested cancelation has not been executed. This will happen e.g. if the to be canceled transmission has been executed already.

# **Details**:

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-346. Define NTFRSLT\_E\_CANCELATION\_NOT\_OK Description

Name	NTFRSLT_E_CANCELATION_NOT_OK
Initializer	0x0C

#### 3.8.1.343 Define NTFRSLT\_E\_CANCELATION\_OK

Requested cancellation has been executed.

**Details:** 

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-347. Define NTFRSLT\_E\_CANCELATION\_OK Description

Name	NTFRSLT_E_CANCELATION_OK
Initializer	0x0B

# 3.8.1.344 Define NTFRSLT\_E\_INVALID\_FS

Invalid or unknown FlowStatus value has been received.

**Details:** 

General return codes for NotifResultType

**Implements:** DBASE02011

# Table 3-348. Define NTFRSLT\_E\_INVALID\_FS Description

Name	NTFRSLT_E_INVALID_FS
Initializer	0x06

# 3.8.1.345 Define NTFRSLT\_E\_NO\_BUFFER

Indicates an abort of a transmission.

**Details**:

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General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-349. Define NTFRSLT\_E\_NO\_BUFFER Description

Name	NTFRSLT_E_NO_BUFFER
Initializer	0x0A

#### 3.8.1.346 Define NTFRSLT\_E\_NOT\_OK

Message not successfully received or sent out.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-350. Define NTFRSLT\_E\_NOT\_OK Description

Name	NTFRSLT_E_NOT_OK
Initializer	0x01

#### 3.8.1.347 Define NTFRSLT E PARAMETER NOT OK

The request for the change of the parameter did not complete successfully.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-351. Define NTFRSLT\_E\_PARAMETER\_NOT\_OK Description

Name	NTFRSLT_E_PARAMETER_NOT_OK
Initializer	0x0E

# 3.8.1.348 Define NTFRSLT\_E\_RX\_ON

The parameter change request not executed successfully due to an ongoing reception.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-352. Define NTFRSLT\_E\_RX\_ON Description

Name	NTFRSLT_E_RX_ON
Initializer	0x0F

#### 3.8.1.349 Define NTFRSLT E TIMEOUT A

Timer N\_Ar/N\_As has passed its time-out value N\_Asmax/N\_Armax.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-353. Define NTFRSLT\_E\_TIMEOUT\_A Description

Name	NTFRSLT_E_TIMEOUT_A
Initializer	0x02

#### 3.8.1.350 Define NTFRSLT\_E\_TIMEOUT\_BS

Timer  $N_Bs$  has passed its time-out value  $N_Bsmax$ .

#### **Details:**

General return codes for NotifResultType

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#### **Implements:** DBASE02011

Table 3-354. Define NTFRSLT\_E\_TIMEOUT\_BS Description

Name	NTFRSLT_E_TIMEOUT_BS
Initializer	0x03

#### 3.8.1.351 Define NTFRSLT\_E\_TIMEOUT\_CR

Timer N\_Cr has passed its time-out value N\_Crmax.

#### **Details**:

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-355. Define NTFRSLT\_E\_TIMEOUT\_CR Description

Name	NTFRSLT_E_TIMEOUT_CR
Initializer	0x04

# 3.8.1.352 Define NTFRSLT\_E\_UNEXP\_PDU

Unexpected protocol data unit received.

#### **Details**:

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-356. Define NTFRSLT\_E\_UNEXP\_PDU Description

Name	NTFRSLT_E_UNEXP_PDU
Initializer	0x07

# 3.8.1.353 Define NTFRSLT\_E\_VALUE\_NOT\_OK

The parameter change request not executed successfully due to a wrong value.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-357. Define NTFRSLT\_E\_VALUE\_NOT\_OK Description

Name	NTFRSLT_E_VALUE_NOT_OK
Initializer	0x10

#### 3.8.1.354 Define NTFRSLT\_E\_WFT\_OVRN

Flow control WAIT frame that exceeds the maximum counter N\_WFTmax received.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-358. Define NTFRSLT\_E\_WFT\_OVRN Description

Name	NTFRSLT_E_WFT_OVRN
Initializer	0x08

### 3.8.1.355 Define NTFRSLT\_E\_WRONG\_SN

Unexpected sequence number (PCI.SN) value received.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

#### Table 3-359. Define NTFRSLT\_E\_WRONG\_SN Description

Name	NTFRSLT_E_WRONG_SN
Initializer	0x05

#### 3.8.1.356 Define NTFRSLT\_OK

Action has been successfully finished.

#### **Details:**

General return codes for NotifResultType

**Implements:** DBASE02011

Table 3-360. Define NTFRSLT\_OK Description

Name	NTFRSLT_OK
Initializer	0x00

# 3.8.1.357 Define NTFRSLT\_PARAMETER\_OK

The parameter change request has been successfully executed.

#### **Details**:

General return codes for NotifResultType

**Implements:** DBASE02011

 Table 3-361.
 Define NTFRSLT\_PARAMETER\_OK Description

Name	NTFRSLT_PARAMETER_OK
Initializer	0x0D

#### 3.8.1.358 Define CONSTP2FUNC

The compiler abstraction for const pointer to function.

#### **Implements:** DBASE05031

Table 3-362. Define CONSTP2FUNC Description

Name	CONSTP2FUNC
Initializer	rettype (* const fctname)

### 3.8.1.359 Define EXIT\_INTERRUPT

Compiler abstraction for returning from an ISR if no OS is present.

#### **Implements:** DBASE05006

Table 3-363. Define EXIT\_INTERRUPT Description

Name	EXIT_INTERRUPT
	SuspendAllInterrupts(); *((volatileuint32*)((uint32)INTC_BASEADDR + (uint32)INTC_EOIR_OFFSET)) = 0U

#### 3.8.1.360 Define ISR

Compiler abstraction for creating an interrupt handler if no OS is present.

