

<b>Document Title</b>	SWS_EEPROMAbstraction: Complete Change Documentation 4.3.0 - 4.3.1
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# 1 SWS\_EEPROMAbstraction

## 1.1 Specification Item ECUC\_Ea\_00130

### Trace References:

none

### Content:

Name	EaBlockNumber		
Description	Block identifier (handle). 0x0000 and 0xFFFF shall not be used for block numbers (see EA006SWS_Ea_00006). Range: min = 2 <sup>N</sup> VM_DATASET_SELECTION_BITS max = 0xFFFF -2 <sup>N</sup> VM_DATASET_SELECTION_BITS Note: Depending on the number of bits set aside for dataset selection several other block numbers shall also be left out to ease implementation.		
Multiplicity	1		
Type	EcucIntegerParamDef (Symbolic Name generated for this parameter)		
Range	1 .. 65534		
Default value	—		
Post-Build Variant Value	false		
Value Configuration Class	Pre-compile time	X	All Variants
	Link time	—	
	Post-build time	—	
Scope / Dependency	scope: ECU		

### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76728: [Ea] Correcting some links, typos

#### Problem description:

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
- The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9—

#### Agreed solution:

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180

SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183

SWS\_Ea\_00161 -> remove reference to EA184

SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006  
–Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.2 Specification Item SWS\_Ea\_00097

**Trace References:**

RS\_BRF\_01056

**Content:**

API function	Description
Det_ReportRuntimeError	Service to report runtime errors. If a callout has been configured then this callout shall be called.
Eep_Cancel	Cancels a running job.
Eep_Erase	Service for erasing EEPROM sections.
Eep_GetJobResult	This service returns the result of the last job.
Eep_GetStatus	Returns the EEPROM status.
Eep_Read	Reads from EEPROM.
Eep_SetMode	Sets the mode.
Eep_Write	Writes to EEPROM.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #59085: Rollout of 'Runtime errors'

**Problem description:**

Inconsistencies in SWS with semantics of Default errors  
–Last change on issue 59085 comment 26–

**Agreed solution:**

solution in Column "G" of the new attachment  
<https://www.autosar.org/bugzilla/attachment.cgi?id=4604>

**Notes:**

- It is not enough just to migrate the error from one classification table to another. Please also check the related requirements (and background information) which is referring to that error and adapt them if needed.
- The review task of the ITs shall be done by the WP to which the specification "belongs".

**\*\*\* BSW UML Model \*\*\***

**SWS\_CanNm:**

**Chapter 8.6.1 Optional Interfaces:**

Add within SWS\_CanNm\_00325 the API function Det\_ReportRunTimeError

**SWS\_LinIf:**

SWS\_LinIf\_00359: add Det\_ReportRuntimeError

**SWS\_UdpNm:**

Replace UDPNM\_E\_NO\_INIT with UDPNM\_E\_UNINIT in description of API  
UdpNm\_MainFunction\_<Instance Id> (SWS\_UdpNm\_00234)

**\*\*\* ECUC XML \*\*\***

Not affected. No configuration of runtime error reporting required (see SWS BSW General).

–Last change on issue 59085 comment 88–

**BW-C-Level:**

Application	Specification	Bus
1	4	1

## 1.3 Specification Item SWS\_Ea\_00158

**Trace References:**

SRS\_MemHwAb\_14029, SRS\_BSW\_00323

**Content:**

If a read request is rejected by the function Ea\_Read, i.e. requirements SWS\_Ea\_00130, SWS\_Ea\_00147, SWS\_Ea\_00167, SWS\_Ea\_00168, SWS\_Ea\_00169, SWS\_Ea\_00170, EA179 or EA180 or SWS\_Ea\_00179 apply, the function Ea\_Read shall not change the current module status or job result.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

**Agreed solution:**

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180  
SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006  
–Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.4 Specification Item SWS\_Ea\_00159

### Trace References:

SRS\_MemHwAb\_14010, SRS\_BSW\_00323

### Content:

If a write request is rejected by the function Ea\_Write, i.e. requirements SWS\_Ea\_00131, SWS\_Ea\_00171, SWS\_Ea\_00148, SWS\_Ea\_00172, EA181 or EA183 or SWS\_Ea\_00181 apply, the function Ea\_Write shall not change the current module status or job result.

### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76728: [Ea] Correcting some links, typos

#### Problem description:

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

#### Agreed solution:

- SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180
  - SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183
  - SWS\_Ea\_00161 -> remove reference to EA184
  - SWS\_Ea\_00162 -> remove reference to EA185
  - SWS\_EA\_00179 -> change to SWS\_Ea\_00179
  - SWS\_EA\_00181 -> change to SWS\_Ea\_00181
  - SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID
  - SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID
  - ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006
- Last change on issue 76728 comment 7–

#### BW-C-Level:

Application	Specification	Bus
1	1	1

## 1.5 Specification Item SWS\_Ea\_00161

### Trace References:

SRS\_BSW\_00323

### Content:

If an invalidation request is rejected by the function Ea\_InvalidateBlock, i.e. requirements SWS\_Ea\_00135, SWS\_Ea\_00149 , or SWS\_Ea\_00175 or EA184 apply, the function Ea\_InvalidateBlock shall not change the current module status or job result.

### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76728: [Ea] Correcting some links, typos

#### Problem description:

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

#### Agreed solution:

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180  
SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006  
–Last change on issue 76728 comment 7–



**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.6 Specification Item SWS\_Ea\_00162

**Trace References:**

SRS\_BSW\_00323

**Content:**

If an erase request for an immediate block is rejected by the function Ea\_EraseImmediateBlock, i.e. requirements SWS\_Ea\_00136, SWS\_Ea\_00176, SWS\_Ea\_00152 , or SWS\_Ea\_00065 or EA185 apply, the function Ea\_EraseImmediateBlock shall not change the current module status or job result.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

**Agreed solution:**

- SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180
- SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183
- SWS\_Ea\_00161 -> remove reference to EA184
- SWS\_Ea\_00162 -> remove reference to EA185
- SWS\_EA\_00179 -> change to SWS\_Ea\_00179
- SWS\_EA\_00181 -> change to SWS\_Ea\_00181
- SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID
- SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after require-

ments ID

ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006

–Last change on issue 76728 comment 7–

#### BW-C-Level:

Application	Specification	Bus
1	1	1

## 1.7 Specification Item SWS\_Ea\_00165

#### Trace References:

SRS\_BSW\_00323

#### Content:

If development error detection is enabled for the module: the The function Ea\_SetMode shall check if the module state is MEMIF\_BUSY. If this is the case, the function Ea\_Set Mode shall raise the development runtime error EA\_E\_BUSY and return to the caller without executing the mode switch.

#### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #59085: Rollout of 'Runtime errors'

#### Problem description:

Inconsistencies in SWS with semantics of Default errors

–Last change on issue 59085 comment 26–

#### Agreed solution:

solution in Column "G" of the new attachment  
<https://www.autosar.org/bugzilla/attachment.cgi?id=4604>

#### Notes:

- It is not enough just to migrate the error from one classification table to another. Please also check the related requirements (and background information) which is referring to that error and adapt them if needed.
- The review task of the ITs shall be done by the WP to which the specification "belongs".

\*\*\* BSW UML Model \*\*\*

SWS\_CanNm:

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### Chapter 8.6.1 Optional Interfaces:

Add within SWS\_CanNm\_00325 the API function Det\_ReportRunTimeError

#### SWS\_LinIf:

---

SWS\_LinIf\_00359: add Det\_ReportRuntimeError

#### SWS\_UdpNm:

---

Replace UDPNM\_E\_NO\_INIT with UDPNM\_E\_UNINIT in description of API UdpNm\_MainFunction\_<Instance Id> (SWS\_UdpNm\_00234)

#### \*\*\* ECUC XML \*\*\*

Not affected. No configuration of runtime error reporting required (see SWS BSW General).

