

<b>Document Title</b>	SWS_FunctionInhibitionManager: Complete Change Documentation 4.3.0 - 4.3.1
<b>Document Owner</b>	AUTOSAR
<b>Document Responsibility</b>	AUTOSAR
<b>Document Identification No</b>	695

<b>Document Status</b>	Final
<b>Part of AUTOSAR Standard</b>	Classic Platform
<b>Part of Standard Release</b>	4.3.1

## Table of Contents

1	SWS_FunctionInhibitionManager	3
1.1	Specification Item ECUC_FiM_00100	3
1.2	Specification Item ECUC_FiM_00102	5
1.3	Specification Item ECUC_FiM_00605	7
1.4	Specification Item SWS_Fim_00079	9
1.5	Specification Item SWS_Fim_00081	9

# 1 SWS\_FunctionInhibitionManager

## 1.1 Specification Item ECUC\_FiM\_00100

### Trace References:

none

### Content:

Name	FiMInhEventRefFiMinhibitionConfiguration.FiMInhEventRef		
Parent Container	FiMinhibitionConfiguration		
Description	Selection of an single DEM Event. <i>At least one FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef needs to be configured.</i>		
Multiplicity	0..*		
Type	Symbolic name reference to [ DemEventParameter ]		
Post-Build Variant Multiplicity	true		
Post-Build Variant Value	true		
Multiplicity Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	-	
	Post-build time	X	VARIANT-POST-BUILD
Value Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	-	
	Post-build time	X	VARIANT-POST-BUILD
Scope / Dependency	scope: local <i>dependency: FiMInhSumRef</i>		

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

- RfC #75045: [Cleanup] Cleanup Constraint Handling in SWS items: Rollout replacement of dependencies by constraints

#### Problem description:

AUTOSAR specified in the field "Dependency" in the chapter 10 description in an informal way dependencies between different configuration parameters. On the other hand some constraints are created in single BSW modules with the same namespace as the metamodel constraints. This should be cleaned up (see presentation in the attachment).

#### Agreed solution:

Rollout to replace in each SWS the dependencies by constraints (could be done step by step, not mandatory in one release)

When all SWS specifications are cleaned up the dependency field can be removed from the database

## FIM

Remove dependency and in the following configuration parameters and remove the following text from the description field "At least one FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef needs to be configured." :

FiMInhEventRef [ECUC\_FiM\_00100]  
 FiMInhSumRef [ECUC\_FiM\_00102]  
 FiMInhComponentRef [ECUC\_FiM\_00605]

Create chapter 7.4 Configuration Constraints

Add new constraints :

SWS\_FIM\_CONSTR\_XXX1 : For each configured FiMinhibitionConfiguration, at least one of FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef shall be configured.

## DEM

see file under svn.:

[https://svn.autosar.org/repos/work/09\\_WorkPackages/WP-A4/70\\_InternalDocuments/048\\_Dependency\\_Removal/DCM\\_Dem\\_Dependency\\_Removal.xlsx](https://svn.autosar.org/repos/work/09_WorkPackages/WP-A4/70_InternalDocuments/048_Dependency_Removal/DCM_Dem_Dependency_Removal.xlsx)

## DCM

See file under svn :

[https://svn.autosar.org/repos/work/09\\_WorkPackages/WP-A4/70\\_InternalDocuments/048\\_Dependency\\_Removal/DCM\\_Dem\\_Dependency\\_Removal.xlsx](https://svn.autosar.org/repos/work/09_WorkPackages/WP-A4/70_InternalDocuments/048_Dependency_Removal/DCM_Dem_Dependency_Removal.xlsx)

## Rte

RteDevErrorDetectUninit: SWS\_RTE\_CONSTR\_XXX1: In case that RteDevErrorDetectUninit is configured to true, RteDevErrorDetect shall be configured to true.  
 –Last change on issue 75045 comment 21–

