

# Parking Aid System <<Logical Function>>

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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.

# Ford

## Function Specification Feature

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#### 1 FUNCTION SPECIFICATION

#### 1.1 Function Overview

#### 1.1.1 Function Description

#### **Parking Aid System**

The Park Aid System (PAS) function of Enhancement DAT has made some upgrades compare with Base Park Assist (BPA).

- · It only supports ON/OFF the park assist sound, not support ON/OFF the whole park assist function itself.
- It supports to use the radar wall instead of now turtle illustration to show the obstacle approach indication. Only the lvds communication failed, it'll C/O the BPA solution.
- · It supports show the front&rear obstacle distance.

### 1.2 Function Scope

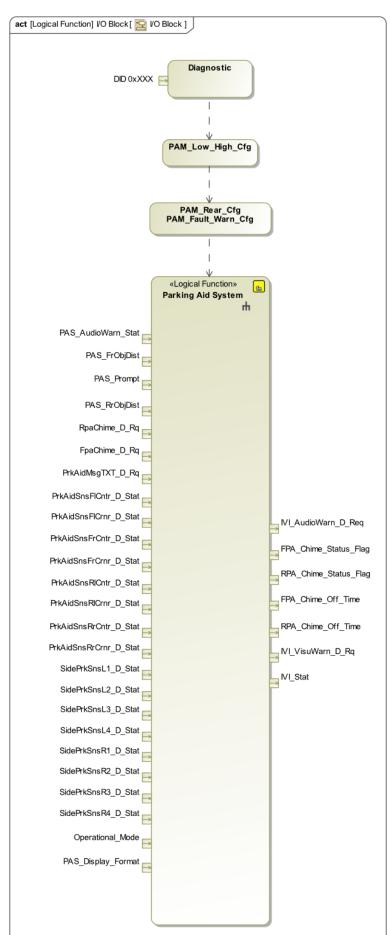
The \_\_\_ "Parking Aid System" function is called by the following functions:

• "I/O Block"

#### 1.2.1 I/O Block

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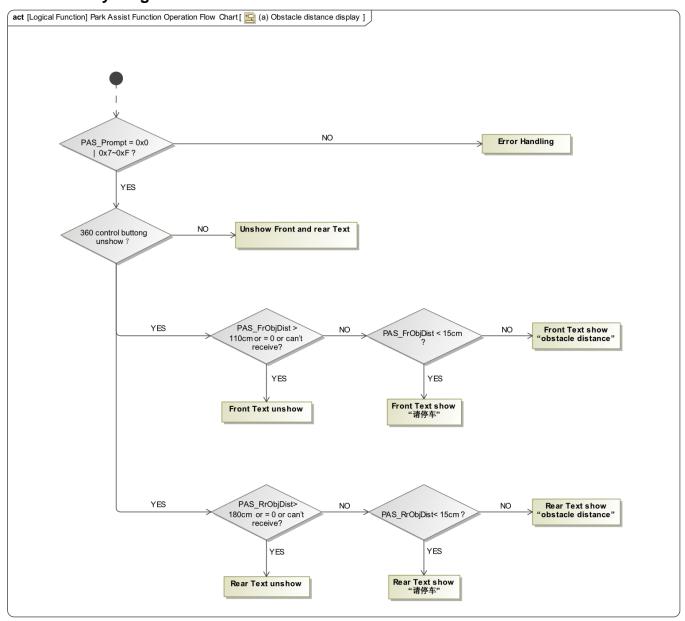
Figure 1: Activity Diagram of "I/O Block" calling "Parking Aid System"

#### **Function Modeling** 1.3

#### 1.3.1 State Charts

No state chart associated to specified function.

#### 1.3.2 Activity Diagrams



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Figure 2: Activity Diagram of (a) Obstacle distance display