# **Implements:** DBASE05016

#### Table 3-364. Define ISR Description

Name	ISR
Initializer	INTERRUPT_FUNC void IsrName(void)

## 3.8.1.361 Define MCAL AR RELEASE MAJOR VERSION

# Table 3-365. Define MCAL\_AR\_RELEASE\_MAJOR\_VERSION Description

Name	MCAL_AR_RELEASE_MAJOR_VERSION
Initializer	4

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#### 3.8.1.362 Define MCAL\_AR\_RELEASE\_MINOR\_VERSION

# Table 3-366. Define MCAL\_AR\_RELEASE\_MINOR\_VERSION Description

Name	MCAL_AR_RELEASE_MINOR_VERSION
Initializer	0

#### 3.8.1.363 Define MCAL AR RELEASE REVISION VERSION

# Table 3-367. Define MCAL\_AR\_RELEASE\_REVISION\_VERSION Description

Name	MCAL_AR_RELEASE_REVISION_VERSION
Initializer	3

#### 3.8.1.364 Define MCAL MODULE ID

#### Table 3-368. Define MCAL MODULE ID Description

Name	MCAL_MODULE_ID
Initializer	0

# 3.8.1.365 Define MCAL\_SW\_MAJOR\_VERSION

# Table 3-369. Define MCAL\_SW\_MAJOR\_VERSION Description

Name	MCAL_SW_MAJOR_VERSION
Initializer	Software release major version number

# 3.8.1.366 Define MCAL\_SW\_MINOR\_VERSION

# Table 3-370. Define MCAL\_SW\_MINOR\_VERSION Description

Name	MCAL_SW_MINOR_VERSION
Initializer	Software release minor version number

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#### 3.8.1.367 Define MCAL SW PATCH VERSION

# Table 3-371. Define MCAL\_SW\_PATCH\_VERSION Description

Name	MCAL_SW_PATCH_VERSION
Initializer	Software release patch version number

#### 3.8.1.368 Define MCAL VENDOR ID

#### Table 3-372. Define MCAL\_VENDOR\_ID Description

Name	MCAL_VENDOR_ID
Initializer	43

#### 3.8.1.369 Define P2P2CONST

The compiler abstraction for pointer to pointer to constant.

**Implements: DBASE05026** 

#### Table 3-373. Define P2P2CONST Description

Name	P2P2CONST
Initializer	const ptrtype **

### 3.8.1.370 Define P2P2VAR

The compiler abstraction for pointer to pointer to variable.

**Implements: DBASE05025** 

#### Table 3-374. Define P2P2VAR Description

Name	P2P2VAR
Initializer	ptrtype **

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### 3.8.1.371 Define ResumeAllInterrupts

Compiler abstraction for re-enabling all interrupts if no OS is present.

**Implements:** DBASE05020

Table 3-375. Define ResumeAllInterrupts Description

Name	ResumeAllInterrupts
Initializer	ASM_KEYWORD(" wrteei 1")

#### 3.8.1.372 **Define STATIC**

The compiler abstraction shall provide the STATIC define for abstraction of compiler keyword static. Keep here for backward compatibility. It has been removed from ASR4.0.

**Implements: DBASE05030** 

Table 3-376. Define STATIC Description

Name	STATIC
Initializer	static

# 3.8.1.373 Define SuspendAllInterrupts

Compiler abstraction for disabling all interrupts if no OS is present.

**Implements:** DBASE05021

Table 3-377. Define SuspendAllInterrupts Description

Name	SuspendAllInterrupts
Initializer	ASM_KEYWORD(" wrteei 0")

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#### 3.8.1.374 Define MEMMAP\_VENDOR\_ID

Parameters that shall be published within the memory map header file and also in the module's description file.

**Implements: DBASE02002** 

 Table 3-378.
 Define MEMMAP\_VENDOR\_ID Description

Name	MEMMAP_VENDOR_ID
Initializer	43

## 3.8.1.375 Define MEMMAP\_AR\_RELEASE\_MAJOR\_VERSION

Parameters that shall be published within the memory map header file and also in the module's description file.

**Implements:** DBASE02002

Table 3-379. Define MEMMAP\_AR\_RELEASE\_MAJOR\_VERSION Description

Name	MEMMAP_AR_RELEASE_MAJOR_VERSION
Initializer	4

#### 3.8.1.376 Define MEMMAP\_AR\_RELEASE\_MINOR\_VERSION

Parameters that shall be published within the memory map header file and also in the module's description file.

**Implements:** DBASE02002

Table 3-380. Define MEMMAP\_AR\_RELEASE\_MINOR\_VERSION Description

Name	MEMMAP_AR_RELEASE_MINOR_VERSION
Initializer	0

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#### 3.8.1.377 Define MEMMAP\_AR\_RELEASE\_REVISION\_VERSION

Parameters that shall be published within the memory map header file and also in the module's description file.

**Implements:** DBASE02002

Table 3-381. Define MEMMAP\_AR\_RELEASE\_REVISION\_VERSION Description

Name	MEMMAP_AR_RELEASE_REVISION_VERSION
Initializer	3

#### 3.8.1.378 Define MEMMAP\_SW\_MAJOR\_VERSION

Parameters that shall be published within the memory map header file and also in the module's description file.

**Implements:** DBASE02002

Table 3-382. Define MEMMAP\_SW\_MAJOR\_VERSION Description

Name	MEMMAP_SW_MAJOR_VERSION
Initializer	Software release major version number

# 3.8.1.379 Define MEMMAP\_SW\_MINOR\_VERSION

Parameters that shall be published within the memory map header file and also in the module's description file.

**Implements: DBASE02002** 

#### Table 3-383. Define MEMMAP\_SW\_MINOR\_VERSION **Description**

Name	MEMMAP_SW_MINOR_VERSION
Initializer	Software release minor version number

# 3.8.1.380 Define MEMMAP SW PATCH VERSION

Parameters that shall be published within the memory map header file and also in the module's description file.

**Implements: DBASE02002** 

Table 3-384. Define MEMMAP\_SW\_PATCH\_VERSION **Description** 

Name	MEMMAP_SW_PATCH_VERSION
Initializer	Software release patch version number

#### 3.8.1.381 **Define MEMMAP ERROR**

Symbol used for checking correctness of the includes.

**Implements: DBASE02001** 

#### Table 3-385. Define MEMMAP\_ERROR Description

Name	MEMMAP_ERROR
Initializer	

#### 3.8.1.382 Define CPU BIT ORDER

Bit order on register level.

**Implements:** DBASE08017

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#### Table 3-386. Define CPU\_BIT\_ORDER Description

Name	CPU_BIT_ORDER
Initializer	(MSB_FIRST)

#### 3.8.1.383 Define CPU\_BYTE\_ORDER

The byte order on memory level shall be indicated in the platform types header file using the symbol CPU\_BYTE\_ORDER.

**Implements:** DBASE08018

Table 3-387. Define CPU\_BYTE\_ORDER Description

Name	CPU_BYTE_ORDER
Initializer	(HIGH_BYTE_FIRST)

# 3.8.1.384 Define CPU\_TYPE

Processor type.

