

Research & Vehicle Technology "Infotainment Systems Product Development"

Feature - Trailer Settings

Infotainment Subsystem Part Specific Specification (SPSS)

Version 1.8 **UNCONTROLLED COPY IF PRINTED**

Version Date: July 6, 2023

FORD CONFIDENTIAL



Revision History

Date	Version		Notes
October 22, 2018	1.0	Initial Release	
ıne 21, 2019	1.1		
	574948/B-Arcl	nitectural Design	tmertiri: update content. Many changes
		4387/B-Trailer Settings Logical Signal Mapping	tmertiri: Added trailer fuel economy signals. Removed
			LTrlrBrkGain from signals list. Dublicate signal Other signal
	TDC IID DEO	202505/D Tarilar Cattings Olivat Du	LTrlrBrkGainSerTx
	IKS-IIK-REQ-	323585/B-Trailer Settings Client Rx	tmertiri: Remove signal LTrlrBrkGain. Dublicate functionality of the signal LTrlrBrkGainSerTx. Remove req
			323385 since its dublicate of 326167
	TRS-MD-REQ	-323372/B-LTrlrAnOffstAng	tmertiri: formatting.
	TRS-MD-REQ	-323375/B-LTrlrAidTrgtld	tmertiri: typo fix. Change Target IF to Target ID
	TRS-MD-REQ	-324922/B-TrlrSetTp	tmertiri:Added content for Trailer Average Fuel Economy
		-324922/B-TrlrSetTp	tmertiri:Added content for Trailer Average Fuel Economy
		neral Requirements	tmertiri:multiple changes
	TRS-REQ-324	4858/B-Trailer Settings Menu Configurations	tmertiri: rename Btt_cfg to BTT_Full_Cfg. Make changes
	TRC REO 220	0236/B-Configuration Related Requirements	table tmertiri: removed req 324859. Its similar to 326379
		0240/B-When to show Trailer Reverse Guidance	tmertiri:Update conditions
	Setting	DE TOID WHICH TO SHOW ITAILE! NEVELSE GUIDANCE	unerun.opaate conditions
		0254/B-Trailer Connected Logic	tmertiri:update content
		0255/B-Trailer Disconnected Logic	tmertiri:update content
	TRS-REQ-324	1861/B-Trailer Connected Detection	tmertiri:update requirement
		1886/B-Default Values	tmertiri; added default value for the signals
	TRS-REQ-326	376/B-TP related requirements	tmertiri:added new requirement related to Trailer Average
	TD0 DE0 44	1000/0 0 111 1 1	Fuel Economy
		1859/B-Server 1 Update	tmertiri: added TAFE to list of transmitted data
		6378/B-Odometer value 6380/B-Faulty Odometer Value	tmertiri: updated odometer digits from 6 to 7. tmertiri:added clarification
		6416/B-No Active Trailer	tmertiri: added clarification for blank odometer meaning
		IS51/A-TAFE Sending Data Through TP	tmertiri: new requirement
		5529/B-Shifting Out Of Park Gear While In Setup	tmertiri: added clarification
		3401/B-Trailer ID	tmertiri: added clarifications
		3500/B-Measurements Out Of Range	tmertiri: added clarification
		3504/B-Change Trailer Sticker	tmertiri: added clarification
		9846/B-HMI Related requirements	tmertiri: remove 329850 and various clarifications
		9847/B-Cancel exit function while not in setup	tmertiri: added clarification
		9848/B-Cancel function while in setup	tmertiri: added clarification
		9849/B-Cancel Setup no	tmertiri: added clarification
		•	tmertiri: added clarification
		9851/B-End setup yes	
	Profile	9853/B-Select Trailer Profile as the Active Trailer	tmertiri: clarification and remove Trailer Sway since its no part of the settings
		6112/A-Active Trailer Change	tmertiri: new req
		9854/B-Add trailer for TBA or TRG Initiated Setup	tmertiri: added clarification
		6130/A-Initiating Auto Hitch	tmertiri: new requirement
		9855/B-When selecting an existing trailer	tmertiri: added clarification
		9856/B-Activate TBA	tmertiri: added clarification
		9858/B-Sorting order function	tmertiri: added clarification
		<u> </u>	
		9859/B-Non applicable trailers	tmertiri: added clarification
		9864/B-Begin setup	tmertiri: added clarification
		9881/B-Save or confirm setup trailer measurement	tmertiri: added clarification
		9887/B-Sticker Only setup TBA TRG	tmertiri: added clarification
		9888/B-Setup sticker trailer settings activation	tmertiri: added clarification
		9889/B-Activate TBA/TRG after Measurement and	tmertiri: added clarification
	Sticker Setup	2004/B Bequest to Consol TDA/TDC Cature	tmortisis added clarification
		2294/B-Request to Cancel TBA/TRG Setup	tmertiri: added clarification
		0296/B-Complete Setup and Store Calculate Trailer on Signals to Trailer Profile	tmertiri: added clarification
	Aligie Detection	on Orginals to Italiei Fronie	

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 2 of 65	i

Ford	Ford Motor Company		Subsystem Part Spe Enginee	cific Specification ering Specification
ı	TRS-REQ-330300/B-Trailer Angle Li	mit Mapping	tmertiri: added clarification	
	TRS-REQ-346100/A-Trailer Name	3	tmertiri: added clarification	
	TRS-REQ-346101/A-Trailer Type		tmertiri: added clarification	
	TRS-REQ-346102/A-Save Trailer		tmertiri: added clarification	
	TRS-REQ-346103/A-Trailer Brake Tr	VDE	tmertiri: added clarification	
	TRS-REQ-346104/A-Trailer Brake E	•	tmertiri: added clarification	
	TRS-REQ-346105/A-Trailer BLIS (B'		tmertiri: added clarification	
	TRS-REQ-346106/A-Trailer Blind Sp		tmertiri: added clarification	
	(Measurement E)	of Detection Length	ineriii. added ciainication	
	TRS-REQ-346107/A-Trailer Backup	Setup Measurements (A-D)	tmertiri: added clarification	
	TRS-REQ-346108/A-General Sorting		tmertiri: added clarification	
	Trailer Names			
	TRS-REQ-346109/A-Close TBA/TRO	3 Trailer Selection Menu	tmertiri: added clarification	
	TRS-REQ-329860/B-Generic missing	g signal	tmertiri:updated wording. Added 5 sec	condition
	TRS-REQ-332801/B-Trailer Brake G	ain Values	tmertiri: updated req to consider ign off	status change
	TRS-REQ-332802/B-TBA Status De	termination	tmertiri: added Null Status	_
	TRS-REQ-332803/B-TRG Status De	termination	tmertiri: type in req name	
	TRS-REQ-332804/B-BttFilSys		tmertiri: update table after removing LB	RtRightSt signal
	TRS-REQ-334562/A-TAFE Trailer A	verage Fuel Economy Related	tmertiri: new req	<u> </u>
	Req		<u>,</u>	
	TRS-REQ-334511/A-TAFE LOdo		tmertiri: new req	
	TRS-REQ-334512/A-TAFE LFuelCo	ns	tmertiri: new req	
	TRS-REQ-334513/A-TAFE Odomete		tmertiri: new req	
	TRS-REQ-334514/A-TAFE Converte	ed Values	tmertiri: new req	
	TRS-REQ-334515/A-TAFE Reset Va		tmertiri: new req	
	TRS-REQ-334516/A-TAFE Fuel Eco		tmertiri: new req	
	TRS-REQ-334517/A-TAFE Total Dis	•	tmertiri: new req	
	TRS-REQ-334518/A-TAFE Total Fue		·	
			tmertiri: new req	
	TRS-REQ-334544/A-TAFE Displayin	ig Offits	tmertiri: new req	
	TRS-REQ-337297/A-Data Storing		tmertiri: added clarification	
	TRS-REQ-346111/A-Default Trailer		tmertiri: new req	
	TRS-REQ-346113/A-Odometer 0 Va	lue	tmertiri: new req	
	574950/B-Functional Definition		tmertiri: new diagram	
	TRS-SD-REQ-328609/B-Delete Trail		tmertiri:update parameter	
	TRS-UC-REQ-332884/B-Trailer Brak	e Gain Normal Operation	tmertiri: corrected paramter for post cor	ndition
	TRS-574955/B-Appendix: Reference	Documents	tmertiri: remove HMI SPSS link docum	ent reference. It is
			no longer needed.	
	1 10 1			
tobre 23, 2019	1.2			
	FUR-REQ-324387/C-Trailer Settings		tmertiri: remove LTrlrSns	
	TRS-IIR-REQ-323585/C-Trailer Setti	ngs Client Rx	tmertiri:removed LTrlrSns. MD Not nee	
	TRS-MD-REQ-323369/B-LOdoCoun	t	tmertiri: rewording definition to make cl	ear the signal
			purpose	uoturo
	TRS-MD-REQ-365622/A-LOdo		tmetiri: existing signal. added to the str Reorganization	ucture.
			tmetiri: existing signal, added to the str	ucture
	TRS-MD-REQ-365625/A-LFuelCons		Reorganization	
	574949/C-General Requirements		tmertiri: changes to various requiremen	nts in the structure
	TRS-REQ-330254/C-Trailer Connec		tmertiri: added clarification	
	TRS-REQ-330255/C-Trailer Disconn		tmertiri: added clarification	
	TRS-REQ-326380/C-Faulty Odomet		tmertiri: added content for LOdo signal	
	TRS-REQ-334551/B-TAFE Sending		tmertiri: make changes to decimal nota	ition
	TRS-REQ-346112/B-Active Trailer C		tmertiri: added clarification	
	TRS-REQ-330294/C-Request to Car		tmertiri: added clarification	
	TRS-REQ-334515/B-TAFE Reset Va	aiues	tmertiri: update wording	
	TRS-REQ-334517/B-TAFE Total Dis	tance Traveled	tmertiri: reword to remove statement fo done at every period	r calculations to b
	TRS-REQ-334518/B-TAFE Total Fue	el Consumed	tmertiri: reword to remove statement fo done at every period	r calculations to b
	TRS-REQ-334544/B-TAFE Displayin	na Units	tmertiri: add max display units	
j			tmertiri: new requirement. No new cont	ent though
	L TRS-REQ-365819/A-Content Savino			
	TRS-REQ-365819/A-Content Saving TRS-574955/C-Appendix: Reference		tmertiri: update references	
	TRS-574955/C-Appendix: Reference		tmertiri: update references	

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ıgust 13, 2020	1.3	
	FUR-REQ-324387/D-Trailer Settings Logical Signal Mapping	tmertiri: new content related to Range per full charge
	TRS-IIR-REQ-323585/D-Trailer Settings Client Rx	tmertiri: new content related to Range per full charge
	MD-REQ-394535/A-LTrlid	tmertiri: new content related to Range per full charge
	MD-REQ-394536/A-LtrlRangeVal	tmertiri: new content related to Range per full charge
	TRS-IIR-REQ-323529/B-Trailer Settings Client Tx	tmertiri: new content related to Range per full charge
	MD-REQ-394533/A-LTrlActive	tmertiri: new content related to Range per full charge
	MD-REQ-394534/A-LTrlReset	tmertiri: new content related to Range per full charge
	TRS-REQ-334551/C-TAFE Sending Data Through TP	tmertiri: added Range per full charge to TP
	TRS-REQ-394543/A-Range Per Full Charge	tmertiri: new content related to Range per full charge
	TRS-REQ-346102/B-Save Trailer	tmertiri: update req
	TRS-REQ-365819/B-Content Saving in Client	tmertiri: add Range per full charge
	574950/C-Functional Definition	tmertiri: new content related to Range per full charge
	TRS-FUN-REQ-394531/A-Range Per Full Charge	tmertiri: new content realted to Range per full charge
	783438/A-Requirements	tmertiri: new content realted to Range per full charge
	TRS-REQ-395606/A-Function Availability	tmertiri: new content related to Range per full charge
	TRS-REQ-394538/A-Store Data	tmertiri: new content related to Range per full charge
	TRS-REQ-394539/A-Active Trailer Update TRS-REQ-394540/A-Active Trailer Reset	tmertiri: new content related to Range per full charge tmertiri: new content related to Range per full charge
	TRS-REQ-394541/A-Invalid Value	tmertiri: new content related to Range per full charge
	TRS-REQ-394541/A-Invalid Value TRS-REQ-395570/A-ID Beyond the Range	tmertiri: new content related to Range per full charge
	783439/A-Use Cases	tmertiri: new content related to Range per full charge
	TRS-UC-REQ-395607/A-Data Update	tmertiri: new content related to Range per full charge
	783440/A-White Box Views	tmertiri: new content related to Range per full charge
	783441/A-Activity Diagrams	tmertiri: new content realted to Range per full charge
	TRS-ACT-REQ-394559/A-Trailer Range Per Full Charge	tmertiri: new content related to Range per full charge
	783442/A-Sequence Diagrams	tmertiri: new content related to Range per full charge
	TRS-SD-REQ-394560/A-Trailer Range Per Full Charge	tmertiri: new content related to Range per full charge
rch 24, 2021	1.4	
, -	574948/C-Architectural Design	tmertiri: various changes to the structure. New signals et
	FUR-REQ-324387/E-Trailer Settings Logical Signal Mapping	tmertiri: dded various new signals for btt 5g changes
	TRS-IIR-REQ-323585/E-Trailer Settings Client Rx	tmertiri: dded various new signals for bit 3g changes tmertiri:adding BTT5G related signals
	MD-REQ-346118/A-LSodLeftSt	tmertiri:added new signal for btt 5g changes
	MD-REQ-346119/A-LSodRightSt	tmertiri:added new signal for bit 5g changes
	MD-REQ-346125/A-LBttRightSt	tmertiri:added new signal for bit 5g changes
	MD-REQ-410850/A-LBitLeftSt	tmertiri:added new signal for bit 5g changes
	MD-REQ-410851/A-SodLSt	tmertiri:added new signal for btt 5g changes
	MD-REQ-410852/A-SodRSt	tmertiri:added new signal for btt 5g changes
	TRS-IIR-REQ-323529/C-Trailer Settings Client Tx	tmertiri:adding BTT5G related signals
	MD-REQ-346122/A-LBttMeasure1	tmertiri:added new signal for btt 5g changes
	879944/A-Internal Variable	tmertiri: added new structure for btt 5g
	MD-REQ-412096/A-TrailerWidthRaw	tmertiri: new md. added for btt 5g changes
	574949/D-General Requirements	tmertiri: added new requirement to the structure
	REQ-346114/A-Default Value Update	tmertiri: added new requirement to clarify people not
		knowledgeable with the spec
	574950/D-Functional Definition	tmertiri: added new function. Btt 5G
	TRS-FUN-REQ-408698/A-BTT 5G	tmertiri: new content. Btt 5G related
	864623/A-Btt 5G Overview	tmertiri: new content. Btt 5G related
	880137/A-Requirements	tmertiri: new requirements for btt 5g
	TRS-REQ-408700/A-Trailer Type. Sod Unavailable	tmertiri: new content. Btt 5G related
	TRS-REQ-408701/A-Trailer Length	tmertiri: new content. Btt 5G related
	TRS-REQ-408708/A-Conventional Trailer	tmertiri: new content. Btt 5G related
	TRS-REQ-408709/A-Unconventional Trailer	tmertiri: new content. Btt 5G related
	TRS-REQ-409085/A-Trailer Length Not Available	tmertiri: new content. Btt 5G related
	TRS-REQ-409188/A-Trailer Type to Trailer Length Relationship	tmertiri: new content. Btt 5G related
	TRS-REQ-410/65/A-Lost Signals	tmertiri: new content. Bit 5G related
	TRS-REQ-408702/A-Delayed Check TRS-REQ-410846/A-BTT 5G Status	tmertiri: new content. Btt 5G related
	TRS-REQ-410846/A-BTT 5G Status TRS-REQ-410847/A-BTT 5G Configuration	tmertiri: new content. Btt 5G related tmertiri: new content. Btt 5G related
		tmertiri: new content. Btt 5G related
	873095/A-Use Cases TRS-UC-REQ-410734/A-Btt 5G Valid Values Input	
	TRS-UC-REQ-410734/A-Bit 5G Valid Values Input TRS-UC-REQ-410735/A-Bit 5G Invalid Values Input	tmertiri: new content. Btt 5G related tmertiri: new content. Btt 5G related
	TRS-UC-REQ-410735/A-Bit 5G Invalid Values input TRS-UC-REQ-410737/A-Bit 5G Invalid Trailer	tmertiri: new content. Bit 5G related
	TWO-OO-WEG-#1019/IM-DIL 9G INVAING TRAINEI	uneral, new content, bit 50 felated
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ptember 17, 2021	1.5	
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	2023 The information contained in this document is	

