

Around View Monitor Function

<<Logical Function>>

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Person	Role	Email Confirmation	Date						



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Important Note

You need to use the RE specification macros provided by the "RE_SpecificationMacroTemplate.dotm" (refer to "Utilities" on page "Specification Templates" in the RE Wiki) to allow seamless VSEM import of the specification content. Use only these RE specification macros to create requirements in this specification. Refer to "How to use the Specification Templates" on how to enable and use the macros and the requirements templates in this specification.

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1 FUNCTION SPECIFICATION

1.1 Function Overview

1.1.1 Function Description

Around View Monitor Function

The Around View Monitor (AVM) function of Enhancement DAT has made some upgrades compare with Surround View Cameras.

- · It supports 3D view (front view, rear view, rear left view, rear right view and any angle view) screen and switch angles by gesture.
- · It supports automatively active AVM screen when open turn light or steering wheel angle big than 120° or obstacle approach trigger.
- · It supports self-calibration function, through road self-learning to complete calibration.

1.2 Function Scope

The ___ "Around View Monitor Function" function is called by the following functions:

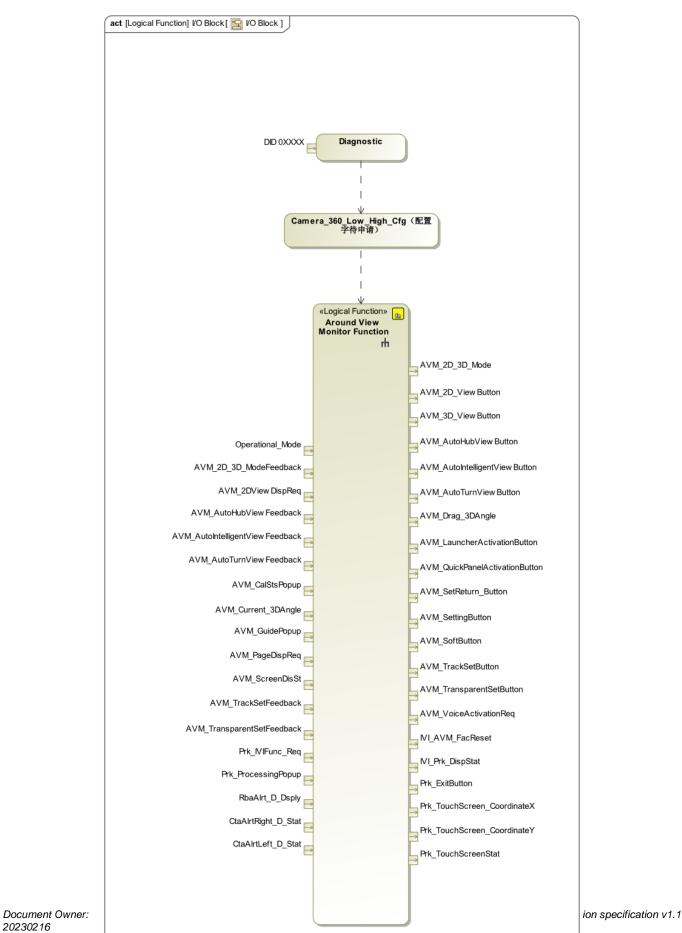
• "I/O Block"

1.2.1 I/O Block

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Figure 1: Activity Diagram of "I/O Block" calling "Around View Monitor Function"

1.3 Function Modeling

1.3.1 State Charts

No state chart associated to specified function.

