Définition du style : Exi_trace

LLR DOC

OVSP – MODES

SOFTWARE DETAILED DESIGN DESCRIPTION

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1. MODES REQUIREMENTS SPECIFICATION

1.1. COMMON DESIGN AND PHYSICAL CONSTRAINTS

The Modes component doesn't contain any requirement or constraint which concern several or all functionalities simultaneously.~~This paragraph gathers requirements and constraints, which concern several or all functionalities simultaneously.~~

1.2. MODES_GET_SW_MODE

1.2.1. Modes_Get_SW_Mode

This function provides the s~~S~~oftware mode.

1.2.1.1. Parameters and Return Value

Parameters

- Function ~~return :~~return: The ~~OVSP~~ software mode ~~{V_Modes_SW_Mode}~~ (TE_Modes_SW_Mode)

Pre-conditions on parameters

None

1.2.1.2. Called Functions

None

1.2.1.3. Input/Output Data

Data

- IN: {V_Modes_SW_Mode}

Pre-conditions on data

None

a mis en forme : Anglais (États-Unis)

a mis en forme : Anglais (États-Unis)

1.2.1.4. Requirements

REQ-SDDD_Modes_Get_SW_Mode_0001-01

Modes_Get_SW_Mode

	Causes
Effects	~~ALWAYS~~Always
	Return {V_Modes_SW_Mode}

Traceability	*Derived*
Rationale	*T~~t~~his function is used to determine the Software mode to apply and provides it to the other features allowing them to adapt their behaviour~~This function is needed to provide the Software mode.~~*
Verification Method	*Test*

[END_REQ]

a mis en forme : Retrait : Gauche : 1 cm, Suspendu : 3,4 cm

1.3. MODES_INITIALIZE

1.3.1. Modes_Initialize

This function initializes the Modes CSC.

1.3.1.1. Parameters and Return Value

Parameters

- Function return: Not used.

Pre-conditions on parameters

None

1.3.1.2. Called Functions

None

1.3.1.3. Input/Output Data

Data

- OUT: {V_Modes_SW_Mode}

Pre-conditions on data

None

1.3.1.4. Requirements

REQ-SDDD_Modes_Initialize_0001-01

[COV.REQ_OVSP_SRD-00001]

Modes_Initialize

	Causes
Effects	AlwaysALWAYS
	Set {V_Modes_SW_Mode} to E_Modes_Init

Traceability *Refined*
Rationale *-*
Verification Method *Test*

[END_REQ]

a mis en forme le tableau

1.4. MODES_MANAGE_DEGRADED_TR

1.4.1. Modes_Manage_Degraded_Tr

This function manages the SW software mMode transition in dDegraded mode.

1.4.1.1. Parameters and Return Value

Parameters

- Function return: Not usedused.

Pre-conditions on parameters

None

1.4.1.2. Called Functions

Calls

- CBIT_Get_Test_Result
- Config_Get_Integrity_Status
- DrvFTM_Start_NxOSy_Acq

Post-conditions

None

1.4.1.3. Input/Output Data

Data

- IN/OUT: {V_Modes_SW_Mode}

Pre-conditions on data

None

1.4.1.4. Requirements

REQ-SDDD_Modes_Manage_Degraded_Tr_0001-01

[COV.REQ_OVSP_SRD-00004COV.REQ_OVSP_SRD-00007; COV.REQ_OVSP_SRD-00004; COV.REQ_OVSP_SRD-00021]

