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Table of Contents

1	RS_Methodology	3
1.1	Specification Item RS_METH_00062	3
1.2	Specification Item RS_METH_00074	4
1.3	Specification Item RS_METH_00075	6
1.4	Specification Item RS_METH_00076	8
1.5	Specification Item RS_METH_00203	9
1.6	Specification Item RS_METH_00208	11

1 RS_Methodology

1.1 Specification Item RS_METH_00062

Trace References:

RS_Main_00080, RS_Main_00360

Content:

Type:	valid
Description:	The AUTOSAR methodology shall support allow system development with different combinations of configuration classes variant handling support .
Rationale:	Configuration The configuration of parameters can be performed in different process steps : pre-compile , link time , and post-build at different times .
AppliesTo:	CP, AP
Use Case:	OEM configuration of (post-build) data after a release from a Tier1 Tier 1 supplier.
Supporting Material:	—

RfCs affecting this spec item between releases 1.4.0 and 1.5.0:

- RfC #80500: Variant handling requirements shall be made available to CP and AP

Problem description:

The variant handling requirements of the current document FO_RS_Methodology_362 shall be made available to both platforms, the Classic Platform as well as the Adaptive Platform.

Agreed solution:

1) Move the sub-section 'Variant Handling Requirements' from the section 'Requirements for the Classic Platform' to the section 'General Requirements', including all enclosed requirements.

2) Changes of RS_METH_00062:

Description:

The AUTOSAR methodology shall allow system development with variant handling support.

Rationale:

The configuration of parameters can be performed in different process steps at

different times.

Use Case:

OEM configuration of (post-build) data after a release from a Tier 1 supplier.

Handling information related to different configuration items (units for version control).

Applies to:

CP,AP

3) Change of RS_METH_00074:

Applies to:

CP,AP

4) Change of RS_METH_00075:

Applies to:

CP,AP

5) Change of RS_METH_00076:

Applies to:

CP,AP

BW-C-Level:

Application	Specification	Bus
1	1	1

1.2 Specification Item RS_METH_00074

Trace References:

RS_Main_00360

Content:

Type:	valid
Description:	The AUTOSAR Methodology shall specify particular points in the workflow on which variation can be resolved.
Rationale:	Need for a stable reference on Binding times.
AppliesTo:	CP, AP
Use Case:	During the development of an AUTOSAR System and ECU, specific variants need to be created, and eventual chosen, e.g pre-compile, or post-build.
Supporting Material:	—

RfCs affecting this spec item between releases 1.4.0 and 1.5.0:

- RfC #80500: Variant handling requirements shall be made available to CP and AP

Problem description:

The variant handling requirements of the current document FO_RS_Methodology_362 shall be made available to both platforms, the Classic Platform as well as the Adaptive Platform.

Agreed solution:

1) Move the sub-section 'Variant Handling Requirements' from the section 'Requirements for the Classic Platform' to the section 'General Requirements', including all enclosed requirements.

2) Changes of RS_METH_00062:

Description:

The AUTOSAR methodology shall allow system development with variant handling support.

Rationale:

The configuration of parameters can be performed in different process steps at different times.

Use Case:

OEM configuration of (post-build) data after a release from a Tier 1 supplier.
Handling information related to different configuration items (units for version control).

Applies to:

CP,AP

3) Change of RS_METH_00074:

Applies to:
CP,AP

4) Change of RS_METH_00075:

Applies to:
CP,AP

5) Change of RS_METH_00076:

Applies to:
CP,AP

BW-C-Level:

Application	Specification	Bus
1	1	1

1.3 Specification Item RS_METH_00075

Trace References:

RS_Main_00360

Content:

Type:	valid
Description:	The AUTOSAR Methodology shall specify particular tasks/activities in which variation will be resolved.
Rationale:	Need for clarification of methodology of variants.
AppliesTo:	CP, AP
Use Case:	If two software components provide the same interface in different variants of the system, a task is needed to select the one provider to resolve that system variant.
Supporting Material:	—

RfCs affecting this spec item between releases 1.4.0 and 1.5.0:

- RfC #80500: Variant handling requirements shall be made available to CP and AP

Problem description:

The variant handling requirements of the current document FO_RS_Methodology_362 shall be made available to both platforms, the Classic Platform as well as the Adaptive Platform.

Agreed solution:

1) Move the sub-section 'Variant Handling Requirements' from the section 'Requirements for the Classic Platform' to the section 'General Requirements', including all enclosed requirements.

2) Changes of RS_METH_00062:

Description:

The AUTOSAR methodology shall allow system development with variant handling support.

Rationale:

The configuration of parameters can be performed in different process steps at different times.

Use Case:

OEM configuration of (post-build) data after a release from a Tier 1 supplier.

Handling information related to different configuration items (units for version control).