1.3.2 Activity Diagrams

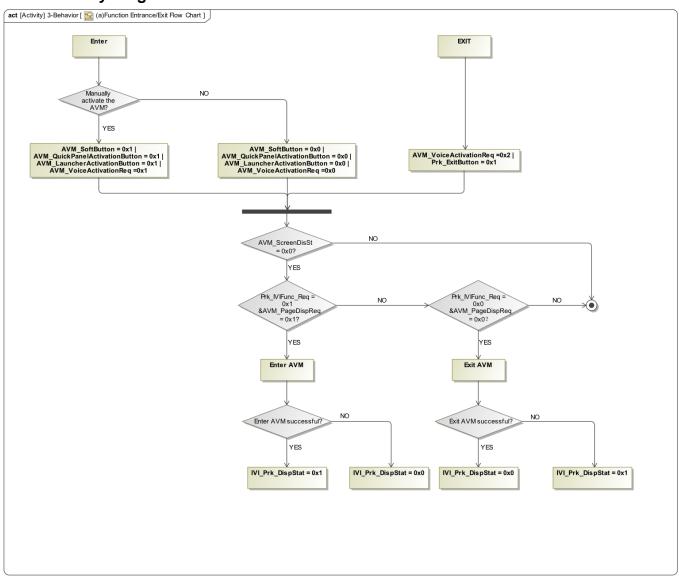


Figure 2: Activity Diagram of (a)Function Entrance/Exit Flow Chart



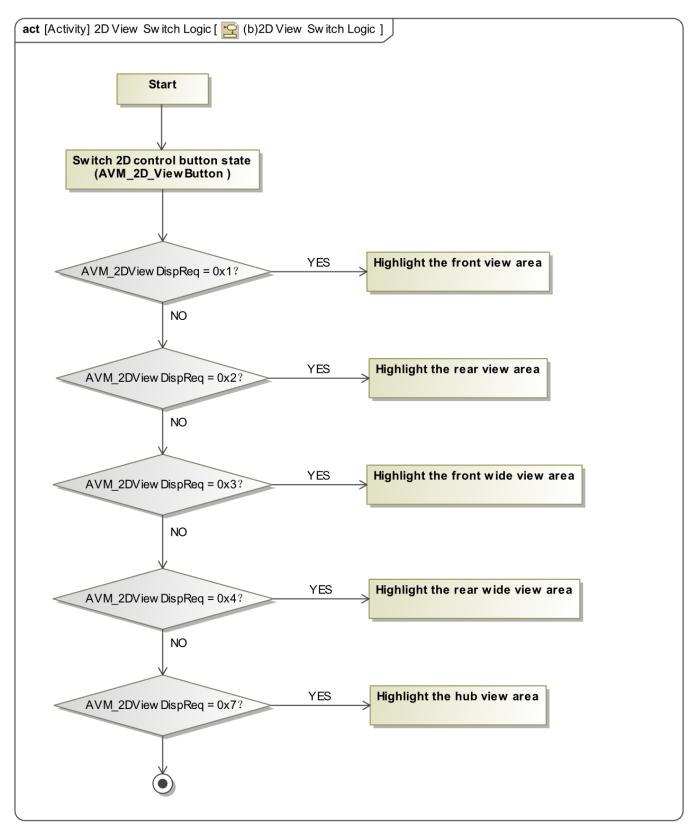


Figure 3: Activity Diagram of (b)2D View Switch Logic

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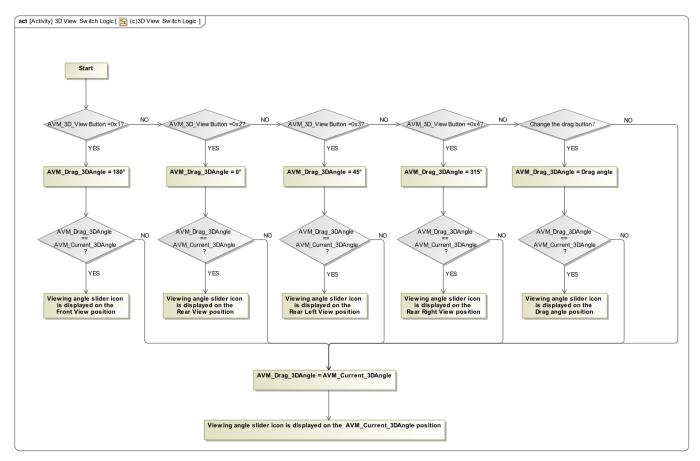