Modes_Manage_Degraded_Tr

<table>
<tr><th></th><th colspan="3">Causes</th></tr>
<tr><td rowspan="5">Effects</td><td colspan="3">AlwaysALWAYS</td></tr>
<tr><td colspan="3">[Get the CBIT Test Result][Provide the CBIT tTest rResult]</td></tr>
<tr><td>“CBIT Test Resultv_CBIT_Result”{V_CBIT_Test_Result} is equal to E_CBIT_Fatal_Error</td><td colspan="2">All the other cases</td></tr>
<tr><td rowspan="3">Set {V_Modes_SW_Mode} to E_Modes_Fail</td><td colspan="2">[Get the OVSP Config table Integrity Status]</td></tr>
<tr><td>“OVSP Config table Integrity Statusv_OVSP_Config_Validity” {V_Config_OVSP_Cfg_Integrity} is equal to E_Config_Integrity_OK</td><td>All the other cases</td></tr>
<tr><td>Set {V_Modes_SW_Mode} to E_Modes_Operational
CALL CallCALL
DrvFTM_Start_NxOSy_Acq</td><td>No effect</td></tr>
</table>

[Get the CBIT Test Result] [Provide the CBIT tTest rResult]: corresponds to the following CALL:

- CALL **CBIT_Get_Test_Result** with the following parameters:
  - **RETURN Function return**: “CBIT Test Resultv_CBIT_Result”{V_CBIT_Test_Result}

[Get the OVSP Config table Integrity Status] [Provide the OVSP cConfig table iIntegrity sStatus]: corresponds to the following CALL:

- CALL **Config_Get_Integrity_Status** with the following parameters:
  - **RETURN Function return**: “OVSP Config table Integrity Statusv_OVSP_Config_Validity”{V_Config_OVSP_Cfg_Integrity}

Traceability	*Refined*
Rationale	*-*
Verification Method	*Test*

[END_REQ]

a mis en forme le tableau

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

1.5. MODES_MANAGE_INIT_TR

1.5.1. Modes_Manage_Init_Tr

This function manages the SW software mMode transition in iInit mode.

1.5.1.1. Parameters and Return Value

Parameters

- Function return: Not used.

Pre-conditions on parameters

None

1.5.1.2. Called Functions

Calls

- Boot_Get_Side_Id
- PBIT_Get_Test_Result
- Config_Get_Integrity_Status
- DrvFTM_Start_NxOSy_Acq

~~**Post-conditions**~~

~~None~~

1.5.1.3. Input/Output Data

Data

- OUT: {V_Modes_SW_Mode}

Pre-conditions on data

None

1.5.1.4. Requirements

a mis en forme : Pas de saut de page avant, Pas de paragraphes solidaires, Pas de lignes solidaires

REQ-SDDD_Modes_Manage_Init_Tr_00015-01

a mis en forme : Pas de paragraphes solidaires

[COV.REQ_OVSP_SRD-00001; COV.REQ_OVSP_SRD-00002; COV.REQ_OVSP_SRD-00004; COV.REQ_OVSP_SRD-00021]

Modes_Manage_Init_Tr

a mis en forme : Pas de paragraphes solidaires

<table>
<tr><td></td><td colspan="3">Causes</td></tr>
<tr><td rowspan="6">Effects</td><td colspan="3">Always</td></tr>
<tr><td colspan="3">[Get the OVSP side identification]
[Get the PBIT test result]</td></tr>
<tr><td>“OVSP Side Identification” is equal to BOOT_SIDE_ID_INVALID OR “PBIT test Result” is equal to E_PBIT_Failed</td><td colspan="2">All the other cases</td></tr>
<tr><td rowspan="3">Set {V_Modes_SW_Mode} to E_Modes_Fail</td><td colspan="2">[Get the OVSP config table integrity status]</td></tr>
<tr><td>“OVSP Config table Integrity Status” is equal to E_Config_Integrity_KO</td><td>All the other cases</td></tr>
<tr><td>Set {V_Modes_SW_Mod</td><td>Set {V_Modes_SW_Mode} to E_Modes_Operational</td></tr>
</table>

