Document Title	SWS_FlashTest: Complete Change Documentation 4.3.0 - 4.3.1
Document Owner	AUTOSAR
Document Responsibility	AUTOSAR
Document Identification No	695

Document Status	Final
Part of AUTOSAR Standard	Classic Platform
Part of Standard Release	4.3.1

Table of Contents

1 SWS_FlashTest

1.1 Specification Item ECUC_FlsTst_00101

Trace References:

Content:

Name	FlsTstTestAlgorithmFlsTstBlockFgnd.FlsTstTestAlgorithm		
Parent Container	FlsTstBlockFgnd		
Description	This is the configuration of the test algorithmfor foreground mode and background mode. The availability of algorithm is implementation specific.		
Multiplicity	1		
Type	EcucEnumerationParamDef		
Range	FLSTST_16BIT_CRCFlsTstBlockFgnd.FlsTstTestAlgorithm.FLSTST_16BIT_CRC	–	
	FLSTST_32BIT_CRCFlsTstBlockFgnd.FlsTstTestAlgorithm.FLSTST_32BIT_CRC	–	
	FLSTST_8BIT_CRCFlsTstBlockFgnd.FlsTstTestAlgorithm.FLSTST_8BIT_CRC	–	
	FLSTST_CHECKSUMFlsTstBlockFgnd.FlsTstTestAlgorithm.FLSTST_CHECKSUM	–	
	FLSTST_DUPLICATED_MEMORYFlsTstBlockFgnd.FlsTstTestAlgorithm.FLSTST_DUPLICATED_MEMORY		
	FLSTST_ECCFlsTstBlockFgnd.FlsTstTestAlgorithm.FLSTST_ECC	–	
Post-Build Variant Value	true		
Value Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	–	
	Post-build time	X	VARIANT-POST-BUILD
Scope / Dependency	scope: local		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  _____

  Name: Robert Sakretz

Phone:
Role: WP-M

_____

Description/Motivation:

The configuration container FlsTstBlock is aggregated twice, by:
- FlsTstBlockBgndConfigSet
- FlsTstBlockFgndConfigSet

Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

This RfC should be implemented for R4.4.0 because it changes the configuration structure.

Agreed solution:

Duplicate FlsTstBlock container into:
FlsTstBlockBgnd
FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0' means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.2   Specification Item ECUC_FlsTst_00103

Trace References:

Content:

Container Name	FlsTstBlockBgndConfigSetFlsTstBlockBgndConfigSet

Description	This container defines the blocks in background mode.
	Tags: atp.Status=obsolete atp.StatusRevisionBegin=4.3.1
Configuration Parameters	

Included parameters:

No Included Parameters

Included containers:

No Included Containers		
Container Name	Multiplicity	Scope / Dependency
FlsTstBlock	1..*	This container specifies configuration parameters for an individual test block.

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  _____

  Name: Robert Sakretz
  Phone:
  Role: WP-M

  _____

  Description/Motivation:

  The configuration container FlsTstBlock is aggregated twice, by:
  - FlsTstBlockBgndConfigSet
  - FlsTstBlockFgndConfigSet

  Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

  This RfC should be implemented for R4.4.0 because it changes the configuration structure.

  Agreed solution:

  Duplicate FlsTstBlock container into:
  FlsTstBlockBgnd

FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0'
means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.3   Specification Item ECUC_FlsTst_00104

Trace References:

Content:

Container Name	FlsTstBlockFgndConfigSetFlsTstBlockFgndConfigSet
Description	This container defines the blocks in foreground mode.
	Tags: atp.Status=obsolete atp.StatusRevisionBegin=4.3.1
Configuration Parameters	

Included parameters:

No Included Parameters

Included containers:

No Included Containers		
Container Name	Multiplicity	Scope / Dependency
FlsTstBlock	1..*	This container specifies configuration parameters for an individual test block.

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

Problem description:

————————————————
Name: Robert Sakretz
Phone:
Role: WP-M
————————————————
Description/Motivation:

The configuration container FlsTstBlock is aggregated twice, by:
- FlsTstBlockBgndConfigSet
- FlsTstBlockFgndConfigSet

Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

This RfC should be implemented for R4.4.0 because it changes the configuration structure.