Applies to:

CP,AP

3) Change of RS_METH_00074:

Applies to:

CP,AP

4) Change of RS_METH_00075:

Applies to:

CP,AP

5) Change of RS_METH_00076:

Applies to:

CP,AP

BW-C-Level:

Application	Specification	Bus
1	1	1

1.4 Specification Item RS_METH_00076

Trace References:

RS_Main_00360

Content:

Type:	valid
Description:	AUTOSAR Methodology shall specify particular work products to maintain the values of variant selectors.
Rationale:	This makes it clear where the values for variant selectors are stored and maintained.
AppliesTo:	CP, AP
Use Case:	The possible variants are known up front: they are created at a certain time and owned as a work product, and finally consumed when the variant is selected.
Supporting Material:	—

RfCs affecting this spec item between releases 1.4.0 and 1.5.0:

- RfC #80500: Variant handling requirements shall be made available to CP and AP

Problem description:

The variant handling requirements of the current document FO_RS_Methodology_362 shall be made available to both platforms, the Classic Platform as well as the Adaptive Platform.

Agreed solution:

1) Move the sub-section 'Variant Handling Requirements' from the section 'Requirements for the Classic Platform' to the section 'General Requirements', including all enclosed requirements.

2) Changes of RS_METH_00062:

Description:

The AUTOSAR methodology shall allow system development with variant handling support.

Rationale:

The configuration of parameters can be performed in different process steps at different times.

Use Case:

OEM configuration of (post-build) data after a release from a Tier 1 supplier.

Handling information related to different configuration items (units for version control).

Applies to:

CP,AP

3) Change of RS_METH_00074:

Applies to:

CP,AP

4) Change of RS_METH_00075:

Applies to:

CP,AP

5) Change of RS_METH_00076:

Applies to:

CP,AP

BW-C-Level:

Application	Specification	Bus
1	1	1

1.5 Specification Item RS_METH_00203

Trace References:

RS_Main_00503

Content:

Type:	valid
Description:	The manifest contains all necessary information that is needed in order to integrate applications onto the Adaptive Platform. The methodology shall explain how this information will be collected, for the machine, the service instances as well as for the application itself, and later on how the manifest will be used for configuration purposes.
Rationale:	Methodology consistency using the Manifest Specification
AppliesTo:	AP
Use Case:	The Application Execution Manifest is used for describing all process related aspects of an executable.
Supporting Material:	—

RfCs affecting this spec item between releases 1.4.0 and 1.5.0:

- RfC #80502: Make TR_METH_00208 also a requirement for AP

Problem description:

The requirement RS_METH_00208 shall also be made available to the Adaptive Platform (AP).

Agreed solution:

1) Move RS_METH_00208 to section 'General Requirements/Main Requirements'

2) Changes of RS_METH_00208:

Header:

The methodology shall support the data exchange between different stakeholders

Description:

AUTOSAR shall define an exchange format for data exchange between different stakeholders during the development of AUTOSAR-based vehicles.

The exchange format shall cover the description of software, network topology and network communication.

Dependencies:

RS_METH_00203

Applies to:

CP,AP

Use case:

An OEM provides a software interface description and network communication description and delivers it to a supplier for the development and integration.

3) Changes to RS_METH_00203:

Rename Application Manifest to Execution Manifest

–Last change on issue 80502 comment 3–

BW-C-Level:

Application	Specification	Bus
1	1	1

1.6 Specification Item RS_METH_00208

Trace References:

RS_Main_00300, RS_Main_00150

Content:

Type:	valid
Description:	The AUTOSAR templates include numerous features shall define an exchange format for data exchange between different stakeholders during the system design, the software component, the ECU configuration etcdevelopment of AUTOSAR-based vehicles. The methodology exchange format shall clearly describe cover the activities to use/modify these description of software, network topology and which activities require them to be completed before commencingnetwork communication.
Rationale:	Usage of AUTOSAR templates in the development process
AppliesTo:	CP, AP
Use Case:	Usage of the SW-C template: An existing OEM provides a software component is implemented interface description and is network communication description and delivers it to be integrated into a suppliers ECU. A description of supplier for the component is needed in order to correctly integrate that component into the ECUdevelopment and integration.
Supporting Material:	–

RfCs affecting this spec item between releases 1.4.0 and 1.5.0:

- RfC #80502: Make TR_METH_00208 also a requirement for AP

Problem description:

The requirement RS_METH_00208 shall also be made available to the Adaptive Platform (AP).

Agreed solution:

- 1) Move RS_METH_00208 to section 'General Requirements/Main Requirements'
- 2) Changes of RS_METH_00208:

Header:

The methodology shall support the data exchange between different stakeholders

Description:

AUTOSAR shall define an exchange format for data exchange between different stakeholders during the development of AUTOSAR-based vehicles.

The exchange format shall cover the description of software, network topology and network communication.

Dependencies:

RS_METH_00203

Applies to:

CP,AP

Use case:

An OEM provides a software interface description and network communication description and delivers it to a supplier for the development and integration.

- 3) Changes to RS_METH_00203:

Rename Application Manifest to Execution Manifest

—Last change on issue 80502 comment 3—

BW-C-Level:

Application	Specification	Bus
1	1	1