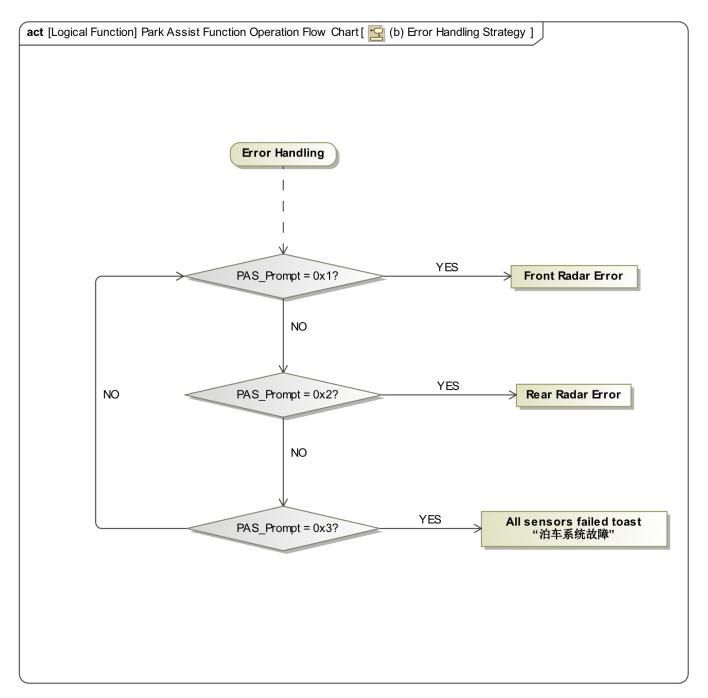


Figure 3: Activity Diagram of (b) Error Handling Strategy

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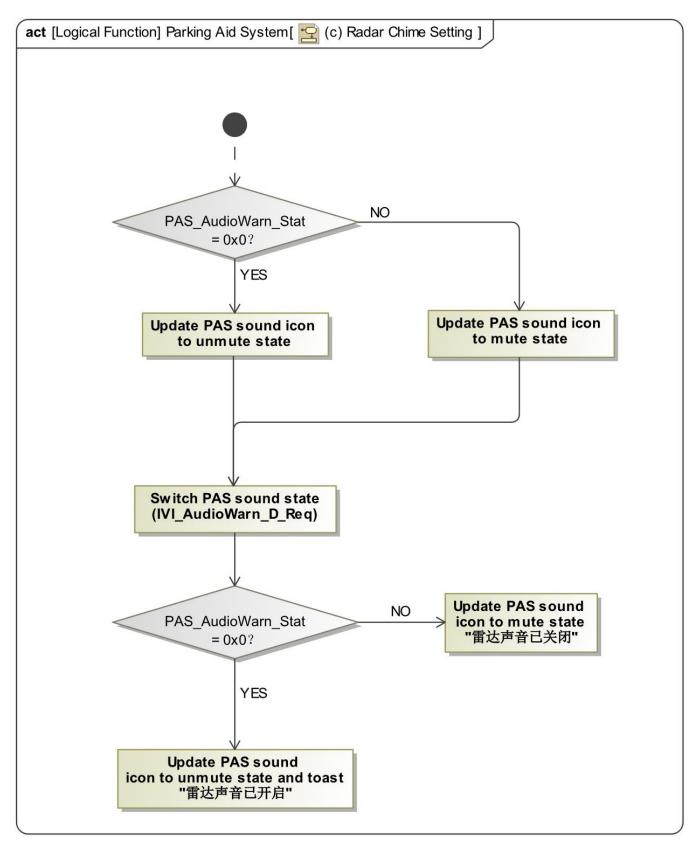


Figure 4: Activity Diagram of (c) Radar Chime Setting

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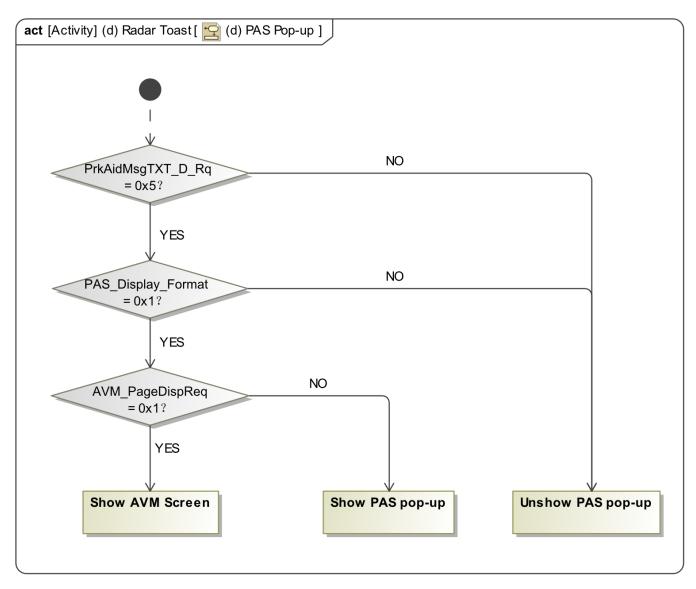


Figure 5: Activity Diagram of (d) PAS Pop-up

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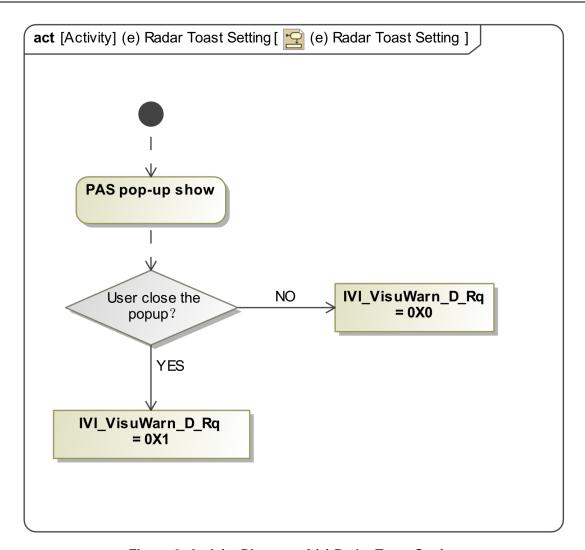