Agreed solution:

Duplicate FlsTstBlock container into:
FlsTstBlockBgnd
FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0' means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.4 Specification Item ECUC_FlsTst_00105

Trace References:

Content:

Container Name	FlsTstBlockFgndFlsTstBlockFgnd
Description	This container specifies configuration parameters for an individual foreground test block.
Configuration Parameters	

Included parameters:

Included Parameters	
Parameter Name	SWS Item ID
FlsTstBlockBaseAddress	ECUC_FlsTst_00106
FlsTstBlockIndex Size	ECUC_FlsTst_00151 00107
FlsTstBlockSize FgndBlockIndex	ECUC_FlsTst_00107 00151
FlsTstSignatureAddress	ECUC_FlsTst_00123
FlsTstTestAlgorithm	ECUC_FlsTst_00101

Included containers:

No Included Containers

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  _____

  Name: Robert Sakretz
  Phone:
  Role: WP-M

  _____

  Description/Motivation:

  The configuration container FlsTstBlock is aggregated twice, by:
  - FlsTstBlockBgndConfigSet
  - FlsTstBlockFgndConfigSet

  Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

  This RfC should be implemented for R4.4.0 because it changes the configuration structure.

Agreed solution:

Duplicate FlsTstBlock container into:
FlsTstBlockBgnd
FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0' means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.5   Specification Item ECUC_FlsTst_00106

Trace References:

Content:

Name	FlsTstBlockBaseAddressFlsTstBlockFgnd.FlsTstBlockBaseAddress		
Parent Container	FlsTstBlockFgnd		
Description	Start Address of the Flash block.		
Multiplicity	1		
Type	EcucIntegerParamDef		
Range	0 .. 18446744073709551615		
Default value	–		
Post-Build Variant Value	true		
Value Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	–	
	Post-build time	X	VARIANT-POST-BUILD
Scope / Dependency	scope: local		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

Problem description:

—————————————————

Name: Robert Sakretz
Phone:
Role: WP-M

—————————————————

Description/Motivation:

The configuration container FlsTstBlock is aggregated twice, by:
- FlsTstBlockBgndConfigSet
- FlsTstBlockFgndConfigSet

Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

This RfC should be implemented for R4.4.0 because it changes the configuration structure.

Agreed solution:

Duplicate FlsTstBlock container into:
FlsTstBlockBgnd
FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0' means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.6   Specification Item ECUC_FlsTst_00107

Trace References:

Content:

Name	FlsTstBlockSizeFlsTstBlockFgnd.FlsTstBlockSize		
Parent Container	FlsTstBlockFgnd		
Description	This parameter shall represent the Flash Test block size.		
Multiplicity	1		
Type	EcucIntegerParamDef		
Range	0 .. 4294967295		
Default value	–		
Post-Build Variant Value	true		
Value Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	–	
	Post-build time	X	VARIANT-POST-BUILD
Scope / Dependency	scope: local		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  ───────────────────────────

  Name: Robert Sakretz
  Phone:
  Role: WP-M

  ───────────────────────────

  Description/Motivation:

  The configuration container FlsTstBlock is aggregated twice, by:
  - FlsTstBlockBgndConfigSet
  - FlsTstBlockFgndConfigSet

  Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

  This RfC should be implemented for R4.4.0 because it changes the configuration structure.

  Agreed solution:

  Duplicate FlsTstBlock container into:
  FlsTstBlockBgnd
  FlsTstBlockFgnd
  with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0'
means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.7   Specification Item ECUC_FlsTst_00123

Trace References:

Content:

Name	FlsTstSignatureAddressFlsTstBlockFgnd.FlsTstSignatureAddress		
Parent Container	FlsTstBlockFgnd		
Description	Address of the signature reference value of the Flash test block.		
Multiplicity	1		
Type	EcucIntegerParamDef		
Range	0 .. 18446744073709551615		
Default value	–		
Post-Build Variant Value	true		
Value Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	–	
	Post-build time	X	VARIANT-POST-BUILD
Scope / Dependency	scope: local		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  _____

  Name: Robert Sakretz
  Phone:
  Role: WP-M

————————————————

Description/Motivation:

The configuration container FlsTstBlock is aggregated twice, by:
- FlsTstBlockBgndConfigSet
- FlsTstBlockFgndConfigSet

Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

This RfC should be implemented for R4.4.0 because it changes the configuration structure.