**Implements:** DBASE08019

Table 3-388. Define CPU\_TYPE Description

Name	CPU_TYPE
Initializer	(CPU_TYPE_32)

# 3.8.1.385 **Define CPU\_TYPE\_16**

16bit Type Processor

**Implements: DBASE08020** 

## Table 3-389. Define CPU\_TYPE\_16 Description

Name	CPU_TYPE_16
Initializer	16

## 3.8.1.386 **Define CPU\_TYPE\_32**

32bit Type Processor

**Implements:** DBASE08021

Table 3-390. Define CPU\_TYPE\_32 Description

Name	CPU_TYPE_32
Initializer	32

## 3.8.1.387 **Define CPU\_TYPE\_8**

8bit Type Processor

**Implements:** DBASE08022

Table 3-391. Define CPU\_TYPE\_8 Description

Name	CPU_TYPE_8
Initializer	8

## 3.8.1.388 Define FALSE

Boolean false value.

**Implements:** DBASE08023

## Table 3-392. Define FALSE Description

Name	FALSE
Initializer	0

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## 3.8.1.389 Define HIGH\_BYTE\_FIRST

HIGH\_BYTE\_FIRST Processor.

**Implements: DBASE08024** 

Table 3-393. Define HIGH\_BYTE\_FIRST Description

Name	HIGH_BYTE_FIRST
Initializer	0

## 3.8.1.390 Define LOW\_BYTE\_FIRST

LOW\_BYTE\_FIRST Processor.

**Implements: DBASE08025** 

Table 3-394. Define LOW\_BYTE\_FIRST Description

Name	LOW_BYTE_FIRST
Initializer	1

## 3.8.1.391 Define LSB\_FIRST

LSB First Processor.

**Implements: DBASE08026** 

## Table 3-395. Define LSB\_FIRST Description

Name	LSB_FIRST
Initializer	1

## 3.8.1.392 Define MSB FIRST

MSB First Processor.

**Implements:** DBASE08027

#### Table 3-396. Define MSB\_FIRST Description

Name	MSB_FIRST
Initializer	0

## 3.8.1.393 Define PLATFORM\_AR\_RELEASE\_MAJOR\_VERSION

# Table 3-397. Define PLATFORM\_AR\_RELEASE\_MAJOR\_VERSION Description

Name	PLATFORM_AR_RELEASE_MAJOR_VERSION
Initializer	4

## 3.8.1.394 Define PLATFORM AR RELEASE MINOR VERSION

## Table 3-398. Define PLATFORM\_AR\_RELEASE\_MINOR\_VERSION Description

Name	PLATFORM_AR_RELEASE_MINOR_VERSION
Initializer	0

## 3.8.1.395 Define PLATFORM\_AR\_RELEASE\_REVISION\_VERSION

# Table 3-399. Define PLATFORM\_AR\_RELEASE\_REVISION\_VERSION Description

Name	PLATFORM_AR_RELEASE_REVISION_VERSION
Initializer	3

## 3.8.1.396 Define PLATFORM\_SW\_MAJOR\_VERSION

# Table 3-400. Define PLATFORM\_SW\_MAJOR\_VERSION Description

Name	PLATFORM_SW_MAJOR_VERSION
Initializer	Software release major version number

## 3.8.1.397 Define PLATFORM\_SW\_MINOR\_VERSION

# Table 3-401. Define PLATFORM\_SW\_MINOR\_VERSION Description

Name	PLATFORM_SW_MINOR_VERSION
Initializer	Software release minor version number

## 3.8.1.398 Define PLATFORM\_SW\_PATCH\_VERSION

# Table 3-402. Define PLATFORM\_SW\_PATCH\_VERSION Description

Name	PLATFORM_SW_PATCH_VERSION
Initializer	Software release patch version number

## 3.8.1.399 Define PLATFORM\_VENDOR\_ID

## Table 3-403. Define PLATFORM\_VENDOR\_ID Description

Name	PLATFORM_VENDOR_ID
Initializer	43

## 3.8.1.400 Define TRUE

Boolean true value.

**Implements:** DBASE08035

## Table 3-404. Define TRUE Description

Name	TRUE
Initializer	1

## 3.8.1.401 **Define E\_NOT\_OK**

Return code for failure/error.

**Implements:** DBASE12005

Table 3-405. Define E\_NOT\_OK Description

Name	E_NOT_OK
Initializer	0x01

## 3.8.1.402 Define E\_OK

Success return code.

**Implements:** DBASE12004

## Table 3-406. Define E\_OK Description

Name	E_OK
Initializer	0x00

## 3.8.1.403 Define STATUSTYPEDEFINED

Because E\_OK is already defined within OSEK, the symbol E\_OK has to be shared. To avoid name clashes and redefinition problems, the symbols have to be defined in the following way (approved within implementation).

## Table 3-407. Define STATUSTYPEDEFINED Description

Name	STATUSTYPEDEFINED
Initializer	

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## 3.8.1.404 Define STD\_ACTIVE

Logical state active.

**Implements: DBASE12008** 

### Table 3-408. Define STD\_ACTIVE Description

Name	STD_ACTIVE
Initializer	0x01

## 3.8.1.405 Define STD HIGH

Physical state 5V or 3.3V.

**Implements: DBASE12006** 

## Table 3-409. Define STD\_HIGH Description

Name	STD_HIGH
Initializer	0x01

## 3.8.1.406 Define STD\_IDLE

Logical state idle.

**Implements:** DBASE12009

### Table 3-410. Define STD\_IDLE Description

Name	STD_IDLE
Initializer	0x00

## 

Physical state 0V.

**Implements: DBASE12007** 

Table 3-411. Define STD\_LOW Description

Name	STD_LOW
Initializer	0x00

## 3.8.1.408 Define STD\_OFF

OFF state.

**Implements:** DBASE12011

Table 3-412. Define STD\_OFF Description

Name	STD_OFF
Initializer	0x00

## 3.8.1.409 Define STD\_ON

ON State.