		e} to E_Modes_Degraded	CALL **DrvFTM_Start_NxOSy_Acq**
	Causes		
Effects	AlwaysALWAYS		
	[GetProvide the OVSP side identification] [Provide Get the PBIT tTest rResult]		
	"OVSP Side Identificationv_OVSP_Side_Id{V_Boot_OVSP_Side_Id}" is equal to BOOT_SIDE_ID_INVALID OR "PBIT test Resultv_PBIT_Result{V_PBIT_Test_Result}" is equal to E_PBIT_Failed	All the other cases	
	Set {V_Modes_SW_Mode} to E_Modes_Fail	[Provide Get the OVSP cConfig table iIntegrity sStatus]	
		"OVSP Config table Integrity Status" is equal to E_Config_Integrity_KO	All the other cases
		Set {V_Modes_SW_Mode} to E_Modes_Degraded	Set {V_Modes_SW_Mode} to E_Modes_Operational CALL **DrvFTM_Start_NxOSy_Acq**

[Provide Get the OVSP side identification]: corresponds to the following CALL:

- CALL **Boot_Get_Side_Id** with the following parameters:
  - **RETURN Function return**: "OVSP Side Identificationv_OVSP_Side_Id"{V_Boot_OVSP_Side_Id}

[Provide Get the PBIT tTest rResult]: corresponds to the following CALL:

- CALL **PBIT_Get_Test_Result** with the following parameters:
  - **RETURN Function return**: "PBIT test Resultv_PBIT_Result" {V_PBIT_Test_Result}

[Provide Get the OVSP cConfig table iIntegrity sStatus]: corresponds to the following CALL:

- CALL **Config_Get_Integrity_Status** with the following parameters:
  - **RETURN Function return**: "OVSP Config table Integrity Statusv_OVSP_Config_Validity"{V_Config_OVSP_Cfg_Integrity}

Traceability	*Refined*
Rationale	*-*
Verification Method	*Test*

[END_REQ]

1.6. MODES_MANAGE_OPERATIONAL_TR

1.6.1. Modes_Manage_Operational_Tr

This function manages the SW software mMode transition in oOperational mode.

a mis en forme : Pas de paragraphes solidaires
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Pas de paragraphes solidaires
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Pas de paragraphes solidaires, Lignes solidaires
a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces, Éviter veuves et orphelines, Lignes solidaires
a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Pas de paragraphes solidaires, Lignes solidaires
a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces, Éviter veuves et orphelines, Lignes solidaires
a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces
a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

1.6.1.1. Parameters and Return Value

Parameters

- Function return: Not ~~used~~used.

Pre-conditions on parameters

None

1.6.1.2. Called Functions

Calls

- CBIT_Get_Test_Result
- Config_Get_Integrity_Status
- DrvFTM_Stop_NxOSy_Acq
- CAN_Get_TriggTest_Cmd
- OVSP_Get_Engine_SpeedLevel
- CAN_Get_Test_Speed
- ~~DrvFTM_Stop_NxOSy_Acq~~
- DrvFTM_Manage_TSpeed

~~**Post-conditions**~~

~~None~~

1.6.1.3. Input/Output Data

Data

- IN/OUT: {V_Modes_SW_Mode}

Pre-conditions on data

None

1.6.1.4. Requirements

REQ-SDDD_Modes_Manage_Operational_Tr_0001-01

[COV.REQ_OVSP_SRD-00007; COV.REQ_OVSP_SRD-00021; COV.REQ_OVSP_SRD-00005]
[COV.REQ_OVSP_SRD-00007; COV.REQ_OVSP_SRD-00021; COV.REQ_OVSP_SRD-00005]COV.REQ_OVSP_SRD-00003; COV.REQ_OVSP_SRD-00007; COV.REQ_OVSP_SRD-00069; COV.REQ_OVSP_SRD-00007]

