



# Research & Vehicle Technology "Infotainment Systems Product Development"

# Feature: Settings in the Infotainment Centerstack Module (Global)

# Subsystem Part Specific Specification (SPSS)

Version: v1.24
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Version Date: October 7, 2021

FORD CONFIDENTIAL



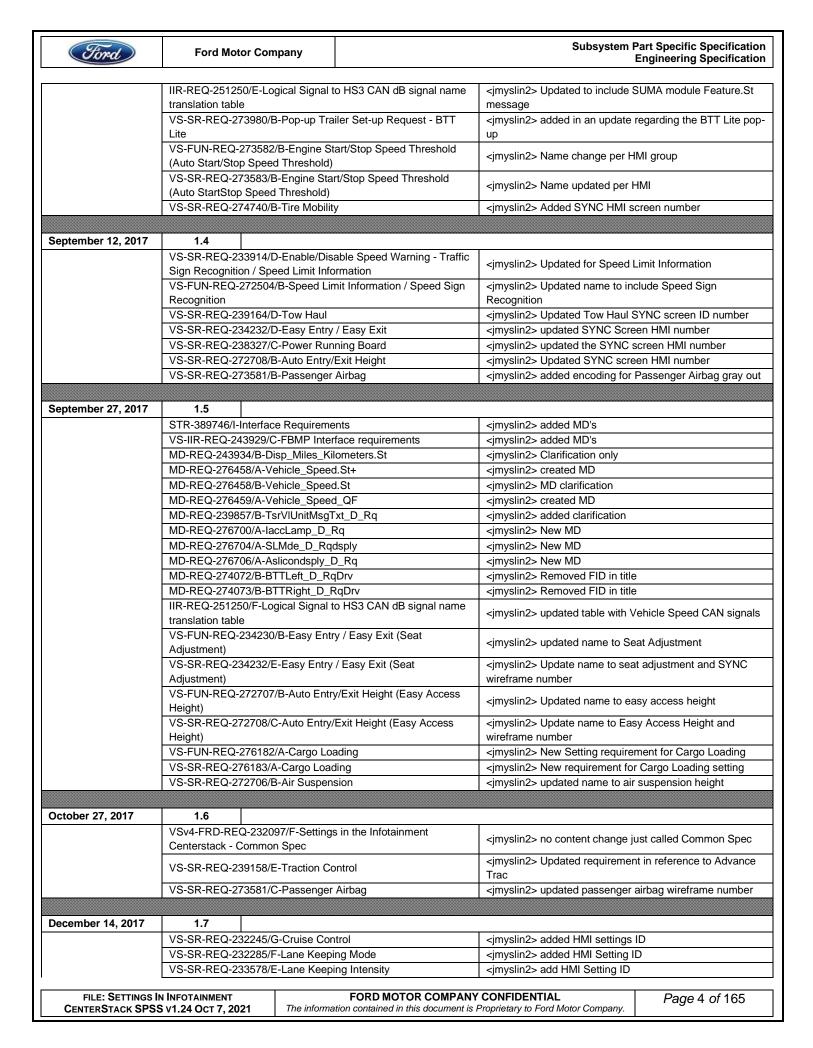
CENTERSTACK SPSS v1.24 Oct 7, 2021

# **Revision History**

Date	Version		Notes
Jan 23rd, 2017	0.1	Initial Draft Release	
March 6th, 2017	0.2		insualin O added traffic sing recognition singular conditions
	IIR-REQ-25125 translation table	0/B-Logical Signal to HS3 CAN dB signal name	<jmyslin2> added traffic sign recognition signals used to not allow the user to select the traffic sign recognition HM settings</jmyslin2>
		82098/J-Feature Based Message Protocol usage the Infotainment Centerstack Display Module	<jmyslin2> Added clarifications in track changes for wha to do in the HMI if a Settings Feature Server is not responding to a query or set command</jmyslin2>
		32237/F-FBMP Feature.St received from any Settings Server module	<jmyslin2> Clarified requirement that Centerstack HMI Client receives the Feature.St even if not for a Set or Query operation</jmyslin2>
	VS-SR-REQ-25 not user selecta	51193/A-Traffic Sign Recognition Settings HMI able	<jmyslin2> New requirement. This requirement specifies when the Traffic Sign Recognition settings are not user selectable</jmyslin2>
March 28th, 2017	0.3		
	IIR-REQ-25125 translation table	:0/C-Logical Signal to HS3 CAN dB signal name	<jmyslin2> Updated requirement to remove HMIAudioMode since Queries will now only be done for Settings in the Centerstack after Ignition_Status changes to Run</jmyslin2>
		32098/K-Feature Based Message Protocol usage he Infotainment Centerstack Display Module	<jmyslin2> Updated requirement to clarify for a crank events.</jmyslin2>
	VS-SR-REQ-23	34428/E-General Settings at Start-up	<jmyslin2> Updated General Settings queary at start-up that it is only done after Ingnition_Status changes to Rur</jmyslin2>
April 5th, 2017	0.4		
		32098/L-Feature Based Message Protocol usage the Infotainment Centerstack Display Module	<jmyslin2> Updated so that reference most recent Feature Based Message Protocol which is needed to go along withis Settings in the Centerstack spec</jmyslin2>
		2-238230/F-Enhanced Memory - Active file change using Feature Based Message	<jmyslin2> spec clarication (no content change)</jmyslin2>
		32245/F-Cruise Control	<jmyslin2> fixed a typo</jmyslin2>
	VS-SR-REQ-25 Settings	9080/A-HMI Activation during Run - General	<jmyslin2> New requirement</jmyslin2>
	VS-SR-REQ-23	34316/D-Duration - Remote Start	<jmyslin2> Updated requirement to say for the Active Remote Start (enabled/disable) HMI the OFF/Disable settings uses the 10 minutes as the setting for OFF</jmyslin2>
May 8, 2017	1.0	Initial Release	
	Sign Recognition		<pre><jmyslin2> Added Clarification for the TsrVIUnitMsgTxt_D_Rq signals usage</jmyslin2></pre>
	VS-SR-REQ-23 Traffic Sign Rec	33867/G-Greater than Warning Threshold - cognition	<pre><jmyslin2> Added Clarification for the TsrVIUnitMsgTxt_D_Rq signals usage</jmyslin2></pre>
June 1, 2017	1.0.1		
		32098/M-Feature Based Message Protocol ags in the Infotainment Centerstack Display	<jmyslin2> removed HMI error handling for Query request and deferred to the HMI specification</jmyslin2>
		2439/B-EV+ Mode	<pre><jmyslin2> EV+ Mode setting is deleted</jmyslin2></pre>
	VS-SR-REQ-26	37623/A-Heater Programming - Park Heater	<jmyslin2> New Requirement</jmyslin2>