**Implements:** DBASE12010

Table 3-413. Define STD\_ON Description

Name	STD_ON
Initializer	0x01

## 3.8.1.410 Define STD\_TYPES\_AR\_RELEASE\_MAJOR\_VERSION

# Table 3-414. Define STD\_TYPES\_AR\_RELEASE\_MAJOR\_VERSION Description

Name	STD_TYPES_AR_RELEASE_MAJOR_VERSION	
Initializer	4	

## 3.8.1.411 Define STD\_TYPES\_AR\_RELEASE\_MINOR\_VERSION

# Table 3-415. Define STD\_TYPES\_AR\_RELEASE\_MINOR\_VERSION Description

Name	STD_TYPES_AR_RELEASE_MINOR_VERSION
Initializer	0

## 3.8.1.412 Define STD\_TYPES\_AR\_RELEASE\_REVISION\_VERSION

# Table 3-416. Define STD\_TYPES\_AR\_RELEASE\_REVISION\_VERSION Description

Name	STD_TYPES_AR_RELEASE_REVISION_VERSION
Initializer	3

## 3.8.1.413 Define STD\_TYPES\_SW\_MAJOR\_VERSION

## Table 3-417. Define STD\_TYPES\_SW\_MAJOR\_VERSION Description

Name	STD_TYPES_SW_MAJOR_VERSION	
Initializer	Software release major version number	

## 3.8.1.414 Define STD\_TYPES\_SW\_MINOR\_VERSION

# Table 3-418. Define STD\_TYPES\_SW\_MINOR\_VERSION Description

Name	STD_TYPES_SW_MINOR_VERSION	
Initializer	Software release minor version number	

## 3.8.1.415 Define STD\_TYPES\_SW\_PATCH\_VERSION

# Table 3-419. Define STD\_TYPES\_SW\_PATCH\_VERSION Description

Name	STD_TYPES_SW_PATCH_VERSION	
Initializer	Software release patch version number	

## 3.8.1.416 Define STD\_TYPES\_VENDOR\_ID

Parameters that shall be published within the standard types header file and also in the module's description file.

Implements: DBASE12012, DBASE12013, DBASE12014, DBASE12015, DBASE12016, DBASE12017, DBASE12018

Table 3-420. Define STD\_TYPES\_VENDOR\_ID Description

Name	STD_TYPES_VENDOR_ID
Initializer	43

## 3.8.2 Enum Reference

Enumeration of all constants supported by the driver are as per AUTOSAR BASE Driver software specification Version  $4.2~{\rm Rev}0002$ .

## 3.8.2.1 Enumeration Can ReturnType

Can\_ReturnType.

**Details:** 

CAN Return Types from Functions.

**Implements:** DCAN02414

Table 3-421. Enumeration Can\_ReturnType Values

Name	Initializer	Description
CAN_OK	οU	Operation was ok executed.
CAN_NOT_OK		Operation was not ok executed.
CAN_BUSY		Operation was rejected because of busy state.

## 3.8.2.2 Enumeration Can\_StateTransitionType

CAN State Modes of operation.

### **Details:**

State transitions that are used by the function CAN\_SetControllerMode().

**Implements:** DCAN02415

Table 3-422. Enumeration Can\_StateTransitionType Values

Name	Initializer	Description
CAN_T_STOP	0U	CANIF_CS_STARTED -> CANIF_CS_STOPPED.
CAN_T_START		CANIF_CS_STOPPED -> CANIF_CS_STARTED.
CAN_T_SLEEP		CANIF_CS_STOPPED -> CANIF_CS_SLEEP.
CAN_T_WAKEUP		CANIF_CS_SLEEP -> CANIF_CS_STOPPED.

## 3.8.2.3 Enumeration CanIf\_ControllerModeType

 $Can If\_Controller Mode Type.\\$ 

## **Details:**

Operating modes of the CAN Controller and CAN Driver

Table 3-423. Enumeration CanIf\_ControllerModeType Values

Name	Initializer	Description
CANIF_CS_UNINIT	οU	UNINIT mode.
CANIF_CS_SLEEP		SLEEP mode.
CANIF_CS_STARTED		STARTED mode.
CANIF_CS_STOPPED		STOPPED mode.

## 3.8.2.4 Enumeration Eth\_FilterActionType

Action type for PHY address filtering.

### **Details:**

The Enumeration type describes the action to be taken for the MAC address given in \*PhysAddrPtr

Table 3-424. Enumeration Eth\_FilterActionType Values

Name	Initializer	Description
ETH_ADD_TO_FILTER	0	Add address to the filter.
ETH_REMOVE_FROM_FILTER		Remove address.

## 3.8.2.5 Enumeration Eth\_ModeType

The Ethernet controller mode.

### **Details:**

This type is used to store the information whether the Ethernet controller is stopped or running.

Table 3-425. Enumeration Eth\_ModeType Values

Name	Initializer	Description
ETH_MODE_DOWN	0	Controller is shut down.
ETH_MODE_ACTIVE		Controller is active.

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## 3.8.2.6 Enumeration Eth\_ReturnType

The Ethernet specific return type.

#### **Details:**

This return type informs about the function success/failure status.

Table 3-426. Enumeration Eth\_ReturnType Values

Name	Initializer	Description
ETH_OK	0	Success.
ETH_E_NOT_OK		General failure.
ETH_E_NO_ACCESS		Ethernet hardware access failure.

## 3.8.2.7 Enumeration Eth\_RxStatusType

The Ethernet reception status.

### **Details:**

This status is returned by the Eth\_Receive() function to indicate whether any frame has been received and if yes, whether there is any frame still waiting in the queue (for another Eth\_Receive() call).

Table 3-427. Enumeration Eth\_RxStatusType Values

Name	Initializer	Description
ETH_RECEIVED	0	A frame has been received and there are no more frames in the queue.
ETH_NOT_RECEIVED		No frames received.
ETH_RECEIVED_MORE_DATA_AVAILABLE		A frame received and at least another one in the queue detected.
ETH_RECEIVED_FRAMES_LOST		Ethernet frame has been received, some frames got lost.

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## 3.8.2.8 Enumeration Eth\_StateType

The Ethernet driver state.

#### **Details:**

A variable of this type holds the state of the Ethernet driver module. The driver is at the ETH\_STATE\_UNINIT at the beginning until the Eth\_Init() function is called. The state remains equal to the ETH\_STATE\_INIT until the Eth\_ControllerInit() function is called. Then the state is ETH\_STATE\_ACTIVE.

Table 3-428. Enumeration Eth\_StateType Values

Name	Initializer	Description
ETH_STATE_UNINIT	0	The driver has not been initialized yet.
ETH_STATE_INIT		The driver has not been configured but the controller has not been initialized yet.
ETH_STATE_ACTIVE		The driver was initialized and the controller was configured.

## 3.8.2.9 Enumeration Fr\_ChannelType

#### **Details:**

This type is used to select the channel.