Agreed solution:

Duplicate FlsTstBlock container into:
FlsTstBlockBgnd
FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0' means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.8   Specification Item ECUC_FlsTst_00151

Trace References:

Content:

Name	FlsTstFgndBlockIndexFlsTstBlockFgnd.FlsTstFgndBlockIndex
Parent Container	FlsTstBlockFgnd

Description	Foreground Test: Index identifies block to be tested by FlsTst_StartFgnd(); Background Test: The scheduling for background test shall follow an order defined by this index. '0' means highest priority.		
Multiplicity	1		
Type	EcucIntegerParamDef (Symbolic Name generated for this parameter)		
Range	0 .. 4294967295		
Default value	–		
Post-Build Variant Value	false		
Value Configuration Class	Pre-compile time	X	All Variants
	Link time	–	
	Post-build time	–	
Scope / Dependency	scope: local		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  ———————————————

  Name: Robert Sakretz
  Phone:
  Role: WP-M

  ———————————————

  Description/Motivation:

  The configuration container FlsTstBlock is aggregated twice, by:
  - FlsTstBlockBgndConfigSet
  - FlsTstBlockFgndConfigSet

  Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

  This RfC should be implemented for R4.4.0 because it changes the configuration structure.

  Agreed solution:

  Duplicate FlsTstBlock container into:
  FlsTstBlockBgnd
  FlsTstBlockFgnd
  with re-use of the existing sub-parameters.

  Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:

- FlsTstFgndBlockIndex

Index identifies block to be tested by FlsTst_StartFgnd()

- FlsTstBgndBlockIndex

The scheduling for background test shall follow an order defined by this index. '0' means highest priority.

–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.9   Specification Item ECUC_FlsTst_00152

Trace References:

Content:

Container Name	FlsTstConfigSetFlsTstConfigSet
Description	This container contains the configuration parameters and sub containers of the AUTOSAR Fls Tst module.
Configuration Parameters	

Included parameters:

Included Parameters	
Parameter Name	SWS Item ID
FlsTstBlockNumberBgnd	ECUC_FlsTst_00122
FlsTstBlockNumberFgnd	ECUC_FlsTst_00124
FlsTstTestCompletedNotification	ECUC_FlsTst_00102

Included containers:

Included Containers		
Container Name	Multiplicity	Scope / Dependency
FlsTstBlockBgnd	0..*	This container specifies configuration parameters for an individual background test block.
FlsTstBlockBgndConfigSet	0..1	This container defines the blocks in background mode. Tags: atp.Status=obsolete atp.Status RevisionBegin=4.3.1

Included Containers		
Container Name	Multiplicity	Scope / Dependency
FlsTstBlockFgnd	0..*	This container specifies configuration parameters for an individual foreground test block.
FlsTstBlockFgndConfigSet	0..1	This container defines the blocks in foreground mode. Tags: atp.Status=obsolete atp.Status RevisionBegin=4.3.1

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  ———————————————

  Name: Robert Sakretz
  Phone:
  Role: WP-M

  ———————————————

  Description/Motivation:

  The configuration container FlsTstBlock is aggregated twice, by:
  - FlsTstBlockBgndConfigSet
  - FlsTstBlockFgndConfigSet

  Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

  This RfC should be implemented for R4.4.0 because it changes the configuration structure.

  Agreed solution:

  Duplicate FlsTstBlock container into:
  FlsTstBlockBgnd
  FlsTstBlockFgnd
  with re-use of the existing sub-parameters.

  Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
  - FlsTstFgndBlockIndex
  Index identifies block to be tested by FlsTst_StartFgnd()
  - FlsTstBgndBlockIndex
  The scheduling for background test shall follow an order defined by this index. '0'

means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.10   Specification Item ECUC_FlsTst_00173

Trace References:

Content:

Container Name	FlsTstBlockBgndFlsTstBlockBgnd
Description	This container specifies configuration parameters for an individual background test block.
Configuration Parameters	

Included parameters:

Included Parameters	
Parameter Name	SWS Item ID
FlsTstBgndBlockIndex	ECUC_FlsTst_00174
FlsTstBlockBaseAddress	ECUC_FlsTst_00106
FlsTstBlockSize	ECUC_FlsTst_00107
FlsTstSignatureAddress	ECUC_FlsTst_00123
FlsTstTestAlgorithm	ECUC_FlsTst_00101

Included containers:

No Included Containers

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

   Problem description:

Name: Robert Sakretz
Phone:
Role: WP-M

Description/Motivation:

The configuration container FlsTstBlock is aggregated twice, by:
- FlsTstBlockBgndConfigSet
- FlsTstBlockFgndConfigSet

Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

This RfC should be implemented for R4.4.0 because it changes the configuration structure.

Agreed solution:

Duplicate FlsTstBlock container into:
FlsTstBlockBgnd
FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0' means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.11   Specification Item ECUC_FlsTst_00174

Trace References:

Content:

Name	FlsTstBgndBlockIndexFlsTstBlockBgnd.FlsTstBgndBlockIndex		
Parent Container	FlsTstBlockBgnd		
Description	The scheduling for background test shall follow an order defined by this index. '0' means highest priority.		
Multiplicity	1		
Type	EcucIntegerParamDef (Symbolic Name generated for this parameter)		
Range	0 .. 4294967295		
Default value	–		
Post-Build Variant Value	false		
Value Configuration Class	Pre-compile time	X	All Variants
	Link time	–	
	Post-build time	–	
Scope / Dependency	scope: local		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #77074: FlsTstBlock configuration used twice in EcuC

  Problem description:

  _____

  Name: Robert Sakretz
  Phone:
  Role: WP-M

  _____

  Description/Motivation:

  The configuration container FlsTstBlock is aggregated twice, by:
  - FlsTstBlockBgndConfigSet
  - FlsTstBlockFgndConfigSet

  Since FlsTstBlock has a symbolicNameParameter (FlsTstBlockIndex) a # define will be generated according to [TPS_ECUC_02108]. This might lead to naming conflicts!

  This RfC should be implemented for R4.4.0 because it changes the configuration structure.

  Agreed solution:

Duplicate FlsTstBlock container into:
FlsTstBlockBgnd
FlsTstBlockFgnd
with re-use of the existing sub-parameters.

Duplicate FlsTstBlockIndex [ECUC_FlsTst_00151]:
- FlsTstFgndBlockIndex
Index identifies block to be tested by FlsTst_StartFgnd()
- FlsTstBgndBlockIndex
The scheduling for background test shall follow an order defined by this index. '0' means highest priority.
–Last change on issue 77074 comment 4–

BW-C-Level:

Application	Specification	Bus
1	4	1

1.12 Specification Item SWS_FlsTst_00049

Trace References:

Content:

For the type FlsTst_StateType, the enumeration value FLSTST_UNINIT shall be the default value after a reset. This enumeration value shall have the numeric value 0.

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76532: MCAL: Numeric value definition

   Problem description:

   General question: Why we need to define in SWS the numeric values e.g. for Enumeration. If we decide to do that it shall be done as part of the table description and it shall be consistently done for all ranges, type etc.

   In general it shall be defined in AUTOSAR whether defined values from UML model shall be extracted to the SWS. Example for a solution is to add the numeric values to the tables in chapter 8.

   Numeric value definitions are redundant for the following items:
   SWS_Spi_00011: After reset, the type Spi_StatusType shall have the default value

SPI_UNINIT with the numeric value 0.()
Reason vor the value is coming from SRS_BSW_00406. This shall be added for traceability.

[SWS_Spi_00012] After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK with the numeric value 0.()
[SWS_Spi_00017] After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK with the numeric value 0.()

Agreed solution:

Replace old description by this text:
[SWS_Spi_00011]: After reset, the type Spi_StatusType shall have the default value SPI_UNINIT.()
[SWS_Spi_00012]: After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK.()
[SWS_Spi_00017]: After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK.()

SWS_Spi_00373:
Spi_StatusType: Table item "SPI_UNINIT" shall have the value "0x00". Generation from UML model;
Traceability to be added to "SRS_BSW_00406, SRS_BSW_00335"

Affected CorTst:
Replace old description by the following :

[SWS_CorTst_00138]
For the type CorTst_ErrOkType, the enumeration value CORTST_E_NOT_TESTED shall be the default value after a reset. CorTstTestIntervalId shall have value zero per default.