ugust 9, 2017	1.1			
		/A-Lane Keeping Aid	<jmyslin2> New Requirement for Lane Keeping Aid</jmyslin2>	
		/A-Lane Keeping Alert	<jmyslin2> New Requirement for Lane Keeping Alert</jmyslin2>	
	VS-FUN-REQ-23380	9/B-Traffic Sign Recognition	<jmyslin2> Updated for Speed Limit Information</jmyslin2>	
		/D-Enable/Disable (Traffic Sign Limit Information) Feature	<jmyslin2> Updated requirement to include Speed Limit Information</jmyslin2>	
	VS-SR-REQ-233862	/H-Less Than Warning Threshold - (Traffic peed Limit Information)	<jmyslin2> Updated for Speed Limit Information</jmyslin2>	
	VS-SR-REQ-251193	/B-Traffic Sign Recognition Settings /	<jmyslin2> Updated to include Speed Limit Information</jmyslin2>	
		ion HMI not user selectable		
		04/A-Speed Limit Information /D-Enable/Disable (Traffic Sign	<jmyslin2> Added Speed Limit Information Function <jmyslin2> Updated requirement to include Speed Limit</jmyslin2></jmyslin2>	
		Limit Information) Feature	Information	
	VS-SR-REQ-239164		<jmyslin2> Updated Tow Haul setting encodings to mat the new encodings provided by the HMI team</jmyslin2>	
	VS-FUN-REQ-27233	32/A-Grade Assist	<jmyslin2> New Grade Assist function</jmyslin2>	
	VS-SR-REQ-272333		<pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	
	VS-SR-REQ-234061		<jmyslin2> New Negalierinint Oracle Assist <jmyslin2> Added note about possible HMI name</jmyslin2></jmyslin2>	
		/C-Auto Engine OTT /C-Auto Highbeam / Adaptive Drivebeam	<jmyslin2> Added note about possible Five Harrie <jmyslin2> Updated to include Adative Highbeam</jmyslin2></jmyslin2>	
		/A-Predictive Lighting	<jmyslin2> Updated to include Adative Highbeam <jmyslin2> New Settings for Predictive Lighting</jmyslin2></jmyslin2>	
	VS-SR-REQ-272030 VS-SR-REQ-272687			
			<jmyslin2> New global unlock setting</jmyslin2>	
	VS-SR-REQ-272694		<jmyslin2> New Intelligent Access locking setting</jmyslin2>	
	VS-FUN-REQ-27270	· · · · · · · · · · · · · · · · · · ·	<jmyslin2> New Setting requirement for Air Suspension</jmyslin2>	
	VS-SR-REQ-272706	/A-Air Suspension	<jmyslin2> New requirement for Air Suspension</jmyslin2>	
	VS-FUN-REQ-27270	07/A-Auto Entry/Exit Height	<pre><jmyslin2> New Setting requirement for Auto Entry/Exit Height</jmyslin2></pre>	
	VS-SR-REQ-272708	/A-Auto Entry/Exit Height	<jmyslin2> New requirement for Auto Entry/Exit Height</jmyslin2>	
ugust 25, 2017	1.2			
		20=/= 0 ::: 1 :: 1 :: 1 :: 1		
	\/\$\/\_EPD_PEO_232	100 //E-Sattings in the Intotainment		
		2097/E-Settings in the Infotainment	<jmyslin2> changed name to settings in the centerstack</jmyslin2>	
	Centerstack (Global	- CGEA)		
	Centerstack (Global IIR-REQ-251250/D-L	_	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and</jmyslin2></pre>	
	Centerstack (Global IIR-REQ-251250/D-L translation table	- CGEA) .ogical Signal to HS3 CAN dB signal name	<pre></pre> <pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><pre></pre><p< td=""></p<></pre>	
	Centerstack (Global IIR-REQ-251250/D-L translation table	- CGEA)	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's</jmyslin2></jmyslin2></pre>	
	Centerstack (Global IIR-REQ-251250/D-L translation table	- CGEA) Logical Signal to HS3 CAN dB signal name /B-FBMP Interface requirements	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's <jmyslin2> Per HMI team changed name from Rear Parl Aid to Park Aid</jmyslin2></jmyslin2></jmyslin2></pre>	
	Centerstack (Global IIR-REQ-251250/D-L translation table VS-IIR-REQ-243929	- CGEA) Logical Signal to HS3 CAN dB signal name /B-FBMP Interface requirements	BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's  <jmyslin2> Per HMI team changed name from Rear Parl Aid to Park Aid</jmyslin2></jmyslin2>	
	Centerstack (Global IIR-REQ-251250/D-L translation table VS-IIR-REQ-243929 VS-FUN-REQ-23402 VS-SR-REQ-234031	- CGEA) Logical Signal to HS3 CAN dB signal name /B-FBMP Interface requirements	<jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's <jmyslin2> Per HMI team changed name from Rear Parl Aid to Park Aid <jmyslin2> Per HMI changed name from Rear Park Aid to Park Aid</jmyslin2></jmyslin2></jmyslin2></jmyslin2>	
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	Centerstack (Global IIR-REQ-251250/D-L translation table VS-IIR-REQ-243929/ VS-FUN-REQ-23402 VS-SR-REQ-234031 VS-FUN-REQ-27358 VS-SR-REQ-273590	- CGEA) Logical Signal to HS3 CAN dB signal name /B-FBMP Interface requirements /B-Park Aid /D-Park Aid /B-Park Aid /B-Park Aid /B-Park Aid /B-Park Aid /B-Park Aid	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's <jmyslin2> Per HMI team changed name from Rear Parl Aid to Park Aid <jmyslin2> Per HMI changed name from Rear Park Aid Park Aid <jmyslin2> Need Function added for BTT Lite</jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></pre>	
	Centerstack (Global IIR-REQ-251250/D-L translation table VS-IIR-REQ-243929/ VS-FUN-REQ-23402  VS-SR-REQ-234031  VS-FUN-REQ-273580 VS-SR-REQ-273689	- CGEA) Logical Signal to HS3 CAN dB signal name  /B-FBMP Interface requirements  29/B-Park Aid  /D-Park Aid  39/A-BTT Light (Blind Spot Trailer Tow)  //A-Active Trailer Setting - BTT Lite	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's <jmyslin2> Per HMI team changed name from Rear Parl Aid to Park Aid <jmyslin2> Per HMI changed name from Rear Park Aid Park Aid <jmyslin2> Need Function added for BTT Lite <jmyslin2> New requirement for new BTT Lite setting</jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></pre>	
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	Centerstack (Global IIR-REQ-251250/D-L translation table VS-IIR-REQ-243929, VS-FUN-REQ-234021 VS-SR-REQ-234031 VS-FUN-REQ-273580 VS-SR-REQ-273580 VS-SR-REQ-273980 Lite VS-FUN-REQ-234061 VS-SR-REQ-234339 VS-FUN-REQ-273581 VS-SR-REQ-273581 VS-FUN-REQ-273581	- CGEA) Logical Signal to HS3 CAN dB signal name  /B-FBMP Interface requirements  /B-FBMP Interface requirements  /B-Park Aid  /D-Park Aid  /D-Park Aid  /B-Park Aid  /B-A-BTT Light (Blind Spot Trailer Tow)  /A-Active Trailer Setting - BTT Lite  //A-Pop-up Trailer Set-up Request - BTT  /B-Park Aid  /B-Pa	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's <jmyslin2> Per HMI team changed name from Rear Park Aid to Park Aid <jmyslin2> Per HMI changed name from Rear Park Aid t Park Aid <jmyslin2> Need Function added for BTT Lite <jmyslin2> New requirement for new BTT Lite setting <jmyslin2> Lupdated name per HMI group to 30 min max idle <jmyslin2> Changed name to 30 min max idle from Auto Engine OFF per HMI group <jmyslin2> Updated to add Glare Free <jmyslin2> Need function added for Passenger Airbag <jmyslin2> New requirement for new passenger airbag setting <jmyslin2> Need Function added for Engine Start/Stop Speed Threshold <jmyslin2> New requirement for new engine start/stop</jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></pre>	
	Centerstack (Global IIR-REQ-251250/D-L translation table VS-IIR-REQ-243929, VS-FUN-REQ-234021 VS-SR-REQ-234031 VS-FUN-REQ-273580 VS-SR-REQ-273580 VS-SR-REQ-273980 Lite VS-FUN-REQ-234061 VS-SR-REQ-234339 VS-FUN-REQ-273581 VS-SR-REQ-273581 VS-FUN-REQ-273583	- CGEA) Logical Signal to HS3 CAN dB signal name  /B-FBMP Interface requirements  /B-FBMP Interface requirements  /B-FBMP Interface requirements  /B-FBMP Interface requirements  /B-Park Aid  /B-Park Aid  /B-Park Aid  /B-PART Light (Blind Spot Trailer Tow)  /A-Active Trailer Setting - BTT Lite  //A-Trailer Length - BTT Lite  //A-Pop-up Trailer Set-up Request - BTT  /B-Park Aid  /B	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's <jmyslin2> Per HMI team changed name from Rear Park Aid to Park Aid <jmyslin2> Per HMI changed name from Rear Park Aid t Park Aid <jmyslin2> Need Function added for BTT Lite <jmyslin2> New requirement for new BTT Lite setting <jmyslin2> Updated name per HMI group to 30 min max idle <jmyslin2> changed name to 30 min max idle from Auto Engine OFF per HMI group <jmyslin2> Updated to add Glare Free <jmyslin2> Need function added for Passenger Airbag <jmyslin2> New requirement for new passenger airbag setting <jmyslin2> Need Function added for Engine Start/Stop Speed Threshold <jmyslin2> New requirement for new engine start/stop speed threshold setting</jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></pre>	
	Centerstack (Global IIR-REQ-251250/D-L translation table VS-IIR-REQ-243929, VS-FUN-REQ-234021 VS-SR-REQ-234031 VS-FUN-REQ-273580 VS-SR-REQ-273580 VS-SR-REQ-273980 Lite VS-FUN-REQ-234061 VS-SR-REQ-234339 VS-FUN-REQ-273581 VS-SR-REQ-273581 VS-FUN-REQ-273581	- CGEA) Logical Signal to HS3 CAN dB signal name  /B-FBMP Interface requirements  /B-FBMP Interface requirements  /B-FBMP Interface requirements  /B-FBMP Interface requirements  /B-Park Aid  /B-Park Aid  /B-Park Aid  /B-Park Aid  /B-PA-BTT Light (Blind Spot Trailer Tow)  /A-Active Trailer Setting - BTT Lite  //A-Pop-up Trailer Setting - BTT Lite  //A-Pop-up Trailer Set-up Request - BTT  /B-PA-Pop-up Trailer Set-up Request - BTT  /B-PA-Auto Engine OFF / 30 min max idle  /B-Auto Engine OFF / 30 min max idle  /B-Auto Highbeam / Adaptive Drivebeam  /BO/A-Passenger Airbag  /A-Passenger Airbag  /A-Passenger Start/Stop Speed Threshold  /A-Engine Start/Stop Speed Threshold  /A-Engine Start/Stop Speed Threshold	<jmyslin2> Updated table to add BttLeft_D_RqDrv and BttRight_D_RqDrv for new BTT Lite feature <jmyslin2> Updated to add BTT Lite MD's <jmyslin2> Per HMI team changed name from Rear Park Aid to Park Aid <jmyslin2> Per HMI changed name from Rear Park Aid to Park Aid <jmyslin2> Per HMI changed name from Rear Park Aid to Park Aid <jmyslin2> Need Function added for BTT Lite <jmyslin2> New requirement for new BTT Lite setting <jmyslin2> New requirement for new BTT Lite setting <jmyslin2> New requirement for new BTT Lite setting <jmyslin2> Updated name per HMI group to 30 min max idle <jmyslin2> changed name to 30 min max idle from Auto Engine OFF per HMI group <jmyslin2> Updated to add Glare Free <jmyslin2> Need function added for Passenger Airbag <jmyslin2> New requirement for new passenger airbag setting <jmyslin2> Need Function added for Engine Start/Stop Speed Threshold <jmyslin2> New requirement for new engine start/stop</jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2>	