Figure 4: Activity Diagram of (c)3D View Switch Logic





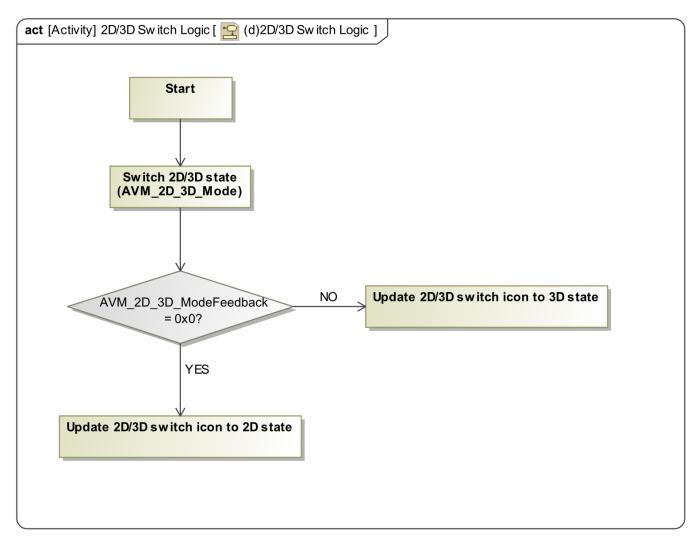


Figure 5: Activity Diagram of (d)2D/3D Switch Logic



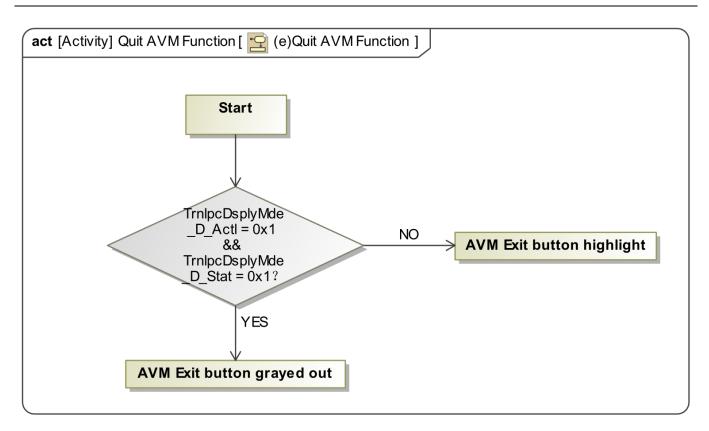


Figure 6: Activity Diagram of (e)Quit AVM Function

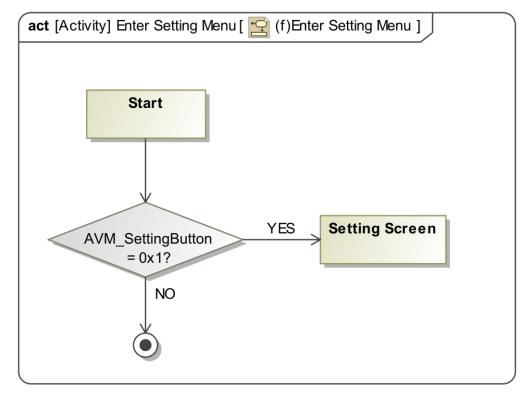


Figure 7: Activity Diagram of (f)Enter Setting Menu





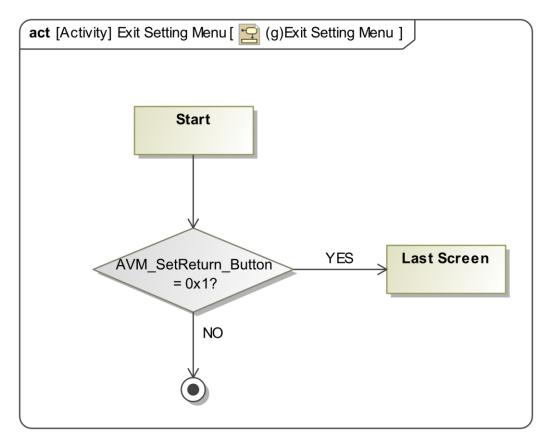
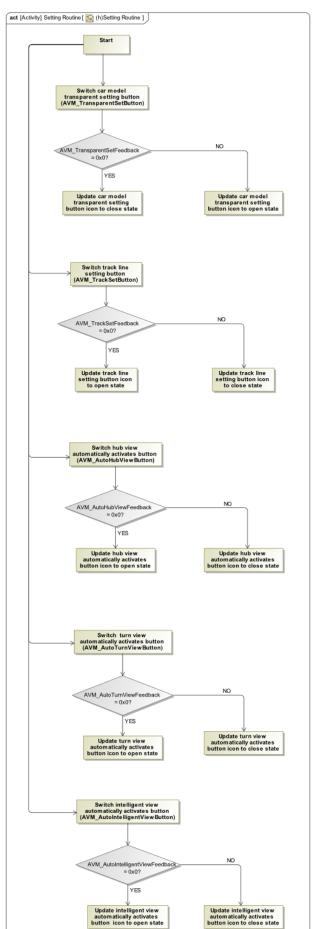


Figure 8: Activity Diagram of (g)Exit Setting Menu





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Figure 9: Activity Diagram of (h)Setting Routine

