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| **CanSMIf SW Detailed Design** | |
| **Summary** | Software Detailed Design Document of the CanSMIf Component |

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| --- | --- | --- |
| **Author** | **Review** | **Approval** |
| Title: Andreea Suiu | See Project Master Document for the roles and Project Members List for the name of people | See Project Master Document for the roles and Project Members List for the name of people |
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# General Information

## Revision history \*

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Author(s)** | **Description/comment** |
| 1.0. | 08.12.2022 | Andreea Suiu | First revision. |
| 1.1. | 21.12.2022 | Andreea Suiu | Second revision. |
|  |  |  |  |

*\* Template history is found in the CM tool used for templates*

## Purpose and Scope

The purpose of this document is to provide an overview of the CanSMIf SW Component operation principle, and to present the implementation choices in terms of module and function splitting.

## Referenced documents

### External documents

|  |  |  |
| --- | --- | --- |
| **Id** | **Title** | **Reference** |
|  |  |  |
|  |  |  |
|  |  |  |

### Internal Documents

|  |  |  |
| --- | --- | --- |
| **Id** | **Title** | **Reference** |
|  |  |  |
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## Terminology and definitions

The generic acronyms are available in the [AEM process and method wiki](https://alvteams.alv.autoliv.int/sites/aeuaeequalityassurance/AEM%20Process%20wiki/acronyms.aspx)

|  |  |
| --- | --- |
| **Terminology** | **Meaning** |
| AAU | Atomic architectural unit |
| SW | software |
|  |  |

# SW Module Detailed Design

## Overview

The aim of the CanSMIf component is to indicate state changes to BswM.

## Traceability

# Features

## Services

### BswM\_CanSM\_CurrentState

|  |  |  |  |
| --- | --- | --- | --- |
| Object | | | |
| Function used to indicate state changes to BswM. | | | |
| **Prototype** | | | |
| extern FUNC(void, BSWM\_CODE) BswM\_CanSM\_CurrentState (NetworkHandleType Network, CanSM\_BswMCurrentStateType CurrentState) | | | |
| **Detailed Design Requirement** | | | |
| DSG\_CanSMIf\_BswM\_CanSM\_CurrentState | | | |
| **Architecture Requirement** | | | |
| ARCH\_SW\_CanSMIf\_BswM\_CanSM\_CurrentState | | | |
| **Input parameters** | | | |
| Name | Type | Description | Range |
| Network | NetworkHandleType | the identifier of a communication channel | NA |
| **Output parameters** | | | |
| Name | Type | Description | Range |
| CurrentState | CanSM\_BswMCurrentStateType | current state to BswM | NA |
| **Return value** | | | |
| Type | Description | | |
| NA | NA | | |
| **Dynamic aspect** | | | |
| Who (callers) | Description | | |
| CanSM\_TS\_TxDxM3I6R0 module | Called in BSWM\_CANSM\_CURRENTSTATE function | | |
| **Static aspect** | | | |
| \* | | | |
| **Constrains** | | | |
|  | | | |

## Variabiles

## Macros

# EEPROM

# Configuration

# Compilation Options