Figure 6: Activity Diagram of (e) Radar Toast Setting





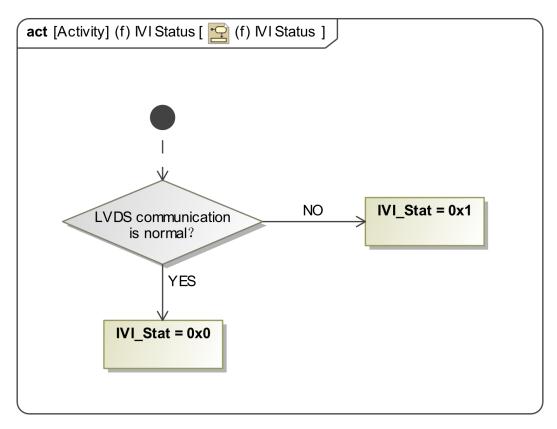


Figure 7: Activity Diagram of (f) IVI Status

#### 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:
  - Operational\_Mode
  - o PAM\_Rear\_Cfg
  - PAM\_Low\_High\_Cfg(配置子待申请)
  - PAM\_Fault\_Warn\_Cfg
- MUX message on the CAN Bus



Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
RpaChime_D_Rq	4		SED	1	0		0(0x0)	15(0xF)
		No_Chime				0x0	` '	
		Zone1_Chime				0x1		
		Zone2_Chime				0x2		
		Zone3_Chime				0x3		
		Zone4_Chime				0x4		
		Zone5_Chime				0x5		
		Zone6_Chime				0x6		
		Zone7_Chime				0x7		
		Zone8_Chime				0x8		
		Zone9_Chime				0x9		
		Zone10_Chime				0xA		
		Zone11_Chime				0xB		
		Zone12_Chime				0xC		
		Zone13_Chime				0xD		
		Zone14_Chime				0xE		
		Zone15_Chime				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
FpaChime_D_Rq	4		SED	1	0		0(0x0)	15(0xF)
		No_Chime				0x0		
		Zone1_Chime				0x1		
		Zone2_Chime				0x2		
		Zone3_Chime				0x3		
		Zone4_Chime				0x4		
		Zone5_Chime				0x5		
		Zone6_Chime				0x6		
		Zone7_Chime				0x7		
		Zone8_Chime				0x8		
		Zone9_Chime				0x9		
		Zone10_Chime				0xA		
		Zone11_Chime				0xB		
		Zone12_Chime				0xC		
		Zone13_Chime				0xD		
		Zone14_Chime				0xE		
		Zone15_Chime				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidMsgTxt_D_Rq	4			1	0	Liicoaea	0(0x0)	15(0xF)
		All Park Sensors OFF				0x0		
		R Snsrs ON - F				0.4		
		Snsrs OFF				0x1		
		R Snsrs OFF - F				0x2		
		Snsrs ON				UXZ		
		Reset Message				0x3		
		Warn						
		Not used	Page 12 d		cument ID: pa	0x4		

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R Snsrs ON - F Snsrs ON Park Sys Alternate Mode Not used R Sns Trlr F Sns Blk Fail Mode - wth chime Fail Mode - no chime Not avail (Trlr attchd) R Sns inactve Trlr atch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk  All Sns Blk  Detail  AudioWarn Mute  Detail	Units unsigned Units	Res.	Offset 0	0x5  0x6  0x7  0x8  0x9  0xA  0xB  0xC  0xD  0xE  0xF  State Encoded  0x0  0x1  State	<b>Min</b> . 0(0x0)	Max. 1(0x1)
Alternate Mode  Not used R Sns Trlr F Sns Blk Fail Mode - wth chime Fail Mode - no chime Not avail (Trlr attchd) R Sns inactve Trlr atch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk	Units unsigned	1	0	0x7 0x8 0x9 0xA 0xB 0xC 0xD 0xE 0xF  State Encoded 0x0 0x1		
R Sns Trlr F Sns Blk Fail Mode - wth chime Fail Mode - no chime Not avail (Trlr attchd) R Sns inactve Trlr atch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk	Units unsigned	1	0	0x8 0x9 0xA 0xB 0xC 0xD 0xE 0xF  State Encoded 0x0 0x1		
Blk Fail Mode - wth chime Fail Mode - no chime Not avail (Trlr attchd) R Sns inactve Trli atch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk  Detail  AudioWarn Mute	Units unsigned	1	0	0x9 0xA 0xB 0xC 0xD 0xE 0xF  State Encoded 0x0 0x1		
chime Fail Mode - no chime Not avail (Trlr attchd) R Sns inactve Trlr atch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk  Detail  AudioWarn Mute	Units unsigned	1	0	0xA 0xB 0xC 0xD 0xE 0xF  State Encoded 0x0 0x1		
chime Not avail (Trlr attchd) R Sns inactve Trlr atch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk  Detail  AudioWarn Mute	Units unsigned	1	0	0xB 0xC 0xD 0xE 0xF  State Encoded 0x0 0x1		
attchd) R Sns inactve Trliatch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk  Detail  AudioWarn Mute	Units unsigned	1	0	0xC  0xD  0xE  0xF  State Encoded  0x0  0x1		
atch R Sns Blk F Sns ON R Sns ON F Sns Blk All Sns Blk  Detail  AudioWarn Mute	Units unsigned	1	0	0xD  0xE  0xF  State Encoded  0x0  0x1		
ON R Sns ON F Sns Blk All Sns Blk  Detail  AudioWarn Mute	unsigned	1	0	0xE 0xF State Encoded 0x0 0x1		
Blk All Sns Blk  Detail  AudioWarn Mute	unsigned	1	0	OxF State Encoded  Ox0 Ox1		
AudioWarn Mute	unsigned	1	0	State Encoded 0x0 0x1		
AudioWarn Mute	unsigned	1	0	0x0 0x1		
Mute				0x0 0x1	0(0x0)	1(0x1)
Mute	Units	Res		0x1		
	Units	Res				
) Detail	Units	Res		State		
		11001	Offset	Encoded	Min.	Max.
	unsigned	1	0		0(0x0)	127(0x7F)
0-110cm				0x0-0x6E		
) Detail	Units	Res.	Offset	State	Min.	Max.
	unsigned	1	0	Liiouuu	0(0x0)	255(0xFF)
0-180cm	an organization	· · · · · · · · · · · · · · · · · · ·		0x0-0xB4	(0.10)	
) Detail	Units	Res.	Offset	State Encoded	Min.	Max.
	unsigned	1	0		0(0x0)	15(0xF)
No request			1	0x0		
Front sensor failure				0x1		
Rear sensor failure				0x2		
			†	0x3		
Front sensor				0x4		
Rear sensor				0x5		
рюскаве			1			
	O-180cm  No request Front sensor failure Rear sensor failure All sensors failed Front sensor blockage Rear sensor blockage	unsigned  0-180cm  Detail Units  unsigned  No request Front sensor failure Rear sensor failure All sensors failed Front sensor blockage Rear sensor blockage	unsigned 1  0-180cm  Detail Units Res.  unsigned 1  No request  Front sensor failure  Rear sensor failure  All sensors failed  Front sensor blockage  Rear sensor blockage	unsigned 1 0  0-180cm  Detail Units Res. Offset  unsigned 1 0  No request  Front sensor failure  Rear sensor failure  All sensors failed  Front sensor blockage  Rear sensor blockage	Units   Res.   Offset   State   Encoded	Units   Coded   Units   Units   Coded   Units   Coded   Units   Units   Coded   Units   Coded   Units   Units   Units   Coded   Units   Units   Coded   Units   Unit