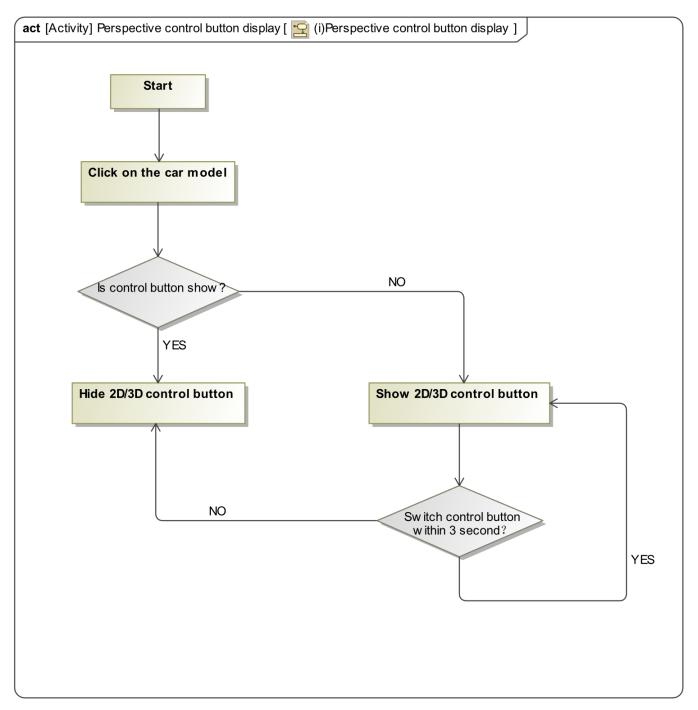


Figure 10: Activity Diagram of (i)Perspective control button display



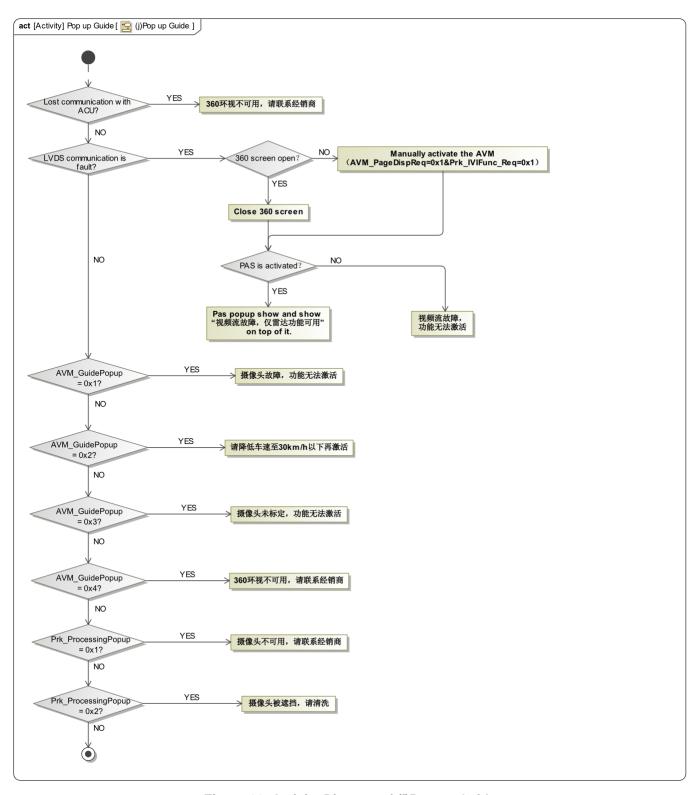


Figure 11: Activity Diagram of (j)Pop up Guide





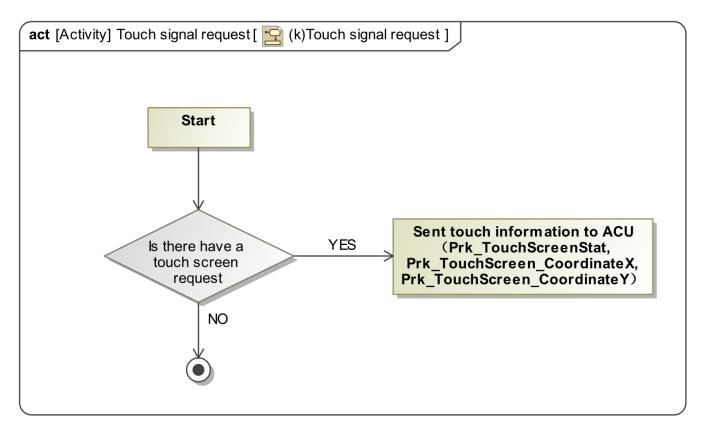
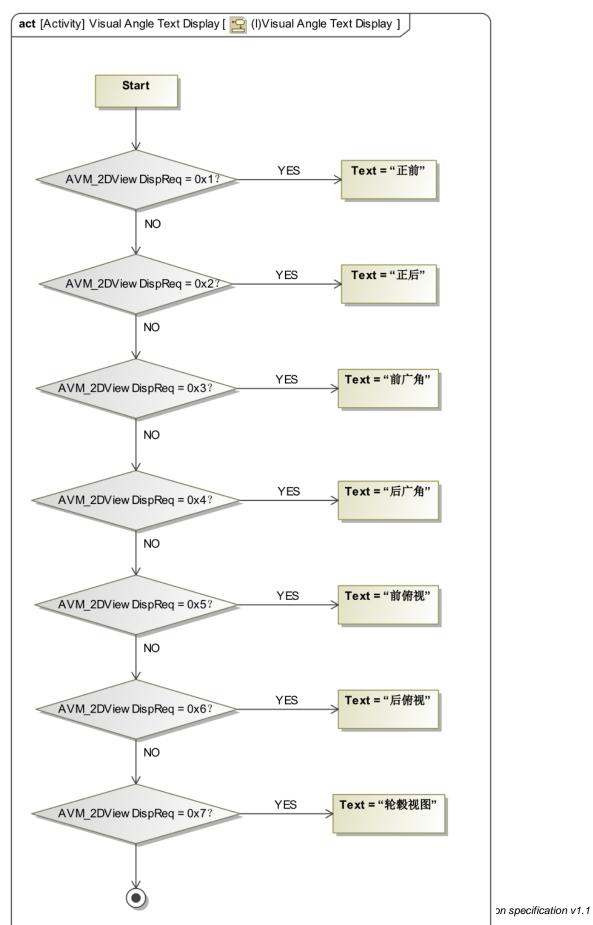


Figure 12: Activity Diagram of (k)Touch signal request





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Figure 13: Activity Diagram of (I)Visual Angle Text Display