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	574040/D A		Transfer Hell Took deads	
	574948/D-Architectural Design		tmertiri: added T360 signals	
			tmertiri: removed logical signals	
	FUD DEC 204227/5 T - ''- 2'	and animal Cinnal Marris 1	Physical names SodLeft_D_Stat	and the right. Signal
	FUR-REQ-324387/F-Trailer Setting	igs Logical Signal Mapping	references are removed through	
				out the whole spec. No
			longer needed.	
	934914/A-Trailer 360 Logical Map	ping Table	tmertiri: new content for T360	
İ				
	TRS-IIR-REQ-323585/F-Trailer S	ettings Client RX	tmertiri: added signals for T360	
	TRS-MD-REQ-432042/A-LCamra	CalibSt	tmertiri: added new signal	
İ			Ŭ	
	TRS-MD-REQ-432043/A-LTConn		tmertiri: added new signal	
	TRS-MD-REQ-436264/A-LtSetCa	lib	tmertiri: added new signal	
ŀ	TRS-IIR-REQ-323529/D-Trailer S		tmertiri: added signals for T360	
	TRS-MD-REQ-432038/A-LTWidth		tmertiri: added new signal	
	TRS-MD-REQ-432040/A-LCamra	Н	tmertiri: added new signal	
		11		
	TRS-MD-REQ-432044/A-LHitch		tmertiri: added new signal	
ſ	TRS-MD-REQ-432041/A-LCamra	CalibRd	tmertiri: added new signal	
		Calibrity	Ŭ	
	574949/E-General Requirements		tmertiri:made changes to structu	re
ļ	•		tmertiri: added signals for which	
	TRS-REQ-329860/C-Generic mis	sing signal		
		<u> </u>	canceled in case signals go miss	
ſ	956750/A-Trailer Selection Opera	tion While in TBA/TRG	tmertiri: new requirement. added	for clarification
ŀ	REQ-442397/A-Add new trailer from		1	
		I DAVING Haller Select Screen	tmertiri: new requirement. added	for clarification
	when there is no active trailer		audiomoni. added	
İ	REQ-442398/A-Add new trailer from	om TBA/TRG trailer select screen		
			tmertiri: new requirement. added	for clarification
	when there is already an active tra	aller	72	
	REQ-442399/A-Select saved traile	er from TBA/TRG trailer select		
			tmertiri: new requirement. added	for clarification
	screen when there is no active tra		· ·	
[REQ-442400/A-Select saved trail	er from TBA/TRG trailer select	Annualist annual for the second	d for almostica (* :
	screen when there is already an a		tmertiri: new requirement. added	I for clarification
		ctive trailer		
	574950/E-Functional Definition		tmertiri: changes in structure	
	TRS-REQ-410846/B-BTT 5G Stat	TIC	tmertiri: removed sodlst and sod	ret no longer needed
			1	ist. No longer needed
	TRS-FUN-REQ-436278/A-Trailer	360	tmertiri: new content	
•	943344/A-Overview		tmertiri: new content	
	945146/A-Requirements		tmertiri: new content	
ŀ	TRS-REQ-436265/A-TBA2 Calibr	otion	tmertiri: new content	
		ation		
	947650/A-Trailer Angle Detection		tmertiri: new content	
•	TRS-REQ-437298/A-Requesting	TAD Calibration	tmertiri: new content	
	TRS-REQ-437299/A-Client Displa	ys TAD Calibration Instructions	tmertiri: new content	
ŀ	TRS-REQ-437300/A-TAD Calibra			
			tmertiri: new content	
	TRS-REQ-437301/A-User Reques	sts to Cancel during TAD		
	Calibration	· ·	tmertiri: new content	
	TRS-REQ-437302/A-Client Fails	or Cancels TAD Request	tmertiri: new content	
	TRS-REQ-432063/A-Camera Cal	bration Procedure	tmertiri: new content	
•				
	TRS-REQ-435517/A-Measurement	nt Setup Cancelation	tmertiri: new content	
	934943/A-Use Cases		tmertiri: new content	
•		00 O 1 B 11 - A 11 - 11 - 1		
	TRS-UC-REQ-431697/A-Trailer 3	60 Soft Button Activation	tmertiri: new content	
	TRS-UC-REQ-431698/A-Trailer 3	60 Soft Button Deactivation	tmertiri: new content	
}			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
	TRS-UC-REQ-431703/A-TBA2 Tr	alier Lett view selection in TBA	tmertiri: new content	
	or TRG		anothin new content	
ļ		ailor Dight View in TDA or TDO	tmortiri: now contant	
	TRS-UC-REQ-431705/A-TBA2 Tr		tmertiri: new content	
ſ	TRS-UC-REQ-431707/A-Trailer 3	60 Setup Menu Activation	tmertiri: new content	·
ŀ			†	
	TRS-UC-REQ-431711/A-Trailer 3		tmertiri: new content	
	has not entered Trailer Length or	Trailer Width	and an income domestic	
İ	TRS-UC-REQ-441257/A-Trailer 3			
			tmertiri: new content	
	has not entered Trailer Hitch to Be	ox measurements		
	TRS-UC-REQ-431713/A-Trailer 3	60 Measurements - Customer		
			tmertiri: new content	
	has entered trailer type, trailer len	yur, irailer widiri, and nitch to box	unerun. new content	
	measurement			
İ	TRS-UC-REQ-431719/A-Trailer 3	60 Measurements - Customer		
			tmertiri: new content	
	has entered all measurements an	I AD calibration is complete		
ſ	TRS-UC-REQ-431721/A-Trailer 3		tmertiri: new content	
	CO ILEG IOTIZITA ITALIETO		A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	
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ıary 21, 2022	1.6			
	ELID DEO 22/207/0 Troilor 0-4:	age Logical Cignal Manning	tmortiri: add trailer validatic = =!=	nal
	FUR-REQ-324387/G-Trailer Setting		tmertiri: add trailer validation sign	
	934914/B-Trailer 360 Logical Map	ping Table	tmertiri: add new signal for tailer	360
ŀ	TRS-IIR-REQ-323585/G-Trailer S	ettings Client KX	tmertiri: add new signal for traile	1 300
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TRS-REQ-330237/B-When to show Trailer Blind Spot Detection Setting. Functional Education 1945 1468 Requirements 1RS-REQ-4373008-17-AD Calibration Completed 1RS-REQ-4373008-17-AD Calibration Completed 1RS-REQ-4373008-17-AD Calibration Completed 1RS-REQ-4373008-18-Bit Spot Setting 17-AD Calibration 1RS-REQ-4373008-18-Bit Spot Cancels TAD Request 1RS-REQ-4375008-18-Bit Spot Cancels TAD Request 1RS-REQ-43551769-Resourement Setup Cancelston 1RS-REQ-43551769-Resourement Setup Cancelston 1RS-REQ-43551769-Resourement Setup Cancelston 1RS-BCQ-472801A-Client Cancels Complete 1RS-BCQ-REQ-4371968-Trailer 369 Measurements - Customer 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-472804-AT railer 369 Measurements - Cancera Calibration Complete 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx 1RS-BCQ-32804-AT railer Settings Clorent Tx	Ford	Ford Motor Company		Subsystem Part Specific Speci Engineering Speci	
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574950/H-Functional Definition tmertiri: Add Tow Haul TRS-FUN-REQ-436278/B-Trailer 360 tmertiri: new diagram added for clarification 1135471/A-Views tmertiri: new diagram added for clarification 1135472/A-Sequence Diagrams tmertiri: new diagram added for clarification REQ-527977/A-Calibration Sequence tmertiri: new diagram added for clarification REQ-527977/A-Calibration Sequence tmertiri: seq diagram TRS-FUN-REQ-575387/A-Tow Haul tmertiri: New content 1221608/A-Trailer Tow tmertiri: New content 1221609/A-Requirements tmertiri: New content TRS-REQ-575178/A-Trailer Profile Additional Elements tmertiri: New content TRS-REQ-575178/A-Default State tmertiri: New content TRS-REQ-575178/A-Tow Haul activation trigger logic. tmertiri: New content TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575198/A-Active Trailer Profile Deletion with linked SDM Tow/Haul transition to No Active Trailer tmertiri: New content TRS-REQ-575198/A-Disabling Tow/Haul toggle of an Active Trailer tmertiri: New content TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer tmertiri: New content TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer tmertiri: New content	Jule 2022	1.0			*****
TRS-FUN-REQ-436278/B-Trailer 360 tmertiri: new diagram added for clarification 1135471/A-Views tmertiri: new diagram added for clarification 1135472/A-Sequence Diagrams tmertiri: new diagram added for clarification REQ-527977/A-Calibration Sequence tmertiri: new diagram added for clarification tmertiri: new diagram added for clarification tmertiri: new diagram added for clarification tmertiri: seq diagram tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri: New content tmertiri:	lly 6, 2023			T	
1135471/A-Views tmertiri: new diagram added for clarification 1135472/A-Sequence Diagrams tmertiri: new diagram added for clarification REQ-527977/A-Calibration Sequence tmertiri: seq diagram TRS-FUN-REQ-575387/A-Tow Haul tmertiri:new function 1221608/A-Trailer Tow tmertiri: New content 1221609/A-Requirements tmertiri: New content TRS-REQ-575177/A-Trailer Profile Additional Elements tmertiri: New content TRS-REQ-575177/A-Trailer Profile Additional Elements tmertiri: New content TRS-REQ-575178/A-Default State tmertiri: New content TRS-REQ-575179/A-Tow Haul activation trigger logic. tmertiri: New content TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575198/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM tmertiri: New content TRS-REQ-575198/A-Active Trailer Profile with linked SDM tmertiri: New content TRS-REQ-575198/A-Disabling Tow/Haul toggle of an Active Trailer tmertiri: New content TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer tmertiri: New content					
1135472/A-Sequence Diagrams tmertiri: new diagram added for clarification REQ-527977/A-Calibration Sequence tmertiri: seq diagram tmertiri: new diagram added for clarification tmertiri: seq diagram tmertiri: new diagram tmertiri: new diagram tmertiri: new diagram tmertiri: new diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram diagram			60		
REQ-527977/A-Calibration Sequence tmertiri: seq diagram TRS-FUN-REQ-575387/A-Tow Haul tmertiri: New content 1221608/A-Trailer Tow tmertiri: New content 1221609/A-Requirements tmertiri: New content TRS-REQ-575177/A-Trailer Profile Additional Elements tmertiri: New content TRS-REQ-575178/A-Default State tmertiri: New content TRS-REQ-575179/A-Tow Haul activation trigger logic. tmertiri: New content TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575197/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575199/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer Tmertiri: New content					
TRS-FUN-REQ-575387/A-Tow Haul 1221608/A-Trailer Tow 1221609/A-Requirements TRS-REQ-57517/A-Trailer Profile Additional Elements TRS-REQ-575178/A-Default State TRS-REQ-575178/A-Tow Haul activation trigger logic. TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575197/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer View content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertire New Content Impertir					
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1221609/A-Requirements TRS-REQ-575177/A-Trailer Profile Additional Elements TRS-REQ-575178/A-Default State TRS-REQ-575178/A-Down Haul activation trigger logic. TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575180/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575189/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575199/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer Trailer Profile Trailer Profile Trailer Profile Trailer Trailer Profile Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile Trailer Trailer Profile T			1		
TRS-REQ-575177/A-Trailer Profile Additional Elements tmertiri: New content TRS-REQ-575178/A-Default State tmertiri: New content TRS-REQ-575179/A-Tow Haul activation trigger logic. TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile tmertiri: New content TRS-REQ-575197/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575198/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575190/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575190/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575190/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer					
TRS-REQ-575178/A-Default State TRS-REQ-575179/A-Tow Haul activation trigger logic. TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575197/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575198/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer			Additional Elements		
TRS-REQ-575179/A-Tow Haul activation trigger logic. TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575189/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575198/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer Trailer Profile					
TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile TRS-REQ-575197/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575198/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575199/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer trailer New content			ration trigger logic.		
TRS-REQ-575197/A-Active Trailer Profile Deletion with linked SDM Tow/Haul TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575199/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer		TRS-REQ-575180/A-Changing Drive			
TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer TRS-REQ-575199/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer		TRS-REQ-575197/A-Active Trailer F	Profile Deletion with linked	tmertiri: New content	
TRS-REQ-575199/A-Disabling Tow/Haul toggle of an Active Trailer Profile TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer		TRS-REQ-575198/A-Active Trailer F		tmertiri: New content	
Trailer Profile the trailer TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer the trailer the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the trailer than the t					
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			Haul toggle of an Active Trailer	tmertiri: New content	
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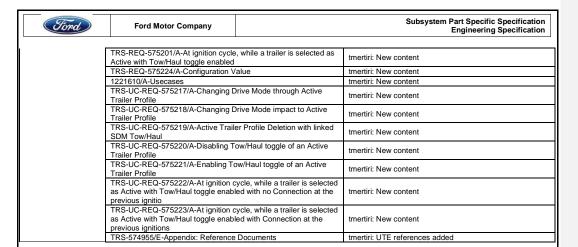


Table of Contents

٦ı	EVISION HISTORY		2
ı	ARCHITECTURAL DESIGN		12
	1.1 TRS-CLD-REQ-324389/B-Tra	iler Settings Client	12
	1.2 TRS-CLD-REQ-324444/B-Tra	iler Settings Server 1	12
		iler Settings Server 2	
		Settings Logical Signal Mapping	
		able	
	1.6 TRS-IIR-REQ-323585/H-Traile	er Settings Client Rx	14
		OdoCount	
		Odo	
		FrlrAnOffstAng	
		FrlanOffstDir	
		FrirAnCalib	
		FrIrAidTrgtId	
		FrirAidTrirID	
		ifirAid FiriDifeMde	
		-LTrIrBrake	
		-LTrlrLamp -Lign	
		-Ligit -TrailerBackupAssist_St	
		-TrailerBackupAssist_St	
		-Autohitch_St	
		PrkGainSerTx	
	1.6.17 TRS-MD-REQ-332797/A-L1111	-LBttLeftSt	10
		-LFuelCons	
		d	
		angeVal	
		JLeftSt	
		dRightSt	
	1.6.23 MD-REQ-346125/A-LBttF	RightSt	17
		_eftSt.	
		-LCamraCalibSt	
		-LTConnectCamera	
		-LtSetCalib	
		-LTrlrValid	
		-LTrlrCamMsg	
		ar	
		er Settings Client Tx	
		FriridSel	
		FrIrAidE	
		FrIrAidSet	
		FrIrAnDirMem	
		rlrTrgPtrnID FrlridNo	
		riridino	
		FirAidMde	
		-TrirSetTp	
		-Tril Set i pLBttMeasure	
		-LtrirHitchMsg	
_		uiii iiu iivisy	
ľ	FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 8 of 65
1	2023	rne iniormation contained in triis document is Proprietary to Ford Motor Company.	

Fi	md	Ford Motor Compan	ny	Subsystem F	Part Specific Specification Engineering Specification
1.7.13	TRS-N	/ID-REO-332798/Δ-I Tr	rlrBrkG:	ainClientTx	22
1.7.14				SILIONETT X	
1.7.15					
1.7.16					
1.7.17					
1.7.18					
1.7.19					
1.7.20				alibRq	
1.8.1	TRS-MD	-REQ-324887/A-Featu	ıre_St		23
1.9	TRS-IIR-RE	EQ-324921/A-Trailer S	ettings	Server 1 Rx	24
1.9.1	TRS-MD	-REQ-324922/B-TrlrSe	etTp		24
1.10.1	MD-RI	EQ-412096/A-TrailerW	'idthRav	N	24
GENER	RAL REQUIR	EMENTS			25
2.1	TRS-REQ-	324858/B-Trailer Settir	ngs Mei	nu Configurations	25
			-	ed Requirements	
2.2.1				ailer Blind Spot Detection Setting	
2.2.2				o Trailer Backup Assist Setting	
2.2.3				ailer Reverse Guidance Setting	
2.2.4	TRS-RF	Q-330240/Δ-When to s	show Tr	ailer Backup Setup Setting	26
2.2.5				nange Trailer Sticker Setting	
2.2.6	TRS-RF	0-330242/C-Trailer Co	nnecte	d Logic	26
2.2.7				cted Logic	
				•	
				rties	
	-			Detection	
				pes	
2.6	TRS-REQ-	324864/A-Trailer Milea	ge		28
2.7	TRS-REQ-	324886/C-Default Valu	ies		28
2.8 F	REQ-3461	14/A-Default Value Upo	date		28
2.9	TRS-REQ-	324893/A-Mode Reset			28
2.10	TRS-REQ-	326376/B-TP related re	equiren	nents	28
2.10.1				te	
2.10.2				ength	
2.10.3	TRS-F	REQ-326378/B-Odome	ter valu	ıe	29
2.10.4	TRS-F	REQ-326380/C-Faulty (Odome	ter Value	29
2.10.5				er	
2.10.6	TRS-F	REQ-334551/C-TAFE S	Sending	Data Through TP	29
2.11	TRS-REQ-	326497/A-Server 2 upo	date		29
2.12	TRS-REQ-	326529/B-Shifting Out	Of Pari	k Gear While In Setup	30
2.13	TRS-REQ-	328401/B-Trailer ID			30
				Of Range	30
				ker	
		ŭ		ements	
2.16.1				nction while not in setup	
2.16.2	_			n while in setup	
2.16.3				no	
2.16.4					
	_	SS SPSS v1.8 Jul 6,	/	FORD MOTOR COMPANY CONFIDENTIAL	Page 9 of 65
	202	23 Th	he informa	tion contained in this document is Proprietary to Ford Motor Company.	, ago 5 0, 00

Ford		Ford Motor Com	pany	Subsystem F	Part Specific Specification Engineering Specification
2.16.5	TRS-R	FO-329853/C-Sele	ect Trailer	Profile as the Active Trailer Profile	30
				Change	
				TBA or TRG Initiated Setup	
2.16.8	TRS-R	EQ-346130/A-Initia	ating Auto	Hitch	31
				g an existing trailer	
2.16.11	TRS-R	EQ-329857/A-Dete	ermine TB	A or TRG mode	
				function	
				e trailers	
				TDA TDO	
				etup TBA TRGtrailer settings activation	
				TRG after Measurement and Sticker Setup	
				ancel TBA/TRG Setup	
				ments	
				up and Store Calculate Trailer Angle Detection Sign	
				ers	
2.16.22	TRS-R	EQ-330300/B-Trail	ler Angle I	Limit Mapping	34
2.16.23	TRS-R	EQ-346100/A-Trail	ler Name.		
				Гуре	
				Effort	
				BTT) Compatible Trailer Type	
				pot Detection Length (Measurement E)	
				ng Order Function for Listed Trailer Names G Trailer Selection Menu	
				gnalgna	
2.18 REQ	-52235	8/A-Trailer Brake (Gain		
				Gain Values	
			•	nce	
				nination	
				nination	
				VTRG	
				n TBA/TRG trailer select screen when there is no ac	
				n TBA/TRG trailer select screen when there is alrea	
				from TBA/TRG trailer select screen when there is r	
				from TBA/TRG trailer select screen when there is a	
2.22 TRS-	-REQ-	332804/C-BttFilSys			37
2.23 TRS-	-REQ-	332805/B-BTT Stat	us		37
2.24 TRS-	-REQ-	34562/A-TAFE Tra	ailer Avera	nge Fuel Economy Related Req	
2.24.1	TRS-R	EQ-334511/A-TAF	E LOdo	g	
2.24.2	TRS-R	EQ-334512/A-TAF	E LFuelCo	ons	38
2.24.3	TRS-R	EQ-334513/A-TAF	E Odome	ter Value	38
2.24.4	TRS-R	EQ-334514/A-TAF	E Convert	ted Values	39
				'alues	
				onomy Data	
				stance Traveled	
	_			uel Consumed	
2.24.9	TRS-R	EQ-334544/B-TAF	E Display	ing Units	40
2.25 TRS-	-REQ-	337297/A-Data Sto	ring		40
2.26 TRS-	-REQ-:	346111/A-Default T	railer TAF	E & Odo	40
FILE: TRAILER		s SPSS v1.8 Jul 6,	The information	FORD MOTOR COMPANY CONFIDENTIAL ution contained in this document is Proprietary to Ford Motor Company.	Page 10 of 65
	202	ى د	i ne iniorma	шон сонкашей ін інів йоситіені із гторпетагу то гога ілютог Company.	

	Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification
2.27	TRS-RE	Q-346113/A-Odometer 0 Value	41
2.28	TRS-RE	Q-365819/C-Content Saving in	Client41
3 Fu	NCTIONAL D	EFINITION	42
3.1	TRS-FUI	N-REQ-332818/A-Trailers Ope	rations
3.1			42
3.1			44
3.2			9 Gain
3.2 3.2			Selection
3.2			e Gain Normal Operation
3.2			Server Unresponsive
3.3			ull Charge49
3.3			uli Criarge
3.3			50
3.3			50
3.4	TRS-FUI	N-RFQ-408698/A-BTT 5G	
3.4			
3.4	.2 Requir	rements	51
3.4	3 Use C	ases	
3.5	TRS-FUI	N-REQ-436278/B-Trailer 360	54
3.5			54
3.5		rements	54
3.5			
3.5			
3.6			
3.6	6.1 Requir	ements	60
3.7	TRS-FUI	N-REQ-575387/A-Tow Haul	61
3.7	'.1 Trailer	Tow	61
	_	. = .	
4 AP	PENDIX: REF	ERENCE DOCUMENTS	65

1 Architectural Design

1.1 TRS-CLD-REQ-324389/B-Trailer Settings Client

Responsibility: Among other duties that the client may have, it provides the users the ability to input data to the system such as entering trailer information such as name, various distances etc (talked in more details later). It also provides a way for the feature to interact by providing several notifications to the user through the display.

