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

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

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1 SRS_IOHWAbsraction

1.1 Specification Item SRS_IoHwAb_12453

Trace References:

RS_BRF_01952, RS_BRF_01184

Content:

| | |
|-----------------------------|---|
| Type: | Valid |
| Description: | In case power control on the peripherals is implemented, IoHwAbstractions shall define an API for each application Power Mode, in which all peripheral power state transitions relevant to the given application power mode are made effective. |
| Rationale: | It is necessary to create an encapsulation which allows to map an application power mode, eventually valid for different ECUs on the vehicle system, to the power state of each peripheral on each ECU. In this way the setting phase for a given power mode can be atomically executed, so that all HW peripheral transition to the valid power state synchronously. |
| Applies to: | |
| Use Case: | — |
| Supporting Material: | Concept Proposal 596: ECU Degradation |

RfCs affecting this spec item between releases 4.3.0 and 4.3.1:

- RfC #78796: CP_R4.3.1 Document finalization

Problem description:

- 1) The change history entry needs to be updated for CP Release 4.3.1.
- 2) For Word documents: A document shall meet formal requirements before releasing.
- 3) Hiding of internal document change history
- 4) For MOD files: Adaption of "_readme.txt"
- 5) For documents delivered as ZIP archive: Usage of current AUTOSAR XML schema in every arxml file

Agreed solution:

In case that your document has not been changed since last release, please leave a short comment in your implementation task and set it to closed/invalid.

Please note: the following changes shall be done when all the changes of your document are clear (for R4.3.1)!

ad 1)

Please insert a change history entry for document finalization at the beginning of the Document Change History table in your document and use the following content:

| | | | |
|------------|---------|----------------------------|--------------------|
| Date | Release | Changed by | Change Description |
| 2017-12-08 | 4.3.1 | AUTOSAR Release Management | [cd] |

A) In case your document has been changed since last release, the Change Description [cd] comprises up to 4 bullet points describing the major changes from Release 4.3.0 to Release 4.3.1. The description shall contain no references to Bugzilla issue numbers. This text will make up the Change History of the to-be-released document. Please

state major changes with a high impact (e.g. high BWC or usage) or put this standard entry: "minor corrections / clarifications / editorial changes; For details please refer to the ChangeDocumentation"

B) In case your document will be released for the first time, please use as Change Description [cd] the entry "Initial release".

C) In case your document has been already released (in another standard), please put as first line of Change Description [cd] the following:
–Migration of document to standard "Classic Platform"–

ad 2)

*** For Word documents ***

Please check your document once more against this checklist:

https://svn.autosar.org/repos/work/02_ProjectOrganization/06_Templates/AUTOSAR_Checklist_F

Please verify also the PDF file as this is the one which will be released (it is automatically generated right next to the Word source document within four hours).

ad 3)

If not already done, please hide the whole internal document change history.

Please check the PDF file and ensure that nothing of the internal document change history is shown. Especially in case of remaining bullet points, please follow this instruction to get rid of those in your Word document, as well:

https://www.autosar.org/wiki/doku.php?id=collab_guide:hide_internal_changehistory_man

ad 4)

*** For MOD documents only ***

Please create or adapt the folder "contents". That folder shall include all files which

will be used for the release R4.3.1 (zip-archive). That folder shall also include the two files: "_disclaimer.txt" and "_readme.txt"

The file "_readme.txt" shall include (besides existing information):

- Document Title: DOC LONG NAME
- Document Owner: AUTOSAR
- Document Responsibility: AUTOSAR
- Document Identification Number: UID
- Document Status: Final
- Part of AUTOSAR Standard: Classic Platform
- Part of AUTOSAR Release: 4.3.1
- Date: 2017-12-08

ad 5)

*** For documents delivered as ZIP archive ***

In case the archive contains arxml files, please check whether every arxml file references the current AUTOSAR XML schema:

xsi:schemaLocation="http://autosar.org/schema/r4.0 AUTOSAR_00044.xsd"

If another schema location is given, please contact technical.office@autosar.org.

BW-C-Level:

| Application | Specification | Bus |
|-------------|---------------|-----|
| 1 | 1 | 1 |

1.2 Specification Item SRS_IoHwAb_12454

Trace References:

RS_BRF_01952, RS_BRF_01184

Content:

| | |
|--------------|---|
| Type: | Valid |
| Description: | In case power control on the peripherals is implemented, IoHw Abstraction shall define an API for each application Power Mode, in which all peripheral power state transitions relevant to the given application power mode are to be prepared (power state preparation). |

| | |
|----------------------|--|
| Rationale: | It is necessary to create an encapsulation which allows to map an application power mode, eventually valid for different ECUs on the vehicle system, to the power state of each peripheral on each ECU. In this way the preparation phase for a given power mode can be atomically executed. |
| Use Case: | — |
| Dependencies: | — |
| Supporting Material: | Concept Proposal 596: ECU Degradation |

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|----------------------|---|
| Type: | Valid |
| Description: | In case power control on the peripherals is implemented, IoHw Abstraction shall define an API for each application Power Mode, in which all peripheral power state transitions relevant to the given application power mode are made effective. |
| Rationale: | It is necessary to create an encapsulation which allows to map an application power mode, eventually valid for different ECUs on the vehicle system, to the power state of each peripheral on each ECU. In this way the setting phase for a given power mode can be atomically executed, so that all HW peripheral transition to the valid power state synchronously. |
| Use Case: | — |
| Dependencies: | — |
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| Use Case: | — |
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- RfC #78796: CP_R4.3.1 Document finalization

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- Document Title: DOC LONG NAME
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- Document Responsibility: AUTOSAR
- Document Identification Number: UID
- Document Status: Final
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ad 5)

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In case the archive contains arxml files, please check whether every arxml file references the current AUTOSAR XML schema:

xsi:schemaLocation="http://autosar.org/schema/r4.0 AUTOSAR_00044.xsd"

If another schema location is given, please contact technical.office@autosar.org.

BW-C-Level:

| Application | Specification | Bus |
|-------------|---------------|-----|
| 1 | 1 | 1 |