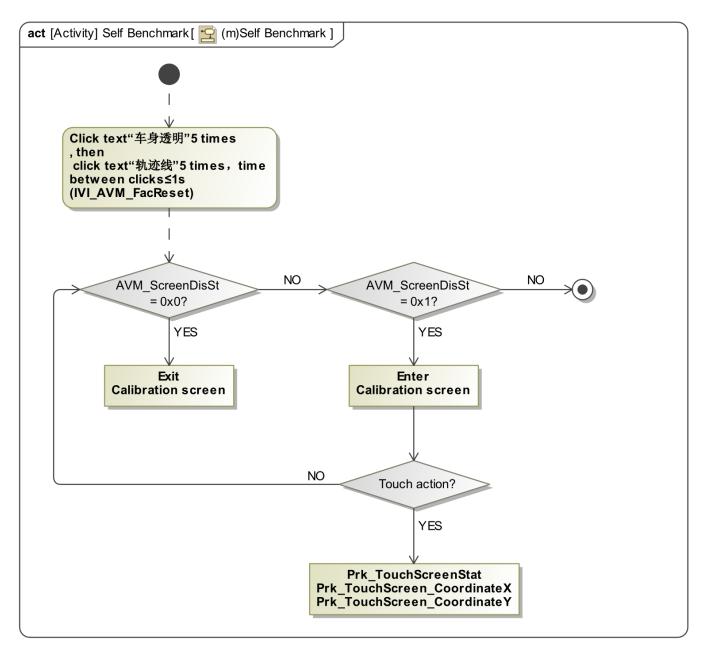


Figure 14: Activity Diagram of (m)Self Benchmark





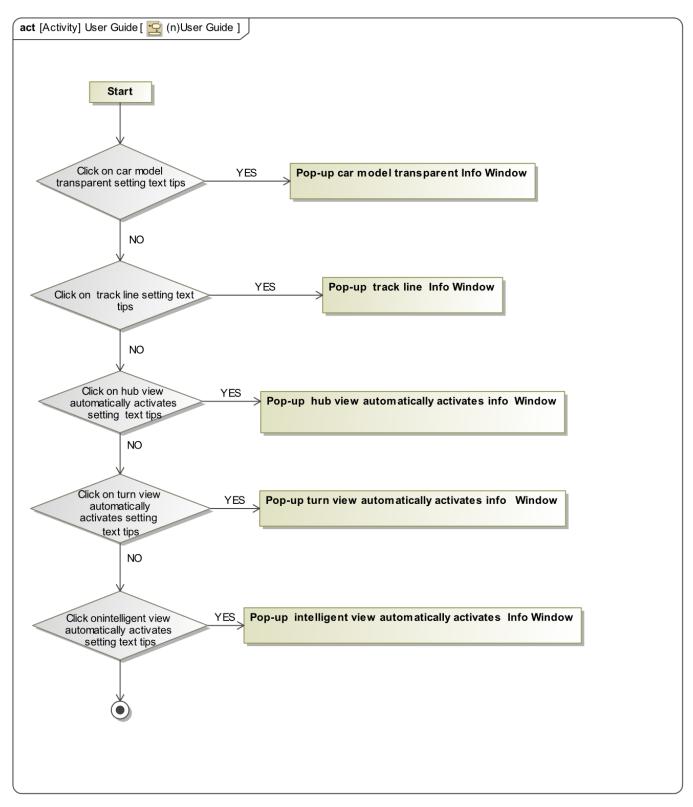


Figure 15: Activity Diagram of (n)User Guide

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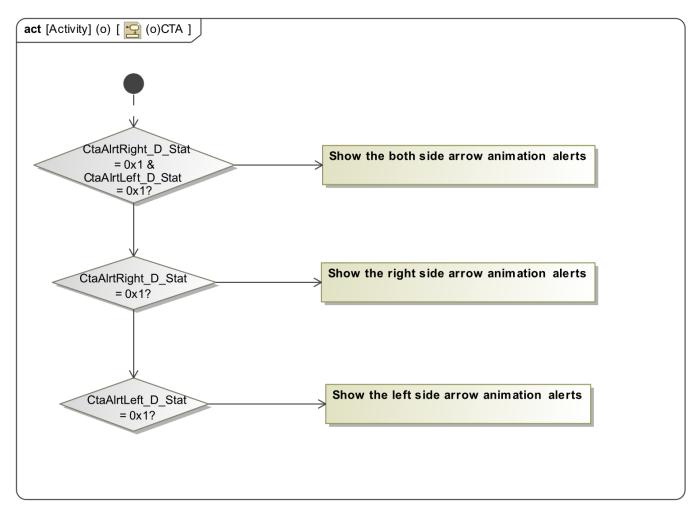


Figure 16: Activity Diagram of (o)CTA

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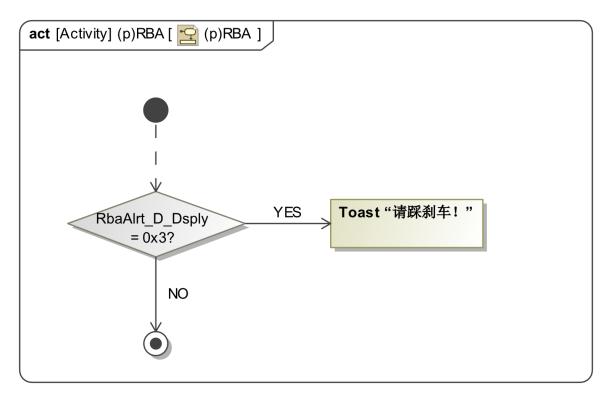


Figure 17: Activity Diagram of (p)RBA

1.3.3 Sequence Diagrams

No sequence diagram associated to specified function.

1.3.4 Decision Tables

No Decision Tables found in the Magicdraw model.

1.4 Function requirements

1.4.1 Functional Requirements

1.4.1.1 Normal Operation

1 Input Signal Details

- INTERNAL:
 - o Operational_Mode
 - Camera_360_Low_High_Cfg(配置子待申请)
- MUX message on the CAN Bus

Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
Prk_IVIFunc_Req	3		/	1	0		0(0x0)	7(0x7)

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	•					•		Ī
		No req				0x0		
		AVM ON req				0x1		
		APA ON req				0x2		
		Backtrack ON req				0x3		
		HAVP ON req				0x4		
	<u> </u>	Reserved				0x5		
	<u> </u>	Reserved				0x6		
		Reserved				0x7		
		-						
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_PageDispReq	2		/	1	0		0(0x0)	3(0x3)
		No Req				0x0		
		AVM_Mainpage				0x1		
		Reserved				0x2		
		Reserved				0x3		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_2D_3D_Mode Feedback	1		/	1	0		0(0x0)	1(0x1)
		2D Mode				0x0		
		3D Mode				0x1		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_2DViewDispR								
AVM_2DViewDispR eq	4		/	1	0		0(0x0)	15(0xF)
	4	No View Req	/	1	0	0x0	0(0x0)	15(0xF)
	4	No View Req Front View	/	1	0	0x0 0x1	0(0x0)	15(0xF)
	4		/	1	0		0(0x0)	15(0xF)
	4	Front View	/	1	0	0x1	O(0x0)	15(0xF)
	4	Front View Rear View	/	1	0	0x1 0x2	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View	/	1	0	0x1 0x2 0x3 0x4	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View	/	1	0	0x1 0x2 0x3	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View Front Vertical	/	1	0	0x1 0x2 0x3 0x4	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View Front Vertical View Rear Vertical	/	1	0	0x1 0x2 0x3 0x4 0x5	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View Front Vertical View Rear Vertical View Hub View	/	1	0	0x1 0x2 0x3 0x4 0x5 0x6	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View Front Vertical View Rear Vertical View Hub View Reserved	/	1	0	0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View Front Vertical View Rear Vertical View Hub View Reserved Reserved	/	1	0	0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8 0x9	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View Front Vertical View Rear Vertical View Hub View Reserved Reserved Reserved		1	0	0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8 0x9	0(0x0)	15(0xF)
	4	Front View Rear View Front Wide View Rear Wide View Front Vertical View Rear Vertical View Hub View Reserved Reserved		1	0	0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8 0x9	0(0x0)	15(0xF)