–Last change on issue 59085 comment 88–

#### BW-C-Level:

Application	Specification	Bus
1	4	1

## 1.8 Specification Item SWS\_Ea\_00167

### Trace References:

SRS\_BSW\_00323

### Content:

If development error detection is enabled for the module: the The function Ea\_Read shall check if the module state is MEMIF\_BUSY. If this is the case, the function Ea\_Read shall reject the read request, raise the development runtime error EA\_E\_BUSY and return with E\_NOT\_OK.

### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #59085: Rollout of 'Runtime errors'

#### Problem description:

Inconsistencies in SWS with semantics of Default errors

–Last change on issue 59085 comment 26–

### Agreed solution:

solution in Column "G" of the new attachment  
<https://www.autosar.org/bugzilla/attachment.cgi?id=4604>

### Notes:

- It is not enough just to migrate the error from one classification table to another. Please also check the related requirements (and background information) which is referring to that error and adapt them if needed.
- The review task of the ITs shall be done by the WP to which the specification "belongs".

### \*\*\* BSW UML Model \*\*\*

SWS\_CanNm:

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Chapter 8.6.1 Optional Interfaces:

Add within SWS\_CanNm\_00325 the API function Det\_ReportRuntimeError

SWS\_LinIf:

---

SWS\_LinIf\_00359: add Det\_ReportRuntimeError

SWS\_UdpNm:

---

Replace UDPNM\_E\_NO\_INIT with UDPNM\_E\_UNINIT in description of API  
UdpNm\_MainFunction\_<Instance Id> (SWS\_UdpNm\_00234)

### \*\*\* ECUC XML \*\*\*

Not affected. No configuration of runtime error reporting required (see SWS BSW General).

–Last change on issue 59085 comment 88–

### BW-C-Level:

Application	Specification	Bus
1	4	1

## 1.9 Specification Item SWS\_Ea\_00171

### Trace References:

SRS\_BSW\_00406

**Content:**

If development error detection is enabled for the module: the The function Ea\_Write shall check if the module state is MEMIF\_BUSY. If this is the case, the function Ea\_Write shall reject the write request, raise the development runtime error EA\_E\_BUSY and return with E\_NOT\_OK.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #59085: Rollout of 'Runtime errors'

**Problem description:**

Inconsistencies in SWS with semantics of Default errors  
–Last change on issue 59085 comment 26–

**Agreed solution:**

solution in Column "G" of the new attachment  
<https://www.autosar.org/bugzilla/attachment.cgi?id=4604>

**Notes:**

- It is not enough just to migrate the error from one classification table to another. Please also check the related requirements (and background information) which is referring to that error and adapt them if needed.
- The review task of the ITs shall be done by the WP to which the specification "belongs".

\*\*\* BSW UML Model \*\*\*

SWS\_CanNm:

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Chapter 8.6.1 Optional Interfaces:

Add within SWS\_CanNm\_00325 the API function Det\_ReportRunTimeError

SWS\_LinIf:

---

SWS\_LinIf\_00359: add Det\_ReportRuntimeError

SWS\_UdpNm:

---

Replace UDPNM\_E\_NO\_INIT with UDPNM\_E\_UNINIT in description of API  
UdpNm\_MainFunction\_<Instance Id> (SWS\_UdpNm\_00234)

\*\*\* ECUC XML \*\*\*

Not affected. No configuration of runtime error reporting required (see SWS BSW General).