**Implements:** DFR32001

Table 3-429. Enumeration Fr\_ChannelType Values

Name	Initializer	Description
FR_CHANNEL_A	0U	
FR_CHANNEL_B		
FR_CHANNEL_AB		

## 3.8.2.10 Enumeration Fr\_ErrorModeType

Variables of this type are used for storage of FlexRay controller error mode.

**Implements:** DFR32009

Table 3-430. Enumeration Fr\_ErrorModeType Values

Name	Initializer	Description
FR_ERRORMODE_ACTIVE	OU	
FR_ERRORMODE_PASSIVE		
FR_ERRORMODE_COMM_HALT		

## 3.8.2.11 Enumeration Fr\_POCStateType

## **Details:**

Variables of this type are used to store the POC:state of the controller.

**Implements:** DFR32007

Table 3-431. Enumeration Fr\_POCStateType Values

Name	Initializer	Description
FR_POCSTATE_CONFIG	0U	
FR_POCSTATE_DEFAULT_CONFIG		
FR_POCSTATE_HALT		
FR_POCSTATE_NORMAL_ACTIVE		
FR_POCSTATE_NORMAL_PASSIVE		
FR_POCSTATE_READY		
FR_POCSTATE_STARTUP		
FR_POCSTATE_WAKEUP		

## 3.8.2.12 Enumeration Fr\_RxLPduStatusType

Transmit resource status is stored to variable of this type.

**Implements:** DFR32003

Table 3-432. Enumeration Fr\_RxLPduStatusType Values

Name	Initializer	Description
FR_RECEIVED	0U	
FR_NOT_RECEIVED		
FR_RECEIVED_MORE_DATA_AVAILABLE		

## 3.8.2.13 Enumeration Fr\_SlotModeType

This type is used to store the slot mode of the controller.

**Details:** 

Covers FR506

**Implements: DFR32008** 

Table 3-433. Enumeration Fr\_SlotModeType Values

Name	Initializer	Description
FR_SLOTMODE_KEYSLOT	ΟU	
FR_SLOTMODE_ALL_PENDING		
FR_SLOTMODE_ALL		

## 3.8.2.14 Enumeration Fr\_StartupStateType

## **Details:**

Variable of this type is used to query the FlexRay controller Startup state.

**Implements:** DFR32004

Table 3-434. Enumeration Fr\_StartupStateType Values

Name	Initializer	Description
FR_STARTUP_UNDEFINED	ΟU	
FR_STARTUP_COLDSTART_LISTEN		
FR_STARTUP_INTEGRATION_COLDSTART _CHECK		
FR_STARTUP_COLDSTART_JOIN		

Table continues on the next page...

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Table 3-434. Enumeration Fr\_StartupStateType Values (continued)

Name	Initializer	Description
FR_STARTUP_COLDSTART_COLLISION_RE SOLUTION		
FR_STARTUP_COLDSTART_CONSISTENCY _CHECK		
FR_STARTUP_INTEGRATION_LISTEN		
FR_STARTUP_INITIALIZE_SCHEDULE		
FR_STARTUP_INTEGRATION_CONSISTEN CY_CHECK		
FR_STARTUP_COLDSTART_GAP		

## 3.8.2.15 Enumeration Fr\_TxLPduStatusType

Transmit resource status is stored to variable of this type.

**Implements:** DFR32005

Table 3-435. Enumeration Fr\_TxLPduStatusType Values

Name	Initializer	Description
FR_TRANSMITTED	ΟU	
FR_NOT_TRANSMITTED		

## 3.8.2.16 Enumeration Fr\_WakeupStatusType

## **Details**:

Variable of this type is used to query the FlexRay controller Wakeup status.

**Implements:** DFR32006

Table 3-436. Enumeration Fr\_WakeupStatusType Values

Name	Initializer	Description
FR_WAKEUP_UNDEFINED	ΟU	
FR_WAKEUP_RECEIVED_HEADER		
FR_WAKEUP_RECEIVED_WUP		

Table continues on the next page...

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Table 3-436. Enumeration Fr\_WakeupStatusType Values (continued)

Name	Initializer	Description
FR_WAKEUP_COLLISION_HEADER		
FR_WAKEUP_COLLISION_WUP		
FR_WAKEUP_COLLISION_UNKNOWN		
FR_WAKEUP_TRANSMITTED		

## 3.8.2.17 Enumeration BufReq\_ReturnType

Variables of this type are used to store the result of a buffer request.

**Implements:** DBASE02009

Table 3-437. Enumeration BufReq\_ReturnType Values

Name	Initializer	Description
BUFREQ_OK	0	Buffer request accomplished successful.
BUFREQ_E_NOT_OK	1	Buffer request not successful. Buffer cannot be accessed.
BUFREQ_E_BUSY	2	Temporarily no buffer available. It's up the requestor to retry request for a certain time.
BUFREQ_E_OVFL	3	No Buffer of the required length can be provided.

## 3.8.2.18 Enumeration TpDataStateType

Variables of this type shall be used to store the state of TP buffer.

**Implements:** DBASE02010

Table 3-438. Enumeration TpDataStateType Values

Name	Initializer	Description
TP_DATACONF		Indicates that all data, that have been copied so far, are c confirmed and can be removed from the TP buffer.

Table continues on the next page...

Table 3-438. Enumeration TpDataStateType Values (continued)

Name	Initializer	Description
TP_DATARETRY	1	Indicates that this API call shall copy already copied data in order to recover from an error.
TP_CONFPENDING	2	Indicates that the previously copied data must remain in the TP.
TP_NORETRY	3	Indicate that the copied transmit data can be removed from the buffer after it has been copied.

## 3.8.2.19 Enumeration TPParameterType

Specify the parameter to which the value has to be changed (BS or STmin)

**Implements:** DBASE02008

Table 3-439. Enumeration TPParameterType Values

Name	Initializer	Description
TP_STMIN	0	Separation Time.
TP_BS	1	Block Size.
TP_BC	2	Band width control parameter used in FlexRay transport protocol module.

## 3.8.2.20 Enumeration Lin\_FrameCsModelType

Checksum models for the LIN Frame.

## **Details:**

This type is used to specify the Checksum model to be used for the LIN Frame.

**Implements:** DLIN05031

Table 3-440. Enumeration Lin\_FrameCsModelType Values

Name	Initializer	Description
LIN_ENHANCED_CS		Enhanced checksum model.
LIN_CLASSIC_CS		Classic checksum model.

## 3.8.2.21 Enumeration Lin\_FrameResponseType

Frame response types.

#### **Details:**

This type is used to specify whether the frame processor is required to transmit the response part of the LIN frame.