		Reserved				0xE		
		Reserved				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_Current_3DAn gle	9		Degree	1	0		0(0x0)	511(0x: FF)
		0-360degree						
		0x1FF: Invalid						
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_TransparentSe tFeedback	1		/	1	0	Liidoucu	0(0x0)	1(0x1)
		OFF				0x0		
		ON				0x1		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_TrackSetFeed back	1		/	1	0		0(0x0)	1(0x1)
		OFF				0x0		
		ON				0x1		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_AutoHubView Feedback	1		/	1	0		0(0x0)	1(0x1)
		OFF				0x0		
		ON				0x1		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State	Min.	Max.
	Size(bits)	Detail	Ullits	nes.	Oliset	Encoded	IVIIII.	iviax.
AVM_AutoTurnView Feedback	1		/	1	0		0(0x0)	1(0x1)
		OFF				0x0		
		ON				0x1		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_AutoIntelligen tViewFeedback	1		/	1	0		0(0x0)	1(0x1)



		OFF				0x0		
		ON				0x1		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
Prk_ProcessingPopu p	3			1	0		0(0x0)	7(0x7)
		0x0: No Popup				0x0		
		0x1: Cameras failure please contact supplier				0x1		
		0x2: Cameras block please clean				0x2		
		0x3: R Gear AVM can't be closed				0x3		
		0x4: Reserved		1		0x4		
		0x5: Reserved				0x5		
		0x6: Reserved				0x6		
		0x7: Reserved				0x7		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_GuidePopup	3			1	0		0(0x0)	7(0x7)
		No Popup				0x0		
		Cameras failure 360 can't be activated				0x1		
		Please slow speed 30km/h to activate				0x2		
		cameras not calibrated 360 can't be activated				0x3		
		Reserved				0x4		
		Reserved				0x5		
		Reserved				0x6		
		Reserved				0x7		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
AVM_ScreenDisSt	2			1	0		0(0x0)	3(0x3)
		Reserved				0x0		
		Main Screen				0x1		
		EOL/Test				0x2		
		Reserved		1	I	0x3		-

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Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
RbaAlrt_D_Dsply	2			1	0		0(0x0)	3(0x3)
		Off				0x0		
		Graphic				0x1		
		Text				0x2		
		Both				0x3		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
CtaAlrtRight_D_Stat	1			1	0		0(0x0)	1(0x1)
		Off				0x0		
		on				0x1		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
CtaAlrtLeft_D_Stat	2			1	0		0(0x0)	1(0x1)
		Off				0x0		
		on				0x1		_

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 1					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

2 Output Signal Details

Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
IVI_Prk_DispStat	3			1	0		0(0x0)	7(0x7	always send
		OFF				0x0			
		AVM actived				0x1			
		APA actived				0x2			
		Backtrack actived				0x3			
		HAVP active				0x4			
		Reserved				0x5			



		Reserved				0x6			
		Reserved				0x7			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_SoftButton	1			1	0		0(0x0)	1(0x1)	send 3 frames
		No Pressed				0x0			
		Pressed				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logi
AVM_QuickPanel ActivationButton	1			1	0		0(0x0)	1(0x1)	send 3 frames
		No Pressed				0x0			
		Pressed				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_LauncherA ctivationButton	1			1	0		0(0x0)	1(0x1)	send 3 frames
		No Pressed				0x0			
		Pressed				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logi
AVM_VoiceActiv ationReq	2						0(0x0)	3(0x3)	send 3 frames
		No request				0x0			
		ON				0x1			
		OFF				0x2			
		Reserved				0x3			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logi
AVM_SettingButt on	1						0(0x0)	1(0x1)	send 3 frames
		No Pressed				0x0			
		Pressed				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logi



Prk_ExitButton	1						0(0x0)	1(0x1)	send 3 frames
		No Pressed				0x0			
		Pressed				0x1			
						a. .			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_2D_3D_Mo de	1						0(0x0)	1(0x1)	always send
		2D Mode				0x0			
		3D Mode				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_2D_ViewBu tton	3					Lincoueu	0(0x0)	7(0x7)	always send
		No View Req				0x0			30110
		Front View				0x1			
		Rear View				0x2			
		Front Wide							
		View				0x3			
		Rear Wide				0x4			
		View							
		Hub View				0x5			
		Reserved				0x6			
		Reserved				0x7			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_3D_ViewBu tton	3						0(0x0)	7(0x7)	always send
		No View Req				0x0			
		Front View				0x1			
		Rear View				0x2			
		Front Wide View				0x3			
		Rear Wide				0x4			
		View		-					
		Hub View	1			0x5			
		Reserved				0x6			
		Reserved				0x7			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic



Prk_TouchScreen Stat	3						0(0x0)	7(0x7)	always send
		No command				0x0			
		Press				0x1			
		Release				0x2			
		Slither				0x3			
		Reserved				0x4			
		Reserved				0x5			
		Reserved				0x6			
		Reserved				0x7			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
Prk_TouchScreen _CoordinateX	12						0(0x0)	4095(0xFFF)	always send
		0~4095						,	
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
Prk_TouchScreen _CoordinateY	12						0(0x0)	4095(0xFFF)	always send
		0~4095							
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_Drag_3DAn gle	9		Degre e				0(0x0)	511(0 X1FF)	always send
Ü		0-360degree 0x1FF: Invalid						,	
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_SetReturn_ Button	1						0(0X0)	1(0X1)	always send
		No Pressed				0X0			
		Pressed				0X1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_Transparen tSetButton	1						0(0x0)	1(0x1)	always send