Affected FlsTst:
Replace old description by the following :
[SWS_FlsTst_00049] For the type FlsTst_StateType, the enumeration value FLSTST_UNINIT shall be the default value after a reset.
[SWS_FlsTst_00053] For the type FlsTst_TestResultFgndType, the enumeration value FLSTST_NOT_TESTED shall be the default value after a reset.
[SWS_FlsTst_00154] For the type FlsTst_TestResultBgndType, the enumeration value FLSTST_RESULT_NOT_TESTED shall be the default value after a reset.

[SWS_FlsTst_00164] UML shall be updated to generate FLSTST_RESULT_NOT_TESTED with "0" value within this table.

Affected RamTst:

[SWS_RamTst_00006] For the type RamTst_ExecutionStatusType, the enumeration value RAMTST_EXECUTION_UNINIT shall be the default value after a reset.
[SWS_RamTst_00012] For the type RamTst_TestResultType (of the overall test result), the enumeration value RAMTST_RESULT_NOT_TESTED shall be the default value after a reset.
Remove trace to (SRS_BSW_00406)
[SWS_RamTst_00013] For the type RamTst_AlgorithmType, the enumeration value RAMTST_ALGORITHM_UNDEFINED shall be the default value after reset.
Remove trace to (SRS_BSW_00406)

Other MCAL modules:

Dio, Wdg, Ocu are not affected by this.
–Last change on issue 76532 comment 7–

BW-C-Level:

Application	Specification	Bus
1	1	1

1.13 Specification Item SWS_FlsTst_00053

Trace References:

Content:

For the type FlsTst_TestResultFgndType, the enumeration value FLSTST_NOT_TESTED shall be the default value after a reset. This enumeration value shall have the numeric value 0.

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76532: MCAL: Numeric value definition

  Problem description:

  General question: Why we need to define in SWS the numeric values e.g. for Enumeration. If we decide to do that it shall be done as part of the table description and it shall be consistently done for all ranges, type etc.

  In general it shall be defined in AUTOSAR whether defined values from UML

model shall be extracted to the SWS. Example for a solution is to add the numeric values to the tables in chapter 8.

Numeric value definitions are redundant for the following items:
SWS_Spi_00011: After reset, the type Spi_StatusType shall have the default value SPI_UNINIT with the numeric value 0.()
Reason vor the value is coming from SRS_BSW_00406. This shall be added for traceability.

[SWS_Spi_00012] After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK with the numeric value 0.()
[SWS_Spi_00017] After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK with the numeric value 0.()

Agreed solution:

Replace old description by this text:
[SWS_Spi_00011]: After reset, the type Spi_StatusType shall have the default value SPI_UNINIT.()
[SWS_Spi_00012]: After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK.()
[SWS_Spi_00017]: After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK.()

SWS_Spi_00373:
Spi_StatusType: Table item "SPI_UNINIT" shall have the value "0x00". Generation from UML model;
Traceability to be added to "SRS_BSW_00406, SRS_BSW_00335"

Affected CorTst:
Replace old description by the following :

[SWS_CorTst_00138]
For the type CorTst_ErrOkType, the enumeration value CORTST_E_NOT_TESTED shall be the default value after a reset. CorTstTestIntervalId shall have value zero per default.

Affected FlsTst:
Replace old description by the following :
[SWS_FlsTst_00049] For the type FlsTst_StateType, the enumeration value FLSTST_UNINIT shall be the default value after a reset.
[SWS_FlsTst_00053] For the type FlsTst_TestResultFgndType, the enumeration value FLSTST_NOT_TESTED shall be the default value after a reset.
[SWS_FlsTst_00154] For the type FlsTst_TestResultBgndType, the enumeration

value FLSTST_RESULT_NOT_TESTED shall be the default value after a reset.