VS-SR-REQ-233579/E-Lane Keeping Sensitivity	<jmyslin2> updated HMI Setting ID</jmyslin2>
VS-SR-REQ-271525/B-Lane Keeping Aid	<jmyslin2> added HMI Setting ID</jmyslin2>
VS-SR-REQ-271526/B-Lane Keeping Alert	<jmyslin2> added HMI Settings ID</jmyslin2>
VS-SR-REQ-239185/F-Pre-Collision Assist function - Enable / Disable	<jmyslin2> added HMI Setting ID</jmyslin2>
VS-SR-REQ-233575/G-Active Braking - Pre-Collision Assist	<jmyslin2> added FCW Active Braking HMI Setting ID</jmyslin2>
VS-SR-REQ-233577/I-Warning Sensitivity - Pre-Collision Assist	<jmyslin2> Added FCW Alert Sensitivy HMI Setting ID</jmyslin2>
VS-SR-REQ-233812/E-Enable/Disable Traffic Sign Recognition	<jmyslin2> added active traffic sign recognition HMI</jmyslin2>
/ Speed Limit Information Feature	Setting ID
VS-SR-REQ-233914/E-Enable/Disable Speed Warning - Traffic	
Sign Recognition / Speed Limit Information	<jmyslin2> add HMI Setting ID for activate speed warning</jmyslin2>
VS-SR-REQ-233813/D-Enable/Disable Speed Warning Chime -	<jmyslin2> added HMI Setting ID for Over Speed Chime</jmyslin2>
Traffic Sign Recognition	TSR
VS-SR-REQ-233862/I-Less Than Warning Threshold - (Traffic	instalia O. and ded LIMI Cotting ID
Sign Recognition / Speed Limit Information)	<jmyslin2> added HMI Setting ID</jmyslin2>
VS-SR-REQ-233867/I-Greater than Warning Threshold - Traffic	<jmyslin2> added HMI Setting ID for TSR greater than</jmyslin2>
Sign Recognition	warning threshold
VS-SR-REQ-233944/E-Blindspot Detection (vehicle - non-trailer)	<jmyslin2> added HMI Setting ID for blind spot</jmyslin2>
VS-SR-REQ-233948/D-Cross Traffic Alert	<jmyslin2> added HMI Setting ID to Cross Traffic Alert</jmyslin2>
VS-SR-REQ-233951/D-Wrong Way Alert	<jmyslin2> added HMI Setting ID for Wrong Way Alert</jmyslin2>
VS-SR-REQ-234015/D-Driver Alert	<jmyslin2> added HMI Setting ID for Driver Alert Setting</jmyslin2>
VS-SR-REQ-234028/D-Trailer Sway	<pre></pre> <pre></pre> <pre></pre> <pre>preserved</pre> <pre></pre> <pre>for Trailer Sway setting</pre>
VS-SR-REQ-234031/E-Park Aid	<pre></pre> <pre></pre> <pre><pre>myslin2&gt; added HMI Setting ID to Park Aid</pre></pre>
VS-SR-REQ-239158/F-Traction Control	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-239160/C-Hill Decent Control	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234005/D-Hill Start Assist	<jmyslin2> added HMI Setting ID for Hill Start Assist</jmyslin2>
VS-SR-REQ-239164/E-Tow Haul	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-272333/B-Grade Assist	<pre></pre>
VS-SR-REQ-273590/B-Active Trailer Setting - BTT Lite	<pre></pre> <pre></pre> <pre></pre> <pre>preserved</pre> <pre></pre> <pre>In the second of the second of</pre>
VS-SR-REQ-273689/B-Trailer Length - BTT Lite	<pre></pre> <pre></pre> jmyslin2> add HMI Setting ID for BTT Lite Trailer Length
VS-SR-REQ-273583/C-Engine Start/Stop Speed Threshold	
(Auto StartStop Speed Threshold)	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-280535/D-Handling in Drive / Drive Control	<jmyslin2> HMI team changed wireframe numbers so</jmyslin2>
manual transmission / Driver Select Transmission	updated with new number
VS-SR-REQ-281380/B-Handling in Sport - Drive Control	<jmyslin2> update wire frame number since SYNC team changed the numbers</jmyslin2>
VS-SR-REQ-281381/B-Performance in Sport - Drive Control	<jmyslin2> added feature number</jmyslin2>
VS-SR-REQ-280533/B-Steering in Drive / Steering with Manual	<jmyslin2> updated SYNC HMI number since SYNC HMI</jmyslin2>
Transmission - Adaptive Steering	team changed the wireframe number
	<jmyslin2> updated SYNC HMI numbers since SYNC HMI</jmyslin2>
VS-SR-REQ-280548/B-Steering in Sport - Adaptive Steering	team changed the number
VS-SR-REQ-280549/B-Adaptive Steering	<jmyslin2> updated SYNC HMI numbers since HMI team</jmyslin2>
V3-3R-REQ-200349/b-Adaptive Steering	changed their numbers
VS-SR-REQ-234035/E-Tire Pressure Unit	<jmyslin2> added HMI setting ID</jmyslin2>
VS-SR-REQ-234039/J-Measure Units	<jmyslin2> added HMI setttings ID</jmyslin2>
VS-SR-REQ-234061/F-Auto Engine OFF / 30 min max idle	<jmyslin2> added HMI Setting ID for 30 min max idle</jmyslin2>
VS-SR-REQ-234235/D-Park Lock Control	<jmyslin2> added HMI Setting ID</jmyslin2>
VS-SR-REQ-234238/D-Silent Mode	<jmyslin2> add HMI Setting ID</jmyslin2>
VS-SR-REQ-234285/D-Ask on Exit - Alarm	<pre><jmyslin2> add HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234286/C-Sensor Set - Alarm	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234289/C-Park Slot - Chimes	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234290/C-Information - Chimes	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234312/G-Climate Control (Heater / AC) - Remote	simuolin?s added HMI Cotting ID
Start	<jmyslin2> added HMI Setting ID</jmyslin2>
VS-SR-REQ-234313/G-Seats and Steering Wheel - Remote	simuslin2> added HMI Setting ID
Start	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234316/E-Duration - Remote Start	<jmyslin2> added HMI Settings ID</jmyslin2>
VS-SR-REQ-234319/C-Global Window Open	<jmyslin2> added HMI Setting ID</jmyslin2>
VS-SR-REQ-234320/C-Global Window Close	<jmyslin2> added HMI Setting ID</jmyslin2>