1.2 TRS-CLD-REQ-324444/B-Trailer Settings Server 1

Due to this feature development timing schedule and other modules involved in this feature operation timing, it was not possible to acquire new signals between Client and the various other modules involved in this feature (also known as Server 2)

Because of that, Server 1 operates as module in the middle by acquiring signals from Client and sending them to the Server

In addition to module in the middle, Server 1 also acts as display to the user by showing various information provided by Client. More details to follow in the SPSS.

Server 1 is not to be misunderstood with gateway, which is the module in the middle between various busses.

1.3 TRS-CLD-REQ-324391/B-Trailer Settings Server 2

Server 2 is the common name for the modules other than Client and Server 1 that are involved in this feature.

1.4 FUR-REQ-324387/H-Trailer Settings Logical Signal Mapping

The CAN signals mentioned throughout this document shall refer to the CAN signal's logical name. The logical names shall be mapped to their actual CAN signal names. Please use the table below to perform the mapping. The InfoCAN database file is the master file for the actual CAN signal names. Note: There may be cases where the actual CAN signal name is used in this documentation.

To help development team, the following requirements will provide a description about what these signals do and their parameter descriptions. However, many of the signals involved in this SPSS provide only a numerical scalar value. To avoid duplicating requirements and adding unintentional errors, for these particular signals I have noted to refer to database for proper value such range, min max etc.

Logical Name	Physical CAN Name
LOdoCount	OdometerMasterValue
LTrlrAnOffstAng	TrlrAnOffst_An_Calc
LTrlrAnOffstDir	TrlrAnOffstDir_D_Calc
LTrlrAnCalib	TrlrAnCalib_B_Complt
LTrlrAidTrgtld	TrlrAidTrgtId_No_ActI
TrailerBackupAssistMode_St	TrlrAidEnbl_D2_Stat
TrailerBackupAssistMode_St	TrlrRvrseEnbl_D2_Stat
TrailerBackupAssist_St	TrlrAidMsgTxt_D2_Rq
TrailerBackupAssist_St	TrlrRvrseMsgTxt_D2_Rq
LTrlrAidTrlrID	TrlrAidTrlrId_No_Rq
LtrlrHitchMsg	TrlrHitch_D_RqMnu
	Trailer_Settings_St (Trailer name and Mileage
	and TRG/TBA/BTT Status. Uses Transport
TrlrSetTp	Protocol for data transfer)
LTrlridSel	TrlrldType_D_Stat

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 12 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	. aga a. aa



LBttMeasure	Btt_L_Actl2
LTrlrAidE	TrlrAidEnbl_D2_Rq
LTrlrAidSet	TrlrAidSetup_D2_Rq
LTrlrAnMem	TrlrAnOffst_An_Mem
LTrlrAnDirMem	TrlrAnOffstDir_D_Mem
LtrlrTrgPtrnID	TrlrTrgtPtrnId_No_Mem
LTrlridNo	Trlrld_No_Actl
LTrlrRvrseCancl	TrlrRvrseCancl_B_Rq
LTrlrAidMde	TrlrAidMde_D_Rq
LLifeMde	LifeCycMde_D_ActI
LTrlrBrake	TrlrBrkActCnnct_B_ActI
LTrlrLamp	TrlrLampCnnct_B_Actl
Autohitch_St	TrlrHitchMsgTxt_D_Rq
LTrlrBrkGainSerTx	TrlrBrkGain_No_Actl
LTrlrBrkGainClientTx	TrlrBrkGain_No_Rq
LBttLeftSt	BTTLeft_D_Stat
Lign	Ignition_Status
LOdo	OdoCount
LFuelCons	FuelFlw_VI_Dsply
LTrlActive	Tririd_No_ActiMnu
LTrlReset	TrlrRngId_No_RqReset
LTrlid	TrlrRngld_No_Dsply
LTrlRangeVal	TrlrRng_L_Dsply
LSodLeftSt	SodAltLeft D2 StatAft
LSodRightSt	SodAltRight D2 StatAft
LBttLeftSt	BttLeft D Stat
LBttRightSt	BttRight_D_Stat
LBttMeasure1	Btt_L2_Actl2
LTrlrValid	TrlrldActv_No_Rq
LGear	GearLvrPos_D_Actl
TrailerWidthRaw	Internal Variable. No CAN signal association.

In addition to the signal mentioned above, there is a few more data that uses Feature Based Messaging Protocol. For further details, refer to FBMP Content.

1.5 Trailer 360 Logical Mapping Table

This table provides logical to physical mapping of Trailer 360 related can signals. Logical names will be referred in throughout the rest of this documentation.

FILE: TRAILER SETTINGS SPSS V1.8 JUL 6, 2023 FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Comp	Page 13 of 65
-----------------------------------------------------------------------------------------------------------------------------------------------------------	---------------

Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification

Logical Name	Physical Name
LTWidth	TrlrWidth_L_Actl
LTCamraH	TrlrCamraHght_L_Actl
LHitch	HitchToTrlrBox_L_Actl
LCamraCalibRq	TrlrCamraCalib_D_Rq
LtSetCalib	TrlrAidSetup_D2_Stat
LCamraCalibSt	TrlrCamraCalib_D_Stat
LTConnectCamera	TrlrlSPCnnct_D_Stat
LTrlrCamMsg	TrlrCamraMsgTxt_D_Rq

1.6 TRS-IIR-REQ-323585/H-Trailer Settings Client Rx

1.6.1 TRS-MD-REQ-323369/B-LOdoCount

LOdoCount: This signal provides vehicle odometer data. Refer to database for signal parameters.

1.6.2 TRS-MD-REQ-365622/A-LOdo

LOdo: High resolution odometer data. This signal is used for calculating average fuel economy. Refer to req # 334511 for further details.

1.6.3 TRS-MD-REQ-323372/B-LTrlrAnOffstAng

LTrlrAnOffstAng: Magnitude of trailer angle offset from zero. Data sent to Client for storing. This data will be provided to Sever through another transmit signal when need be. Consult with database for signal values.

1.6.4 TRS-MD-REQ-323373/A-LTrlrAnOffstDir

LTrIrAnOffstDir: Direction of trailer angle offset from zero. This data is provided to Client for storage and the client shall send it to server through a different transmit signal when it has been requested.

Signal	Value
Value	Description
0x0	Null
0x1	Left Or Center
0x2	Right
0x3	Not Used

1.6.5 TRS-MD-REQ-323374/A-LTrlrAnCalib

LTrlrAnCalib: Completion status of trailer angle calibration process.

Signal	Value
Value	Description
0x0	No
0x1	Yes

1.6.6 TRS-MD-REQ-323375/B-LTrlrAidTrgtld

LtrlrAidTrgtId: The value of the trailer target ID currently being tracked by Server. Refer to database for signal values.

	FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 14 of 65
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1.6.7 TRS-MD-REQ-323379/A-LTrIrSns

LTrlrSns: Yaw rate trailer angle sensor detection serial number. Refer to database for values.

1.6.8 TRS-MD-REQ-323381/A-LTrlrAidTrlrID

LTrlrAidTrlrID: Request from server to Client for the current trailer id being tracked.

1.6.9 TRS-MD-REQ-324892/A-LLifeMde

This signal indicates the vehicle mode, such as Factory, Transport, Normal etc.

Signal Parameters	Description
0x0	NORMAL
0x1	FACTORY
0x2	Not used
0x3	TRANSPORT
0x4 - 0xF	Not used

1.6.10 TRS-MD-REQ-326166/A-LTrlrBrake

LtrlrBrake: Is a signal sent by the server 2 to the client indicating if a trailer is connected on the trailer brake actuator circuit.

Signal Parameter	Parameter meanings
0x0	No
0x1	Yes

1.6.11 TRS-MD-REQ-326167/A-LTrIrLamp

LTrlrLamp: is sent by Server 2 to the client to indicate if a trailer is connected to trailer lamp circuit.

Signal Parameters	Parameter meanings
0x0	No
0x1	Yes

1.6.12 TRS-MD-REQ-326168/A-Lign

Lign: This signal is sent by server 2 to tell the client the ignition status of the vehicle.

Signal parameters	Parameter meanings
0x0	Unknown
0x1	Off
0x2	Accessory
0x4	Run
0x8	Start
0xF	Invalid

1.6.13 TRS-MD-REQ-326337/A-TrailerBackupAssist_St

This signal is used to inform the Trailer Backup Assist system HMI which screen to display to the driver.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 15 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

Also, this signal is a logical for name for the equivalent TRG signal.

Refer to database and TBA2 signal mapping for further details for this signal.

1.6.14 TRS-MD-REQ-326338/A-TrailerBackupAssistMode_St

This signal is used to communicate the Trailer Backup Assist status for HMI and control algorithm components. This logical signal is a representative of the TRG physical signal as well.

Signal Parameters	Parameter descriptions
0x0	Inactive
0x1	TbaActive
0x2	TbaSetup
0x3	TbaOffTrgSetup
0x4	TbaOffTrgActive
0x5	TbaActiveExpertAvail
0x6	TbaActiveExpertActive
0x7	NotUsed_1

1.6.15 TRS-MD-REQ-326522/A-Autohitch_St

Autohitch_St: This signal is used to inform the Trailer Auto Hitch system HMI in the Client about which screen to display to the driver.

Signal Parameters	Parameter Description
0x01	Message1
0x3E	Message62
0x3F	Message63

1.6.16 MD-REQ-332797/B-LTrlrBrkGainSerTx

LTrlrBrkGainSerTx: this signal is sent by the server to the client to indicate the trailer brake Gain. Parameter values are 0-30. Valid data is 0-20.

Refer to Trailer Brake Gain Values Req to understand signal purpose.

Default value of the signal in CAN dbc is 00. However, to protect the rx module from overwriting factory default value, the default of the signal is changed. VMCU is doing this default overwrite and the new default is 30.

1.6.17 TRS-MD-REQ-332799/A-LBttLeftSt

LBttLeftSt is sent by the server to the client. It provides details of Left side SOD sensor. This data is to be used with the right side to determine the status of BBT.

Parameters	Value descriptions
0x0	NotDetermined
0x1	Connected
0x2	Pending
0x3	NotConnected
0x4	OffTemp

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 16 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	

Ford	Ford Motor Company			Subsystem Pa	art Specific Specification ngineering Specification
	0x5	Off	:		
	0x6	Dis	abled		
	0x7	No	tUsed		

Refer to BttFiltSys requirement to understand how to use the data.

1.6.18 TRS-MD-REQ-365625/A-LFuelCons

LFuelCons: this signal provides fuel consumed. Refer to req # 334512 for further details.

1.6.19 MD-REQ-394535/A-LTrlid

LTrlid: This signal is sent from the server 2 to the client to indicate the current trailer for which it is sending the trailer range value. Refer to database for signal parameters.

1.6.20 MD-REQ-394536/A-LtrlRangeVal

LtrlRangeVal: this signal is sent form Server 2 to the client to indicate the range value of the particular trailer id. It works in combination of Ltrlid signal. Refer to database for signal parameters.

00-0xFD: Numerical Mileage Content.

0xFE : Faulty

0xFF: No data exists

1.6.21 MD-REQ-346118/B-LSodLeftSt

LSodLeftSt: This signal is sent from the server to the client. It is used to indicate left side Sod status.

Signal Value	Value Description
0	Standby
1	Active No Detection
2	Active Detection
3	Faulty

Standby means it hasn't received any trailer length from the client yet. Active Detection means there is an object (a vehicle) in blind spot. Active No Detection means there is no object (vehicle) in blind spot.

Faulty means unreliable data.

1.6.22 MD-REQ-346119/B-LSodRightSt

LSodRightSt: This signal is sent from the server to the client. It is used to indicate right side Sod status.

Signal Value	Value Description
0	Standby
1	Active No Detection
2	Active Detection
3	Faulty

Standby means it hasn't received any trailer length from the client yet.

Active Detection means there is an object (a vehicle) in blind spot.

Active No Detection means there is no object (vehicle) in blind spot.

Faulty means unreliable data.

1.6.23 MD-REQ-346125/A-LBttRightSt

LBttRightSt is sent by the server to the client. It provides details of Right side SOD sensor.

FILE: TRAILER SETTINGS	SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 17 of 65
2023	,	The information contained in this document is Proprietary to Ford Motor Company.	1 ago 11 01 00

Ford Motor Company		Subsystem Part Specific Specification Engineering Specification
Parameters	Value descriptions	
0x0	NotDetermined	
0x1	Connected	
0x2	Pending	
0x3	NotConnected	
0x4	OffTemp	
0x5	Off	
0x6	Disabled	
0x7	BTT5GFault	

Refer to Btt 5G on how to make use of the signal parameters.

1.6.24 MD-REQ-410850/A-LBttLeftSt

Ford

LBttLeftSt is sent by the server to the client. It provides details of Left side SOD sensor.

Parameters	Value descriptions
0x0	NotDetermined
0x1	Connected
0x2	Pending
0x3	NotConnected
0x4	OffTemp
0x5	Off
0x6	Disabled
0x7	BTT5GFault

Refer to Btt 5G function on how to make use of the signal parameters.

1.6.25 TRS-MD-REQ-432042/A-LCamraCalibSt

LCamraCalibSt: this signal is sent from the server to the client. It is used to indicate camera calibration state.

Parameter	Parameter meaning
0x0	Not calibrating
0x1	Calibrating
0x2	Not used
0x3	Not used

1.6.26 TRS-MD-REQ-432043/A-LTConnectCamera

LTConnectCamera: this signal is sent from the server to the client. It provides the status of Trailer 360 connection.

Parameter	Parameter meaning
0x0	No -Not connected
0x1	Yes - Connected

1.6.27 TRS-MD-REQ-436264/A-LtSetCalib

LtSetCalib: This signal has been added to the feature to support Trailer 360 operation. Client is receiver of this signal.

	FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 18 of 65
ı	2023	The information contained in this document is Proprietary to Ford Motor Company.	1 4.90 10 01 00

Ford Motor Company Engineering Specification

Value	Description
0x0	Null
0x1	TbaActive
0x2	SetupPrepForAcquisition
0x3	SetupStartAcquisition
0x4	TbaTadMonitor
0x5	SetupAcquisitionAuccess
0x6	NotUsed
0x7	NotUsed

While there are multiple parameters in the signal, only value 0x5 is of significance to the client. The other values are used elsewhere

1.6.28 TRS-MD-REQ-470734/A-LTrlrValid

This signal is sent from server to client to indicate validated trailer status. The values range 0-15. The number that is provided indicates the ID which has been validated.

1.6.29 TRS-MD-REQ-472965/A-LTrlrCamMsg

LTrlrCamMsg: This signal is sent by the server to provide the client with text notification to the user.

The description below is to provide an understand of what these text notifications are, and not necessarily the exact text to be displayed to the user. For proper text content, refer to HMI specifications.

Encoding	Interpretation	Description
0	NoMessage	No Calibration Text Requested
1	Message1	Calibrating
2	Message2	Drive Straight Forward
3	Message3	Shift to Drive to Continue
4	Message4	Increase Speed
5	Message5	Decrease Speed
6	Message6	Straighten Steering Wheel
7	Message7	Turn Left or Right
8	Message8	Sharper Turn Required
9	Message9	Slower Turn Required
Α	Message10	Calibration Complete
В	Message11	Calibration Failed
С	Message12	No planned use at this time
D	Message13	No planned use at this time
E	Message14	No planned use at this time
3F	Message63	No planned use at this time

1.6.30 MD-REQ-512597/A-LGear

This signal provides information about vehicle gear status.

Signal Parameter	Parameter Meaning
0x0	Park
0x1	Reverse

FILE: TRAILER SETTINGS SPSS v1.8 JUL 6, 2023 The info	FORD MOTOR COMPANY CONFIDENTIAL mation contained in this document is Proprietary to Ford Motor Company.	Page 19 of 65
----------------------------------------------------------	---------------------------------------------------------------------------------------------------------	---------------

Ford	Ford Motor Company		Subsystem Par En	t Specific Specification gineering Specification
	0x2	Neutral		
	0x3	Drive		
	0x4	Sport/D	rive Sport	
	0x5	Low		
	0x6	1		
	0x7	2		
	0x8	3		
	0x9	4		
	0xA	5		
	0xB	6		
	0xC	undefin	ed	
	0xD	undefin	ed	
	0xE	unknow	n position	
	0xF	fault		

1.7 TRS-IIR-REQ-323529/E-Trailer Settings Client Tx

1.7.1 TRS-MD-REQ-323589/A-LTrIridSel

LTrlridSel: Customer selected trailer type of currently active trailer in Client HMI.

0x0	Null	
0x1	Conventional	
0x2	FifthWheel	
0x3	Gooseneck	

1.7.2 TRS-MD-REQ-323595/A-LTrIrAidE

LTrlrAidE:

This signal is used to request activation of the Trailer Backup Assist 2 feature.

0x0	Inactive
0x1	ActivateTba
0x2	ActivateTrg
0x3	Deactivate
0x4	NotUsed_1
0x5	NotUsed_2
0x6	NotUsed_3
0x7	NotUsed_4

1.7.3 TRS-MD-REQ-323596/A-LTrlrAidSet

LTrlrAidSet: Signal coordinates setup of the Pro Trailer Backup Assist and Trailer Reverse Guidance Features.

0.	Parameters	Description
0x0 Inactive		Inactive

TRAILER SETTINGS SPSS v1.8 Jul 6, FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 20 of 65
-----------------------------------------------------------------------------------------------------------------------------------------------------	---------------

Ford Motor Com	npany	Subsystem Part Specific Specification Engineering Specification
0x1	BeginSetup	
0x2	EndSetup	
0x3	ConfirmSetup	
0x4	StickerNotCircled	
0x5	ReturnToSetup	
0x6	CompleteSetup	
0x7	Select Feature	
0x8	SettingsCalibration	
0x9	CancelRequest	
0xA	NotUsed_1	
0xB	NotUsed_2	
0xC	NotUsed_3	
0xD	NotUsed_4	
0xE	NotUsed_5	
0xF	NotUsed_6	

1.7.4 TRS-MD-REQ-323597/A-LTrlrAnMem

LTrlrAnMem :

Ford

Magnitude of trailer angle offset from zero. Data provided from Client's memory.

1.7.5 TRS-MD-REQ-323598/A-LTrlrAnDirMem

LTrlrAnDirMem:

Direction of trailer angle offset from zero. Data provided from Client's memory.

0x0	Null
0x1	Left or Center
0x2	Right
0x3	Not Used

1.7.6 TRS-MD-REQ-323599/A-LtrlrTrgPtrnID

LtrlrTrgPtrnID: Trailer Target Pattern ID number Rx from Server1 and stored in memory of client for a stored trailer. This data (Trailer Target Pattern ID) is provided back to the server1 from the client through this signal.