		OFF				0x0			
		ON				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_TrackSetBu tton	1						0(0x0)	1(0x1)	always send
		ON				0x0			
		OFF				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_AutoHubVi ewButton	1						0(0x0)	1(0x1)	always send
		ON				0x0			
		OFF				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_AutoTurnVi ewButton	1						0(0x0)	1(0x1)	always send
		ON				0x0			
		OFF				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
AVM_AutoIntelli gentViewButton	1						0(0x0)	1(0x1)	always send
		ON				0x0			
		OFF				0x1			
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.	Send Logic
IVI_AVM_FacRes et	1						0(0x0)	1(0x1)	send 3 frames
		OFF				0x0			
		ON				0x1			

Satisfied by:

- Functions:
 - Around View Monitor Function



Requirement ID: 2					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

3 Operational Mode

Mode	Differentiating Vehicle Conditions
Sleep Mode	Around View Monitor Function Text Message Disabled
Limited Mode	Around View Monitor Function Text Message Disabled
Normal Mode	Around View Monitor Function Text Message Enabled / Disabled
Crank Mode	Around View Monitor Function Text Message Enabled / Disabled

Satisfied by:

- Functions:
 - Around View Monitor Function

Requirement ID: 3					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

4 Subsystem Algorithm Flowchart/State Diagram

None.

Satisfied by:

- Functions:
 - Around View Monitor Function

Requirement ID: 4					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

5 Operation Description (supports algorithm flowchart /state diagram)

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 5



Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

6 Indicator Color Coordinates

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 6					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

7 Indicator Characteristics

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 7					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

8 Audio

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 8			
Rationale			
Acceptance Criteria			
Notes			
Source		Owner	
Source Req.		V&V Method	
Туре	Priority	Status	In-Progress

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Reg. Template Version 6.0 End of Requirement

9 Switch Control Logic

Consumer access to AVM Configuration shall be as specified in the message center basic functionality display as specified in Message Center X Display_Y Button Interface Section, where X and Y are appropriate values in this document.

Satisfied by:

- Functions:
 - Around View Monitor Function

Requirement ID: 9					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

10 System Accuracy

Within 100 msec of receiving a message that results in a change of state the cluster will update the display to the proper state.

Satisfied by:

- Functions:
 - Around View Monitor Function

Requirement ID: 10					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

11 Memory Storage

Parameter Name	Description	Value at Battery Connect	Value at Module Wake-up	Value at Transition to Normal/Crank Mode From Limited Mode
Operational_Mod e	4 state indicator for cluster operational mode	Limited	Limited, Normal or Crank	Normal or Crank
Camera _360_Low_High _Cfg(配置字待 申请)				
Prk_IVIFunc_Req	This signal indicates parking feature request for IVI to have function ON, include APA/AVM/Backtrack/HAVP.	0x0	0x0	0x0



AVM_PageDispRe q	This signal indicates the different AVM pages request for APIM.	0x0	0x0	0x0
AVM_2D_3D_Mod eFeedback	This signal indicates the feedback status of AVM 2D or 3D mode setting.	0x0	0x0	0x0
AVM_2DViewDisp Req	This signal indicates current 2D view in IVI.	0x0	0x0	0x0
AVM_Current_3D Angle	This signal indicates the current angle of AVM under 3D mode, which is IPMB feedback to APIM.	0x0	0x0	0x0
AVM_Transparent SetFeedback	This signal indicates the feedback status of car model transparent setting.	0x0	0x0	0x0
AVM_TrackSetFee dback	This signal indicates the feedback status of track line setting.	0x0	0x0	0x0
AVM_AutoHubVie wFeedback	This signal indicates the feedback status of AVM hub view automatically activates setting.	0x0	0x0	0x0
AVM_AutoTurnVie wFeedback	This signal indicates the feedback status of AVM turn view automatically activates setting.	0x0	0x0	0x0
AVM_AutoIntellig entViewFeedback	This signal indicates the feedback status of AVM intelligent view automatically activates setting.	0x0	0x0	0x0
Prk_ProcessingPop up	This signal indicates the popup content after AVM camera fault, which is used for remind user on IVI screen.	0x0	0x0	0x0
AVM_GuidePopup	This signal indicates the prompt after AVM actived, which is dispalyed on IVI screen.	0x0	0x0	0x0
AVM_ScreenDisSt	This signal indicates that AVM screen display status	0x0	0x0	0x0
IVI_Prk_DispStat	This signal indicates which parking feature is displayed on APIM, include APA/AVM/Backtrack/HAVP.	0x0	0x0	0x0
AVM_SoftButton	This signal indicates the soft button of AVM on APIM screen, if user click this button, APIM will sent pressed status to IPMB.	0x0	0x0	0x0
AVM_QuickPanelA ctivationButton	This signal indicates the soft button of AVM on APIM quick panel page, if user click this button, APIM will sent pressed status to IPMB.	0x0	0x0	0x0
AVM_LauncherAct ivationButton	This signal indicates the soft button of AVM on APIM launcher	0x0	0x0	0x0