	VS-SR-REQ-234331/C-Courtesy Wiper	<jmyslin2> added HMI Setting ID</jmyslin2>		
	VS-SR-REQ-234332/C-Rain Sensing Wipers	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234333/C-Reverse Wipers	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234336/C-Power Liftgate	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234339/E-Auto Highbeam / Adaptive Drivebeam /	SITTY SITTE 2 added 1 IIVII Settling 12		
	Glare Free	<jmyslin2> added HMI Setting ID</jmyslin2>		
	VS-SR-REQ-234340/C-Daytime Running Lights	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234341/C-Welcome Lighting	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234342/C-Adaptive Headlights	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234343/C-Adaptive Headlight Set-Up	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234344/C-Autolamp Delay	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234347/C-AutoLock	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234348/C-AutoUnlock	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234349/C-Mislock	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234351/D-Lock Trim Switch Inhibit	<pre><jmyslin2> HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234353/C-Audible Locking Feedback	<pre><jmyslin2> added HMI Setting iD</jmyslin2></pre>		
	VS-SR-REQ-234354/C-Exterior Lights Feedback - Locking	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234357/D-Remote Unlock	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-272694/B-Intelligent Access	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234360/C-Auto Fold Mirrors	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234361/C-Reverse Tilt Mirrors	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234364/D-Continue Heat - Park Heater	<pre><jmyslin2> add HMI setting ID</jmyslin2></pre>		
	VS-SR-REQ-267623/B-Heater Programming - Park Heater	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234378/E-Programming Single Time - Park Heater			
	VS-SR-REQ-234393/F-Programming Time 1 - Park Heater	<pre><jmyslin2> added HMI setting ID's</jmyslin2></pre>		
	VS-SR-REQ-234394/E-Programming Time 2 - Park Heater	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-262500/B-Aux Heater	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-273581/D-Passenger Airbag	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-274740/C-Tire Mobility	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-238327/D-Power Running Board	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>		
	VS-SR-REQ-234232/F-Easy Entry / Easy Exit (Seat			
	Adjustment)	<jmyslin2> added HMI Setting ID for seat adjustment</jmyslin2>		
	VS-SR-REQ-272708/D-Auto Entry/Exit Height (Easy Access	investin O. and ded LIMI antiting ID		
	Height)	<pre><jmyslin2> added HMI setting ID</jmyslin2></pre>		
	VS-SR-REQ-272706/C-Air Suspension	<jmyslin2> added HMI Setting ID</jmyslin2>		
	VS-SR-REQ-279098/B-Gauge Color / Primary Color - MyColor	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-279099/B-Halo Color / Secondary Color - MyColor	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-280522/B-Color Wheel 1 - MyColor	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-280523/B-Color Wheel 2 - MyColor	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-280524/B-Color Wheel 3 - MyColor	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-279104/B-Ambient Lighting - MyColor	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-280525/B-Ambient Color - MyColor	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-280526/B-Ambient Dim - MyColor	<jmyslin2> add feature number</jmyslin2>		
	VS-SR-REQ-280528/B-Power Decklid / Liftgate	<jmyslin2> updated SYNC HMI wireframe ID per change</jmyslin2>		
	<u> </u>	by HMI team		
	VS-SR-REQ-280538/B-Auto Regen	<jmyslin2> Added feature number</jmyslin2>		
	VS-SR-REQ-280679/B-Quiet Start - Exhaust Mode	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-280683/B-Set Quiet Time - Exhaust Mode	<jmyslin2> added feature number</jmyslin2>		
	VS-SR-REQ-280685/B-Rev Match (Engine Revolution Match)	<jmyslin2> added Rev Match feature number</jmyslin2>		
April 25, 2018	1.8			
		<jmyslin2> Added VDM to list of FBMP messages that the</jmyslin2>		
	IIR-REQ-251250/G-Logical Signal to HS3 CAN dB signal name	centerstack will need to support		
	translation table	ALL LOOM STATE OF THE STATE OF		
		Added CCM to list of FBMP messages that centerstack will		
		need to support (for FCW settings)		
May 47, 2040	40			
May 17, 2018	1.9			
	IIR-REQ-251250/H-Logical Signal to HS3 CAN dB signal name	<jmyslin2> added what CCM module stood for. No content</jmyslin2>		
	translation table+	change		
FILE: SETTINGS IN CENTERSTACK SPSS		1 ago o o 1100		
GENTERSTACK SPSS	THE INFORMATION CONTAINED IN THIS GOLDMENT IS	Tropholary to Ford Motor Company.		