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	1				T	1		1
		Reserved				0x7		
		Reserved				0x8		
		Reserved				0x9		
		Reserved				0xA		
		Reserved				0xB		
		Reserved				0xC		
		Reserved				0xD		
		Reserved				0xE		
		Reserved				0xF		
						State		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidSnsRlCntr_D_St at	4		unsigned	1	0		0(0x0)	15(0xF)
		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		Zone13				0xD		
		Zone14				0xE		
		Zone15				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidSnsRrCntr_D_St at	4		unsigned	1	0		0(0x0)	15(0xF)
		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11		-		0xB		

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		Zone12				0xC		
		Zone13				0xD		
		Zone14				0xE		
		Zone15				0xF		
		2011013				0/11		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidSnsRICrnr_D_St at	4		unsigned	1	0		0(0x0)	15(0xF)
		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		Zone13				0xD		
		Zone14				0xE		
		Zone15				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
	-		<b>Units</b> unsigned	Res.	Offset 0		<b>Min.</b> 0(0x0)	<b>Max.</b> 15(0xF)
PrkAidSnsRrCrnr_D_St		<b>Detail</b> Off						
PrkAidSnsRrCrnr_D_St						Encoded		
PrkAidSnsRrCrnr_D_St		Off				Encoded 0x0		
PrkAidSnsRrCrnr_D_St		Off Zone1				0x0 0x1		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2				0x0 0x1 0x2		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3				0x0 0x1 0x2 0x3		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4				0x0 0x1 0x2 0x3 0x4		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5				0x0 0x1 0x2 0x3 0x4 0x5		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5 Zone6				0x0 0x1 0x2 0x3 0x4 0x5 0x6		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5 Zone6 Zone7				0x0 0x1 0x2 0x3 0x4 0x5 0x6		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5 Zone6 Zone7 Zone8				0x0 0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5 Zone6 Zone7 Zone8 Zone9				0x0 0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8 0x9		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5 Zone6 Zone7 Zone8 Zone9 Zone10				0x0 0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8 0x9 0xA		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5 Zone6 Zone7 Zone8 Zone9 Zone10 Zone11				0x0 0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8 0x9 0xA 0xB		
PrkAidSnsRrCrnr_D_St		Off Zone1 Zone2 Zone3 Zone4 Zone5 Zone6 Zone7 Zone8 Zone9 Zone10 Zone11 Zone12				0x0 0x1 0x2 0x3 0x4 0x5 0x6 0x7 0x8 0x9 0xA 0xB 0xC		

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Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidSnsFlCntr_D_St at	4		unsigned	1	0		0(0x0)	15(0xF)
		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		Zone13				0xD		
		Zone14				0xE		
		Zone15				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidSnsFrCntr_D_St at	4		unsigned	1	0		0(0x0)	15(0xF)
<del></del>		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		Zone13				0xD		
		Zone14				0xE		
		Zone15				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidSnsFlCrnr_D_St	4		unsigned	1	0		0(0x0)	15(0xF)
at	4		urisigned	į.			0(0,0)	10(0/1)