1.7.7 TRS-MD-REQ-323602/A-LTrIridNo

LTrlrldNo: Numerical ID of the trailers stored in Client. Data to be provided to Server.

0: No Active Trailer 1-10: Named Trailers

11: Default Trailer (not a user made trailer), populated with default settings.

1.7.8 TRS-MD-REQ-323605/A-LTrirRvrseCancl

LTrlrRvrseCancl: UTT feature cancel signal request from Client to Server1.

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ı	FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 21 of 65
ı	2023	The information contained in this document is Proprietary to Ford Motor Company.	1 490 21 07 00

Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification

Signal Values	Signal Description
0x0	Null
0x1	Cancel

1.7.9 TRS-MD-REQ-323606/A-LTrlrAidMde

LTrlrAidMde : This signal is used to request a Trailer Backup Assist Mode

Signal Values	Value descriptions
0x0	NoRequest
0x1	Mode_1
0x2	Mode_2
0x3	Mode_3

1.7.10 TRS-MD-REQ-324922/B-TrlrSetTp

TrlrSetTp transfers the data from Client to Server 1 for display.

The data blocks being transferred are:

TBA Status
TRG Status

BTT Status

Trailer Mileage

Trailer Average Fuel Economy

Trailer Name.

Refer to Transfer Protocol (TP) CAN ID 2AC, Signal ID C0 and utilization 0x76 for further details.

1.7.11 TRS-MD-REQ-326169/A-LBttMeasure

LBttMeasure is a signal sent by client to provide measurement E of BTT. Check with database for value meanings.

1.7.12 TRS-MD-REQ-326514/A-LtrlrHitchMsg

Represents a request from the Client to Server2 for the status of Autohitch feature.

Literals description	Value	Description
-	-	Driver input via touchscreen
No Request	0x0	
Cancel Autohitch	0x1	
Turn on Autohitch	0x2	
Turn on TBA	0x3	
Confirm	0x4	
Go to Trailering Domain	0x5	
Not used 1	0x6	
Not used 2	0x7	

1.7.13 TRS-MD-REQ-332798/A-LTrlrBrkGainClientTx

LTrlrBrkGainClientTx: this signal is sent by the client to the server to provide the stored value of trailer brake gain. Refer to database for signal parameters.
Refer to Trailer Brake Gain Values Req to understand signal purpose.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 22 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

1.7.14 MD-REQ-394533/A-LTrlActive

LTrlActive: is sent from the client to the server to indicate current active trailer. Refer to database for signal parameters.

1.7.15 MD-REQ-394534/A-LTrIReset

LtrlReset: This signal is sent from the client to the server to indicate that the active trailer has been reset. Refer to database for signal parameters.

1.7.16 MD-REQ-346122/A-LBttMeasure1

LBttMeasure1: This signal is used to acquire trailer length. Refer to database for more details.

The client makes use of this signal and LBttMeasure signal to provide a trailer length data for Btt 5G operation.

1.7.17 TRS-MD-REQ-432038/A-LTWidth

LTWidth: This signal is sent from client to server. It provides the trailer width measurement provided by the user. Refer to database for further details.

1.7.18 TRS-MD-REQ-432040/A-LCamraH

LTCamraH: This signal is sent from client to server. It provides the camera lens height measurement provided by the user. Refer to database for further details.

1.7.19 TRS-MD-REQ-432044/A-LHitch

LHitch: This signal is sent from client to server. It provides the hitch distance from the box if trailer is conventional. Refer to database for further details.

1.7.20 TRS-MD-REQ-432041/A-LCamraCalibRq

LCamraCalibRq: this signal is sent from the client to the server. It is used to request camera calibration event.

Parameter	Parameter meaning
0x0	Calibration not requested
0x1	Calibration requested
0x2	Not used
0x3	Not used

1.8 TRS-IIR-REQ-324837/A-FBMP Content

Feature Description	Feature Number
Effort – Trailer Brake	0x0E11
Mode – Trailer Brake	0x0E10
Trailer Swav	0x0E00

1.8.1 TRS-MD-REQ-324887/A-Feature_St

Feature_St:

As mentioned earlier, some data will need to go from Client through Server 1 to be later retransmitted to server 2 (by the server 1). To achieve this, we have used FBMP Feature_St signal. The data in the "Feature ID Definition" will need to be appended to the Feature_St signal.

Message Type: Status

Represents the current status of a feature (feature selected, feature setting, etc.).

Included Parameters:

FeatureID

FILE: TRAILER SE	TINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 23 of 65
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Subsystem Part Specific Specification Engineering Specification

Configuration PersIndex

Name	Literals	Value	Description
FeatureID	-	-	Active feature number
		0x0000 - 0xFFFF	
Configuration	-	-	Active configuration value
		0x0000 - 0xFFFF	
PersIndex	-	-	Indicates which personality profile is
			active
	PERS_1	0x0	
	PERS_2	0x1	
	PERS_3	0x2	
	PERS_4	0X3	
	VEHICLE	0X4	
	Not Used	0x5	
	Not Used	0x6	
	Not Used	0x7	

1.9 TRS-IIR-REQ-324921/A-Trailer Settings Server 1 Rx

1.9.1 TRS-MD-REQ-324922/B-TrlrSetTp

TrlrSetTp transfers the data from Client to Server 1 for display.

The data blocks being transferred are:

TBA Status

TRG Status BTT Status

Trailer Mileage

Trailer Average Fuel Economy

Trailer Name.

Refer to Transfer Protocol (TP) CAN ID 2AC, Signal ID C0 and utilization 0x76 for further details.

1.10 Internal Variable

This section contains internal variable methods. These variables don't have a CAN signal. They have been added here, because they either help facilitate feature programming, or it's a needed user input that is used by the feature but does not need to be transmitted on the CAN bus to other modules.

1.10.1 MD-REQ-412096/A-TrailerWidthRaw

TrailerWidthRaw: This is internal variable to client. The client acquires Trailer Width from the user and uses it when its needed.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 24 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	. age = 1 e. ee

2 General Requirements

2.1 TRS-REQ-324858/B-Trailer Settings Menu Configurations

Trailer Settings Menu configurations table is a diagram used to identify what menu settings are available based on configurations provided to the vehicle and accessible to Client.

Configuration	
Trailer_Brake_Cfg(0x0 False, 0x1 True)	Trailer B
Setup_Cfg(0x0 False, 0x1 True)	Trailer T
BTT_Full_Cfg(0x0 False, 0x1 True)	Trailer B
TBA_Cfg (0x0 False, 0x1 True)	Trailer B
TRG_Cfg(0x0 False, 0x1 True)	Trailer R
Trailer_Measurement_Cfg (0x0	
NoMeasurements, 0x1 Measurements, 0x2	
Sticker)	Trailer M
AutoHitch (Cfg) (0x0 False, 0x1 True)	
APIM_AutoFeatureSelect_Cfg (0x0 False, 0x1	Influence
True)	AH/TBA
Trailer_Lighting_Cfg (0x0 False, 0x1 True)	Trailer Ligh
TBA_5thWheel_Support_Cfg (0x0 False, 0x1	
True)	5th wheel t
Trailer Settings Cfg	Trailer Se

Trailer Brake Settings Configuration
Trailer Type Setup Configuration
Trailer Blind Spot Configuration
Trailer Backup Assist Configuration
Trailer Reverse Guidance Configuration

Trailer Measurement Setup Configuration

Influences HMI options to switch between AH/TRA

Trailer Lighting Configuration

5th wheel trailer type configuration Trailer Settings Feature Cfg

Setting Feature Available	Trailer_Settings_Cfg	Trailer_Brake_Cfg	Setup_Cfg	BTT_Full_C/g	TBA_Cfg	TRG_Cfg	TBA_Cfg = TRUE OR TRG_Cfg = TRUE	Trailer_Measurement_Cfg
Trailer Name	TRUE	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Trailer Type	TRUE	X	TRUE	Χ	Χ	Χ	Χ	X
Trailer Brake Type	TRUE	TRUE	Χ	Χ	Χ	Χ	Χ	X
Trailer Brake Effort	TRUE	TRUE	X	X	Χ	Χ	Χ	X
Trailer Brake Gain	TRUE	TRUE	X	X	Χ	Χ	Χ	X
Trailer Mileage	TRUE	X	Χ	Χ	Χ	Χ	Χ	X
Trailer Blind Spot Detection	TRUE	х	х	TRUE	Х	х	Х	Х
Trailer Reverse							Χ	0x1
Guidance	TRUE	X	X	Χ	X	TRUE		Measure

FILE: TRAILER SETTINGS SPSS V1.8 JUL 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 25 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	1 age = 0 1 00

d	Ford Moto	r Company						Subsysten	Part Specific Engineering	Specification Specification
									0x2 Sticker	
Pro Tra	ailer Backup ГМ	TRUE	х	х	Х	TRUE	х	Х	х	
Delete	Trailer	TRUE	Χ	Χ	X	X	Χ	X	X	
Trailer Setup	Backup	TRUE	X	×	X	X	х	TRUE	0x1 Measure 0x2 Sticker	
•	e Trailer	TRUE	Х	Х	X	x	x	TRUE	0x1 Measure 0x2 Sticker	
Trailer	Angle Limit	TRUE	Х	Х	X	TRUE	Χ	Χ	X	
X -	Don't Care				•		•			-

2.2 TRS-REQ-330236/B-Configuration Related Requirements

2.2.1 TRS-REQ-330237/B-When to show Trailer Blind Spot Detection Setting

Trailer Blind Spot Detection should only be shown when the BTT is configured on.

2.2.2 TRS-REQ-330238/A-When to show Pro Trailer Backup Assist Setting

Pro Trailer Backup Assist should only be shown when the feature is configured on, and the selected trailer has trailer type LTrlridSel =Conventional OR ((when trailer type LTrlridSel is Fifth Wheel or Gooseneck) AND TBA_5thWheel_Support_Cfg = TRUE)

2.2.3 TRS-REQ-330240/B-When to show Trailer Reverse Guidance Setting

Trailer Reverse Guidance should only be shown when the feature is configured on, and the selected trailer has trailer type LTrIridSel =Conventional.

2.2.4 TRS-REQ-330241/A-When to show Trailer Backup Setup Setting

Trailer Backup Setup should only be shown when the features listed in the table above are configured on for this setting, and the selected trailer has trailer type LTrlridSel =Conventional and the saved value for the selected trailer for LTrlrAnDirMem is = 0.

2.2.5 TRS-REQ-330242/A-When to show Change Trailer Sticker Setting

Change Trailer Sticker should only be shown when the features listed in the table above are configured on for this setting, and the selected trailer has trailer type LTrIridSel =Conventional and the saved value for the selected trailer for LTrIrAnDirMem is > 0.

2.2.6 TRS-REQ-330254/C-Trailer Connected Logic

Trailer_Connected_Flag is ACTIVE at module wake up

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	Id = 0	Default	Trailer (ID 11) & Notify user	Default Trailer (ID 11) & Don	t Notify user
	Trailer ID	Notifica	ation On	Notification Off	
	before Ign Cycle		Aft	er Ign Cycle	
	Trailer connection state				

FILE: TRAILER SETTINGS SPSS V1.8 JUL 6, 2023 FORD MOTOR COMPANY CONFIDENTIAL Page 26 of 65

Commented [LQ(1]: What is kind of notification? Trailer ID is receive by TRM?

Ford	Ford Motor Company		Subsystem Part Specific Specifi Engineering Specifi	
ld 1-11	Connect Same To	railer as before Ign	Connect Same Trailer as before Ign Cycle. Don't notify user	

In case Trailer ID 1-11 is connected, Client should wait for 10 sec and if the connection is still valid, the client shall send Transfer Protocol Data content to Server 1. If there is no trailer connected after 10 sec, then set No Active Trailer (Trailer ID =

Trailer_Connected_Flag transitions from inactive to active after wake up.

Trailer_Connected_Flag	Notification On	Notification Off
Inactive ->Active	Notify User Select previous trailer and {Previous active trailer name} based on previously active trailer	If an active trailer (1-11) is selected, that trailer should remain active & Don't Notify user. Otherwise select the default trailer (11) & don't notify user.

Note: TRS-REQ-346112/A-Active Trailer Change

This requirement can prevent the active trailer from changing or prevent the trailer connected notification.

2.2.7 TRS-REQ-330255/C-Trailer Disconnected Logic

Trailer Connected Flag is set per TRS-REQ-324861-Trailer Connected Detection.

The Client should monitor when the Trailer_Connected_Flag transitions from ACTIVE to INACTIVE. The active trailer should only be set to No Active Trailer when a trailer disconnect event has occurred and TrailerBackupAssist_St == 0x0 | 0x1 and when the Vehicle Speed is < 5 kph. If a trailer disconnect event has occurred and the above conditions are not met, the client should wait to set the active trailer to No Active Trailer until the conditions are met. The trailer disconnect event can be cleared if the Trailer_Connect_Flag transitions from INACTIVE to ACTIVE, then no change should be made to the active trailer when the above conditions are met.

Selecting trailer should follow TRS-REQ-329853

2.3 TRS-REQ-324860/A-Trailer Name properties

Client shall be able to store 11 names.

Each name shall be no more than 20 characters long.

2.4 TRS-REQ-324861/B-Trailer Connected Detection

Client shall make use of the signals provided by Server 2 and the various configurations in the system to provide the user with information on whether any trailer is connected or disconnected.

Operational_Mode	Trailer_Brake_Cfg	Trailer_Lighting_Cfg	LTrlrBrake	LTrlrLamp	Trailer_Connected_Flag
Normal or	Enabled (0x1)	X	Yes (0x1)	Χ	ACTIVE
Crank	X	Enabled (0x1)	X	0x1 (Yes)	ACTIVE
		All Other Cases			INACTIVE

(Trailer_Brake_Cfg AND LTrlrBrake Signal) OR (Trailer_Lighting_Cfg AND LTrlrLamp Signal)

If both lamp and brake lights transition from 0 to 1, only one popup should be displayed to the user.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 27 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.)

2.5 TRS-REQ-324863/A-Updating Trailer Types

If a user changes the trailer type from Conventional to 5W/GN or from 5W/GN to Conventional, all TBA/TRG setting parameters and BTT trailer settings should be reset to default values.

2.6 TRS-REQ-324864/A-Trailer Mileage

Client shall keep track of distance traveled and when a trailer is connected to the vehicle the distance traveled should be stored and linked to the active trailer.

2.7 TRS-REQ-324886/C-Default Values

The below values are default parameters related to trailers and their settings.

Description	Logical Signal Name	Initial Value for New Trailer
Trailer ID Number	LTrlridNo	0x0
Trailer Name	See TRS-REQ-326376	Blank
Trailer Mileage	See TRS-REQ-326376	0x0
Trailer Brake Type	BrakeType FBMP	0x0
Trailer Brake Effort	BrakeEffort FBMP	Low
Trailer Type	LTrlridSel	0x0
BTT Measurement E	LBttMeasure	0x7E (No_Data_Exists)
Trailer Target ID	LtrlrTrgPtrnID	0x0
Trailer Angle Offset	LTrlrAnMem	0x0
Trailer Angle Direction	LTrlrAnDirMem	0x0
TBA Mode Setting	LTrlrAidMde	0x0
TBA Activation Request	LTrlrAidE	0x0
TBA Setup Request	LTrlrAidSet	0x0
TRG Cancel Request	LTrlrRvrseCancl	0x0

2.8 REQ-346114/A-Default Value Update

This requirement tries to describe more clearly than already has, the different conditions when we apply 0x7E or 0x7F of the LBttMeasure. These situations have been encountered by various individuals, so we thought to include the situations in a single requirement.

Default Trailer Selected --> 0x7E

No Active Trailer Selected --> 0x7E

New Trailer --> Enter Trailer Name --> Enter Trailer Type --> Save --> 0x7F --> Enter valid measurements

If trailer type changed from Conventional to Gooseneck or 5W --> 0x7F

If there is an active trailer with valid measurements --> Disconnect Trailer --> 0x7E?

When we select a trailer with valid measurements, we send measurements regardless of whether connected or not.

2.9 TRS-REQ-324893/A-Mode Reset

When vehicle life cycle indicated by LLifeMde signal changes from Factory or Transport to Normal mode, the client shall reset all trailer related settings to default and select "No Active Trailer" as the active trailer.

2.10 TRS-REQ-326376/B-TP related requirements

E: TRAILER SETTINGS SPSS V1.8 JUL 6, 2023 FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 28 of 65
---------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------

2.10.1 TRS-REQ-324859/B-Server 1 Update

Whenever a trailer becomes active or there are changes to active trailer parameters, such as update TBA status, TRG status, BTT status, Trailer mileage and TAFE or name, the Client shall update Server 1 with all the relevant information: TBA status, TRG status, BTT status, mileage, Trailer Average Fuel Economy and Trailer Name content.

2.10.2 TRS-REQ-326377/A-Trailer Name Length

Client should be able to send a variable string of up to 30 characters + Null to Server 1 for trailer name.

2.10.3 TRS-REQ-326378/B-Odometer value

Client shall send a 7 (seven) digits string of odometer value to Server 1.

Leading 0s should be replaced with the character 0x32 in ASCII table (space character). The units (metric or imperial) of the odometer value (which is in string format) should be the units that the client is currently using.

In case trailer data gets reset or a new trailer with 0 mileage has been connected, the Client can show and can transmit a value of 0 (6 space + 0).

There should not be any decimal value, but full numbers only.

2.10.4 TRS-REQ-326380/C-Faulty Odometer Value

If an error value is received by LOdoCount signal (Hex value of signal 0xFFFFFF), the client shall send a string of "---" characters as content of odometer value.

If an error value is received by LOdo signal (Hex value of signal 0xFF), the client shall send a string of "---" characters as content of odometer value and also for average fuel economy content.

2.10.5 TRS-REQ-326416/B-No Active Trailer

If a blank or No Active Trailer is active in Client, the client shall send "No Active Trailer" as trailer name and blank odometer data, 7 space (asci 0x32) characters.

2.10.6 TRS-REQ-334551/C-TAFE Sending Data Through TP

Client shall send the Trailer Average Fuel Economy to Server 1 through Transport Protocol.

Different vehicle types have different string length requirements.

In PHEV vehicles as configured in the client (details provided in client diagnostics specs), Client shall send up to 5 characters in the format XYZ.W .

In Non PHEV, the client should send up to 4 characters, XY.Z .

There should not be any leading 0, unless the value being sent is less than 1.

*Decimal notation is localized, some countries use comma (,) and some others used period (.). SYNC has implemented period (.) notation.

2.10.6.1 TRS-REQ-394543/A-Range Per Full Charge

Whenever a trailer ID is active, client shall forward to Server 1 through TP the data it receives through signal LTrlRangeVal for the particular active trailer. Basically, no matter what trailer info is coming from server 2, client shall only send to server 1 only the info for the active trailer. (The server 2 may send to client all the range values for all the available trailers, hence we need to make a distinction between active trailer and other trailers.)

2.11 TRS-REQ-326497/A-Server 2 update

Client shall update the CAN Signal content that are intended for Server 2 at the same time (within a CAN message) .