Ford	Ford Motor Company			Part Specific Specification Engineering Specification
	IIR-REQ-251250/I-Logical Signal to HS3 CAN dB signal name translation table		<pre><jmyslin2> added logical to phy module</jmyslin2></pre>	rsical mapping for the DDM
	VS-SR-REQ-280670/B-Effort - Trai	iler Brake	<jmyslin2> corrected feature nu already on Trailer Brake Mode</jmyslin2>	umber from E10 to E11 (E10
June 13, 2018	1.10			
	VS-SR-REQ-234031/F-Park Aid (n	ot long term)	<jmyslin2> udpated with a clarif change so no software change</jmyslin2>	fication note. No content
August 28, 2018	1.11			
	VS-SR-REQ-232098/O-Feature Based Message Protocol usage for Settings in the Infotainment Centerstack Display Module		<pre><jmyslin2> updated comments settings selections at start-up if server</jmyslin2></pre>	_
	VS-SR-REQ-232237/G-FBMP Fea FBMP Feature Settings Server mod		<jmyslin2> No content change</jmyslin2>	
	VS-SR-REQ-312391/A-Long Term VS-SR-REQ-273689/C-Trailer Len		<jmyslin2> New Requirement for jmyslin2: Updated with an exame rounded to metric value for trail</jmyslin2>	nple an imperial value being
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Update Trailer Length encoding	
	VS-SR-REQ-234428/F-General Se VS-SR-REQ-234336/D-Power Liftg		jmyslin2 - no content change. C jmyslin2: No content change. D Power Decklid / Liftgate	
	VS-SR-REQ-280528/C-Power Dec		jmyslin2: added 201 for HMI Se	
October 4, 2018	VS-SR-REQ-298602/A-Handsfree	Lingate	<jmyslin2> New Requirement for the control of th</jmyslin2>	or Handstree Littgate
October 4, 2016	MD-REQ-274072/C-BTTLeft_D_Ro MD-REQ-274073/C-BTTRight_D_F		<pre><jmyslin2> No change, ignore t <jmyslin2> No change, ignore t</jmyslin2></jmyslin2></pre>	
	VS-SR-REQ-273980/C-Pop-up Tra	iler Set-up Request - BTT	<pre><jmyslin2> updated requiremen to close the BTT Lite pop-up</jmyslin2></pre>	-
	VS-SR-REQ-238327/E-Power Running Board		<jmyslin2> deleted power runni the Centerstack SPSS. Now do specification without using feature.</jmyslin2>	efined in a separate feature
0.11.44.0040				
October 11, 2018	1.13  VS-SR-REQ-331385/A-Single Tole	erance Warning Threshold -	<jmyslin2> New requirement fo</jmyslin2>	r single tolerance HMI for
	Traffic Sign Recognition / Speed Li	mit Information	Traffic Sign Recognition and Sp	peed Limit Information
	VS-SR-REQ-331385/A-Single Tole Traffic Sign Recognition / Speed Li	•	<jmyslin2> New requirement fo Traffic Sign Recognition and Sp</jmyslin2>	
	VS-SR-REQ-273689/D-Trailer Len	gth - BTT Lite	<jmyslin2> made a note regard if HMI call it out. Clarification or</jmyslin2>	
December 4, 2018	1.14		THE TANK COLL CHARMON CO.	my, no content orange
	IIR-REQ-251250/J-Logical Signal to translation table	o HS3 CAN dB signal name	<pre><jmyslin2> added TjaMsgTxt_D assist</jmyslin2></pre>	D_Rq signal for highway
	VS-SR-REQ-232098/P-Feature Ba	•	<jmyslin2> added additional ref</jmyslin2>	
	for Settings in the Infotainment Cer STR-389748/D-Functional Definition		out querying the active menu first. No content change <pre><pre><jmyslin2> Added additional settings section</jmyslin2></pre></pre>	
	VS-SR-REQ-232245/H-Cruise Control		<jmyslin2> No content change. this requirement and created a it.</jmyslin2>	
	VS-SR-REQ-333002/A-Tolerance -	- Cruise Control	<jmyslin2> roke out tolerance fr separate requirement. Added r</jmyslin2>	new HMI settings ID
	VS-SR-REQ-232284/H-Speed Lim	iter - Manual / Intelligent	<pre><jmyslin2> No content change. this requirement</jmyslin2></pre>	
	VS-SR-REQ-332970/A-Speed Limit Tolerance	· ·	<jmyslin2> No content change. from a combined requirement in</jmyslin2>	
	VS-SR-REQ-233914/F-Enable/Disa Sign Recognition / Speed Limit Info	-	<jmyslin2> No Change ignore r</jmyslin2>	evision bump
FILE: SETTINGS IN CENTERSTACK SPSS		FORD MOTOR COMPANY ation contained in this document is F		Page 7 of 165