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		71				0.4		
		Zone1				0x1		
		Zone2			1	0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		Zone13				0xD		
		Zone14				0xE		
		Zone15				0xF		
						2		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
PrkAidSnsFrCrnr_D_St at	4		unsigned	1	0		0(0x0)	15(0xF)
		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		Zone13				0xD		
		Zone14				0xE		
		Zone15				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
SidePrkSnsR4_D_Stat	4		unsigned	1	0		0(0x0)	15(0xF)
		Off			1	0x0		
		Zone1			1	0x1		
		Zone2			1	0x2		
		Zone3			1	0x3		
		Zone4				0x4		
		Zone5				0x5		



		76				0.6		1
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		NoObjectInSector				0xD		
		NotFullyScanned Yet				0xE		
		NotUsed				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
SidePrkSnsL1_D_Stat	4		unsigned	11	0		0(0x0)	15(0xF)
		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		
		Zone5				0x5		
		Zone6				0x6		
		Zone7				0x7		
		Zone8				0x8		
		Zone9				0x9		
		Zone10				0xA		
		Zone11				0xB		
		Zone12				0xC		
		NoObjectInSector				0xD		
		NotFullyScanned Yet				0xE		
		NotUsed				0xF		
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
SidePrkSnsL2_D_Stat	4		unsigned	1	0		0(0x0)	15(0xF)
		Off				0x0		
		Zone1				0x1		
		Zone2				0x2		
		Zone3				0x3		
		Zone4				0x4		



		Zone4				0x4		
		Zone3				0x3		
		Zone2				0x2		
		Zone1				0x1		
		Off				0x0		
SidePrkSnsL4_D_Stat	4		unsigned	1	0		0(0x0)	15(0xF)
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
		NotUsed				0xF		
		NotFullyScanned Yet				0xE		
		NoObjectInSector				0xD		
		Zone12			1	0xC		
		Zone11			1	0xB		
		Zone10			1	0xA		
		Zone9			1	0x9		
		Zone8			1	0x8		
_		Zone7				0x7		
		Zone6			1	0x6		
		Zone5				0x5		
		Zone4				0x4		
		Zone3				0x3		
		Zone2				0x2		
		Zone1				0x1		
		Off				0x0		
SidePrkSnsL3_D_Stat	4		unsigned	1	0		0(0x0)	15(0xF)
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
		NotUsed				0xF		
		NotFullyScanned Yet				0xE		
		NoObjectInSector				0xD		
		Zone12				0xC		
		Zone11				0xB		
		Zone10				0xA		
		Zone9				0x9		
		Zone8				0x8		
		Zone7				0x7		
		Zone6				0x6		
		Zone5				0x5		

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		Zone4				0x4		
		Zone3				0x3		
		Zone2				0x2		
		Zone1				0x1		
		Off				0x0		
SidePrkSnsR2_D_Stat	4		unsigned	1	0		0(0x0)	15(0xF)
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
		NotUsed				0xF		
		NotFullyScanned Yet				ОхЕ		
		NoObjectInSector				0xD		
		Zone12			1	0xC		1
		Zone11				0xB		
		Zone10			1	0xA		
		Zone9			1	0x9		
		Zone8				0x8		
_		Zone7				0x7		
		Zone6			1	0x6		
		Zone5				0x5		
		Zone4				0x4		
		Zone3				0x3		
		Zone2				0x2		
		Zone1				0x1		
		Off				0x0		
SidePrkSnsR1_D_Stat	4		unsigned	1	0		0(0x0)	15(0xF)
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
		NotUsed				0xF		
		NotFullyScanned Yet				0xE		
		NoObjectInSector				0xD		
		Zone12				0xC		
		Zone11				0xB		
		Zone10				0xA		
		Zone9				0x9		
		Zone8				0x8		
		Zone7				0x7		
		Zone6				0x6		
		Zone5				0x5		

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		PASOnly				0x1		
		None				0x0		
PAS_Display_Format	1		unsigned	1	0		0(0x0)	1(0x1)
Signal Name	Size(bits)	Detail	Units	Res.	Offset	State Encoded	Min.	Max.
		NotUsed				0xF		
		NotFullyScanned Yet				0xE		
		NoObjectInSector				0xD		
		Zone12				0xC		+
						1		
		Zone10 Zone11				0xA 0xB		
		Zone10				0x9 0xA		
		Zone9				0x8 0x9		
		Zone8				0x7 0x8		
		Zone7				0x0 0x7		
		Zone6				0x5 0x6		
		Zone5				0x4 0x5		
		Zone4				0x3 0x4		1
		Zone3				0x2 0x3		
		Zone2				0x1 0x2		
		Zone1				0x0 0x1		
Oluce Inolisho_D_oldl	4	Off	unsigned	ı	0	0x0	U(UXU)	15(0X7)
Signal Name SidePrkSnsR3_D_Stat	Size(bits)	Detail	Units	Res.	Offset 0	State Encoded	<b>Min.</b> 0(0x0)	<b>Max.</b> 15(0xF)
		Notoseu				0xF		
		Yet NotUsed				0xE		
		NotFullyScanned						
		NoObjectInSector				0xD		
		Zone12				0xC		
		Zone10				0xA 0xB		
		Zone10				0x9 0xA		
		Zone9				0x8 0x9		
		Zone7 Zone8				0x7 0x8		
						+		
	l	Zone6				0x6		1