–Last change on issue 59085 comment 88–

**BW-C-Level:**

Application	Specification	Bus
1	4	1

## 1.10 Specification Item SWS\_Ea\_00173

**Trace References:**

SRS\_BSW\_00323

**Content:**

If **development error detection is enabled for the module**: If the **the** current module status is not MEMIF\_BUSY (i.e. there is no job to cancel and therefore the request to cancel a pending job is rejected by the function Ea\_Cancel), the function Ea\_Cancel shall raise the **development runtime** error EA\_E\_INVALID\_CANCEL.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #59085: Rollout of 'Runtime errors'

**Problem description:**

Inconsistencies in SWS with semantics of Default errors

–Last change on issue 59085 comment 26–

**Agreed solution:**

solution in Column "G" of the new attachment  
<https://www.autosar.org/bugzilla/attachment.cgi?id=4604>

**Notes:**

- It is not enough just to migrate the error from one classification table to another. Please also check the related requirements (and background information) which is referring to that error and adapt them if needed.
- The review task of the ITs shall be done by the WP to which the specification "belongs".

\*\*\* BSW UML Model \*\*\*

SWS\_CanNm:

\_\_\_\_\_

Chapter 8.6.1 Optional Interfaces:

Add within SWS\_CanNm\_00325 the API function Det\_ReportRunTimeError

SWS\_LinIf:

\_\_\_\_\_

SWS\_LinIf\_00359: add Det\_ReportRuntimeError

SWS\_UdpNm:

\_\_\_\_\_

Replace UDPNM\_E\_NO\_INIT with UDPNM\_E\_UNINIT in description of API  
UdpNm\_MainFunction\_<Instance Id> (SWS\_UdpNm\_00234)

\*\*\* ECUC XML \*\*\*

Not affected. No configuration of runtime error reporting required (see SWS BSW  
General).

–Last change on issue 59085 comment 88–

**BW-C-Level:**

Application	Specification	Bus
1	4	1

## 1.11 Specification Item SWS\_Ea\_00175

**Trace References:**

SRS\_BSW\_00323

**Content:**

If development error detection is enabled for the module: the **The** function Ea\_InvalidateBlock shall check if the module state is MEMIF\_BUSY. If this is the case, the function Ea\_InvalidateBlock shall reject the invalidation request, raise the **development runtime** error EA\_E\_BUSY and return with E\_NOT\_OK.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #59085: Rollout of 'Runtime errors'

**Problem description:**

Inconsistencies in SWS with semantics of Default errors

–Last change on issue 59085 comment 26–

**Agreed solution:**

solution in Column "G" of the new attachment  
<https://www.autosar.org/bugzilla/attachment.cgi?id=4604>

**Notes:**

- It is not enough just to migrate the error from one classification table to another. Please also check the related requirements (and background information) which is referring to that error and adapt them if needed.
- The review task of the ITs shall be done by the WP to which the specification "belongs".

\*\*\* BSW UML Model \*\*\*

SWS\_CanNm:

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Chapter 8.6.1 Optional Interfaces:

Add within SWS\_CanNm\_00325 the API function Det\_ReportRunTimeError

SWS\_LinIf:

---

SWS\_LinIf\_00359: add Det\_ReportRuntimeError

SWS\_UdpNm:

---

Replace UDPNM\_E\_NO\_INIT with UDPNM\_E\_UNINIT in description of API  
UdpNm\_MainFunction\_<Instance Id> (SWS\_UdpNm\_00234)

\*\*\* ECUC XML \*\*\*

Not affected. No configuration of runtime error reporting required (see SWS BSW General).

–Last change on issue 59085 comment 88–

**BW-C-Level:**

Application	Specification	Bus
1	4	1



## 1.12 Specification Item SWS\_Ea\_00176

### Trace References:

SRS\_BSW\_00323

### Content:

If development error detection is enabled for the module: the function Ea\_EraseImmediateBlock shall check if the module state is MEMIF\_BUSY. If this is the case, the function Ea\_EraseImmediateBlock shall reject the erase request, raise the development runtime error EA\_E\_BUSY and return with E\_NOT\_OK.

### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #59085: Rollout of 'Runtime errors'

#### Problem description:

Inconsistencies in SWS with semantics of Default errors  
–Last change on issue 59085 comment 26–

#### Agreed solution:

solution in Column "G" of the new attachment  
<https://www.autosar.org/bugzilla/attachment.cgi?id=4604>

#### Notes:

- It is not enough just to migrate the error from one classification table to another. Please also check the related requirements (and background information) which is referring to that error and adapt them if needed.
- The review task of the ITs shall be done by the WP to which the specification "belongs".

\*\*\* BSW UML Model \*\*\*

SWS\_CanNm:

\_\_\_\_\_

Chapter 8.6.1 Optional Interfaces:

Add within SWS\_CanNm\_00325 the API function Det\_ReportRunTimeError

SWS\_LinIf:

\_\_\_\_\_

SWS\_LinIf\_00359: add Det\_ReportRuntimeError

SWS\_UdpNm:

Replace UDPNM\_E\_NO\_INIT with UDPNM\_E\_UNINIT in description of API UdpNm\_MainFunction\_<Instance Id> (SWS\_UdpNm\_00234)

\*\*\* ECUC XML \*\*\*

Not affected. No configuration of runtime error reporting required (see SWS BSW General).

–Last change on issue 59085 comment 88–

#### BW-C-Level:

Application	Specification	Bus
1	4	1

- RfC #76874: [Ea] Set MEMIF\_BUSY module state in Ea\_InvalidateBlock and in Ea\_EraseImmediateBlock

#### Problem description:

SWS\_Ea\_00194 is a new requirement in AR 4.3.0 for Ea\_InvalidateBlock. Basically the pair of SWS\_Ea\_00025 for Ea\_Write, and SWS\_Ea\_00022 for Ea\_Read.

1. Why is SWS\_Ea\_00194 lack of mentioning that "set Ea module status to MEMIF\_BUSY, set the job result to MEMIF\_JOB\_PENDING"?
2. Why is similar requirement missing for Ea\_EraseImmediateBlock?

#### Agreed solution:

Change SWS\_Ea\_00194

from

< The function Ea\_InvalidateBlock shall check if the module state is MEMIF\_IDLE or MEMIF\_BUSY\_INTERNAL. If this is the case the module shall accept the invalidation request and shall return E\_OK to the caller.

< The block invalidation shall be executed asynchronously in the module's main function as soon as the module has finished the internal management operation.

to

> The function Ea\_InvalidateBlock shall check if the module state is MEMIF\_IDLE or MEMIF\_BUSY\_INTERNAL. If this is the case the module shall accept the invalidation request, set the EA module status to MEMIF\_BUSY, set the job result to MEMIF\_JOB\_PENDING and return E\_OK to the caller.

(delete the second sentence of the requirement, since this is given in SWS\_Ea\_00195 below)

Change SWS\_Ea\_00176

from

> If development error detection is enabled for the module: the function Ea\_EraseImmediateBlock shall check if the module state is MEMIF\_BUSY. If this is the case, the function Ea\_EraseImmediateBlock shall reject > the erase request, raise the development error EA\_E\_BUSY and return with E\_NOT\_OK.

to

< The function Ea\_EraseImmediateBlock shall check if the module state is MEMIF\_BUSY. If this is the case, the function shall reject the erase request and return with E\_NOT\_OK. If development error detection is

< enabled for the module, the function shall raise the development error EA\_E\_BUSY."

–Last change on issue 76874 comment 16–

#### BW-C-Level:

Application	Specification	Bus
1	1	1

## 1.13 Specification Item SWS\_EA\_00179

#### Trace References:

[SRS\\_MemHwAb\\_14029](#)

#### Content:

If the current module status is MEMIF\_UNINIT or MEMIF\_BUSY, the function Ea\_Read shall reject the job request and return with E\_NOT\_OK.

#### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76728: [Ea] Correcting some links, typos

#### Problem description:

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).

- The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).