Modes_Manage_Operational_Tr

<table>
<tr><th colspan="4">Causes</th></tr>
<tr><td rowspan="8">Effects</td><td colspan="3">AlwaysALWAYS</td></tr>
<tr><td colspan="3">[Get the CBIT Test Result][Provide the CBIT tTest rResult]</td></tr>
<tr><td>“CBIT Test Resultv_CBIT_Result{V_CBIT_Test_Result}” is equal to E_CBIT_Fatal_Error</td><td colspan="2">All the other cases</td></tr>
<tr><td rowspan="6">Set {V_Modes_SW_Mode} to E_Modes_Fail</td><td colspan="2">[Provide Get the OVSP cConfig table iIntegrity sStatus]</td></tr>
<tr><td>“OVSP Config table Integrity Statusv_OVSP_Config_Validity”{V_Config_OVSP_Cfg_Integrity} is equal to E_Config_Integrity_KO</td><td>All the other cases</td></tr>
<tr><td rowspan="4">Set {V_Modes_SW_Mode} to E_Modes_Degraded</td><td>[Provide Get the CAN tTriggered tTest command]
[Provide Get the eEngine sSpeed lLevel]</td></tr>
<tr><td>“CAN Triggered Test commandv_TriggTest_Cmd{V_CAN_TriggTest_cmd}” is equal to E_CAN_TriggTest_On AND “Engine Speed Levelv_Engine_SpeedLevel” {V_OVSP_Context_Out.V_Engine_SpeedLevel} is equal to E_OVSP_SW_Low_Speed</td><td>All the other cases</td></tr>
<tr><td>CallALLCALL DrvFTM_Stop_NxOSy_Acq</td><td>Set {V_Modes_SW_Mode} to E_Modes_TriggeredTest
[Provide Get the CAN tTriggered tTest speed]
CallALLCALL DrvFTM_Stop_NxOSy_Acq
CallALLCALL DrvFTM_Manage_TSpeed with IN “CAN Triggered Test speedv_TriggTest_Speed”[Manage the Test Speed]</td><td>No effect</td></tr>
</table>

[Get the CBIT Test Result] [Provide the CBIT tTest rResult]: corresponds to the following CALL:

- CALL **CBIT_Get_Test_Result** with the following parameters:

a mis en forme le tableau

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces

– **RETURN Function return**: "CBIT Test Resultv_CBIT_Result"{V_CBIT_Test_Result}

[Get the OVSP config table integrity status] **[**Provide the OVSP cConfig table iIntegrity sStatus**]:** corresponds to the following CALL:

- CALL **Config_Get_Integrity_Status** with the following parameters:
  - **RETURN Function return:** "OVSP Config table Integrity Statusv_OVSP_Config_Validity"{V_Config_OVSP_Cfg_Integrity}

[Get the CAN triggered test command] **[**Provide the CAN tTriggered tTest command**]:** corresponds to the following CALL:

- CALL **CAN_Get_TriggTest_Cmd** with the following parameters:
  - **RETURN Function return:** "CAN Triggered Test commandv_TriggTest_Cmd"{V_CAN_TriggTest_cmd}

[Get the engine speed level] **[**Provide the eEngine sSpeed lLevel**]:** corresponds to the following CALL:

- CALL **OVSP_Get_Engine_SpeedLevel** with the following parameters:
  - **RETURN Function return:** "Engine Speed Levelv_Engine_SpeedLevel"{V_OVSP_Context_Out.V_Engine_SpeedLevel}

[Get the CAN triggered test speed] **[**Provide the CAN tTriggered tTest speed**]:** corresponds to the following CALL:

- CALL **CAN_Get_Test_Speed** with the following parameters:
  - **RETURN Function return**: "CAN Triggered Test speedv_TriggTest_Speed"{V_CAN_Test_Speed.U_Value_32BitFloat}

[Manage the Test Speed**]:** corresponds to the following CALL

- CALL **DrvFTM_Manage_TSpeed** with the following parameters:
  - **IN**: {V_CAN_Test_Speed.U_Value_32BitFloat}

Traceability	*Refined*
Rationale	*-*
Verification Method	*Test*

[END_REQ]

1.7. MODES_MANAGE_TRIGGTEST_TR

1.7.1. Modes_Manage_TriggTest_Tr

This function manages the SW software mMode transition in TtTriggered TtTest mode.