#### Satisfied by:

• Functions:

o Parking Aid System

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

### 2 Output Signal Details

- INTERNAL:
  - FPA\_Chime\_Status\_Flag
  - RPA\_Chime\_Status\_Flag
  - o FPA\_Chime\_Off\_Time
  - o RPA\_Chime\_Off\_Time
- MUX message on the CAN Bus

Signal Name	Size( bits)	Detail	Uni ts	Res.	Offset	State Encoode d	Min.	Max.	Send Logic
IVI_AudioWarn_D_R eq	1						0(0x0)	1(0x1)	always send
		ON				0x0			
		OFF				0x1			
Signal Name	Size( bits)	Detail	Uni ts	Res.	Offset	State Encoode d	Min.	Max.	Send Logic
IVI_VisuWarn_D_Rq	1						0(0x0)	1(0x1)	send 3 frames
		ON				0x0			
		OFF				0x1			
Signal Name	Size( bits)	Detail	Uni ts	Res.	Offset	State Encoode d	Min.	Max.	Send Logic
IVI_Stat	3						0(0x0)	7(0x7)	always send
		Normal				0x0			
		LVDS fault				0x1			
		Reserv ed				0x2			
		Reserv ed				0x3			
		Reserv ed				0x4			

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Re	Reserv ed	0x5		
Re	Reserv ed	0x6		
Re	Reserv ed	0x7		

#### Satisfied by:

- Functions:
  - o Parking Aid System

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	Park Aid Control Function Text Message Disabled
Limited Mode	Park Aid Control Function Text Message Disabled
Normal Mode	Park Aid Control Function Text Message Enabled / Disabled
Crank Mode	Park Aid Control Function Text Message Enabled / Disabled

#### Satisfied by:

- Functions:
  - o Parking Aid System

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

#### 4 Subsystem Algorithm Flowchart / State Diagram

#### Table 1.0 State Matrix for Front Park Aid Warning Chime

Operation al Mode	FpaChime_D_Rq Signal	FPA_Chime_Status_Fla g	FPA_Chime_Off_Tim e	
	Zone1_Chime (0x1)	Active (0x1)	0x01	
Normal	Zone2_Chime (0x2)	Active (0x1)	0x07	
	Zone3_Chime (0x3)	Active (0x1)	0x0A	

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	Zone4_Chime (0x4)	Active (0x1)	0x0D
	Zone5_Chime (0x5)	Active (0x1)	0x10
	Zone6_Chime (0x6)	Active (0x1)	0x13
	Zone7_Chime (0x7)	Active (0x1)	0x16
	Zone8_Chime (0x8)	Active (0x1)	0x19
	Zone9_Chime (0x9)	Active (0x1)	0x1C
	Zone10_Chime (0xA)	Active (0x1)	0x1F
	Zone11_Chime (0xB)	Active (0x1)	0x22
	Zone12_Chime (0xC)	Active (0x1)	0x25
	Zone13_Chime (0xD)	Active (0x1)	0x28
	Zone14_Chime (0xE)	Active (0x1)	0x2B
	Zone15_Chime (0xF)	Active (0x1)	0x2D
	Missing as per 1.4.1	Inactive (0X0)	0x00
А	II Other Cases	Inactive (0X0)	0x00

Table 1.0 State Matrix for Rear Park Aid Warning Chime

Operational	RpaChime_D_Rq	RPA_Chime_Status_F	RPA_Chime_Off_Ti
Mode	Signal	lag	me
	Zone1_Chime (0x1)	Active (0x1)	0x01
	Zone2_Chime (0x2)	Active (0x1)	0x07
	Zone3_Chime (0x3)	Active (0x1)	0x0A
	Zone4_Chime (0x4)	Active (0x1)	0x0D
	Zone5_Chime (0x5)	Active (0x1)	0x10
	Zone6_Chime (0x6)	Active (0x1)	0x13
	Zone7_Chime (0x7)	Active (0x1)	0x16
Normal	Zone8_Chime (0x8)	Active (0x1)	0x19
Normai	Zone9_Chime (0x9)	Active (0x1)	0x1C
	Zone10_Chime (0xA)	Active (0x1)	0x1F
	Zone11_Chime (0xB)	Active (0x1)	0x22
	Zone12_Chime (0xC)	Active (0x1)	0x25
	Zone13_Chime (0xD)	Active (0x1)	0x28
	Zone14_Chime (0xE)	Active (0x1)	0x2B
	Zone15_Chime (0xF)	Active (0x1)	0x2D
	Missing as per 1.4.1	Inactive (0X0)	0x00
All	Other Cases	Inactive (0X0)	0x00

#### Satisfied by:

- Functions:
  - o Parking Aid System

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



#### 5 Operation Description (supports algorithm flowchart /state diagram)

- The FPA\_Chime\_Status\_Flag, RPA\_Chime\_Status\_Flag, FPA\_Chime\_Off\_Time, and RPA\_Chime\_Off\_Time are set, maintained and cleared by this Chime software module.
- Shall sound the chime as per the Chime Arbitrator section of this SPSS.
- The FPA/RPA off time between chimes varies by distance from the obstruction that it is detecting. Obstructions with a closer proximity will have a smaller off time.