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 29 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

2.12 TRS-REQ-326529/B-Shifting Out Of Park Gear While In Setup

Setup operation should be available only in while gear is in Park. If during setup the gear is moved from Park mode then screen 89 in Client HMI shall indicate that they need to be in park gear to continue Setup process.

2.13 TRS-REQ-328401/B-Trailer ID

Trailer ID is a numerical value that client needs to associate with each trailer, which than is provided to the server through the signal LTrlrldNo.

ID 0 is not associated with any trailer. (No Active Trailer)

ID 11 is associated with Default Trailer. The data that default trailer uses is default values as described in req 324886.

ID 1 through 10 are associated with respective trailers stored by the client.

If a trailer gets deleted, that ID becomes available. If a new trailer gets stored, the new trailer will acquire any available ID.

2.14 TRS-REQ-328500/B-Measurements Out Of Range

When measurements are out of range, as specified by user selection and input, then LBttMeasure should get set to 0x7F (faulty) for requested trailer profile.

If the requested trailer profile is selected as the active trailer profile then server 2 should be updated.

If the requested trailer profile is not active (selected through view/edit trailer) then only the trailer profile value should be updated and server 2 is not updated until that trailer is selected as active.

2.15 TRS-REQ-328504/C-Change Trailer Sticker

If the requested trailer profile is not the active trailer profile (selected via view/edit), then the requested trailer profile should be set to the active trailer profile and server 2 should be updated with the newly active trailer profile.

2.16 TRS-REQ-329846/C-HMI Related requirements

These requirements are related to Client behavior while the user operates the feature in certain HMI screens. These requirements should be matched with proper screen layout to better understand the client operation.

2.16.1 TRS-REQ-329847/B-Cancel exit function while not in setup

The Client should send LTrIrAidE equal to 0x3 (deactivate). The client should hold the value until it receives a response from server 2 of TrailerBackupAssist_St equal to 0x0 or 0x1 or 0x5.

Once client receives TrailerBackupAssist_St (0x0 or 0x1 or 0x5), the client should send LTrIrAidE equal to 0x0 (Inactive) .

2.16.2 TRS-REQ-329848/B-Cancel function while in setup

When TrailerBackupAssist_St= 0x1B (setup canceled) and user presses close, then the client should send LTrlrAidSet 0x0 (inactive). This value should be held until another requirement changes it.

2.16.3 TRS-REQ-329849/B-Cancel Setup no

When TrailerBackupAssist_St equals 0x1C and the user presses No, then the client should send LTrlrAidSet 0x5 (ReturnToSetup). This value should be held until TrailerBackupAssist_St transitions to 0x1A, then LTrlrAidSet should be set to 0x1(BeginSetup). This value should be held until another requirement changes it.

2.16.4 TRS-REQ-329851/B-End setup yes

When TrailerBackupAssist_St equals 0x1C and the user presses Yes, then the client should send LTrlrAidSet 0x2 (EndSetup). This value should be held until another requirement changes it.

2.16.5 TRS-REQ-329853/C-Select Trailer Profile as the Active Trailer Profile

The requested trailer profile should be selected as the active trailer profile and all saved signals associated with the trailer profile should be updated to server 1 and 2. The signals associated with a trailer profile are:

ı	FILE: TRAILER SETTINGS SPSS V1.8 JUL 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 30 of 65
	2023	The information contained in this document is Proprietary to Ford Motor Company.	, ago oo o, oo



Subsystem Part Specific Specification Engineering Specification

LTrIrAnMem LTrIrAnDirMem LtrIrTrgPtrnID LTrIridNo LTrIrAidMde LBttMeasure LTrIridSel BrakeType FBMP BrakeEffort FBMP TrIrSetTp

The LTrlridNo of the newly selected active trailer should be stored as the Last_Active_Trailer_ID to be checked on the next ignition cycle.

2.16.6 TRS-REQ-346112/B-Active Trailer Change

The Trailer Connected Notification (pop-up) should be suppressed when TBA is Active (TrailerBackupAssist_St >=2) or when the New Trailer Setup Process is active.

When TrailerBackupAssist_St is greater than 0x2 (Trailer Selection Menu) or when a new trailer is being added, the trailer connection logic should not be able to change the active trailer.

Note: TBA can request a trailer ID to be changed when TrailerBackupAssist_St = 0x2.

2.16.7 TRS-REQ-329854/B-Add trailer for TBA or TRG Initiated Setup

When Add Trailer is selected the Client needs to remember the value of TBA Mode or TRG mode per TRS-REQ-329857 which will be required to activate the correct feature at the end of the setup flow. The client then needs to execute the Cancel Function (REQ-329847/A-Cancel exit function while not in setup).

2.16.8 TRS-REQ-346130/A-Initiating Auto Hitch

When TrailerBackupAssist_St = 0x2 (TrailerMenu) and the user presses the Trailer Autohitch button, the client should transmit DriverInput (0x2 Turn on Autohitch) per Feature – Auto Hitch SPSS until TrailerBackupAssist_St is not equal 0x2.

2.16.9 TRS-REQ-329855/B-When selecting an existing trailer

When an existing trailer is selected and TrailerBackupAssist_St is equal to 0x2, the client needs to send LTrIrAidE equal to 0x1 (ActivateTba) if TBA mode is active per TRS-REQ-329854 or LTrIrAidE equal to 0x2 (ActivateTrg) if TRG mode is active. This value should be held until TrailerBackupAssist_St is > 0x2, then LTrIrAidE should be set to 0x0 (Inactive).

If Trailer_Measurement_Cfg is equal to 0x0 (NoMeasurement) or ((Trailer Type is equal to 5th wheel or Gooseneck) and TBA_5thWheel_Support_Cfg is equal to true), then the client should also store LTrIrAnDirMem equal to 0x1 for the active trailer profile (selected as active per TRS-REQ-329853) when TrailerBackupAssist_St is > 0x2 and server 2 should be updated.

2.16.10 TRS-REQ-329856/B-Activate TBA

When activating TBA or TRG after add trailer was selected from screen 3, 90 or 98, the state of TBA Mode or TRG mode needs to be remembered per TRS-REQ-329857 in order to activate the correct feature.

When TrailerBackupAssist_St <= 0x2, the client should send the activation request LTrIrAidE (0x1 ActivateTba) for TBA Mode or send LTrIrAidE (0x2 ActivateTrg) for TRG mode for the remembered mode. The client will hold this request value until TrailerBackupAssist_St > 0x2, then the client should set LTrIrAidE to 0x0 (Inactive) and the remembered state of TBA mode or TRG mode should be reset.

If (Trailer_Measurement_Cfg is equal to 0x0 (NoMeasurement) or ((Trailer Type is equal to 5th wheel or Gooseneck) and TBA_5thWheel_Support_Cfg is equal to true) then the client should also store LTrIrAnDirMem equal to 0x1 for the active

FILE:	TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 31 of 65
-------	-------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

trailer profile (selected as active per TRS-REQ-329853) when TrailerBackupAssist_St is > 0x2 and server 2 should be updated.

2.16.11 TRS-REQ-329857/A-Determine TBA or TRG mode

The signals parameters below tell to the client what feature mode is running, TBA mode or TRG mode.

TBA_MODE

TrailerBackupAssistMode_St

0x1 - TbaActive

0x2 - TbaSetup

0x5 - TbaActiveExpertAvail

0x6 - TbaActiveExpertActive

TRG_MODE

TrailerBackupAssistMode_St

0x3 TbaOf fTrgSetup

0x4 TbaOf fTrgActive

2.16.12 TRS-REQ-329858/B-Sorting order function

Follow general sorting for the applicable trailers per TRS-REQ-346108. Any expectations defined below take precedence over the general sorting rules.

If (Trailer_Measurement_Cfg = 0x1 or 0x2)

Display all conventional trailers with LTrlrAnDirMem !=0

Else

Display all conventional Trailers

If (TBA_5thWheel_Support_Cfg = True)

Also Display all 5th Wheel/Gooseneck Trailers

If (TrlrAidTrlrId_No_Rq = A Valid Stored Trailer ID)

Sort that trailer ID to the top of the list

2.16.13 TRS-REQ-329859/B-Non applicable trailers

Trailer Types Compatible with TBA/TRG are [TrailerType = Conventional | (TrailerType = 5thWheel | Trailer Type = Gooseneck) & TBA_5thWheel_Support_Cfg = True)]

2.16.14 TRS-REQ-329864/C-Begin setup

If the requested trailer profile is not the active trailer profile (selected via view/edit), then the requested trailer profile should be set to the active trailer profile and server 2 should be updated with the newly active trailer profile.

The Client should send LTrlrAidSet equal to 0x1 begin setup to server 2. This value should be held until a following requirement changes it.

Client should send trailer information with default parameters for the following signals per TRS-REQ-324886:

LTrlrAnDirMem

LTrlrAnMem

LtrlrTrgPtrnID

2.16.15 TRS-REQ-329887/B-Sticker Only setup TBA TRG

When activating TBA or TRG after add trailer was selected from screen 3, 90 or 98, the state of TBA Mode or TRG mode needs to be remembered per TRS-REQ-329857 in order to activate the correct feature.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 32 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

When TrailerBackupAssist_St is equal to 0x1A (SetupBegin), the client should send the activation request LTrlrAidE (0x1 ActivateTba) for TBA Mode or send LTrlrAidE (0x2 ActivateTrg) for TRG mode for the remembered mode. The client will hold this request value until TrailerBackupAssist_St is not equal to 0x1A (SetupBegin), then the client should set LTrlrAidE to 0x0 (Inactive) and LTrlrAidSet equal to 0x0 (Inactive) and the client should store 0x1 for LTrlrAnDirMem for the active trailer profile and server 2 should be updated. The remembered state of TBA mode or TRG mode should also be reset.

2.16.16 TRS-REQ-329888/B-Setup sticker trailer settings activation

When TrailerBackupAssist_St is equal to 0x1A (BeginSetup), the client should set LTrlrAidSet equal to 0x8 (SettingsCalibration). This value should be held until TrailerBackupAssist_St does not equal 0x1A (BeginSetup). After TrailerBackupAssist_St does not equal 0x1A, the client should store LTrlrAnDirMem equal to 0x1 for the active trailer profile and the client should set LTrlrAidSet equal to 0x0 (Inactive).

2.16.17 TRS-REQ-329889/B-Activate TBA/TRG after Measurement and Sticker Setup

When activating TBA or TRG after add trailer was selected from screen 3, 90 or 98, the state of TBA Mode or TRG mode needs to be remembered per TRS-REQ-329857 in order to activate the correct feature.

When TrailerBackupAssist_St = 0x1F and the user closes the screen, send the activation request LTrlrAidE (0x1 ActivateTba) for TBA Mode or send LTrlrAidE (0x2 ActivateTrg) for TRG mode for the remembered mode. The client should hold this request value until TrailerBackupAssist_St != 0x1F, then the client should set LTrlrAidE to 0x0 (Inactive) and the remembered state of TBA mode or TRG mode should be reset.

If neither TBA or TRG was used to start the feature setup (no previous value of TBA mode or TRG mode set), then follow HMI to return to Trailer Settings

2.16.18 TRS-REQ-330294/C-Request to Cancel TBA/TRG Setup

If TrailerBackupAssist_St is 0x0 or 0x1, then the cancel request should not be sent. Otherwise set LTrlrAidSet to 0x9 (CancelRequest). This value should be held until TrailerBackupAssist_St is equal to 0x1C (CancelSetup), after which LTrlrAidSet should be set to 0x1 (BeginSetup) and held until another requirement changes it.

2.16.19 TRS-REQ-330295/A-Edit measurements

When edit measurements is selected, the previously entered measurements should be maintained as the initial value for each measurement screen.

2.16.20 TRS-REQ-330296/B-Complete Setup and Store Calculate Trailer Angle Detection Signals to Trailer Profile

When the user presses close, the client should do the following routine (this routine should run until it is complete, even if the screen changes):

If LTrIrAnCalib = 0x1 Yes then Set LTrIrAnMem = LTrIrAnOffstAng, LTrIrAnDirMem = LTrIrAnOffstDir, and LtrIrTrgPtrnID = LTrIrAidTrgtId

Client shall populate the contents of these signals

LTrlrAnMem

LTrlrAnDirMem

LtrlrTrgPtrnID

With the reciprocal data provided by the server through the signals

LTrlrAnOffstAng,

LTrlrAnOffstDir ,

LTrlrAidTrgtld.

The values of LTrlrAnMem, LTrlrAnDirMem and LtrlrTrgPtrnID should be stored to the active trailer profile.

2.16.21 TRS-REQ-330298/A-List BLIS Trailers

Only display Trailers with a Valid entered LBttMeasure measurement. A valid measurements is >= 0x9 and <=0x65. Do not display Default trailer.

		FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 33 of 65
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Subsystem Part Specific Specification Engineering Specification

2.16.22 TRS-REQ-330300/B-Trailer Angle Limit Mapping

Internal	CAN Encoding	Description	Selected Setting (HMI)
	0x0	Not Requested	Normal Control Angle
	0x1	Mode1	Max Control Angle
	0x2	Mode2	
LTrlrAidMde	0x3	Mode3	

Updated signal value is to be sent when the user clicks on "Back" icon in HMI screen.

2.16.23 TRS-REQ-346100/A-Trailer Name

When adding a new trailer, the entered trailer name should not be stored until the trailer profile is requested to be saved by the user. When the profile is saved, the trailer name should be sent to Server 1 per TRS-REQ-324859

When an existing active trailer profile is edited, the trailer name field should be updated when the user confirms the trailer name and server 1 should be updated.

When an existing non-active (view/edit trailer) is edited, the trailer name field should be updated to the requested trailer profile when the user confirms the trailer name, but server 1 is not updated until that trailer is selected as active.

2.16.24 TRS-REQ-346101/A-Trailer Type

Trailer Type maps to signal: LTrlridSel

When adding a new trailer, the entered trailer type should not be stored until the trailer profile is requested to be saved by the user. When the profile is saved, the trailer type should be sent to Server 2 per TRS-REQ-326497.

When an existing active trailer profile is edited, the trailer type field should be updated in the requested trailer profile when the user confirms the value and server 2 should be updated

When an existing non-active (view/edit trailer) is edited, the trailer name field should be updated to the requested trailer profile when the user confirms the value, but server 2 is not updated until that trailer is selected as active.

If a vehicle only supports one trailer type (Setup_Cfg = False), the trailer type should be set to Conventional.

2.16.25 TRS-REQ-346102/B-Save Trailer

When a trailer is saved to memory, the trailer profile should be created and selected as the active trailer profile. The Trailer ID should be set per TRS-REQ-328401. The CAN signals for the trailer profile should be sent per TRS-REQ-329853. Trailer Name and Trailer Type should be set to the user entered values. All other trailer profile values should be set to the default values per TRS-REQ-324886.

Server 1 and 2 should be updated per TRS-REQ-324859 and TRS-REQ-326497, respectively.

Client shall generate the signal LBttMeasure with a value of 0x7F

2.16.26 TRS-REQ-346103/A-Trailer Brake Type

Trailer Brake Type maps to signal: BrakeType FBMP sent per TRS-IIR-REQ-324837/A-FBMP Content [Mode – Trailer Brake]

When adding a new trailer, the entered trailer brake type should be sent to Server 1 per TRS-IIR-REQ-324837 when the user confirms the value

When an existing active trailer profile is edited, the trailer brake type field should be updated in the requested trailer profile when the user confirms the value and server 1 should be updated

When an existing non-active (view/edit trailer) is edited, the trailer brake type should be updated to the requested trailer profile when the user confirms the value, but server 1 is not updated until that trailer is selected as active.

R SETTINGS SPSS V1.8 JUL 6, FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 34 of 65
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2.16.27 TRS-REQ-346104/A-Trailer Brake Effort

Trailer Brake Effort maps to signal: BrakeEffort FBMP sent per TRS-IIR-REQ-324837/A- [Effort - Trailer Brake]

When adding a new trailer, the entered trailer brake effort should be sent to Server 1 per TRS-IIR-REQ-324837 when the user confirms the value

When an existing active trailer profile is edited, the trailer brake effort field should be updated in the requested trailer profile when the user confirms the value and server 1 should be updated

When an existing non-active (view/edit) is edited, the trailer brake effort should be updated to the requested trailer profile when the user confirms the value, but server 1 is not updated until that trailer is selected active.

2.16.28 TRS-REQ-346105/A-Trailer BLIS (BTT) Compatible Trailer Type

Trailer Blind Spot Detection (Trailer BLIS) is only compatible with the conventional trailer type.

2.16.29 TRS-REQ-346106/A-Trailer Blind Spot Detection Length (Measurement E)

Trailer Blind Spot Detection Measurement E maps to signal: LBttMeasure

When adding a new trailer, the entered Trailer BLIS Length should be sent to Server 2 per TRS-REQ-326497.

When an existing active trailer profile is edited, the Trailer BLIS Length should be updated in the requested trailer profile when the user confirms the value and server 2 should be updated

When an existing non-active (view/edit) is edited, the Trailer BLIS Length should be updated to the requested trailer profile when the user confirms the value, but server 2 is not updated until that trailer is selected active.

The user entered/displayed value should be converted and scaled to LBttMeasure appropriately.

2.16.30 TRS-REQ-346108/A-General Sorting Order Function for Listed Trailer Names

The list of user entered trailers should be sorted as follows:

- The last active trailer should be shown first. If no active trailer (none) was selected last, then there was no last active trailer
- Then the user entered trailers should be sorted in alphabetical order

2.16.31 TRS-REQ-346109/A-Close TBA/TRG Trailer Selection Menu

The TBA/TRG Trailer selection menu (refer to HMI spec for specific screens) should be shown when TrailerBackupAssist_St = 0x2 (SelectTrailer). When TrailerBackupAssist_St != 0x2 (SelectTrailer), the TBA/TRG Trailer selection menu should not be shown.

2.17 TRS-REQ-329860/C-Generic missing signal

If TrIrAidEnbl_D2_Stat and TrIrAidMsgTxt_D2_Rq signals go missing for longer than 5 (five) seconds, then client should exit TBA2.

2.18 REQ-522358/A-Trailer Brake Gain

2.18.1 TRS-REQ-332801/B-Trailer Brake Gain Values

Client shall save the valid data that is sent by the server through signal LTrlrBrkGainSerTx after a trailer has been deactivated or Ignition is changed to Off if LTrlrBrkGainClientTx is 28 or 29 otherwise don't save the data.

The client shall send the data stored above through the signal LTrlrBrkGainClientTx back to the server under the conditions specified in the table below.

The table below describes what values the client should send through LTrlrBrkGainClientTx.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 35 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

Ford Motor Company	Subsystem Part Specific Specification Engineering Specification	Ford Motor Company	Ford
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0-20	Sent immediately after a previously created trailer is re-activated. Value is determined based on the last known gain for that trailer. These values should be sent until the server transmitted signal LTrlrBrkGainSerTx matches the value of what the client is currently sending through LTrlrBrkGainClientTx.
21-27	Unused
28	First time a specific trailer is activated. Also this is send when there are no values stored for LTrlrBrkGainClientTx.
29	While trailer remains active, after confirming request for change has been honored
30	No trailer active. Default value.