1.7.1.1. Parameters and Return Value

Parameters

- Function return: Not usedused.

Pre-conditions on parameters

None

1.7.1.2. Called Functions

Calls

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,4 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Exi_texte

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

- CBIT_Get_Test_Result
- CAN_Get_TriggTest_Cmd
- Boot_Get_Side_Id
- DrvGPIO_Write
- DrvFTM_Stop_CAM_Generation
- DrvFTM_Stop_Tspeed
- DrvFTM_Init_TSpeedOut_Values
- DrvFTM_Start_NxOSy_Acq
- CAN_Reset_TestDiscrete_Cmd
- CAN_Get_Test_Speed
- DrvFTM_Manage_TSpeed

~~**Post-conditions**~~

~~None~~

1.7.1.3. Input/Output Data

Data

- IN/OUT: {V_Modes_SW_Mode}

Pre-conditions on data

None

1.7.1.4. Requirements

REQ-SDDD_Modes_Manage_TriggTest_Tr_0001-01

[COV.REQ_OVSP_SRD-00007; COV.REQ_OVSP_SRD-00021; COV.REQ_OVSP_SRD-00006; COV.REQ_OVSP_SRD-00069~~COV.REQ_OVSP_SRD-00006; COV.REQ_OVSP_SRD-00007~~]

a mis en forme : Lignes solidaires

Modes_Manage_TriggTest_Tr

	Causes			
Effects	AlwaysALWAYS			
	[Provide Get the CBIT tTest rResult]			
	"CBIT Test Resultv_CBIT_Result{V_CBIT_Test_Result}" is equal to E_CBIT_Fatal_Error	All the other cases		
	Set {V_Modes_SW_Mode} to E_Modes_Fail	[Provide Get the CAN tTriggered tTest command]		
		"CAN Triggered Test commandv_TriggTest_Cmd{V_CAN_TriggTest_cmd}" is equal to E_CAN_TriggTest_Off	All the other cases	
		Set {V_Modes_SW_Mode} to E_Modes_Operational [Provide Get the OVSP side identification]		
		"OVSP side identificationv_OVSP_Side_Id{V_Boot_OVSP_Side_Id}" is equal to BOOT_SIDE_ID_LS	All the other cases	
		CALL **DrvGPIO_Write** with **IN** DRVGPIO_OUT_CAM_CMD1 and E_OVSP_SW_Cmd_Off[Write the CAM first command on the dDiscrete output]	Call CALL ALL **DrvFTM_Stop_CAM_Generation**	[Provide Get the CAN tTriggered tTest speed] CALLallCALL **DrvFTM_Manage_TSpeed** with **IN** "CAN Triggered Test speedv_TriggTest_Speed"[Manage the test speed]
		CallALLCALL **DrvFTM_Stop_Tspeed** CALL **DrvFTM_Init_TSpeedOut_Values** CALL Call CALL **DrvFTM_Start_NxOSy_Acq** CALL **DrvGPIO_Write** with **IN** DRVGPIO_OUT_CAM_CMD2 and E_OVSP_SW_Cmd_Off[Write the CAM second command on the dDiscrete output] CALL **DrvGPIO_Write** with **IN** DRVGPIO_OUT_DOUTINHIB and E_OVSP_SW_Cmd_Off[Write the DOUTINHIB command on the dDiscrete output] CALL **DrvGPIO_Write** with **IN** DRVGPIO_OUT_OSARM_CMD and E_OVSP_SW_Cmd_Off[Write the OSARM command on the dDiscrete output] CALL Call CALL **CAN_Reset_TestDiscrete_Cmd**		

[Get the CBIT test result] [Provide the CBIT tTest rResult]: corresponds to the following CALL:

CALL **CBIT_Get_Test_Result** with the following parameters:

- **RETURN** **Function return**: "CBIT Test Resultv_CBIT_Result"{V_CBIT_Test_Result}

a mis en forme : Lignes solidaires
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Gras
a mis en forme : Police :Gras
a mis en forme : Lignes solidaires
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Gras
a mis en forme : Police :Gras
a mis en forme : Lignes solidaires
a mis en forme : Police :Gras
a mis en forme : Police :Non Gras
a mis en forme : Police :Gras
a mis en forme : Police :Gras
a mis en forme : Police :Gras
a mis en forme : Police :Gras
a mis en forme : Police :Gras
a mis en forme : Police :Gras
a mis en forme : Police :Non Gras
a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

[Get the CAN triggered test command] [Provide the CAN tTriggered tTest command]: corresponds to the following CALL:

CALL **Get_TriggTest_Cmd** with the following parameters:

– **RETURN Function return**: "CAN Triggered Test commandv_TriggTest_Cmd"{V_CAN_TriggTest_cmd}

[Get the OVSP side identification] [Provide the OVSP side identification] : corresponds to the following CALL:

CALL **Boot_Get_Side_Id** with the following parameters:

– **RETURN Function return**: "OVSP side identificationv_OVSP_Side_Id"{V_Boot_OVSP_Side_Id}

[Write the CAM first command on the dDiscrete output]: corresponds to the following CALL:

- CALL **DrvGPIO_Write** with the following parameters:

– **IN:** {E_OVSP_SW_Cmd_Off}

OUTIN : {DRVGPIO_OUT_CAM_CMD1}

– **IN** E_OVSP_SW_Cmd_Off

[Write the CAM second command on the dDiscrete output] : corresponds to the following CALL:

- CALL **DrvGPIO_Write** with the following parameters:

– **IN:** {E_OVSP_SW_Cmd_Off}

OUTIN : {DRVGPIO_OUT_CAM_CMD2}

– **IN** E_OVSP_SW_Cmd_Off

[Write the DOUTINHIB command on the dDiscrete output]: corresponds to the following CALL:

- CALL **DrvGPIO_Write** with the following parameters:

– **IN:** {E_OVSP_SW_Cmd_Off}

OUTIN : {DRVGPIO_OUT_DOUTINHIB}

– **IN** E_OVSP_SW_Cmd_Off

[Write the OSARM command on the dDiscrete output]: corresponds to the following CALL:

- CALL **DrvGPIO_Write** with the following parameters:

– **IN:** {E_OVSP_SW_Cmd_Off}

OUTIN : {DRVGPIO_OUT_OSARM_CMD}

– **IN** E_OVSP_SW_Cmd_Off

[Provide Get the CAN tTriggered tTest speed]: corresponds to the following CALL:

CALL **CAN_Get_Test_Speed** with the following parameters:

– **RETURNFunction return:** "CAN Triggered Test speedv_TriggTest_Speed"{V_CAN_Test_Speed.U_Value_32BitFloat}

[Manage the test speed**]:** corresponds to the following CALL

- CALL **DrvFTM_Manage_TSpeed** with the following parameters:

– **IN:** {V_CAN_Test_Speed.U_Value_32BitFloat}

Traceability	*Refined*
Rationale	*-*
Verification Method	*Test*

[END_REQ]

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Police :Non Gras

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

a mis en forme : Retrait : Gauche : 0,8 cm, Sans numérotation ni puces

1.8. MODES_TREATMENTS

1.8.1. Modes_Treatments

This function performs the modes management treatments.

1.8.1.1. Parameters and Return Value

Parameters

- Function return: Not ~~used~~used.