(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)

–Last change on issue 76728 comment 9–

#### Agreed solution:

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180

SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006  
–Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.14 Specification Item SWS\_Ea\_00179

**Trace References:**

[SRS\\_MemHwAb\\_14029](#)

**Content:**

If the current module status is MEMIF\_UNINIT or MEMIF\_BUSY, the function Ea\_Read shall reject the job request and return with E\_NOT\_OK.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

**Agreed solution:**

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180  
SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006  
–Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.15 Specification Item SWS\_EA\_00181

**Trace References:**

SRS\_MemHwAb\_14010

**Content:**

If the current module status is MEMIF\_UNINIT or MEMIF\_BUSY, the function Ea\_Write shall reject the job request and return with E\_NOT\_OK.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]".)
- Last change on issue 76728 comment 9–

**Agreed solution:**

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180  
SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006  
-Last change on issue 76728 comment 7-

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.16 Specification Item SWS\_Ea\_00181

**Trace References:**

SRS\_MemHwAb\_14010

**Content:**

If the current module status is MEMIF\_UNINIT or MEMIF\_BUSY, the function Ea\_Write shall reject the job request and return with E\_NOT\_OK.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
- The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).

(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").  
–Last change on issue 76728 comment 9–

**Agreed solution:**

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180

SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183

SWS\_Ea\_00161 -> remove reference to EA184

SWS\_Ea\_00162 -> remove reference to EA185

SWS\_EA\_00179 -> change to SWS\_Ea\_00179

SWS\_EA\_00181 -> change to SWS\_Ea\_00181

SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID

SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID

ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006

–Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.17 Specification Item SWS\_Ea\_00188

**Trace References:**

[SRS\\_MemHwAb\\_14014](#)

**Content:**

If an internal management operation has been suspended because of a job request from the upper layer, the function Ea\_MainFunction shall resume this internal management operation once the job requested by the upper layer has been finished.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).

- The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

**Agreed solution:**

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180  
SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006

–Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.18 Specification Item SWS\_EA\_00188

**Trace References:**

[SRS\\_MemHwAb\\_14014](#)

**Content:**

If an internal management operation has been suspended because of a job request from the upper layer, the function Ea\_MainFunction shall resume this internal management operation once the job requested by the upper layer has been finished.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**



## AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

**Agreed solution:**

SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180  
SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006

–Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.19 Specification Item SWS\_Ea\_00189

**Trace References:**

[SRS\\_MemHwAb\\_14014](#)

**Content:**

If an internal management operation has been aborted because of a job request from the upper layer, the function Ea\_MainFunction shall restart this internal management operation once the job requested by the upper layer has been finished.

**RfCs affecting this spec item between releases 4.3.0 and 4.3.1:**

- RfC #76728: [Ea] Correcting some links, typos

### Problem description:

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
- The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9-

### Agreed solution:

- SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180
- SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183
- SWS\_Ea\_00161 -> remove reference to EA184
- SWS\_Ea\_00162 -> remove reference to EA185
- SWS\_EA\_00179 -> change to SWS\_Ea\_00179
- SWS\_EA\_00181 -> change to SWS\_Ea\_00181
- SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID
- SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID
- ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006
- Last change on issue 76728 comment 7-

### BW-C-Level:

Application	Specification	Bus
1	1	1

## 1.20 Specification Item SWS\_EA\_00189

### Trace References:

[SRS\\_MemHwAb\\_14014](#)

### Content:

If an internal management operation has been aborted because of a job request from the upper layer, the function Ea\_MainFunction shall restart this internal management operation once the job requested by the upper layer has been finished.

### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76728: [Ea] Correcting some links, typos

**Problem description:**

AR 4.3.0.