#### Satisfied by:

- Functions:
  - o Parking Aid System

Requirement ID: 5					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

#### **6 Indicator Color Coordinates**

None

#### Satisfied by:

- Functions:
  - o Parking Aid System

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 Parking Aid System

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

#### 8 Audio

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Refer to Audio Section in Chimes & Chime Arbitrator SPSS Section.

#### Satisfied by:

- Functions:
  - o Parking Aid System

Requirement ID: 8					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. Template Version	6.0				End of Requirement

#### 9 Switch Control Logic

Consumer access to Park Aid Module 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:
  - o Parking Aid System

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:
  - o Parking Aid System

Requirement ID: 10					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Reg. 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

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			-	
Operational_Mode	4 state indicator for cluster operational mode	Limited	Limited, Normal or Crank	Normal or Crank
PAM_Rear_Cfg	Configures cluster to allow Rear Park Aid pop up warning display in cluster when vehicle is in reverse. Set to disabled at Cluster Supplier Manufacturing Plant.	Do Not Init	Do Not Init	Do Not Init
PAM_Low_High_Cf g(配置字待申请)				
PAM_Fault_Warn_C fg	Allows RPA/FPA "Check Park Aid" fault warning in cluster. Set to disabled at Cluster Supplier Manufacturing Plant.	Do Not Init	Do Not Init	Do Not Init
RpaChime_D_Rq	Input CAN signal sent from the ACU	No_Chime (0x0)	No_Chime (0x0)	Do Not Init
FpaChime_D_Rq	Input CAN signal sent from the ACU	No_Chime (0x0)	No_Chime (0x0)	Do Not Init
PrkAidMsgTxt_D_Rq	Indicates system status to cluster	R Snsrs ON - F Snsrs ON(0x5)	R Snsrs ON - F Snsrs ON(0x5)	Do Not Init
PAS_AudioWarn_Stat	This signal indicates the muting states from PAS feature.	non-mute(0x0)	non-mute(0x0)	Do Not Init
PAS_FrObjDist	This is obstacle distance from front area of the host vehicle, unit in cm	Unshow distance(0x7E)	Unshow distance(0x7E)	Do Not Init
PAS_RrObjDist	This is obstacle distance from rear area of the host vehicle, unit in cm	Unshow distance(0x7E)	Unshow distance(0x7E)	Do Not Init
PAS_Prompt	This signal indicates the status of ultrasonic	No request(0x0)	No request(0x0)	Do Not Init

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	sensor which				
	supports PAS				
	feature. e.g if				
	any of six front				
	ultrasonic				
	sensor is failed,				
	the value = 0x1				
	shall be send				
	out and a				
	warning icon				
	shall be				
	provided to				
	driver.				
PrkAidSnsRlCntr_D_St	Range Data -				
at	Rear Center Left	Off(0x0)	Off(0x0)	Do Not Init	
	Park Aid sensor				
	Range Data -				
PrkAidSnsRrCntr_D_St		Off(0x0)	Off(0x0)	Do Not Init	
at	Right Park Aid	- ( )	- ( /	1 1 1 2 2 1 1 1 1 1	
	sensor				
PrkAidSnsRlCrnr_D_St	Range Data -	0(((0,0)	0.((0, 0)	5 N . 1 %	
at -	Rear Corner Left	Off(0x0)	Off(0x0)	Do Not Init	
	Park Aid sensor				
D.I.A.I.I.C D. C D. C.	Range Data -				
PrkAidSnsRrCrnr_D_St		Off(0x0)	Off(0x0)	Do Not Init	
at	Right Park Aid				
	sensor				
PrkAidSnsFlCntr_D_St	Range Data - Front Left				
at	Center Park Aid	Off(0x0)	Off(0x0)	Do Not Init	
al	sensor				
	Range Data -				
PrkAidSnsFrCntr_D_St	_				
at	Center Park Aid	Off(0x0)	Off(0x0)	Do Not Init	
at	sensor				
	Range Data -				
PrkAidSnsFlCrnr_D_St	_				
at	Corner Park Aid	Off(0x0)	Off(0x0)	Do Not Init	
at at	sensor				
	Range Data -				
PrkAidSnsFrCrnr_D_St	_			_	
at	Corner Park Aid	Off(0x0)	Off(0x0)	Do Not Init	
	sensor				
	Distance to				
	closest object				
C'ALDAC CADA DOSCO	measured/calcul	0(((0,0)	0.((0,0)	De Net Lett	
SidePrkSnsR4_D_Stat	ated in fourth	Off(0x0)	Off(0x0)	Do Not Init	
	sector on right				
	side.				
5		5		15 11 11	

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	, -			
SidePrkSnsL1_D_Stat	Distance to closest object measured/calcul ated in first sector on left side.	Off(0x0)	Off(0x0)	Do Not Init
SidePrkSnsL2_D_Stat	Distance to closest object measured/calcul ated in second sector on left side.	Off(0x0)	Off(0x0)	Do Not Init
SidePrkSnsL3_D_Stat	Distance to closest object measured/calcul ated in third sector on left side.	Off(0x0)	Off(0x0)	Do Not Init
SidePrkSnsL4_D_Stat	Distance to closest object measured/calcul ated in fourth sector on left side.	Off(0x0)	Off(0x0)	Do Not Init
SidePrkSnsR2_D_Stat	Distance to closest object measured/calcul ated in second sector on right side.	Off(0x0)	Off(0x0)	Do Not Init
SidePrkSnsR3_D_Stat	Distance to closest object measured/calcul ated in third sector on right side.	Off(0x0)	Off(0x0)	Do Not Init
SidePrkSnsR1_D_Stat	Distance to closest object measured/calcul ated in first sector on right side.	Off(0x0)	Off(0x0)	Do Not Init
FPA_Chime_Status_FI ag	Informs the Chime Arbitrator when the chime needs to be played.	Inactive (0x0)	Inactive (0x0)	Do Not Init