**Implements:** DLIN05034

Table 3-441. Enumeration Lin\_FrameResponseType Values

Name	Initializer	Description
LIN_MASTER_RESPONSE		Response is generated from this (master) node.
LIN_SLAVE_RESPONSE		Response is generated from a remote slave node.
LIN_SLAVE_TO_SLAVE		Response is generated from one slave to another slave.
		For the master the response will be anonymous, it does not have to receive the response.

## 3.8.2.22 Enumeration Lin\_StatusType

LIN Frame and Channel states operation.

## **Details**:

LIN operation states for a LIN channel or frame, as returned by the API service Lin\_GetStatus(). part of the LIN frame.

**Implements:** DLIN05036

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Table 3-442. Enumeration Lin\_StatusType Values

Name	Initializer	Description
LIN_NOT_OK	0	Development or production error occurred.
LIN_TX_OK		Successful transmission.
LIN_TX_BUSY		Ongoing transmission (Header or Response).
LIN_TX_HEADER_ERROR		Erroneous header transmission such as:.
LIN_TX_ERROR		Erroneous transmission such as:.
LIN_RX_OK		Reception of correct response.
LIN_RX_BUSY		Ongoing reception: at least one response byte has been received, but the checksum byte has not been received.
LIN_RX_ERROR		Erroneous reception such as:.
LIN_RX_NO_RESPONSE		No response byte has been received so far.
		This is a mess !! Frame status is mixed with channel status but i kept it here only because of LIN168.
LIN_OPERATIONAL		Normal operation;.
LIN_CH_SLEEP		Sleep mode operation;.

## 3.8.3 Function Reference

Functions of all functions supported by the driver are as per AUTOSAR BASE Driver software specification Version 4.2 Rev0002.

## 3.8.4 Structs Reference

Data structures supported by the driver are as per AUTOSAR BASE Driver software specification Version 4.2 Rev0002.

## 3.8.4.1 Structure Can\_PduType

Can\_PduType.

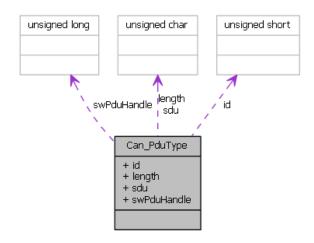


Figure 3-1. Struct Can\_PduType

#### **Details:**

Type used to provide ID, DLC, SDU from CAN interface to CAN driver. HTH/HRH = ID+DLC+SDU.

**Implements:** DCAN02417

#### **Declaration:**

Table 3-443. Structure Can\_PduType member description

Member	Description
id	CAN L-PDU = Data Link Layer Protocol Data Unit. Consists of Identifier, DLC and Data(SDU) It is uint32 for CAN_EXTENDEDID=STD_ON, else is uint16.
length	DLC = Data Length Code (part of L-PDU that describes the SDU length).
sdu	CAN L-SDU = Link Layer Service Data Unit. Data that is transported inside the L-PDU.
swPduHandle	The L-PDU Handle = defined and placed inside the Canlf module layer. Each handle represents an L-PDU, which is a constant structure with information for Tx/Rx processing.

## 3.8.4.2 Structure Fr\_POCStatusType

Variables of this type are used to query the flexRay controller status.

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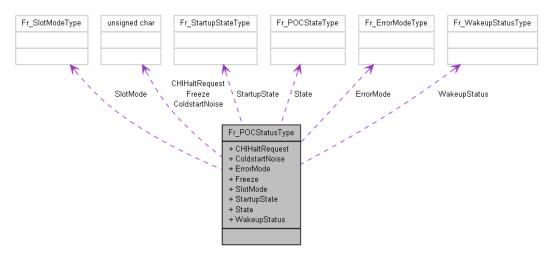


Figure 3-2. Struct Fr\_POCStatusType

**Implements:** DFR32002

### **Declaration:**

```
typedef struct

{
    boolean CHIHaltRequest,
    boolean ColdstartNoise,
    Fr_ErrorModeType ErrorMode,
    boolean Freeze,
    Fr_SlotModeType SlotMode,
    Fr_StartupStateType StartupState,
    Fr_POCStateType State,
    Fr_WakeupStatusType WakeupStatus
} Fr_POCStatusType;
```

Table 3-444. Structure Fr\_POCStatusType member description

Member	Description
CHIHaltRequest	
ColdstartNoise	
ErrorMode	
Freeze	
SlotMode	
StartupState	
State	
WakeupStatus	

## 3.8.4.3 Structure Lin\_PduType

The LIN identifier (0..0x3F) with its parity bits.

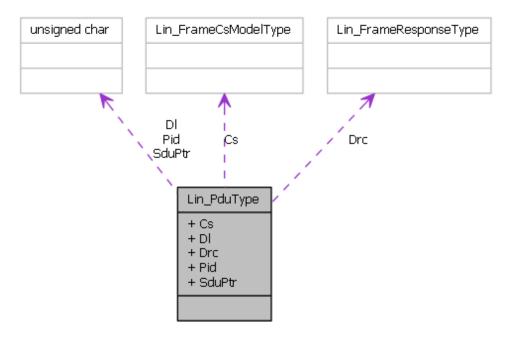


Figure 3-3. Struct Lin\_PduType

## **Details**:

This Type is used to provide PID, checksum model, data length and SDU pointer from the LIN Interface to the LIN driver.

**Implements:** DLIN05035

#### **Declaration:**

Table 3-445. Structure Lin\_PduType member description

Member	Description
Cs	Checksum model type.
DI	Data length.
Drc	Response type.
Pid	LIN frame identifier.
SduPtr	Pointer to Sdu.

## 3.8.4.4 Structure Mcal\_DemErrorType

Typedef for DEM error management implemented by MCAL drivers.

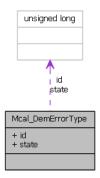


Figure 3-4. Struct Mcal\_DemErrorType

**Implements:** DBASE05032

#### **Declaration:**

Table 3-446. Structure Mcal\_DemErrorType member description

Member	Description
id	
state	

## 3.8.4.5 Structure PduInfoType

Variables of this type are used to store the basic information about a PDU of any type, namely a pointer variable pointing to it's SDU (payload), and the corresponding length of the SDU in bytes.

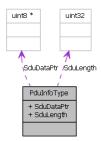


Figure 3-5. Struct PduInfoType

**Implements:** DBASE02006

#### **Declaration:**

Table 3-447. Structure PduInfoType member description

Member	Description
SduDataPtr	
SduLength	

## 3.8.4.6 Structure RetryInfoType

Variables of this type shall be used to store the information about Tp buffer handling.