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	page, if user click this button, APIM will sent pressed status to IPMB.			
AVM_VoiceActivat ionReq	This signal indicates the voice activation of AVM, if user request AVM ON by voice, APIM will sent this signal to IPMB.	0x0	0x0	0x0
AVM_SettingButto n	This signal indicates the setting button of AVM on APIM screen, if user click this button, APIM will sent this	0x0	0x0	0x0
Prk_ExitButton	This signal indicates parking feature request for APIM to have function OFF, include APA/AVM/Backtrack/HAVP.	0x0	0x0	0x0
AVM_2D_3D_Mod e	This signal indicates the AVM 2D or 3D mode that user selected on APIM screen.	0x0	0x0	0x0
AVM_2D_ViewBut ton	This signal indicates the button of different view of AVM under 2D mode, which is APIM sent to IPMB.	0x0	0x0	0x0
AVM_3D_ViewBut ton	This signal indicates the button of different view of AVM under 3D mode, which is APIM sent to IPMB.	0x0	0x0	0x0
Prk_TouchScreenS tat	This signal indicates finger touch screen status, which is send by APIM to IPMB	0x0	0x0	0x0
Prk_TouchScreen_ CoordinateX	This signal indicates the X coordinate of finger touch position on APIM screen	0x0	0x0	0x0
Prk_TouchScreen_ CoordinateY	This signal indicates the Y coordinate of finger touch position on APIM screen	0x0	0x0	0x0
AVM_Drag_3DAng le	This signal indicates the selected angle of AVM on APIM screen under 3D mode, which is APIM sent to IPMB.	0x0	0x0	0x0
AVM_SetReturn_B utton	This signal indicates the exit button status of setting page.	0x0	0x0	0x0
AVM_Transparent SetButton	This signal indicates the status of car model transparent setting button.	0x0	0x0	0x0
AVM_TrackSetBut ton	This signal indicates the status of track line setting button.	0x0	0x0	0x0
AVM_AutoHubVie wButton	This signal indicates the status of AVM hub view automatically activates button.	0x0	0x0	0x0



AVM_AutoTurnVie wButton	This signal indicates the status of AVM turn view automatically activates button.	0x0	0x0	0x0
AVM_AutoIntellig entViewButton	This signal indicates the status of AVM intelligent view automatically activates button.	0x0	0x0	0x0
IVI_AVM_FacReset	This signal indicates that user want to factory reset when calibration failure.	0x0	0x0	0x0
RbaAlrt_D_Dsply	This signal is used by the Server to tell the Client to display warning notifications to the user	0x0	0x0	0x0
CtaAlrtRight_D_St at	This signal is used to inform the CrossTrafficAlertClient the current state of the CTA signal.	0x0	0x0	0x0
CtaAlrtLeft_D_Stat	This signal is used to inform the CrossTrafficAlertClient the current state of the CTA signal.	0x0	0x0	0x0

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 11					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

12 Prove out

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 12					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

13 Message Center Msg

None.

Satisfied by:

Document Owner:

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- Functions:
 - o Around View Monitor Function

Requirement ID: 13					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

14 Self Test

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 14					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

15 Engineering Test Mode

Satisfied by:

- Functions:
 - Around View Monitor Function

Requirement ID: 15					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

16 Part II Performance

Supported Diagnostic Trouble Codes (DTCs)

DTC	Description
C15900(tbd)	Lost of Communication with IPAMB
CXXXX(tbd)	Invalid Data

DID 0xDExx

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Block Num	Block Description	Byte(s)	Bits	State: Descriptio n	"0"	"1"	Default	Comments / Informatio n
	PACKETED BLOCKS							

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 16					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

17 Reference Specification

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 17					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

18 Voltage Level

Refer to the Cluster Features table located in the Operational Modes and Voltage Range Strategies Section in this SPSS.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 18

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Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

19 Indicator Graphics/Display Format

None.

Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID: 19					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

1.4.1.2 Error Handling

Missing Message Strategy

The signals will be declared missing as per the Diagnostics section of this SPSS.

DTCs states and history will be determined as per the Diagnostics section of this SPSS.

Satisfied by:

- Functions:
 - Around View Monitor Function

Requirement ID:					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

1.4.2 Non-Functional Requirements

No Non-Functional Requirements specified.

1.4.3 Functional Safety Requirements

Function Safety Classification(EMC)

None.

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Satisfied by:

- Functions:
 - o Around View Monitor Function

Requirement ID:					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

1.4.4 Other Requirements

No Other Requirements specified.

1.4.4.1 Design Requirements

No Design Requirements specified.



2 OPEN CONCERNS

No Open Concerns (Ford Modeling Action Items) in the Magicdraw model.

Date Issued: 2023/02/15

Date Revised: 2023/02/15





3 REVISION HISTORY

No Revision History found.

3.1 Template Revisions

Version	Rev.	Date	Description	Responsible
1	0	2022- 12-1	Initial version	Zhang Min
1	1	2023- 02-13	 Update LVDS fault pop-up logic. Update fault pop-up text Add the RBA toast judge signal "RbaAlrt_D_Dsply" Add the CTA animation arrow judge signal "CtaAlrtRight_D_Stat" and "CtaAlrtLeft_D_Stat" Update the signal judge logic of enter AVM screen Add the setting menu info pop-up Update 3D view switch logic. Add the can signal send logic Update the self calibration enter logic 	Zhang Min



4 APPENDIX

4.1 **Data Dictionary**

4.1.1 Logical Signals

No "Logical Interface Table" or "Logical Signals" tables found.

4.1.2 Logical Parameters

(No parameters have been defined)

4.1.3 Encoding Types





Document ends here.

Date Issued: 2023/02/15

Date Revised: 2023/02/15