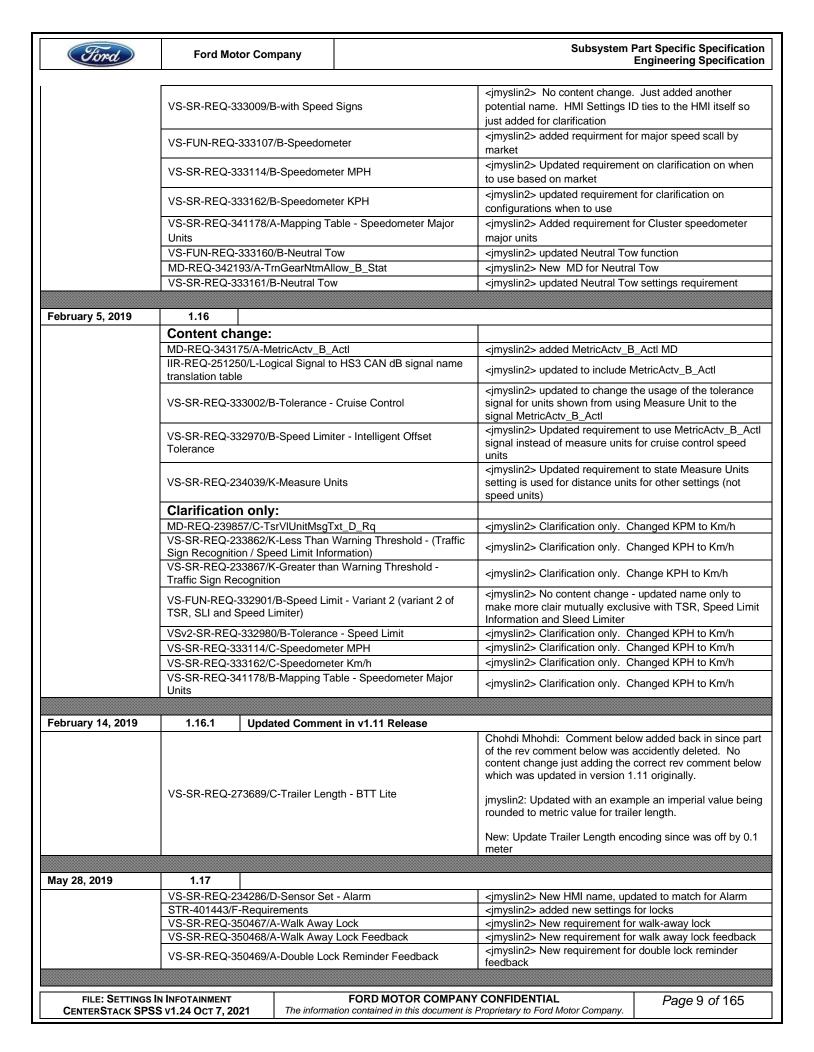




VS-SR-REQ-233862/J-Less Than Warning Threshold - (Traffic	<jmyslin2> Updated to include when Null or NoDataExists</jmyslin2>
Sign Recognition / Speed Limit Information)	is selected
VS-SR-REQ-233867/J-Greater than Warning Threshold - Traffic	<jmyslin2> updated to reference what to do when Null or</jmyslin2>
Sign Recognition	NoDataExists is selected
VS-SR-REQ-273980/D-Pop-up Trailer Set-up Request - BTT	<jmyslin2> updated requirement so BTT Lite pop-up jumps</jmyslin2>
Lite	ahead and queries the BTT Lite feature numbers before
Lite	showing the pop-up
VS-SR-REQ-272030/B-Predictive Lighting	<jmyslin2> added a clarification to clarify a SYNC HMI rule.</jmyslin2>
V3-31\-\\EQ-212030/B-1 Tedictive Lighting	No content change
	<jmyslin2> Since HMI is changing from the lead program</jmyslin2>
STR-598209/A-Additional Settings - FBMP based settings	for Settings in the Centerstack putting new settings under
	this heading
VS-SR-REQ-333163/A-Settings Start-Up	<jmyslin2> New requirement for additional settings</jmyslin2>
VS-SR-REQ-333164/A-HMI Activation during Run	<jmyslin2> New requirement for HMI settings</jmyslin2>
VS-FUN-REQ-332901/A-Speed Limit	<jmyslin2> New Speed Limit function - replaces TSR and</jmyslin2>
	Speed Limiter
VSv2-SR-REQ-332978/A-Limiter with Speed Signs - Speed	<pre><jmyslin2> New Limiter with Speed Signs</jmyslin2></pre>
Limit	, ,
VSv2-SR-REQ-332979/A-Speed Sign Warning - Speed Limit	<jmyslin2> updated to add Speed Warning Sign label</jmyslin2>
VSv2-SR-REQ-332980/A-Tolerance - Speed Limit	<jmyslin2> updated for Speed Limit single tolerance</jmyslin2>
VSv2-FUN-REQ-332984/A-Cruise Control - Variant 2	<jmyslin2> New Cruise Control vairant 2</jmyslin2>
VSv2-SR-REQ-333001/A-Cruise Control - Variant 2	<jmyslin2> New Cruise Control variant 2 requirement</jmyslin2>
VS-SR-REQ-333005/A-with Lane Centering	<jmyslin2> New with Lane Centering setting</jmyslin2>
VS-SR-REQ-333008/A-with Smart Offerings	<jmyslin2> New with Smart Offerings setting</jmyslin2>
VS-SR-REQ-333009/A-with Speed Signs	<jmyslin2> New with Smart Signs setting</jmyslin2>
VS-FUN-REQ-333131/A-Tire Pressure Reset / Tire Monitor	<jmyslin2> New Tire Monitor function</jmyslin2>
VS-SR-REQ-333089/A-Tire Pressure Reset / Tire Monitor	<jmyslin2> New requirement for Tire Monitor</jmyslin2>
VS-FUN-REQ-333128/A-Border Crossing	<jmyslin2> New Border Crossing function</jmyslin2>
VS-SR-REQ-333100/A-Border Crossing	<jmyslin2> New requirement for Border Crossing</jmyslin2>
VS-FUN-REQ-333136/A-Ecocoach	<jmyslin2> New Ecocoach settings function</jmyslin2>
VS-SR-REQ-333154/A-Ecocoach	<jmyslin2> New requirement for Ecocoach setting</jmyslin2>
VS-SR-REQ-333155/A-Eco Advices	<jmyslin2> New requirement for Eco Advices</jmyslin2>
VS-SR-REQ-333156/A-Coasting Support	<jmyslin2> New requirement for Coasting Support</jmyslin2>
VS-FUN-REQ-333107/A-Speedometer	<jmyslin2> New Speedometer function</jmyslin2>
VS-SR-REQ-333114/A-Speedometer MPH	<jmyslin2> New requirement for Speedometer MPH setting</jmyslin2>
VS-SR-REQ-333162/A-Speedometer KPH	<jmyslin2> New requirement for Speedometer KPH setting</jmyslin2>
VS-FUN-REQ-333158/A-Brake Coach	<jmyslin2> New requirement for Brake Coach Function</jmyslin2>
VS-SR-REQ-333159/A-Brake Coach	<jmyslin2> New requirement for Brake Coach setting</jmyslin2>
VS-FUN-REQ-333160/A-Neutral Tow	<jmyslin2> New Neutral Tow Function</jmyslin2>
VS-SR-REQ-333161/A-Neutral Tow	<jmyslin2> New requirement for Neutral Tow Setting</jmyslin2>
VS-FUN-REQ-333185/A-Nav Repeater in Cluster	<jmyslin2> New Function for Nav Repeater in the Cluster</jmyslin2>
VS-SR-REQ-333186/A-Nav Repeater in the Cluster	<jmyslin2> New requirement for Nav Repeater in the Cluster Setting</jmyslin2>
VS-FUN-REQ-333189/A-Maps in the Cluster	cluster Setting   cjmyslin2> New Function for Maps in the Cluster
VO-1 ON-INE Q-3000 1000/A-INIAPS III lile Olusiei	<jmyslin2> New requirement for Maps in the Cluster</jmyslin2>
VS-SR-REQ-333192/A-Maps in the Cluster	Setting