Pre-conditions on parameters

None

1.8.1.2. Called Functions

Calls

- Modes_Manage_Init_Tr
- Modes_Manage_Operational_Tr
- Modes_Manage_Degraded_Tr
- Modes_Manage_TriggTest_Tr
- DrvGPIO_Write
- Logbook_Is_Failure_to_Write
- OVSP_SW_Return_True

~~**Post-conditions**~~

~~None~~

1.8.1.3. Input/Output Data

Data

- IN/OUT: {V_Modes_SW_Mode}

Pre-conditions on data

None

1.8.1.4. Requirements

REQ-SDDD_Modes_Treatments_0001-01

[COV.REQ_OVSP_SRD-00001; COV.~~COV.REQ_OVSP_SRD-00008;~~REQ_OVSP_SRD-00003; COV.REQ_OVSP_SRD-00014; COV.REQ_OVSP_SRD-00006; COV.REQ_OVSP_SRD-00008; ~~COV.REQ_OVSP_SRD-00001~~]

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Modes_Treatments

	Causes				
Effects	{V_Modes_SW_Mode} is equal to E_Modes_Init	{V_Modes_SW_Mode} is equal to E_Modes_Operational	{V_Modes_SW_Mode} is equal to E_Modes_Degraded	{V_Modes_SW_Mode} is equal to E_Modes_TriggeredTest	All ~~the~~ other cases
	~~CALL Call~~ CALL **Modes_Manage_Init_Tr**	~~CALL Call~~ CALL **Modes_Manage_Operational_Tr**	~~CALL Call~~ CALL **Modes_Manage_Degraded_Tr**	~~CALL Call~~ CALL **Modes_Manage_TriggTest_Tr**	Set {V_Modes_SW_Mode} to E_Modes_Fail
	{V_Modes_SW_Mode} is equal to E_Modes_Fail				All ~~the~~ other cases
	CALL **DrvGPIO_Write** with **IN** DRVGPIO_OUT_OSARM_CMD and E_OVSP_SW_Cmd_On [~~Provide~~ Get the flag indicating there is a ~~f~~Failure to write in FlexNVM]				No effect
	"~~v_Log_to_Write~~Logbook failure to write"~~{V_Logbook_Failure_to_Write}~~ is FALSE		All ~~the~~ other cases		
	[Wait until an external interrupt is executed]~~[Halt the microcontroller]~~		No effect		

[~~Provide~~ Get the flag indicating there is a ~~f~~Failure to write in FlexNVM]~~:~~ corresponds to the following CALL:

CALL **Logbook_Is_Failure_to_Write** with the following parameters:

RETURN ~~**Function return**~~: ~~{V_Logbook_Failure_to_Write}~~"~~v_Log_to_Write~~Logbook failure to write"

[Wait until an external interrupt is executed] corresponds to the following CALL:~~to a CALL of a function provided in next version of OVSP software.~~

CALL **OVSP_SW_Return_True** with the following parameters:

RETURN TRUE

~~[Halt the microcontroller]: Enter in an infinite loop.~~

Traceability ~~*Refined*~~*Extended*

Rationale *The transition to E_Modes_Fail in the default case is used to handle an incident that could lead to a corrupted value of {V_Modes_SW_Mode}. It is a functional case but not specified in SRD.* -

Verification Method *Test*

[END_REQ]

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a mis en forme : Police :Non Gras

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APPENDIX 1. DATA DICTIONNARY

Refer to the FADEX OVSP SDDD ~~The data dictionary is common for all the OVSP CSCs and it is attached in OVSP Software Detailed Design Description~~ **Erreur ! Source du renvoi introuvable.**.

APPENDIX 2. CALL TREE

Refer to the FADEX OVSP SDDD ~~The call Tree is common for all the OVSP CSCs and it is attached in OVSP Software Detailed Design Description~~ **Erreur ! Source du renvoi introuvable.**.

APPENDIX 3. DELETED REQUIREMENTS

This Appendix provides all the Identifiers of requirements deleted from the project start:

- None.

APPENDIX 4. COVERAGE MATRIX

~~The COVERAGE MATRIX is common for all the OVSP CSCs and it is attached in OVSP Software Detailed Design Description [R1].~~ Refer to the FADEX OVSP SDDD ~~The COVERAGE MATRIX is common for all the OVSP CSCs and it is attached in OVSP Software Detailed Design Description~~ **Erreur ! Source du renvoi introuvable.**.

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