[SWS_FlsTst_00164] UML shall be updated to generate FLSTST_RESULT_NOT_TESTED with "0" value within this table.

Affected RamTst:
[SWS_RamTst_00006] For the type RamTst_ExecutionStatusType, the enumeration value RAMTST_EXECUTION_UNINIT shall be the default value after a reset.
[SWS_RamTst_00012] For the type RamTst_TestResultType (of the overall test result), the enumeration value RAMTST_RESULT_NOT_TESTED shall be the default value after a reset.
Remove trace to (SRS_BSW_00406)
[SWS_RamTst_00013] For the type RamTst_AlgorithmType, the enumeration value RAMTST_ALGORITHM_UNDEFINED shall be the default value after reset.
Remove trace to (SRS_BSW_00406)

Other MCAL modules:

Dio, Wdg, Ocu are not affected by this.
–Last change on issue 76532 comment 7–

BW-C-Level:

Application	Specification	Bus
1	1	1

1.14 Specification Item SWS_FlsTst_00154

Trace References:

SRS_FlsTst_14225

Content:

For the type FlsTst_TestResultBgndType, the enumeration value FLSTST_RESULT_NOT_TESTED shall be the default value after a reset. This enumeration value shall have the numeric value 0.

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76532: MCAL: Numeric value definition

  Problem description:

Document ID 695: ChangeDocumentation

General question: Why we need to define in SWS the numeric values e.g. for Enumeration. If we decide to do that it shall be done as part of the table description and it shall be consistently done for all ranges, type etc.

In general it shall be defined in AUTOSAR whether defined values from UML model shall be extracted to the SWS. Example for a solution is to add the numeric values to the tables in chapter 8.

Numeric value definitions are redundant for the following items:
SWS_Spi_00011: After reset, the type Spi_StatusType shall have the default value SPI_UNINIT with the numeric value 0.()
Reason vor the value is coming from SRS_BSW_00406. This shall be added for traceability.

[SWS_Spi_00012] After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK with the numeric value 0.()
[SWS_Spi_00017] After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK with the numeric value 0.()

Agreed solution:

Replace old description by this text:
[SWS_Spi_00011]: After reset, the type Spi_StatusType shall have the default value SPI_UNINIT.()
[SWS_Spi_00012]: After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK.()
[SWS_Spi_00017]: After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK.()

SWS_Spi_00373:
Spi_StatusType: Table item "SPI_UNINIT" shall have the value "0x00". Generation from UML model;
Traceability to be added to "SRS_BSW_00406, SRS_BSW_00335"

Affected CorTst:
Replace old description by the following :

[SWS_CorTst_00138]
For the type CorTst_ErrOkType, the enumeration value CORTST_E_NOT_TESTED shall be the default value after a reset. CorTstTestIntervalId shall have value zero per default.

Affected FlsTst:
Replace old description by the following :

[SWS_FlsTst_00049] For the type FlsTst_StateType, the enumeration value FLSTST_UNINIT shall be the default value after a reset.
[SWS_FlsTst_00053] For the type FlsTst_TestResultFgndType, the enumeration value FLSTST_NOT_TESTED shall be the default value after a reset.
[SWS_FlsTst_00154] For the type FlsTst_TestResultBgndType, the enumeration value FLSTST_RESULT_NOT_TESTED shall be the default value after a reset.

[SWS_FlsTst_00164]   UML   shall   be   updated   to   generate FLSTST_RESULT_NOT_TESTED with "0" value within this table.

Affected RamTst:
[SWS_RamTst_00006] For the type RamTst_ExecutionStatusType, the enumeration value RAMTST_EXECUTION_UNINIT shall be the default value after a reset.
[SWS_RamTst_00012] For the type RamTst_TestResultType (of the overall test result), the enumeration value RAMTST_RESULT_NOT_TESTED shall be the default value after a reset.
Remove trace to (SRS_BSW_00406)
[SWS_RamTst_00013] For the type RamTst_AlgorithmType, the enumeration value RAMTST_ALGORITHM_UNDEFINED shall be the default value after reset.
Remove trace to (SRS_BSW_00406)