### BW-C-Level:

Application	Specification	Bus
1	1	1

## 1.2 Specification Item ECUC\_FiM\_00102

### Trace References:

none

### Content:

Name	FiMInhSumRefFiMinhibitionConfiguration.FiMInhSumRef		
Parent Container	FiMinhibitionConfiguration		
Description	Selection of a summarized Event. <i>At least one FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef needs to be configured.</i>		
Multiplicity	0..*		
Type	Reference to [ FIMSummaryEvent ]		
Post-Build Variant Multiplicity	true		
Post-Build Variant Value	true		
Multiplicity Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	-	
	Post-build time	X	VARIANT-POST-BUILD
Value Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	-	
	Post-build time	X	VARIANT-POST-BUILD
Scope / Dependency	scope: local <i>dependency: FiMInhEventRef</i>		

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

- RfC #75045: [Cleanup] Cleanup Constraint Handling in SWS items: Rollout replacement of dependencies by constraints

#### Problem description:

AUTOSAR specified in the field "Dependency" in the chapter 10 description in an informal way dependencies between different configuration parameters. On the other hand some constraints are created in single BSW modules with the same namespace as the metamodel constraints. This should be cleaned up (see presentation in the attachment).

#### Agreed solution:

Rollout to replace in each SWS the dependencies by constraints (could be done step by step, not mandatory in one release)

When all SWS specifications are cleaned up the dependency field can be removed from the database

## FIM

Remove dependency and in the following configuration parameters and remove the following text from the description field "At least one FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef needs to be configured." :

FiMInhEventRef [ECUC\_FiM\_00100]  
 FiMInhSumRef [ECUC\_FiM\_00102]  
 FiMInhComponentRef [ECUC\_FiM\_00605]

Create chapter 7.4 Configuration Constraints

Add new constraints :

SWS\_FIM\_CONSTR\_XXX1 : For each configured FiMinhibitionConfiguration, at least one of FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef shall be configured.

## DEM

see file under svn.:

[https://svn.autosar.org/repos/work/09\\_WorkPackages/WP-A4/70\\_InternalDocuments/048\\_Dependency\\_Removal/DCM\\_Dem\\_Dependency\\_Removal.xlsx](https://svn.autosar.org/repos/work/09_WorkPackages/WP-A4/70_InternalDocuments/048_Dependency_Removal/DCM_Dem_Dependency_Removal.xlsx)

## DCM

See file under svn :

[https://svn.autosar.org/repos/work/09\\_WorkPackages/WP-A4/70\\_InternalDocuments/048\\_Dependency\\_Removal/DCM\\_Dem\\_Dependency\\_Removal.xlsx](https://svn.autosar.org/repos/work/09_WorkPackages/WP-A4/70_InternalDocuments/048_Dependency_Removal/DCM_Dem_Dependency_Removal.xlsx)

## Rte

RteDevErrorDetectUninit: SWS\_RTE\_CONSTR\_XXX1: In case that RteDevErrorDetectUninit is configured to true, RteDevErrorDetect shall be configured to true.  
 –Last change on issue 75045 comment 21–

### **BW-C-Level:**

Application	Specification	Bus
1	1	1

### 1.3 Specification Item ECUC\_FiM\_00605

#### Trace References:

none

#### Content:

Name	FiMInhComponentRefFiMinhibitionConfiguration.FiMInhComponentRef		
Parent Container	FiMinhibitionConfiguration		
Description	Reference to a DemComponent which is necessary for function permission. <span style="color: red;">At least one FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef needs to be configured.</span>		
Multiplicity	0..*		
Type	Reference to [ DemComponent ]		
Post-Build Variant Multiplicity	true		
Post-Build Variant Value	true		
Multiplicity Configuration Class	Pre-compile time	X	VARIANT-PRE-COMPILE
	Link time	-	
	Post-build time	X	VARIANT-POST-BUILD
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 #75045: [Cleanup] Cleanup Constraint Handling in SWS items: Rollout replacement of dependencies by constraints

#### Problem description:

AUTOSAR specified in the field "Dependency" in the chapter 10 description in an informal way dependencies between different configuration parameters. On the other hand some constraints are created in single BSW modules with the same namespace as the metamodel constraints. This should be cleaned up (see presentation in the attachment).