RPA_Chime_Status_FI	Informs the Chime Arbitrator when the chime needs to be played.	Inactive (0x0)	Inactive (0x0)	Do Not Init
FPA_Chime_Off_Time	State variable used by the Chime Arbitrator	Inactive (0x0)	Inactive (0x0)	Do Not Init
RPA_Chime_Off_Time	State variable used by the Chime Arbitrator to determine the off time between RPA chimes	Inactive (0x0)	Inactive (0x0)	Do Not Init
PA_Warn_Flg	State variable used by M/C Warning Arbitrator.	INACTIVE	INACTIVE	INACTIVE
IVI_VisuWarn_D_Rq	Signal indicates if drive close the singel turtle popup window	ON (0x0)	ON (0x0)	ON (0x0)
PAS_Display_Format	Signal indicates if single turtle popup window shall be diaplayed to driver	None (0x0)	None (0x0)	None (0x0)
IVI_Stat	Signal indicates the status of IVI	Normal (0x0)	Normal (0x0)	Normal (0x0)
IVI_AudioWarn_D_Re q	This signal indicates if driver presse the button to turn on/off audio warning.	ON (0x0)	ON (0x0)	ON (0x0)

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Requirement ID: 11		
Rationale		
Acceptance Criteria		
Notes		
Source	Owner	

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Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
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#### 12 Prove Out

None

#### Satisfied by:

- Functions:
  - o Parking Aid System

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

Refer to Message Center Function description reference Message ID W584

#### Satisfied by:

- Functions:
  - o Parking Aid System

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

#### 14 Self Test

None

### Satisfied by:

- Functions:
  - o Parking Aid System

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

#### 15 Engineering Test Mode



Reference section "Dealer / Engineering Test Mode (ETM)"

#### Satisfied by:

- Functions:
  - o Parking Aid System

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

Block Num	Block Description	Byte(s)	Bits	State: Descri ption	"0"	"1"	Comm ents/ Inform ation
PACKETED	BLOCKS						

#### Satisfied by:

- Functions:
  - o Parking Aid System

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

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Func. Criticality EC-0048 Mod. PWR-up / Reset EC-0049 Low-High Vol. Perform. EC-0058 Oper. Voltage Perf. IS-0052 IS-0053 Oper. Voltage Func. Evaluation IS-0327 Flickering of Lamps IS-0329 MC - Gen. Rqmts. IS-0344 Status Ind. Visiblity SY-0046 Feedback 17-0124 

NORTH AMERICAN WARNINGS AND INDICATORS STRATEGY IS-0379

#### Satisfied by:

- Functions:
  - o Parking Aid System

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

#### 18 Voltage Levels

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

#### Satisfied by:

- Functions:
  - Parking Aid System

Requirement ID: 18					
Rationale					
Acceptance Criteria					
Notes					
Source			Owner		
Source Req.			V&V Method		
Туре		Priority	Status	In-Progress	
Req. Template Version	6.0				End of Requirement

#### 19 Indicator Graphics / Display Format

None

#### Satisfied by:

- Functions:
  - o Parking Aid System

Requirement ID: 19		
Rationale		
Acceptance Criteria		
Notes		
Source	Owner	

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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.

If PAM\_Fault\_Warn\_Cfg is "Disabled", the cluster shall never log a missing message DTC for this feature.

#### Satisfied by:

- Functions:
  - o Parking Aid System

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

В

#### Satisfied by:

- Functions:
  - Parking Aid System

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

Date Issued: 2023/02/14



### **2 OPEN CONCERNS**

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

Date Issued: 2023/02/14



### **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	<ul> <li>Add the PAS pop-up function</li> <li>Add the signal "IVI_VisuWarn_D_Rq"," PAS_Display_Format" related to PAS pop-up function</li> <li>Add the IVI LVDS fault status signal "IVI_Stat"</li> <li>Change the turtle chart changed to radar curve wall</li> <li>Chang the "PAS_FrObjDist" measuring rang from 70cm to 110cm</li> <li>Unshow the object distance when the 360-view button open</li> <li>Unshow the corresponding object distance when receive the signal "PAS_FrObjDist = 0", "PAS_RrObjDist = 0"</li> <li>Change the PAS fault meter metion message ID C/O W584</li> <li>Add all sensor failed need toast "泊车系统故障" when open avm screen</li> <li>Update the signal "PAS_Prompt" value</li> <li>Update side pas signal enumeration value</li> <li>Add the can signal send logic</li> </ul>	Zhang Min

Date Issued: 2023/02/14

# Ford

## Function Specification Feature

### **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

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Document ends here.

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