Other MCAL modules:

Dio, Wdg, Ocu are not affected by this.
–Last change on issue 76532 comment 7–

BW-C-Level:

Application	Specification	Bus
1	1	1

1.15   Specification Item SWS_FlsTst_00164

Trace References:

Content:

Name:	FlsTst_TestResultTypeFlsTst_TestResultType
Type:	Enumeration

Range:	FLSTST_RESULT_NOT_TESTEDFls Tst_TestResult Type.FLSTST_RESULT_NOT_TESTED	– 0x00	There is no test result available.
	FLSTST_RESULT_OKFls Tst_TestResult Type.FLSTST_RESULT_OK	– 0x01	The last Flash Test interval has been tested with OK result
	FLSTST_RESULT_NOT_OKFls Tst_TestResult Type.FLSTST_RESULT_NOT_OK	– 0x02	The last Flash Test interval has been tested with NOT-OK result.
Description:	–		

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76532: MCAL: Numeric value definition

  Problem description:

  General question: Why we need to define in SWS the numeric values e.g. for Enumeration. If we decide to do that it shall be done as part of the table description and it shall be consistently done for all ranges, type etc.

  In general it shall be defined in AUTOSAR whether defined values from UML model shall be extracted to the SWS. Example for a solution is to add the numeric values to the tables in chapter 8.

  Numeric value definitions are redundant for the following items:
  SWS_Spi_00011: After reset, the type Spi_StatusType shall have the default value SPI_UNINIT with the numeric value 0.()
  Reason vor the value is coming from SRS_BSW_00406. This shall be added for traceability.

  [SWS_Spi_00012] After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK with the numeric value 0.()
  [SWS_Spi_00017] After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK with the numeric value 0.()

  Agreed solution:

  Replace old description by this text:
  [SWS_Spi_00011]: After reset, the type Spi_StatusType shall have the default value SPI_UNINIT.()
  [SWS_Spi_00012]: After reset, the type Spi_JobResultType shall have the de-fault value SPI_JOB_OK.()
  [SWS_Spi_00017]: After reset, the type Spi_SeqResultType shall have the de-fault value SPI_SEQ_OK.()

SWS_Spi_00373:
Spi_StatusType: Table item "SPI_UNINIT" shall have the value "0x00". Generation from UML model;
Traceability to be added to "SRS_BSW_00406, SRS_BSW_00335"

Affected CorTst:
Replace old description by the following :

[SWS_CorTst_00138]
For the type CorTst_ErrOkType, the enumeration value CORTST_E_NOT_TESTED shall be the default value after a reset. CorTstTestIntervalId shall have value zero per default.

Affected FlsTst:
Replace old description by the following :
[SWS_FlsTst_00049] For the type FlsTst_StateType, the enumeration value FLSTST_UNINIT shall be the default value after a reset.
[SWS_FlsTst_00053] For the type FlsTst_TestResultFgndType, the enumeration value FLSTST_NOT_TESTED shall be the default value after a reset.
[SWS_FlsTst_00154] For the type FlsTst_TestResultBgndType, the enumeration value FLSTST_RESULT_NOT_TESTED shall be the default value after a reset.

[SWS_FlsTst_00164] UML shall be updated to generate FLSTST_RESULT_NOT_TESTED with "0" value within this table.

Affected RamTst:
[SWS_RamTst_00006] For the type RamTst_ExecutionStatusType, the enumeration value RAMTST_EXECUTION_UNINIT shall be the default value after a reset.
[SWS_RamTst_00012] For the type RamTst_TestResultType (of the overall test result), the enumeration value RAMTST_RESULT_NOT_TESTED shall be the default value after a reset.
Remove trace to (SRS_BSW_00406)
[SWS_RamTst_00013] For the type RamTst_AlgorithmType, the enumeration value RAMTST_ALGORITHM_UNDEFINED shall be the default value after reset.
Remove trace to (SRS_BSW_00406)

Other MCAL modules:

Dio, Wdg, Ocu are not affected by this.
–Last change on issue 76532 comment 7–

Document ID 695: ChangeDocumentation

BW-C-Level:

Application	Specification	Bus
1	1	1