February 1, 2019	1.15		
	IIR-REQ-251250/K-Logical Signal to HS3 CAN dB signal name		<pre><jmyslin2> deleted TjaMsgTxt_D_Rq from logical to</jmyslin2></pre>
	translation table	e	physical list as no longer supported
	VS SD DEO 3	2/316/E Duration Pamoto Start	<jmyslin2> added clarification to the requirement. No</jmyslin2>
	VS-SR-REQ-234316/F-Duration - Remote		content change
VSv2-SR-REQ-33 Limit		-332978/B-Limiter with Speed Signs - Speed	<jmyslin2> No content change. Just added another potential name. HMI Settings ID ties to the HMI itself so just added for clarification</jmyslin2>
	VS-SR-REQ-3	33005/B-with Lane Centering	<jmyslin2> No content change. Just added another potential name. HMI Settings ID ties to the HMI itself so just added for clarification</jmyslin2>

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November 27, 2019	1.18				
	MD-REQ-3698	94/A-E	ngOilLife_Pc_Actl	<jmyslin2> New engine oil life p</jmyslin2>	percentage signal
	IIR-REQ-251250/M-Logical Signal to HS3 CAN dB signal name translation table			<jmyslin2> updated requiremer Feature2.St and Oil Life Percer</jmyslin2>	nt to add Feature2.Rq, ntage signals
	STR-389748/E	-Functi	onal Definition	<jmyslin2> Updated to include Settings with dedicated Feature signals</jmyslin2>	
			C-Traffic Sign Recognition Settings / on HMI not user selectable	<jmyslin2> Clarification only, a</jmyslin2>	added overview
	VS-SR-REQ-2	34028/	E-Trailer Sway	<jmyslin2> No change. Ignore since nothing change.</jmyslin2>	·
	VS-SR-REQ-2	34039/	L-Measure Units	<jmyslin2> Updated measure u displays</jmyslin2>	
	VS-SR-REQ-2	80669/	B-Mode - Trailer Brake	<pre><jmyslin2> Updated requireme SPSS</jmyslin2></pre>	
	VS-SR-REQ-2	80670/	C-Effort - Trailer Brake	<jmyslin2> Updated requireme SPSS</jmyslin2>	nt to support Trailer Settings
			C-Quiet Start - Exhaust Mode	jmyslin2 - requirement obsolete	
	VS-SR-REQ-2	80683/	C-Set Quiet Time - Exhaust Mode	<jmyslin2> requirement obsole</jmyslin2>	
	VS-FUN-REQ-	-333136	S/B-Ecocoach	<jmyslin2> added new EcoCoa requirement</jmyslin2>	ach - Eco Mode setting
	VS-SR-REQ-3	64517/	A-EcoCoach - Eco Mode	<jmyslin2> New EcoCoach in E</jmyslin2>	co Mode requirement
	STR-598208/E Tow	3-Requi	rements - shift by wire version of Neutral	jmyslin2 - updated title	
	VS-SR-REQ-3	33161/	C-Neutral Tow	jmyslin2 - made updates to the	
	VS-SR-REQ-3	33186/	B-Nav Repeater in the Cluster	<jmyslin2> No content chanage name</jmyslin2>	•
	messages		er Settings with dedicated FBMP	<jmyslin2> New section of spec Feature2.Rq and Feature2.St</jmyslin2>	c for settings that use
	Client dedicate usage	ed Feat	A-Cluster and Centerstack Settings HMI ure2.Rq/Feature2.St FBMP message	<jmyslin2> New settings in the dedicated Cluster FBMP message</jmyslin2>	centerstack requirement for age
			A-Settings Start-up	<jmyslin2> new requirement</jmyslin2>	
	VS-SR-REQ-364390/A-HMI Activation during Run VS-FUN-REQ-364615/A-Engine Oil Temp VS-SR-REQ-364614/A-Engine Oil Temp Life Gauge - C menu VS-FUN-REQ-364616/A-Power Gauge		· ·	<pre><jmyslin2> New Requirement</jmyslin2></pre>	
				<pre><jmyslin2> New Engine Oil Ter <jmyslin2> New Engine Oil Ter</jmyslin2></jmyslin2></pre>	•
			S/A-Power Gauge	<pre><jmyslin2> New Power Gauge</jmyslin2></pre>	function
			A-Power Gauge - Cluster Menu	<pre><jmyslin2> New Power Gauge</jmyslin2></pre>	
			6/A-Tachometer	<pre><jmyslin2> New Tachometer full</jmyslin2></pre>	
			A-Tachometer Gauge - Cluster menu	<jmyslin2> Tachometer Gauge</jmyslin2>	
	VS-FUN-REQ-			<jmyslin2>new Oil Life function</jmyslin2>	1
	VS-SR-REQ-3	65551/	A-Oil Life Percentage	<jmyslin2> New Oil Life Percer</jmyslin2>	ntage requirement
	VS-SR-REQ-3	65550/	A-Oil Life Reset	<pre><jmyslin2> New Oil Life Reset</jmyslin2></pre>	
	VS-FUN-REQ	365643	3/A-Cluster IoD menu configurations	<jmyslin2> New function for Clumenu items</jmyslin2>	uster IoD configuration
			A-Calm Screen - Cluster IoD config	<jmyslin2> New Cluster IoD co</jmyslin2>	
			A-Trip 1 - Cluster IoD config	<pre><jmyslin2> New Trip 1 IoD con</jmyslin2></pre>	· ·
			A-Trip 2 - Cluster IoD config	<pre><jmyslin2> New Trip 2 Cluster</jmyslin2></pre>	
			A-This Trip - Cluster IoD config	<jmyslin2> New This Trip Clust</jmyslin2>	
			A-Fuel Economy - Cluster IoD config	<jmyslin2> New Fuel Economy <imyslin2> now Floatric Efficient</imyslin2></jmyslin2>	
			A-Electric Efficiency - Cluster IoD config A-Eco Behaviors - Cluster IoD config	<jmyslin2> new Electric Efficier <imyslin2> New Eco Rehaviors</imyslin2></jmyslin2>	
			A-Eco Benaviors - Cluster IoD config  A-EV Coach - Cluster IoD config	<jmyslin2> New Eco Behaviors Cluster IoD config setting <jmyslin2> new EV Coach Cluster IoD config setting</jmyslin2></jmyslin2>	
			A-Auto Start Stop - Cluster IoD config	<pre><jmyslin2> new EV Coach Clus <jmyslin2> new Auto Start Stop</jmyslin2></jmyslin2></pre>	
			A-Seatbelt Status - Cluster IoD config	<jmyslin2> New seatbelt status</jmyslin2>	
			A-TPMS - Cluster IoD config	<pre><jmyslin2> New TPMS Cluster</jmyslin2></pre>	IoD config setting
	VS-SR-REQ-3	65706/	A-Eco Coach - Cluster IoD config	<jmyslin2> New Eco Coach / Eco Behaviours Cluster IoD config setting</jmyslin2>	
	IoD config		A-Now Playing (Audio / Phone) - Cluster	<jmyslin2> New Now Playing ( config</jmyslin2>	,
			A-Nav / Compass - Cluster IoD config	<pre><jmyslin2> New Nav / Compas <jmyslin2> New Average Spee</jmyslin2></jmyslin2></pre>	
			A-Average Speed - Cluster IoD config  A-Battery Charge - Cluster IoD config	requirement   cjmyslin2> New Battery Charge	
			A-ADAS - Cluster IoD config	<pre><jmyslin2> ADAS Cluster IoD or</jmyslin2></pre>	
			A-Maps / Augmented Reality - Cluster IoD	<pre><jmyslin2> New Maps / Augme config setting</jmyslin2></pre>	
<u> </u>	VS-SR-REQ-3	69132/	A-Classic View - Cluster IoD config	<jmyslin2> New Classic View C</jmyslin2>	Cluster IoD config setting
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CENTERSTACK SPSS	S v1.24 Oct 7 20	121	The information contained in this document is	Proprietary to Ford Motor Company	1