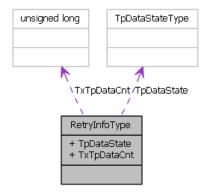


Figure 3-6. Struct RetryInfoType

**Implements:** DBASE02007

#### **Declaration:**

Table 3-448. Structure RetryInfoType member description

Member	Description
TpDataState	
TxTpDataCnt	

## 3.8.4.7 Structure Std\_VersionInfoType

This type shall be used to request the version of a BSW module using the "ModuleName"\_GetVersionInfo() function.

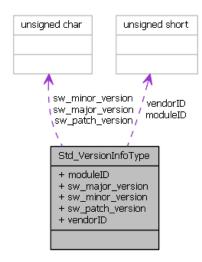


Figure 3-7. Struct Std\_VersionInfoType

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**Implements:** DBASE12003

### **Declaration:**

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Table 3-449. Structure Std\_VersionInfoType member description

Member	Description
moduleID	BSW module ID.
sw_major_version	BSW module software major version.
sw_minor_version	BSW module software minor version.
sw_patch_version	BSW module software patch version.
vendorID	vendor ID

## 3.8.5 Types Reference

Types supported by the driver are as per AUTOSAR BASE Driver software specification Version 4.2 Rev0002.

## 3.8.5.1 Typedef Can\_ldType

Can\_IdType.

## **Details:**

Type for storing the Identifier Length Type: Normal /Extended.

• used by "Can\_MessageBufferConfigObjectType" structure. The driver does not distinguish between Extended and Mixed transmission modes. Extended transmission mode of operation behaves the same as Mixed mode.

**Implements:** DCAN02420

Type:uint16

## 3.8.5.2 Typedef Can\_HwHandleType

Can\_HwHandleType.

## **Details:**

Represents the hardware object handles of a CAN hardware unit. For CAN hardware units with more than 255 HW objects use extended range.

• used by "Can\_Write" function. The driver does not distinguish between Extended and Mixed transmission modes. Extended transmission mode of operation behaves the same as Mixed mode.

**Implements:** DCAN02421

Type:uint16

## 3.8.5.3 Typedef Eth\_DataType

Type used to pass transmit/receive data to/from the driver.

#### **Details:**

This type was defined as 8 bit wide unsigned integer because this definition is available on all CPU types.

Type:uint8

## 3.8.5.4 Typedef Eth\_FrameType

Frame type.

## **Details:**

This type is used to pass the value of type/length field in the Ethernet frame header. It is 16 bits long unsigned integer.

- Values less than or equal to 1500 represent the length.
- Values grater than 1500 represent the type (i.e. 0x800 = IP).

Type:uint16

## 3.8.5.5 Typedef PduldType

This type serve as a unique identifier of a PDU within a software module. Allowed ranges: uint8 .. uint16.

**Implements: DBASE02002** 

Type:uint32

## 3.8.5.6 Typedef PduLengthType

This type serve as length information of a PDU in bytes. Allowed ranges: uint8.. uint32.

**Implements:** DBASE02002

Type:uint32

## 3.8.5.7 Typedef BusTrcvErrorType

Variables of this type are used to return the bus status evaluated by a transceiver.

**Implements: DBASE02005** 

Type:uint8

## 3.8.5.8 Typedef NetworkHandleType

Variables of the type NetworkHandleType are used to store the identifier of a communication channel.

**Implements:** DBASE02004

 $\underline{Type:}$ uint8

## 3.8.5.9 Typedef NotifResultType

Variables of this type are used to store the result status of a notification (confirmation or indication).

**Implements: DBASE02003** 

Type:uint8

## 3.8.5.10 Typedef Lin\_FrameDIType

Data length of a LIN Frame.

**Details:** 

This type is used to specify the number of SDU data bytes to copy.

**Implements:** DLIN05032

Type:uint8

## 3.8.5.11 Typedef Lin\_FramePidType

The LIN identifier (0..0x3F) with its parity bits.

**Details:** 

Represents all valid protected Identifier used by Lin\_SendHeader().

**Implements:** DLIN05033

 $\underline{Type:}$ uint8

## 3.8.5.12 Typedef boolean

The standard AUTOSAR type boolean shall be implemented on basis of an eight bits long unsigned integer.

**Implements:** DBASE08002

**Type:** unsigned char

## 3.8.5.13 **Typedef float32**

32bit long floating point data type

**Implements: DBASE08015** 

**Type:** float

## 3.8.5.14 Typedef float64

64bit long floating point data type

**Implements: DBASE08016** 

Type: double

## 3.8.5.15 Typedef sint16

Signed 16 bit integer with range of -32768 ..+32767 (0x8000..0x7FFF) - 15 bit + 1 sign bit.

**Implements:** DBASE08007

**Type:** signed short

## 3.8.5.16 Typedef sint16\_least

Signed integer at least 16 bit long. Range - at least -32768 ..+32767. At least 15 bit + 1 bit sign.

**Implements:** DBASE08013

**Type:** signed long

## 3.8.5.17 Typedef sint32

Signed 32 bit integer with range of -2147483648.. +2147483647 (0x80000000..0x7FFFFFFF) - 31 bit + 1 sign bit.

**Implements:** DBASE08008

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**Type:** signed long

## 3.8.5.18 Typedef sint32\_least

Signed integer at least 32 bit long. Range - at least -2147483648.. +2147483647. At least 31 bit + 1 bit sign.

**Implements:** DBASE08014

**Type:** signed long

## **3.8.5.19 Typedef sint8**

Signed 8 bit integer with range of -128 ..+127 (0x80..0x7F) - 7 bit + 1 sign bit.

**Implements:** DBASE08006

**Type:** signed char

## 3.8.5.20 Typedef sint8\_least

Signed integer at least 8 bit long. Range - at least -128 ..+127. At least 7 bit + 1 bit sign.

**Implements:** DBASE08012

**Type:** signed long

## 3.8.5.21 Typedef uint16

Unsigned 16 bit integer with range of 0 ..+65535 (0x0000..0xFFFF) - 16 bit.

**Implements: DBASE08004** 

**Type:** unsigned short

## 3.8.5.22 Typedef uint16\_least

Unsigned integer at least 16 bit long. Range of at least 0 ..+65535 (0x0000..0xFFFF) - 16 bit.

**Implements: DBASE08010** 

**Type:** unsigned long

## 3.8.5.23 Typedef uint32

Unsigned 32 bit integer with range of 0 ..+4294967295 (0x00000000..0xFFFFFFF) - 32 bit.