2.18.2 TRS-REQ-522357/A-Ota Update once

Update value (CAN is 10). Client will transmit this 10, until Server replies with a 10. After that, client can transmit the default value. This event can protocol transmit 10 happens only once, unless values change several times by the user and the value 10 is a user request. The idea is that this automatic change happens only once.

2.19 TRS-REQ-332802/B-TBA Status Determination

TBA_Status_St is the status of the Pro Trailer Backup Assist Feature. Its value is determined from the conditions described in the table below.

Status	Condition
Not Setup	TBA_Cfg = Enabled &
	LTrlrAnDirMem [ActiveTrailer] =0
Ready	TBA_Cfg = Enabled &
	LTrlrAnDirMem [ActiveTrailer] !=0
Null	All other conditions

2.20 TRS-REQ-332803/B-TRG Status Determination

TRG_Status_St is the status of the Pro Trailer Backup Assist Feature. Its values are determined from the conditions described in the table below.

Status	Condition
Not Setup	TRG_Cfg = Enabled &
	LTrlrAnDirMem [ActiveTrailer] =0
Ready	TRG_Cfg = Enabled &
	LTrlrAnDirMem [ActiveTrailer] !=0
Null	All other conditions

2.21 Trailer Selection Operation While in TBA/TRG

2.21.1 REQ-442397/A-Add new trailer from TBA/TRG trailer select screen when there is no active trailer

Client must update LTrIridNo from current value to new value before or at the same time as LTrIrAidE = ActivateTba is sent LTrIrAnDirMem must be 0x0 Null when LTrIridNo is first sent with new value and then updated to 0x1 when TrIrAidMsgTxt_D2_Rq > 2

2.21.2 REQ-442398/A-Add new trailer from TBA/TRG trailer select screen when there is already an active trailer

Client must update LTrlridNo from current value to new value before or at the same time as LTrlrAidE = ActivateTba is sent

FILE: TRAILER SETTINGS SPSS v1.8 Jul. 6, 2023 FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 36 of 65
----------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------

LTrlrAnDirMem must be 0x0 Null when LTrlridNo $\,$ is first sent with new value and then updated to 0x1 when TrlrAidMsgTxt_D2_Rq > 2

2.21.3 <u>REQ-442399/A-Select saved trailer from TBA/TRG trailer select screen when there is no active trailer</u>
Client must update LTrIridNo from current value to new value at the same time as LTrIrAidE = ActivateTba is sent LTrIrAnDirMem must be updated to the saved value at the same time when LTrIridNo is first sent with new value.

2.21.4 <u>REQ-442400/A-Select saved trailer from TBA/TRG trailer select screen when there is already an active trailer</u>
Client must update LTrIridNo from current value to new value at the same time as LTrIrAidE = ActivateTba is sent
LTrIrAnDirMem must be updated to the saved value at the same time when LTrIridNo is first sent with new value.

2.22 TRS-REQ-332804/C-BttFilSys

BttFilSys describes the overall BTT value based on left sensor.

LBttLeftSt Signal	BttFilSys (internal variable)
NotDetermined (0x0)	ON (0x1)
Connected (0x1)	ON (0x1)
Pending (0x2)	ON (0x1)
NotConnected (0x3)	ON (0x1)
OffTemp (0x4)	ON (0x1)
Off (0x5)	OFF (0x0)
Disable (0x6)	DISABLED (0x2)
BTT5G_Fault (0x7)	FAULT (0x3)
Missing	FAULT (0x3)
Don't care	FAULT (0x3)
All Other Cases	FAULT (0x3)

This value is generated by client.

2.23 TRS-REQ-332805/B-BTT Status

Client sends Trailer Blind Spot Status through Transfer Protocol. Its values are determined like in the table below

table below	
Status	Condition
Ready	BTT_Full_Cfg = Enabled & IF [LTrlridSel [ActiveTrailer] = Conventional] { LBttMeasure [ActiveTrailer] > 0x08 & LBttMeasure [ActiveTrailer] < 0x66 & BttFilSys = 0x1 (On) }
	ELSE IF [LTrlridSel [ActiveTrailer] = 5 th Wheel Gooseneck] { LBttMeasure1 [ActiveTrailer] > 0x09 & LBttMeasure1 [ActiveTrailer] < 0x67 & BttFilSys = 0x1 (On) }
Not Available	BTT_Full_Cfg = Enabled & IF [LTrlridSel [ActiveTrailer] = Conventional] {
	(LBttMeasure [ActiveTrailer] =7F

FILE: TRAILER SETTINGS SPSS V1.8 JUL 6, FORD MOTOR COMPANY CONFIDENTIAL		Page 37 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	i aga ar ar ac

ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification
		BttFilSys = (0x2 (Disabled) 0x3 (Fault))) } SE IF [LTrIridSel [ActiveTrailer] = 5 th Wheel Gooseneck] { BTT5G_Cfg = Enabled & (LBttMeasure1 [ActiveTrailer] = 7F BttFilSys = (0x2 (Disabled) 0x3 (Fault))) } SE IF [LTrIridSel [ActiveTrailer] = 5 th Wheel Gooseneck] { BTT5G_Cfg = Disabled }
Not Setu	IF [T_Full_Cfg = Enabled & [BTT5G_Cfg = Enable] { LTrIridSel [ActiveTrailer] = Don't Care & LBttMeasure [ActiveTrailer] = 0x7E & LBttMeasure1 [ActiveTrailer] = 0x7E } SE { LTrIridSel [ActiveTrailer] = Conventional & LBttMeasure [ActiveTrailer] = 0x7E }
Off	BT	T_Full_Cfg = Enabled & BttFilSys = 0x0 (Off)

2.24 TRS-REQ-334562/A-TAFE Trailer Average Fuel Economy Related Req

2.24.1 TRS-REQ-334511/A-TAFE LOdo

LOdo provides high accuracy odometer value to the client. The client shall use the data provided by this signal to calculated average fuel economy.

Detail	Units	Res.	State Encoded	Min	Max
	meters	.2		0 (0x00)	50.8 (0xFE)
Invalid			0xFF		

LOdo signal value is 256 steps, transition from 254 to 0 is two steps for the client. A 255 (0xFF) is used only in error handling of invalid data.

A transition from 254 to 0, is considered two steps for a total value of 0.4 meters change in distance traveled.

2.24.2 TRS-REQ-334512/A-TAFE LFuelCons

LFuelCons: this signal is received by client. It tells the amount of fuel consumed since ignition started. At every ignition cycle, this signal starts with a value of 0.

Units	Resolution	Min	Max
microL	25	0 (0x00)	25575 (0x3FF)

2.24.3 TRS-REQ-334513/A-TAFE Odometer Value

The user may be given the ability to manually change the value of trailer distance traveled.

For this feature, Trailer Average Fuel Economy, only recorded trailer travel data should be used in the calculations, not user generated value.

Tracking of distance traveled and fuel consumed should be done when a trailer is connected to the vehicle. Any particular data generated should be started and linked to the connected trailer.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 38 of 65
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2.24.4 TRS-REQ-334514/A-TAFE Converted Values

The source of the data used for calculating trailer average fuel economy are distance traveled in meters and fuel consumed in microliters. These are not the units that the final results should be displayed though.

The units to be displayed are provided by FBPM Feature ID 0901.

Refer to Settings in Centerstack for further details on FBMP operation and feature ID 0901.

- 1- Miles and Gallons
- 2- Miles and Gallons UK units
- 3- Liter/100 Km
- 4- Km/Liter

Average Fuel Economy algorithm shall introduce less than 0.1% error to displayed value.

Shall use kilometer to miles conversion constant of 1/1.609344

Shall use liters to U.S. gallons conversion constant of 1/3.785412

Shall use U.S. gallons to U.K. gallons conversion constant of 0.8326725

Values for each Trailer Average Fuel Economy shall be retained through a Battery Disconnect during key OFF/ACC

2.24.5 TRS-REQ-334515/B-TAFE Reset Values

When a trailer has no average fuel economy data, such as when it is first connected or when trailer data has gone through a reset, the client shall send a value of "---" (3 dash-es) for the first 20 seconds AND 100 meters.

2.24.6 TRS-REQ-334516/A-TAFE Fuel Economy Data

To calculate average fuel economy, total distance traveled (TDT) and total fuel consumed (TFC) for a particular trailer should be stored in internal memory of the client with that particular trailer dataset. Attention must be paid in case of overflow, since the numbers may exceed allocated memory byte size.

2.24.7 TRS-REQ-334517/B-TAFE Total Distance Traveled

Total Distance Traveled (TDT) is the sum of Current Ignition Distance Traveled (CIDT) and Previous Ignition Distance Traveled (PIDT).

The signal that provides distance traveled during the trip is LOdo. This signals max value is up to 50.8m, so client needs to keep track of signal parameter rollover for proper distance tracking. Since LOdo is a periodic signal, at each time the value is received, a new distance should be calculated. This frequency though depends on Client abilities and is left to developers to define the frequency of data accumulation. The important part is to not miss any data.

CIDT = LOdo - Previous LOdo

If LOdo < Previous LOdo //if signal rollover happens

CIDT = LOdo+256 - PreviousLOdo.

TDT =CIDT+PIDT

Calculation above provides the total counter of the odometer value as provide by the can signal. To get the real distance traveled calculations below need to be considered:

Distance in KM = TDT /5000

2.24.8 TRS-REQ-334518/B-TAFE Total Fuel Consumed

Total Fuel Consumed (TFC) is the sum of Current Ignition Fuel Consumed (CIFC) and Previous Ignition Fuel Consumed (PIFC)

The signal that provides this data is LFuelCons. While the signal provides a large value for fuel consumption, we need to protect the variables for any rollover scenario. Since LFuelCons is a periodic signal, a new fuel consumption value needs to be calculated at appropriate timings do no data acquisition is missed. The frequency of data calculation is left to developers.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 39 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

CIFC = LFuelCons - Previous LFuelCons
If LFuelCons < Previous LFuelCons //if signal parameter rollover happens
CIFC = LFuelCons +1024 - Previous LFuelCons.

TFC= CIFC+PIFC

The values above describe the total raw value as provided by the can signal. To get the physical quantity of the fuel consumed, the below calculations need to done:

Liter Fuel Consumed = TFC /40000.

2.24.9 TRS-REQ-334544/B-TAFE Displaying Units

As mentioned earlier, the values shown will depend on the vehicle settings. To get Fuel and Distance data converted from one unit to another, below information should be followed.

When Feature Number 0x0901 is Miles and Gallons:

Fuel in Gallons = Fuel in Liters /3.785412

Distance in Miles = Distance in Km /1.609344

Average Fuel Consumption = Distance in Miles / Fuel in Gallons.

Max display value for this setting should be 99.9 units.

When Feature Number 0x0901 is Miles and Gallons (UK only):

Fuel in UK Gallons = Fuel in Liters * 0.2199688

Distance in Miles = Distance in Km /1.609344

Average fuel Consumption = Distance in Miles/Fuel in UK Gallons

Max display value for this setting should be 99.9 units.

When Feature Number 0x0901 is Liter/100 km:

Fuel in Liters

Distance in Kilometers

Average Fuel Consumption = 100 * Fuel in Liters / Distance in Km

Max display value for this setting should be 99.9 units.

When Feature Number 0x0901 is km /Liter:

Distance in Kilometers

Fuel in Liters

Average Fuel Consumption = Distance in Km / Fuel in Liters.

Max display value for this setting should be 99.9 units.

For EV and Hybrids max display units, no matter what unit type is being displayed, should be 999.9

2.25 TRS-REQ-337297/A-Data Storing

Data that is changeable but need to be retained after an ignition cycle or a power loss, such as odometer values, or average fuel economy data, will need to be store in non volatile memory at least once when ignition status changes to off, the storing can also happen while ignition is in run state.

2.26 TRS-REQ-346111/A-Default Trailer TAFE & Odo

Client should store TAFE and ODO values for default trailer. The client should give the user the ability to reset these values.

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2.27 TRS-REQ-346113/A-Odometer 0 Value

For trailer ID = 0, client should not show any Odometer value or TAFE, 0 value or any other value.

For any new trailer, once it is connected, client can show 6 (six) spaces plus a 0 for 0 mileage until that value changes. For any trailer already connected that goes through a data reset, the client can show 6 (six) spaces plus a 0 for 0 mileage until that value changes.

This values displayed on Client HMI, should be the same transmitted through TP for consistency.

2.28 TRS-REQ-365819/C-Content Saving in Client

The Client shall store the data below so that it is available after any restart, due to module power cycle. Some of the data is linked to specific trailer and some is in general.

Active Trailer

Trailer Name

Trailer Distance

Trailer Distance value that is used to calculate Fuel Economy.

Trailer Fuel

Trailer Average Fuel Economy

Connection Notifications (whether on or off)

Trailer Brake Gain

Trailer BLIS Length

Trailer Brake Type

Trailer Brake Effort

Range per Full Charge (where applicable in the program)

Data used in these signals:

LTrlrAnOffstAng LTrlrAnOffstDir

LtrlrAidTrgtId

LTrlridSel

LTrlrIdNo

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3 Functional Definition

3.1 TRS-FUN-REQ-332818/A-Trailers Operations

3.1.1 Use Cases

3.1.1.1 TRS-UC-REQ-324888/A-Add New Trailer

-			
Actors	Vehicle occupant		
Pre-conditions	Vehicle is on.		
There are less than the max number of trailers stored in the system.			
Scenario	User navigates through the HMI menu and enters new trailer name (s) and relevant settings.		
Description			
Post-conditions	Upon saving the changes, the last modified trailer becomes active.		
	Client forwards the trailer name and mileage (0 value) to Server 1.		
	Client forwards all settings associated with the trailer to Server 2. Default data is transmitted if no		
	data has been populated yet.		
List of Exception			
Use Cases			
Interfaces	HMI		
	Vehicle System Interface.		

3.1.1.2 TRS-UC-REQ-324889/A-Select Trailer

Actors	Vehicle occupant
Pre-conditions Vehicle is on.	
	There are multiple trailers stored in the system.
Scenario	User navigates through the HMI menu and selects their choice of active trailer.
Description	
Post-conditions	Upon saving the changes, the last modified trailer becomes active.
	Client forwards the trailer name and mileage (0 value) to Server 1.
	Client forwards all settings associated with the trailer to Server 2. Default data is transmitted if no
	data has been populated yet.
List of Exception	
Use Cases	
Interfaces	HMI
	Vehicle System Interface.

3.1.1.3 TRS-UC-REQ-324890/A-Trailer Type Change

Vehicle occupant
Vehicle is on.
There are one or many trailers stored in the system.
User navigates through the HMI menu and changes the trailer type from 5W/GN to Conventional or
vice versa.
All TBA/TRG and BTT parameters are reset to default values.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 42 of 65
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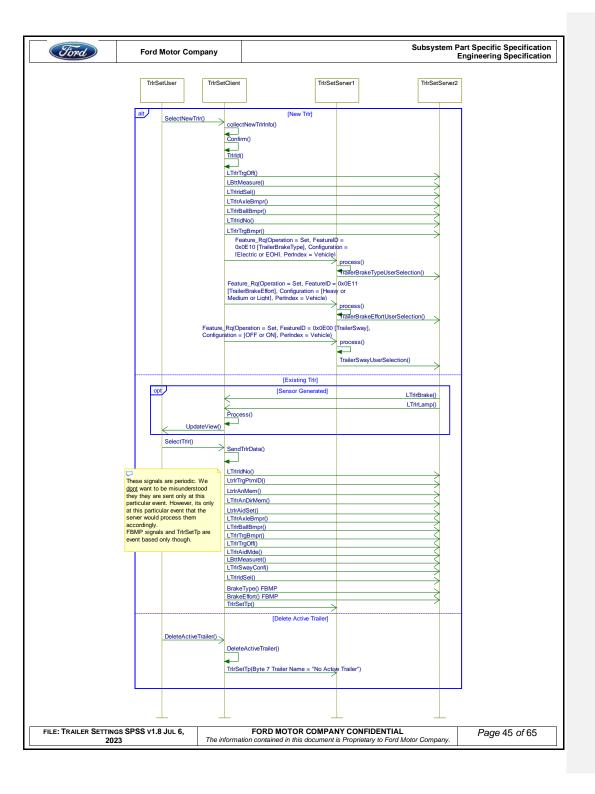
Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification
List of Exception Use Cases		
Interfaces	HMI Vehicle System Interface.	

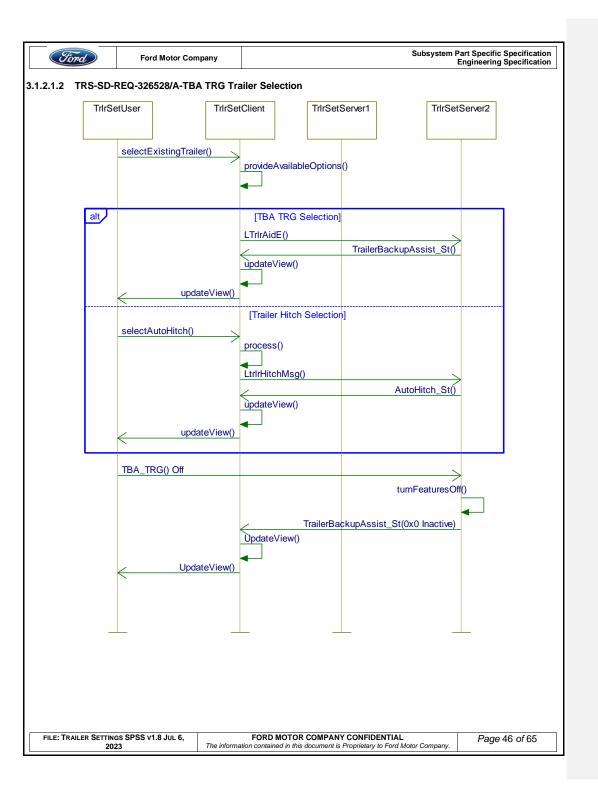
3.1.1.4 TRS-UC-REQ-324891/A-Delete Trailer

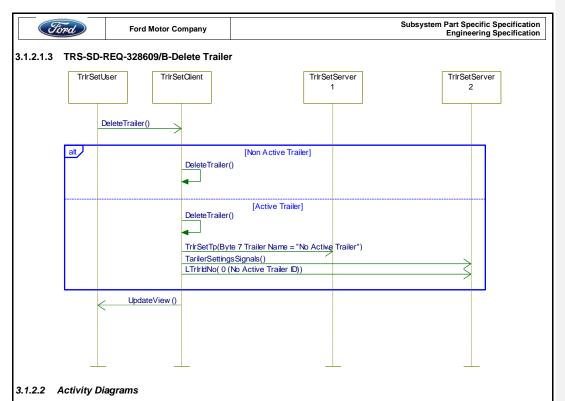
Actors	Vehicle occupant	
Pre-conditions	Vehicle is on.	
	There is at least one trailer stored in the system.	
Scenario	User navigates through the HMI menu and selects a trailer to delete	
Description	cription	
Post-conditions	Trailer and all its related settings and configurations are deleted.	
List of Exception	of Exception	
Use Cases		
Interfaces	s HMI	
	Vehicle System Interface.	