- In SWS\_Ea\_00159 there is a link to the non-existing EA183, as EA183 was removed (maybe in other places too?).
  - The requirement tags are different in the range of SWS\_EA\_00179-SWS\_EA\_00189 from the rest of the document(s).  
(Would you mind to change them? Like "[SWS\_EA\_00188]:" to "[SWS\_Ea\_00188]").)
- Last change on issue 76728 comment 9–

**Agreed solution:**

- SWS\_Ea\_00158 -> change reference from EA179 to SWS\_Ea\_00179, remove reference to EA180  
SWS\_Ea\_00159 -> change reference from EA181 to SWS\_Ea\_00181, remove reference to EA183  
SWS\_Ea\_00161 -> remove reference to EA184  
SWS\_Ea\_00162 -> remove reference to EA185  
SWS\_EA\_00179 -> change to SWS\_Ea\_00179  
SWS\_EA\_00181 -> change to SWS\_Ea\_00181  
SWS\_EA\_00188 -> change to SWS\_Ea\_00188 and remove colon after requirements ID  
SWS\_EA\_00189 -> change to SWS\_Ea\_00189 and remove colon after requirements ID  
ECUC\_Ea\_00130 -> replace EA006 with SWS\_Ea\_00006
- Last change on issue 76728 comment 7–

**BW-C-Level:**

Application	Specification	Bus
1	1	1

## 1.21 Specification Item SWS\_Ea\_00194

**Trace References:**

SRS\_MemHwAb\_14028

**Content:**

The function Ea\_InvalidateBlock shall check if the module state is MEMIF\_IDLE or MEMIF\_BUSY\_INTERNAL. If this is the case the module shall accept the invalidation request and shall , set the Ea module status to MEMIF\_BUSY, set the job result to

MEMIF\_JOB\_PENDING and return E\_OK to the caller. The block invalidation shall be executed asynchronously in the module's main function as soon as the module has finished the internal management operation.

#### RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #76874: [Ea] Set MEMIF\_BUSY module state in Ea\_InvalidateBlock and in Ea\_EraseImmediateBlock

#### Problem description:

SWS\_Ea\_00194 is a new requirement in AR 4.3.0 for Ea\_InvalidateBlock. Basically the pair of SWS\_Ea\_00025 for Ea\_Write, and SWS\_Ea\_00022 for Ea\_Read.

1. Why is SWS\_Ea\_00194 lack of mentioning that "set Ea module status to MEMIF\_BUSY, set the job result to MEMIF\_JOB\_PENDING"?
2. Why is similar requirement missing for Ea\_EraseImmediateBlock?

#### Agreed solution:

Change SWS\_Ea\_00194

from

< The function Ea\_InvalidateBlock shall check if the module state is MEMIF\_IDLE or MEMIF\_BUSY\_INTERNAL. If this is the case the module shall accept the invalidation request and shall return E\_OK to the caller.

< The block invalidation shall be executed asynchronously in the module's main function as soon as the module has finished the internal management operation.  
to

> The function Ea\_InvalidateBlock shall check if the module state is MEMIF\_IDLE or MEMIF\_BUSY\_INTERNAL. If this is the case the module shall accept the invalidation request, set the EA module status to MEMIF\_BUSY, set the job result to MEMIF\_JOB\_PENDING and return E\_OK to the caller.

(delete the second sentence of the requirement, since this is given in SWS\_Ea\_00195 below)

Change SWS\_Ea\_00176

from

> If development error detection is enabled for the module: the function Ea\_EraseImmediateBlock shall check if the module state is MEMIF\_BUSY. If this is the case, the function Ea\_EraseImmediateBlock shall reject > the erase request, raise the development error EA\_E\_BUSY and return with E\_NOT\_OK.

to

< The function Ea\_EraseImmediateBlock shall check if the module state is MEMIF\_BUSY. If this is the case, the function shall reject the erase request and return with E\_NOT\_OK. If development error detection is

< enabled for the module, the function shall raise the development error  
EA\_E\_BUSY."

–Last change on issue 76874 comment 16–

**BW-C-Level:**

Application	Specification	Bus
1	1	1