#### Agreed solution:

Rollout to replace in each SWS the dependencies by constraints (could be done step by step, not mandatory in one release)

When all SWS specifications are cleaned up the dependency field can be removed from the database

## FIM

Remove dependency and in the following configuration parameters and remove the following text from the description field "At least one FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef needs to be configured." :

FiMInhEventRef [ECUC\_FiM\_00100]  
 FiMInhSumRef [ECUC\_FiM\_00102]  
 FiMInhComponentRef [ECUC\_FiM\_00605]

Create chapter 7.4 Configuration Constraints

Add new constraints :

SWS\_FIM\_CONSTR\_XXX1 : For each configured FiMinhibitionConfiguration, at least one of FiMInhSumRef or FiMInhEventRef or FiMInhComponentRef shall be configured.

## DEM

see file under svn.:

[https://svn.autosar.org/repos/work/09\\_WorkPackages/WP-A4/70\\_InternalDocuments/048\\_Dependency\\_Removal/DCM\\_Dem\\_Dependency\\_Removal.xlsx](https://svn.autosar.org/repos/work/09_WorkPackages/WP-A4/70_InternalDocuments/048_Dependency_Removal/DCM_Dem_Dependency_Removal.xlsx)

## DCM

See file under svn :

[https://svn.autosar.org/repos/work/09\\_WorkPackages/WP-A4/70\\_InternalDocuments/048\\_Dependency\\_Removal/DCM\\_Dem\\_Dependency\\_Removal.xlsx](https://svn.autosar.org/repos/work/09_WorkPackages/WP-A4/70_InternalDocuments/048_Dependency_Removal/DCM_Dem_Dependency_Removal.xlsx)

## Rte

RteDevErrorDetectUninit: SWS\_RTE\_CONSTR\_XXX1: In case that RteDevErrorDetectUninit is configured to true, RteDevErrorDetect shall be configured to true.  
 –Last change on issue 75045 comment 21–

### BW-C-Level:

Application	Specification	Bus
1	1	1

## 1.4 Specification Item SWS\_Fim\_00079

### Trace References:

none

### Content:

API function	Description
Dem_GetEventUdsMonitorStatus	Gets the current UDS status byte assigned to the DTC for the eventmonitor status for an event.
SchM_ActMainFunction_FiM	Invokes the SchM_ActMainFunction function to trigger the activation of a corresponding main processing function.
SchM_CancelMainFunction_FiM	Invokes the SchM_CancelMainFunction function to trigger the cancellation of the requested activation of a corresponding main processing function.

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

- RfC #76456: Mandatory interfaces wrong

#### Problem description:

In SWS\_Fim\_00079 the API Dem\_GetEventUdsStatus is mentioned. This is a left-over from RfC # 51629, it shall actually be Dem\_GetMonitorStatus.

#### Agreed solution:

In SWS\_Fim\_00079, replace Dem\_GetEventUdsStatus by Dem\_GetMonitorStatus.

Update of column description for Dem\_GetMonitorStatus

Gets the current monitor status for an event.

–Last change on issue 76456 comment 4–

#### BW-C-Level:

Application	Specification	Bus
1	1	1

## 1.5 Specification Item SWS\_Fim\_00081

### Trace References:

none

### Content:

Module	Imported Type

Module	Imported Type
Dem	Dem_ComponentIdType
	Dem_EventIdType
	Dem_UdsStatusByteMonitorStatusType
SchM	SchM_ReturnType
Std_Types	Std_ReturnType
	Std_VersionInfoType

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

- RfC #76456: Mandatory interfaces wrong

**Problem description:**

In SWS\_Fim\_00079 the API Dem\_GetEventUdsStatus is mentioned. This is a left-over from RfC # 51629, it shall actually be Dem\_GetMonitorStatus.

**Agreed solution:**

In SWS\_Fim\_00079, replace Dem\_GetEventUdsStatus by Dem\_GetMonitorStatus.

Update of column description for Dem\_GetMonitorStatus

Gets the current monitor status for an event.

–Last change on issue 76456 comment 4–

**BW-C-Level:**

Application	Specification	Bus
1	1	1