FILE: TRAILER SETTINGS SPSS v1.8 JUL 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 43 of 65

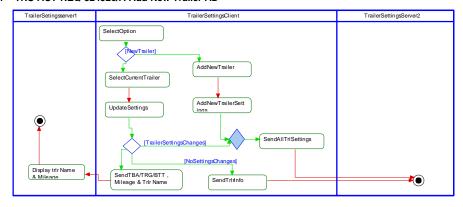
	Ford	Ford Motor Company	Subsystem I	Part Specific Specification Engineering Specification	
3.1.2	3.1.2 White Box Views				
3.1.2	3.1.2.1 Sequence Diagrams				
3.1.2	1.1 TRS-SD-	REQ-324925/A-Add New T	railer SD		
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3.1.2.2.1 TRS-ACT-REQ-324926/A-Add New Trailer AD



3.2 TRS-FUN-REQ-332881/A-Trailer Brake Gain

3.2.1 TRS-UC-REQ-332882/A-No Trailer Selection

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 47 of 65

Ford Motor Company Subsystem Part Specifica Engineering Specificate	Ford
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Actors	User
Pre-conditions Ignition is On	
	Trailer available in trailer settings configuration.
	Trailer Brake data already available for the trailers.
Scenario	User drives the vehicle but never selects any trailer.
Description User turns ignition Off.	
Post-conditions Client sends this signal LTrlrBrkGainClientTx with a value of 30.	
List of	
Exception Use	
Cases	
Interfaces	

3.2.2 TRS-UC-REQ-332883/A-Trailer Setup For First Time

Actors	User
Pre-conditions	Ignition is On
	There are no trailers stored in trailer settings menu.
Scenario	User adds a trailer in the settings.
Description	Server provides a trailer brake gain value to the client.
Post-conditions	Once a trailer is active Client sends this signal LTrlrBrkGainClientTx with a value of 28. When trailer gets deactivated, the client shall save the value provided by the server through the signal LTrlrBrkGainSerTx.
List of	
Exception Use	
Cases	
Interfaces	

3.2.3 TRS-UC-REQ-332884/B-Trailer Brake Gain Normal Operation

Actors	User	
Pre-conditions	Ignition is On	
	Trailer available in trailer settings configuration.	
	Trailer Brake data already available for the trailers.	
Scenario	User selects a trailer.	
Description	Client send trailer brake gain data to the server through the signal	
	LTrlrBrkGainClientTx with a valid value of 0 -20.	
Post-conditions	Once server confirms the value by sending back the same value through the signal	
	LTrlrBrkGainSerTx, client stops sending the previous value and instead now it	
	sends a value of 29 through the signal LTrlrBrkGainClientTx.	
List of		
Exception Use	lse	
Cases		
Interfaces		

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 48 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	1 190 10 11 11

Ford	ord Motor Company	Subsystem Part Specific Specification Engineering Specification
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3.2.4 TRS-UC-REQ-332885/A-Brake Gain Server Unresponsive

Actors	User		
Pre-conditions	Ignition is On		
	Trailer available in trailer settings configuration.		
	Trailer Brake data already available for the trailers.		
Scenario	User selects a trailer.		
Description	Client send trailer brake gain data to the server through the signal		
	LTrlrBrkGainClientTx with a valid value of 0 -20.		
Post-conditions	Server doesn't confirm the value received. Client will keep sending the signal		
	LTrlrBrkGainClientTx with the data it has stored previously. Client will not store		
	data provided by LTrlrBrkGainSerTx when trailer gets deactivated.		
List of			
Exception Use	Use		
Cases			
Interfaces			

3.3 TRS-FUN-REQ-394531/A-Range Per Full Charge

3.3.1 Requirements

3.3.1.1 TRS-REQ-395606/A-Function Availability

The vehicles that will have this function, is determined through DID configuration. For the vehicles that aren't configured, none of the requirements of this function should be executed.

3.3.1.2 <u>TRS-REQ-394538/A-Store Data</u>

When Ltrlid is received with a non zero value, the client shall store the range per full charge provided by signal LTrlRangeVal for the trailer provided in Ltrlid signal. The data storing can be done so that content stays upon ignition cycles.

3.3.1.3 TRS-REQ-394539/A-Active Trailer Update

When the client sets a specific trailer as active, the client shall update the server with the trailer name through LTrlActive signal.

3.3.1.4 TRS-REQ-394540/A-Active Trailer Reset

When the user deletes a trailer or reset an active trailer, the client shall send the signal LtrlReset with the trailer id as a parameter. The client shall transmit this way for 500ms.

3.3.1.5 TRS-REQ-394541/A-Invalid Value

When LtrlRangeVal comes is missing or has an invalid data for a specific trailer ID, the client shall continue to use last known

3.3.1.6 TRS-REQ-394543/A-Range Per Full Charge

Whenever a trailer ID is active, client shall forward to Server 1 through TP the data it receives through signal LTrlRangeVal for the particular active trailer. Basically, no matter what trailer info is coming from server 2, client shall only send to server 1 only the info for the active trailer. (The server 2 may send to client all the range values for all the available trailers, hence we need to make a distinction between active trailer and other trailers.)

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 49 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

3.3.1.7 TRS-REQ-395570/A-ID Beyond the Range

LtrlActive, LTrlReset and LTrlid have values that go up to 15, meaning the signals can accommodate up to 16 trailers, but currently Client only accommodates 11 and the 11 is default trailer. If any trailer ID is sent by the server which is above the range, such as ID 12 (meaning the 12th trailer) that ID needs to get ignored and client shouldn't act on anything in particular when those ID get delivered.

3.3.2 Use Cases

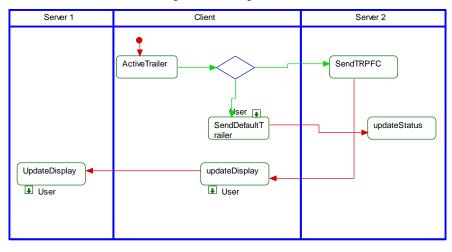
3.3.2.1 TRS-UC-REQ-395607/A-Data Update

Actors	Vehicle user	
Pre-conditions Vehicle is BEV		
	Vehicle has trailer configured	
Scenario	User selects the trailer.	
Description	Server 2 sends Range per Full Charge to be displayed.	
Post-conditions Client displays received content.		
	Client forwards received content through TP to Server 1 for display on Server 1 as well.	
List of Exception		
Use Cases		
Interfaces	Client HMI, Server 1	

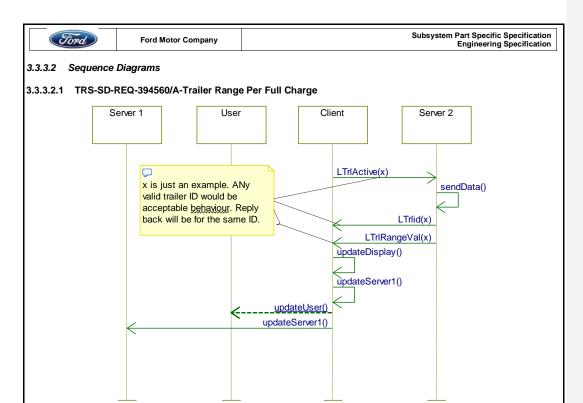
3.3.3 White Box Views

3.3.3.1 Activity Diagrams

3.3.3.1.1 TRS-ACT-REQ-394559/A-Trailer Range Per Full Charge



FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 50 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	i age ee e



3.4 TRS-FUN-REQ-408698/A-BTT 5G

3.4.1 Btt 5G Overview

BTT 5G is a feature that makes use of radars to extend the trailer detection length further than what's being done with BTT feature.

The rest of this function will provide further requirements on how the Client shall communicate with Server to provide BTT 5G feature.

3.4.2 Requirements

3.4.2.1 TRS-REQ-408700/A-Trailer Type. Sod Unavailable

When user selects Fifth Wheel trailer or Gooseneck trailer on Client HMI, the client shall look at LSodLeftSt and LSodRightSt. Only when LSodLeftSt is 0x0 (standby) and LSodRightSt is 0x0 (standby) shall the Trailer Length be processed.

If LSodLeftSt and LSodRightSt have values other than 0x0, or client is unable to receive the values at all, such as when signals go missing, the client could display a Popup. Exact wording and other details can be found in HMI specification.

3.4.2.2 TRS-REQ-408701/A-Trailer Length

Client acquires Trailer Length from the user provided data. It then sends this data to the server. Due to the changes being made to the feature, we have two signals to provide this trailer length:

LBttMeasure

LBttMeasure1

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 51 of 65
-------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

The values of these signals will depend on trailer types and additional conditions provided here.

3.4.2.2.1 TRS-REQ-408708/A-Conventional Trailer

For Conventional Trailers:

Maximum length of conventional trailer is 33 ft. Any value larger than 33 ft and LBttMeasure shall be set to 0x7F.

LBttMeasure1 shall be set to 0x7F when trailer type is conventional.

For trailer widths greater than 8.5 ft, client shall set LBttMeasure to 0x7F.

3.4.2.2.2 TRS-REQ-408709/A-Unconventional Trailer

If TrailerType is gooseneck or 5th wheel, and client receives the signals LSodLeftSt & LSodRightSt with the value as standby (0x0), then the minimum valid length shall be 20 feet (6.1m) and the maximum valid length shall be 50 feet (15.2m).

If client is not able to read LSodLeftSt & LSodRightSt, or if trailer length is less than 20 feet or greater than 50 feet, LBttMeasure1 shall be invalid. For an invalid input, the client shall set LBttMeasure1 equal to-hx7F.

If TrailerWidthRaw is greater than 8.5ft (2.6m), then client shall set LBttMeasure1 = hx7F.

3.4.2.2.3 TRS-REQ-409085/A-Trailer Length Not Available

If the length of a trailer has not been entered, client shall set LBttMeasure and LBttMeasure1 equal to NO DATA EXISTS (hx7E) for the respective trailer type.

3.4.2.2.4 TRS-REQ-409188/A-Trailer Type to Trailer Length Relationship

TrailerType	LBttMeasure	LBttMeasure1
Conventional	Valid (3-33ft)	0x7F – Invalid (unsupported trailer type)
Conventional	hx7F - Invalid (less then 3ft or greater than 33ft)	0x7F – Invalid (unsupported trailer type)
Conventional	hx7E – No Data	0x7F – Invalid (unsupported trailer type)
5 th Wheel or Gooseneck	Don't Care	Valid (20-50ft)
5 th Wheel or Gooseneck	hx7F - Invalid (unsupported trailer type)	0x7F - Invalid (less then 20ft or greater than 50ft)
5 th Wheel or Gooseneck	hx7F - Invalid (unsupported trailer type)	0x7E – No Data
5 th Wheel or Gooseneck	hx7F - Invalid (unsupported trailer type)	0x7F – Invalid (no AUX radars)
Not Inputted	hx7E – No Data or	hx7E – No Data or

3.4.2.3 TRS-REQ-410765/A-Lost Signals

If LBttLeftSt & LBttRightSt signals go missing for a 5 period timeframe, the client shall notify the user. A diagnostic code could be set. Refer to HMI per proper notification requirements.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 52 of 65
------------------------------------------------	-------------------------------------------------------------------------------------------------------------------	---------------

3.4.2.4 TRS-REQ-408702/A-Delayed Check

Client shall not read or not process BTT5G CAN signals **LSodLeftSt & LSodRightSt** for up to 1.5 seconds, after vehicle ignition status becomes ON. This gives the server enough time to calibrate and check itself. The signal content is not reliable until after 1.5 seconds.

3.4.2.5 TRS-REQ-410846/B-BTT 5G Status

APIM shall know BTT5G feature status from **LSodAltSt**, **BttFault**, and **LBttMeasure1**. LSodAltSt, BttFault, and LBttMeasure1 rows are AND-ed.

BTT5G Feature Status	LSodAltSt	BttFault	LBttMeasure1
Active	0x1 or 0x2	0x0 or 0x1 or 0x2	Hx0A to Hx66
Inactive	0x0	Don't Care	Hx7E
	Don't Care	0x3 or 0x4 or 0x5 or 0x6	Don't Care
Fault	0x3 or missing	0x7 (BTT5G Fault)	Hx0A to Hx66
	0x3	0x7 (BTT5G Fault)	Hx7F or Hx00 to H09 or Hx67 to Hx7D

LSodLeftSt & LSodRightSt are ANDed to provide the final result that can be used for LSodAltSt. LBttLeftSt & LBttRightSt are ANDed to provide the final result that can be used for BttFault.

3.4.2.6 TRS-REQ-410847/A-BTT 5G Configuration

When BTT5G is disabled per VSCS then client shall ignore any CAN signals or logic that has the ability to modify the state of this feature.

3.4.3 Use Cases

3.4.3.1 TRS-UC-REQ-410734/A-Btt 5G Valid Values Input

Actors	Vehicle Occupant	
Pre-conditions	Vehicle is in Run/Start	
	BTT5G radars are connected and available on the bus.	
Scenario	User enters an unconventional trailer, equal to or larger than 20ft, or equal to or smaller than 50.	
Description		
Post-conditions	System accepts the input data and feature operates properly.	
List of Exception	E1 – Vehicle is not RUN/START	
Use Cases	E2 – Loss of communication with BTT5G radars	
Interfaces		

3.4.3.2 TRS-UC-REQ-410735/A-Btt 5G Invalid Values Input

Actors	Vehicle Occupant		
FILE: TRAILER SETTING	S SPSS v1.8 Jul 6.	FORD MOTOR COMPANY CONFIDENTIAL	Page 53 of 65
202		The information contained in this document is Proprietary to Ford Motor Company.	1 age 33 01 03

Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification
Pre-conditions	Vehicle is in Run/StartBTT5G radars are conr	nected and is available on the bus.
Scenario Description	User enters an unconventional trailer, larger than 50ft or smaller than 20.	
Post-conditions	User gets information indicating that data length is not supported by BLIS.	
List of Exception Use Cases	E1 – Vehicle is not RUN/START E2 – Loss of communication with BTT5G radars	
Interfaces		

3.4.3.3 TRS-UC-REQ-410737/A-Btt 5G Invalid Trailer

Actors	Vehicle Occupant	
Pre-conditions	Vehicle is in Run/Start	
	BTT5G radars are connected and is available on the bus.	
Scenario	User enters a conventional trailer, larger than 33 ft.	
Description		
Post-conditions	User gets information indicating that data length is not supported by BLIS.	
List of Exception	E1 – Vehicle is not RUN/START	
Use Cases		
Interfaces		

3.5 TRS-FUN-REQ-436278/B-Trailer 360

3.5.1 Overview

Trailer 360 is an additional menu to Trailer Settings feature. This new change becomes operational and fully functional and requirements below fully applicable only when LTConnectCamera is Yes.

3.5.2 Requirements

3.5.2.1 TRS-REQ-436265/A-TBA2 Calibration

To initiate a TBA2 calibration (refer to client HMI spec when this step is needed), client follows the below process: Client transmits LTrIrAidSet 0x01

Client shall transmit signal above (LTrIrAidSet) with parameter 0x01 until client receives the signal LtSetCalib =0x5 Once signal LtSetCalib comes with the value 0x5, client shall retransmit LTrIrAidSet with the value 0x00

3.5.2.2 Trailer Angle Detection

Trailer Angle Detection (TAD) Calibration is an activity that Trailer settings needs to do before Trailer 360 can be activated. Once we have a successful TAD, Trailer 360 does a Camera Calibration and then user can fully interface and benefit from Trailer 360 feature. TAD calibration is done through a multitude of signals described below. Some of the signals however are main components of TBA2 and this feature being closely related to TBA2, the TBA2 signals have not been redefined in Trailer Settings.

3.5.2.2.1 TRS-REQ-437298/A-Requesting TAD Calibration

To initiate TAD calibration client transmits the following signal with the parameter below: TrlrAidSetup_D2_Rq = 0x01 (Begin Setup)

FORD MOTOR COMPANY CONFIDENTIAL 2023 FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 54 of 65
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3.5.2.2.2 TRS-REQ-437299/A-Client Displays TAD Calibration Instructions

Showing calibration instructions is done per server request. The server will send the following signals:

TrlrAidSetup_D2_Stat > 0x00 and TrlrAidSetup_D2_Stat<0x05

TrlrAidEnbl_D2_Stat = 0x03 (TBAOffTRGSetup)

The instructions displayed in client HMI will be displayed according to TrlrAidMsgTxt_D2_Stat signal. Reference the HMI status coding spec for displaying the TAD calibration instructions (SYNC4_TBA2_HmiStatus_Coding)

If (Trailer_Measurement_Cfg is equal to 0x0 (NoMeasurement) or ((Trailer Type is equal to 5th wheel or Gooseneck) and TBA_5thWheel_Support_Cfg is equal to true) then the client should also store LTrlrAnDirMem equal to 0x1 for the active trailer profile when TrailerBackupAssist_St is > 0x2 and server 2 should be updated.

3.5.2.2.3 TRS-REQ-437300/C-TAD Calibration Completed

If client sends the following signal:

TrlrAidSetup _D2_Stat = 0x05 (SetupAcquisitionSuccess)

Then Client shall request camera calibration using the following signals:

- LCamraCalibRq = 0x01 Request Calibration
- TrlrAidSetup_D2_Rq = 0x00 (Null)
- TrlrAnOffstDir_D_Mem = 0x1 for the active trailer profile.

And display the Trailer 360 calibration screens per the Sync4_TBA2_HmiStatus_Coding document.

3.5.2.2.4 TRS-REQ-437301/B-User Requests to Cancel during TAD Calibration

If the user selects the cancel button during the TAD calibration, then client shall send the following signal:

LCamraCalibRq = 0x00

 $TrIrAidSetup_D2_Rq = 0x00$

3.5.2.2.5 TRS-REQ-437302/B-Client Fails or Cancels TAD Request

If one of the following conditions is met:

- Server has not responded to the TrlrAidSetup_D2_Rq signal after 5 seconds (TrlrAidSetup_D2_Stat has not changed or TrlrAidEnbl_D2_Stat has not change after 5 seconds) OR
- TrlrAidSetup _D2_Stat changes from a value between 0x1 and 0x4 to 0x0 OR
- TrlrCamraMsgTxt_D_Rq = Calibration Failed

Then client shall send the following signals:

TrailerAidSetup_D2_Rq = 0x0

LCamraCalibRq = 0x0

3.5.2.3 TRS-REQ-432063/A-Camera Calibration Procedure

Upon successful TBA2 calibration, client requests camera calibration through the signal LCamraCalibRq- 0x1 (Calibration request).

Upon server transmitting the signal LCamraCalibSt 0x1(calibrating) the Client shall change the value of LCamraCalibRq- 0x0 (Calibration not requested).

	FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 55 of 65
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3.5.2.4 TRS-REQ-435517/B-Measurement Setup Cancelation

If measurement setup is canceled or a higher priority feature is activated, reset the signals below to 0.