**Implements:** DBASE08005

**Type:** unsigned long

## 3.8.5.24 Typedef uint32\_least

Unsigned integer at least 32 bit long. Range of at least 0 ..+4294967295 (0x00000000..0xFFFFFFFF) - 32 bit.

**Implements:** DBASE08011

**Type:** unsigned long

## **3.8.5.25** Typedef uint8

Unsigned 8 bit integer with range of 0 ..+255 (0x00..0xFF) - 8 bit.

**Implements:** DBASE08003

Type: unsigned char

## 3.8.5.26 Typedef uint8\_least

Unsigned integer at least 8 bit long. Range of at least 0 ..+255 (0x00..0xFF) - 8 bit.

**Implements: DBASE08009** 

**Type:** unsigned long

## 3.8.5.27 Typedef StatusType

This type is defined for OSEK compliance.

**Implements:** DBASE12001

**Type:** unsigned char

## 3.8.5.28 Typedef Std\_ReturnType

This type can be used as standard API return type which is shared between the RTE and the BSW modules.

**Implements:** DBASE12002

Type:uint8

## 3.9 Symbolic Names Disclaimer

All containers having the symbolic name tag set as true in the Autosar schema will generate defines like:

#define <Container\_Short\_Name> <Container\_ID>

For this reason it is forbidden to duplicate the name of such containers across the MCAL configuration, or to use names that may trigger other compile issues (e.g. match existing #ifdefs arguments).

# **Chapter 4 Tresos Configuration Plug-in**

This chapter describes the Tresos configuration plug-in for the BASE Driver. The most of the parameters are described below.

## 4.1 Configuration elements of Base

## **Included forms:**

• CommonPublishedInformation

Table 4-1. Revision table

Revision	Date
4.1.0	2010-12-03

## 4.2 Form CommonPublishedInformation

Common container, aggregated by all modules. It contains published information about vendor and versions.

#### Form CommonPublishedInformation

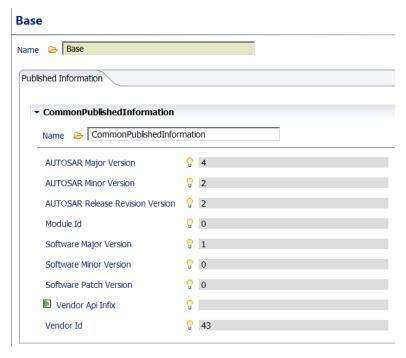


Figure 4-1. Tresos Plugin snapshot for CommonPublishedInformation form.

## 4.2.1 ArReleaseMajorVersion (CommonPublishedInformation)

Major version number of AUTOSAR specification on which the appropriate implementation is based on.

Table 4-2. Attribute ArReleaseMajorVersion (CommonPublishedInformation) detailed description

Property	Value
Label	AUTOSAR Major Version
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false
Default	4
Invalid	Range >=4 <=4

## 4.2.2 ArReleaseMinorVersion (CommonPublishedInformation)

Minor version number of AUTOSAR specification on which the appropriate implementation is based on.

Table 4-3. Attribute ArReleaseMinorVersion (CommonPublishedInformation) detailed description

Property	Value
Label	AUTOSAR Minor Version
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false
Default	2
Invalid	Range >=2 <=2

## 4.2.3 ArReleaseRevisionVersion (CommonPublishedInformation)

Revision version number of AUTOSAR specification on which the appropriate implementation is based on.

Table 4-4. Attribute ArReleaseRevisionVersion (CommonPublishedInformation) detailed description

Property	Value
Label	AUTOSAR Release Revision Version
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false
Default	2
Invalid	Range >=2 <=2
	<=2

## 4.2.4 Moduleld (CommonPublishedInformation)

Module ID of this module from Module List.

Table 4-5. Attribute Moduleld (CommonPublishedInformation) detailed description

Property	Value
Label	Module Id
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false

Table continues on the next page...

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Form CommonPublishedInformation

Table 4-5. Attribute Moduleld (CommonPublishedInformation) detailed description (continued)

Property	Value
Default	0
Invalid	Range >=0 <=0

## 4.2.5 SwMajorVersion (CommonPublishedInformation)

Major version number of the vendor specific implementation of the module. The numbering is vendor specific.

Table 4-6. Attribute SwMajorVersion (CommonPublishedInformation) detailed description

Property	Value
Label	Software Major Version
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false
Default	1
Invalid	Range
	>=1
	<=1

## 4.2.6 SwMinorVersion (CommonPublishedInformation)

Minor version number of the vendor specific implementation of the module. The numbering is vendor specific.

Table 4-7. Attribute SwMinorVersion (CommonPublishedInformation) detailed description

Property	Value
Label	Software Minor Version
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false
Default	0
Invalid	Range >=0 <=0

## 4.2.7 SwPatchVersion (CommonPublishedInformation)

Patch level version number of the vendor specific implementation of the module. The numbering is vendor specific.

Table 4-8. Attribute SwPatchVersion (CommonPublishedInformation) detailed description

Property	Value
Label	Software Patch Version
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false
Default	0
Invalid	Range >=0
	>=0 <=0

## 4.2.8 VendorApiInfix (CommonPublishedInformation)

In driver modules which can be instantiated several times on a single ECU, BSW00347 requires that the name of APIs is extended by the VendorId and a vendor specific name. This parameter is used to specify the vendor specific name. In total, the implementation specific name is generated as follows:

<ModuleName>\_>VendorId>\_<VendorApiInfix><Api name from SWS>. E.g. assuming that the VendorId of the implementor is 123 and the implementer chose a VendorApiInfix of "v11r456" a api name Can\_Write defined in the SWS will translate to Can\_123\_v11r456Write. This parameter is mandatory for all modules with upper multiplicity > 1. It shall not be used for modules with upper multiplicity =1.

Table 4-9. Attribute VendorApiInfix (CommonPublishedInformation) detailed description

Property	Value
Label	Vendor Api Infix
Туре	STRING_LABEL
Origin	Custom
Symbolic Name	false
Default	
Enable	false

## 4.2.9 Vendorld (CommonPublishedInformation)

Vendor ID of the dedicated implementation of this module according to the AUTOSAR vendor list.

Table 4-10. Attribute Vendorld (CommonPublishedInformation) detailed description

Property	Value
Label	Vendor Id
Туре	INTEGER_LABEL
Origin	Custom
Symbolic Name	false
Default	43
Invalid	Range
	>=43 <=43
	<=43

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