LCamraCalibRq = 0x00 (No Request) TrlrAidSetup_D2_Rq = 0x00 (Inactive)

3.5.2.5 TRS-REQ-472961/B-Client Camera Calibration Complete

If the camera server sends the following signal:

- TrlrCamraMsgTxt_D_Rq = Calibration Complete

After 5 seconds, the client shall stop requesting camera calibration by sending the following signals:

- LCamraCalibRq = 0x00 (NoRequest) TrlrAidSetup_D2_Rq = 0x00 (Null)

And inform the customer the calibration has been completed

3.5.3 Use Cases

3.5.3.1 TRS-UC-REQ-431697/A-Trailer 360 Soft Button Activation

Actors	Vehicle Occupant	
Pre-conditions	Trailer 360 system is not connected	
	Vehicle in Run/Start	
Scenario	Trailer 360 system becomes connected to the vehicle.	
Description		
Post-conditions	Various views soft buttons become available. For a complete list refer to HMI documentation.	
List of	E1 – Vehicle is not RUN/START	
Exception Use	E2 – Loss of communication with IPMB module	
Cases	E3 – Valid camera video signal not present	
Interfaces		

3.5.3.2 TRS-UC-REQ-431698/A-Trailer 360 Soft Button Deactivation

Actors	Vehicle Occupant	
Pre-conditions Trailer 360 system is connected		
	Vehicle in Run/Start	
Scenario	Trailer 360 system becomes disconnected to the vehicle	
Description		
Post-conditions	Trailer 360 soft buttons become deactivated.	
List of Exception	E1 – Vehicle is not RUN/START	
Use Cases	E2 – Loss of communication with IPMB module	
	E3 – Valid camera video signal not present	
Interfaces		

3.5.3.3 TRS-UC-REQ-431703/A-TBA2 Trailer Left View selection in TBA or TRG

Actors	Vehicle Occupant		
Pre-conditions	Vehicle in Run/Start		
FILE: TRAILER SETTINGS SPSS v1.8 Jul. 6, FORD MOTOR COMPANY CONFIDENTIAL Page 56 of 65 The information contained in this document is Proprietary to Ford Motor Company.			

Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification	
	Customer is in TBA or TRG		
Scenario	Customer presses the TBA	Customer presses the TBA2 Trailer Left View soft button	
Description			
Post-conditions	Client requests Trailer Left View.		
	Server responds back with the requested view.		
List of Exception			
Use Cases			
Interfaces			

3.5.3.4 TRS-UC-REQ-431705/A-TBA2 Trailer Right View in TBA or TRG

Actors	Vehicle Occupant	
Pre-conditions Vehicle in Run/Start		
	Customer is in TBA or TRG	
Scenario	Customer presses the TBA2 Trailer Right view soft button	
Description	·	
Post-conditions Client requests TBA2 Trailer Right View		
	Server replies back with the view status.	
List of Exception	n E1 – Vehicle is not RUN/START	
Use Cases	E2 – Loss of communication with IPMB module	
	E3 – Valid camera video signal not present	
Interfaces		

3.5.3.5 TRS-UC-REQ-431707/A-Trailer 360 Setup Menu Activation

Actors	Vehicle Occupant	
Pre-conditions	Trailer 360 system is not connected	
	Vehicle in Run/Start	
Scenario	Trailer 360 system becomes connected to the vehicle.	
Description		
Post-conditions	The Trailer 360 setup menu shall become available in the trailer profile settings menu.	
List of Exception	E1 – Vehicle is not RUN/START	
Use Cases	E2 – Loss of communication with IPMB module	
	E3 – Valid camera video signal not present	
Interfaces		

3.5.3.6 TRS-UC-REQ-431711/A-Trailer 360 Measurements - Customer has not entered Trailer Length or Trailer Width

Actors	Vehicle Occupant	
Pre-conditions	Trailer 360 system is connected	
	Trailer Length has not been entered	
	Trailer Width has not been entered	
	Vehicle in Run/Start	
Scenario	The customer has entered the Trailer 360 setup menu and has not previously entered Trailer Length	
Description		
Post-conditions	Client shall provide the user with the option to enter Trailer Length and Trailer Width.	

FILE: TRAILER SETTINGS SPSS v1.8 JUL 6, 2023 FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Com,	Page 57 of 65
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Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification
List of Exception Use Cases	E1 – Vehicle is not RUN/START E2 – Loss of communication with IPMB module E3 – Valid camera video signal not present	
Interfaces		

3.5.3.7 TRS-UC-REQ-441257/A-Trailer 360 Measurements - Customer has not entered Trailer Hitch to Box measurements

Actors	Vehicle Occupant		
Pre-conditions Trailer type is conventional			
	Trailer 360 system is connected		
	Trailer hitch content has not been entered by the user.		
	Vehicle in Run/Start		
Scenario	The customer has entered the Trailer 360 setup menu.		
Description			
Post-conditions	Client shall provide the user with the option to enter missing Trailer Hitch content.		
List of Exception	E1 – Vehicle is not RUN/START		
Use Cases	E2 – Loss of communication with IPMB module		
	E3 – Valid camera video signal not present		
Interfaces			

3.5.3.8 TRS-UC-REQ-431713/A-Trailer 360 Measurements - Customer has entered trailer type, trailer length, trailer width, and hitch to box measurement

Actors	Vehicle Occupant		
Pre-conditions	Trailer Camera Height has been entered		
Trailer Type has been entered			
	Trailer Length has been entered		
	Trailer Width has been entered		
	Trailer Hitch to Box measurement has been entered if it is a conventional trailer		
	Vehicle in Run/Start		
Scenario	enario The customer has confirmed all Trailer 360 measurements.		
Description			
Post-conditions	Client shall send the data to the server.		
List of Exception	E1 – Vehicle is not RUN/START		
Use Cases	E2 – Loss of communication with IPMB module		
	E3 – Valid camera video signal not present		
Interfaces			

3.5.3.9 TRS-UC-REQ-431719/B-Trailer 360 Measurements - Customer has entered all measurements and TAD calibration is complete

Actors	Vehicle Occupant			
Pre-conditions	Trailer 360 system is connected			
	Trailer 360 measurements have been entered Vehicle in Run/Start			
FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023		FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 58 of 65	

Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification		
Scenario Description	Angle calibration has been Camera calibration to start.	completed.		
Description	Carriera cambration to start.	Carnera calibration to start.		
Post-conditions	Client request camera calibration. Server provides camera calibration status complete state. Client stops calibration request. Server provides text notification based on signal			
List of Exception Use Cases	E1 – Vehicle is not RUN/START E2 – Loss of communication with IPMB module			
Use Cases	E3 – Valid camera video signal not present			
Interfaces				

3.5.3.10 TRS-UC-REQ-431721/A-Trailer 360 Setup Menu Deactivation

Actors	Vehicle User
Pre-conditions Client and Server are configured for Trailer 360	
	Vehicle is in Run/Start
Scenario	Trailer 360 becomes disconnected.
Description	
Post-conditions The Trailer 360 setup menu shall become unavailable.	
	Client HMI screen might display a message. Refer to HMI spec for further details.
List of Exception E1 – Vehicle is not RUN/START	
Use Cases	E2 – Loss of communication with IPMB module
	E3 – Valid camera video signal not present.
Interfaces	

3.5.3.11 TRS-UC-REQ-472962/A-Trailer 360 Measurements - Camera Calibration Complete

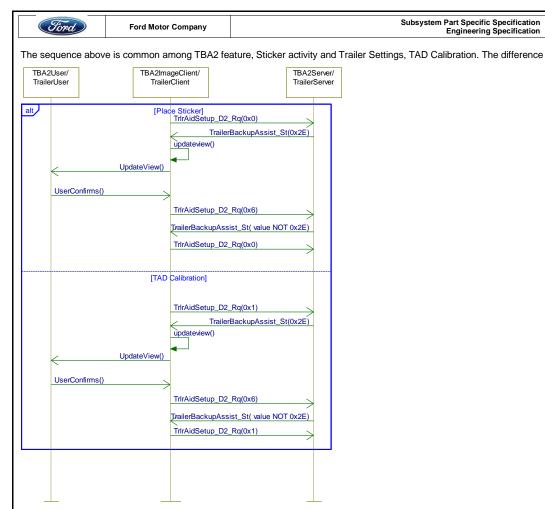
Actors	Vehicle Occupant	
Pre-conditions	onditions Trailer 360 system is connected	
	Trailer 360 measurements have been entered	
	Vehicle in Run/Start	
	Camera calibration active	
Scenario	TrlrCamraMsgTxt_D_Rq =message 10- calibration complete	
Description		
Post-conditions	Client stops requesting camera calibration	
List of	E1 – Vehicle is not RUN/START	
Exception Use	Use E2 – Loss of communication with IPMB module	
Cases	E3 – Valid camera video signal not present	
Interfaces		

3.5.4 Views

3.5.4.1 Sequence Diagrams

3.5.4.1.1 REQ-527977/A-Calibration Sequence

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 59 of 65
2023	The information contained in this document is Proprietary to Pord Motor Company.	



between the two features is the initial and ending parameters for $TrIrAidSetup_D2_Rq$. If the signal starts with 0, it shall end with 0, if it starts with 1, it shall end with 1. Basically, if a feature starts the sequence, it shall be that feature ending the sequence otherwise client can cause issues on server side.

Subsystem Part Specific Specification Engineering Specification

3.6 TRS-FUN-REQ-470735/A-Validation

Requirements

3.6.1.1 TRS-REQ-470736/A-Validated Status

Upon receiving the signal LTrlrValid , the client shall display active trailer ID with the appropriate validated status.

If active trailer ID does not match to the Parameter value provided by LTrIrValid, the client shall ignore the data provided by LTrlrValid and not do any validation notification action.

	NGS SPSS v1.8 Jul 6, 023 The	FORD MOTOR COMPANY CONFIDENTIAL e information contained in this document is Proprietary to Ford Motor Company.	Page 60 of 65
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Ford Motor Company

3.7 TRS-FUN-REQ-575387/A-Tow Haul

3.7.1 Trailer Tow

3.7.1.1 Requirements

3.7.1.1.1 TRS-REQ-575177/A-Trailer Profile Additional Elements

Each trailer profile will have two more additional elements associated with trailer names, mileage etc. The two elements will be, Drive Mode and Toggle State.

3.7.1.1.2 TRS-REQ-575178/A-Default State

Default states for new trailers shall be Tow Haul activation toggle is enabled and drive mode shall be Tow /Haul.

3.7.1.1.3 TRS-REQ-575179/A-Tow Haul activation trigger logic.

If Trailer Profile has Tow/Haul toggle = enabled, Client shall send LSdmRqDis signal = SelDrvMde07 (0x6) for Tow/Haul to SDM Main Arbitration.

The client shall let the user change the drive mode independently from SDM feature (if available).

3.7.1.1.4 TRS-REQ-575180/A-Changing Drive Mode through Active Trailer Profile

When a Trailer Profile becomes active due to user selection through HMI, Client shall check if Tow/Haul toggle is enabled for that Trailer ID and execute Tow/Haul activation trigger logic.

3.7.1.1.5 TRS-REQ-575197/A-Active Trailer Profile Deletion with linked SDM Tow/Haul

If the Active trailer profile used to trigger Tow/Haul activation logic is deleted, Client shall send LSdmRqDis signal = SelDrvMde01 (0x0) for Normal to SDM Main Arbitration.

3.7.1.1.6 TRS-REQ-575198/A-Active Trailer Profile with linked SDM Tow/Haul transition to No Active Trailer

If the Active trailer profile used to trigger Tow/Haul activation logic changes to No Active, Client shall send LSdmRqDis signal = SelDrvMde01 (0x0) for Normal to SDM Main Arbitration.

3.7.1.1.7 TRS-REQ-575199/A-Disabling Tow/Haul toggle of an Active Trailer Profile

When an Active trailer profile with Tow/Haul toggle = enabled transitions to Tow/Haul toggle = disabled, Client shall send LSdmRqDis signal = SelDrvMde01 (0x0) for Normal to SDM Main Arbitration.

3.7.1.1.8 TRS-REQ-575200/A-Enabling Tow/Haul toggle of an Active Trailer Profile

When an Active trailer profile with Tow/Haul toggle = disabled transitions to Tow/Haul toggle = enabled, Client shall send LSdmRqDis signal = SelDrvMde07 (0x6) for Tow/Haul to SDM Main Arbitration.

3.7.1.1.9 TRS-REQ-575201/A-At ignition cycle, while a trailer is selected as Active with Tow/Haul toggle enabled

At Ignition Cycle, when selecting to remain with Last_Active_Trailer_ID as the Active Trailer Profile through HMI, if user confirms to set Last_Active_Trailer_ID as the Active Trailer Profile and has Tow/Haul toggle = enabled, then Client shall send LSdmRqDis signal = SelDrvMde07 (0x6) for Tow/Haul to SDM Main Arbitration.

Note: At ignition cycle, If Last_Active_Trailer_ID remains active and a Trailer was connected (Per TRS-REQ-324861) at the end of the previous ignition cycle, Client shall not send any request to the SDM server.

3.7.1.1.10 TRS-REQ-575224/A-Configuration Value

Tow Haul Setting for Trailer Profiles shall be enabled through configuration value. Refer to diagnostics spec for appropriate DID value.

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 61 of 65
2023	The information contained in this document is Proprietary to Ford Motor Company.	



Ford Motor Company

Subsystem Part Specific Specification Engineering Specification

3.7.1.2 Usecases

3.7.1.2.1 TRS-UC-REQ-575217/A-Changing Drive Mode through Active Trailer Profile

Actors	User
Pre-conditions Ignition is On.	
	Vehicle speed is below 5mph.
	Trailer connection is irrelevant.
	Vehicle drive mode is different form Tow/Haul.
	Trailer Profile "A" has Tow Haul toggle drive mode enabled.
Scenario	Driver selects Trailer profile "A" as active.
Description	
Post-conditions	Vehicle Drive Mode changes to Tow/Haul.
List of Exception	Drive Mode is already in Tow Haul.
Use Cases	
Interfaces	Client HMI

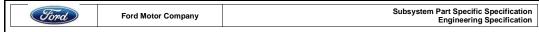
3.7.1.2.2 TRS-UC-REQ-575218/A-Changing Drive Mode impact to Active Trailer Profile

	T.,
Actors	User
Pre-conditions	Ignition is On.
	Vehicle drive mode is Tow Haul.
	Trailer Profile "A" has Tow Haul toggle drive mode enabled.
	Trailer Profile "A" is selected as active.
Scenario	User changes the Drive Mode.
Description	
Post-conditions	Vehicle Drive Mode changes to the newly selected Drive Mode.
	Trailer Profile "A" remains active.
List of Exception	
Use Cases	
Interfaces	Client HMI.

3.7.1.2.3 TRS-UC-REQ-575219/A-Active Trailer Profile Deletion with linked SDM Tow/Haul

Actors	User
Pre-conditions	Ignition is on.
	Vehicle speed below 5mph.
	Trailer Connection may or may not be present.
	Vehicle Drive Mode is Tow/Haul.
	Trailer Profile "A" has Tow Haul toggle drive mode enabled.
	Trailer Profile "A" is selected as active.
Scenario	The driver deletes Trailer Profile "A".
Description	
Post-conditions	Vehicle Drive Mode changes to Normal.
List of Exception	
Use Cases	
Interfaces	Client HMI

FILE: TRAILER SETTINGS SPSS v1.8 Jul 6, 2023	FORD MOTOR COMPANY CONFIDENTIAL The information contained in this document is Proprietary to Ford Motor Company.	Page 62 of 65
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3.7.1.2.4 TRS-UC-REQ-575220/A-Disabling Tow/Haul toggle of an Active Trailer Profile

Actors	User
Pre-conditions	Ignition is on. Vehicle speed below 5mph.
	Vehicle Drive Mode is Tow/Haul.
	Trailer Profile "A" has Tow Haul toggle drive mode enabled.
	Trailer Profile "A" is selected as active.
Scenario	The driver disables Tow/Haul toggle for Trailer Profile "A".
Description	
Post-conditions	Vehicle Drive Mode changes to Normal.
List of Exception	
Use Cases	
Interfaces	Client HMI

3.7.1.2.5 TRS-UC-REQ-575221/A-Enabling Tow/Haul toggle of an Active Trailer Profile

Actors	User
Pre-conditions	Ignition is on.
	Vehicle speed below 5mph.
	Trailer Profile "A" has Tow Haul toggle drive mode disabled.
	Trailer Profile "A" is selected as active.
Scenario	The driver enables Tow/Haul toggle for Trailer Profile "A"
Description	
Post-conditions	Vehicle Drive Mode changes to Tow/Haul.
List of Exception	
Use Cases	
Interfaces	Client HMI

3.7.1.2.6 TRS-UC-REQ-575222/A-At ignition cycle, while a trailer is selected as Active with Tow/Haul toggle enabled with no Connection at the previous ignitio

Actors	User
Pre-conditions	Ignition is off.
	No Trailer Connection status was detected at the previous ignition cycle
	Trailer Profile "A" has Tow Haul toggle drive mode enabled.
	Trailer Profile "A" was selected as active in the previous ignition cycle.
Scenario	The driver turns on the vehicle with Trailer Connection and selects to remain with Trailer Profile "A"
Description	as active.
Post-conditions	Vehicle Drive Mode changes to Tow/Haul.
List of Exception	
Use Cases	
Interfaces	Client HMI

П	FILE: TRAILER SETTINGS SPSS v1.8 Jul 6,	FORD MOTOR COMPANY CONFIDENTIAL	Page 63 of 65
	2023	The information contained in this document is Proprietary to Ford Motor Company.	1 190 00 01 00



3.7.1.2.7 TRS-UC-REQ-575223/A-At ignition cycle, while a trailer is selected as Active with Tow/Haul toggle enabled with Connection at the previous ignitions

Actors	User
Pre-conditions Ignition is off.	
	Trailer Connection status was detected at the previous ignition cycle
	Trailer Profile "A" has Tow Haul toggle drive mode enabled.
	Trailer Profile "A" was selected as active in the previous ignition cycle.
Scenario	The driver turns on the vehicle with Trailer Connection. No popup message requesting to select an
Description	Active Trailer.
Post-conditions	Mode Reminder message is displayed, and user selects to remain in previous Drive Mode.
List of Exception	
Use Cases	
Interfaces	Client HMI



Ford Motor Company

Subsystem Part Specific Specification Engineering Specification

4 Appendix: Reference Documents

Reference #	Document Title
1	Transport Protocol APIM SPSS v1.19 and later.
2	Feature Based Messaging Protocol APIM SPSS v 1.3 and later
3	SYNC4_TBA_Trailer_Measurements v1.0 and later.
4	SYNC4_TBA2_HmiStatus_Coding v1.0 and later.
5	Ford Telematics Communication Protocol Specification
6	Protofile for FTCP messages/definitions
7	SyncP V1 protocol and S13b Service
8	Exceptions for UTE usecases are mentioned on
	https://www.eesewiki.ford.com/display/sync/Ultimate+Towing+Experience+-
	+SYNC+HLD