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1	VC FUN DEO 205705/A Olyston Trip 4 many	insusting New Charter Trin 4 many function
	VS-FUN-REQ-365765/A-Cluster Trip 1 menu	<jmyslin2> New Cluster Trip 1 menu function</jmyslin2>
	VS-SR-REQ-365846/A-Cluster Trip 1 Menu Reset VS-SR-REQ-365847/A-Set to Default - configure Cluster Trip 1	<jmyslin2> New requirement for Cluster Trip 1 menu reset <jmyslin2> New requirement to set to default Cluster Trip 1</jmyslin2></jmyslin2>
	view	view
	VS-SR-REQ-365855/A-Trip 1 Odometer - configure Cluster Trip 1 view	<jmyslin2> New Trip Odometer - configure Cluster Trip 1 view setting</jmyslin2>
	VS-SR-REQ-365858/A-Trip 1 Timer - configure Cluster Trip 1 view	<pre></pre>
	VS-SR-REQ-365860/A-Average Speed - configure Cluster Trip	<jmyslin2> New average speed configure cluster trip 1</jmyslin2>
	1 view VS-SR-REQ-365864/A-Average Fuel - configure Cluster Trip 1	view setting requirement <pre></pre> <pre><pre><pre><pre><pre><pre><pre>&lt;</pre></pre></pre></pre></pre></pre></pre>
	view VS-SR-REQ-365865/A-Instantaneous Fuel - configure Cluster	cluster trip 1 view <pre></pre> <pre></pre> <pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
	Trip 1 view	- configure cluster trip 1 view
	VS-FUN-REQ-365845/A-Cluster Trip 2 menu	<jmyslin2> New Cluster Trip 2 menu function</jmyslin2>
	VS-SR-REQ-365866/A-Cluster Trip 2 Menu Reset	<pre><jmyslin2> New requirement for Cluster Trip 2 menu reset</jmyslin2></pre>
	VS-SR-REQ-365867/A-Set to Default - configure Cluster Trip 2 view	<jmyslin2> New Set to Default - configure Cluster trip 2 view</jmyslin2>
	VS-SR-REQ-365877/A-Trip 2 Odometer - configure Cluster Trip 2 view	jmyslin2 - New setting Trip 2 odometer - configure cluster trip 2 view
	VS-SR-REQ-365878/A-Trip 2 Timer - configure Cluster Trip 2 view	<jmyslin2> New Trip 2 Timer - configure cluster trip 2 view requirement</jmyslin2>
	VS-SR-REQ-365880/A-Average Speed - configure Cluster Trip 2 view	<jmyslin2> New requirement for Average Speed - configure Cluster Trip 2 view</jmyslin2>
	VS-SR-REQ-365884/A-Average Fuel - configure Cluster Trip 2 view	<jmyslin2> New settings requirement for Average Fuel - configure Cluster Trip 2 view</jmyslin2>
	VS-SR-REQ-365885/A-Instantaneous Fuel - configure Cluster Trip 2 view	configure Cluster Trip 2 view <jmyslin2> New setting requirement for Instantaneous Fuel - configure Cluster Trip 2 view</jmyslin2>
	VS-FUN-REQ-369169/A-Classic View - Cluster Speedo view	<pre></pre> <pre></pre> <pre><pre><pre><pre><pre><pre><pre>&lt;</pre></pre></pre></pre></pre></pre></pre>
	VS-SR-REQ-369170/A-Classic View - Cluster Speedo view - Cluster Menu	<jmyslin2> New Classic View Speedo view setting</jmyslin2>
	Ciustei Meriu	-
June 18, 2020	1.19	
	VS-SR-REQ-232245/I-Cruise Control	jmyslin2: Deleted screen number so only HMI Settings ID is there. No change to requirement
	VS-SR-REQ-333002/C-Tolerance - Cruise Control	jmyslin2: Deleted screen number so only HMI Settings ID is there. No change to requirement
	VS-SR-REQ-333005/C-with Lane Centering	jmyslin2: Deleted screen number so only HMI Settings ID is there. No change to requirement
	VS-SR-REQ-333008/B-with Smart Offerings	jmyslin2: Deleted screen number so only HMI Settings ID is there. No change to requirement
	VSv3-FUN-REQ-391926/A-Cruise Control - Variant 3	<jmyslin2> New function for Cruise Control varient 3</jmyslin2>
	VS-SR-REQ-333161/D-Neutral Tow	jmyslin2: clarification only, see track changes for details
	VS-FUN-REQ-393166/A-Classic Gauges - Cluster Menu	jmyslin2: new Classic Gauges function
	VS-SR-REQ-384384/A-Classic Gauge	jmyslin2: New Classic Gauge setting
November 2, 2020	1.20	
,	MD-REQ-396483/A-AhbcMnu_D_Rq	jmyslin2: New MD for auto-config lighting
	MD-REQ-396485/A-GfhbMnu_D_Rq	jmyslin2: New MD for auto-config of lighting
	VS-SR-REQ-234339/F-Auto Highbeam / Adaptive Drivebeam / Glare Free - Variant 1	jmyslin2: No change to requirements, just updated the name of the requirement
	VS-SR-REQ-396237/A-Auto Highbeam / Adaptive Drivebeam / Glare Free - Variant 2	jmyslin2: new lighting requirement
	CLD-REQ-396484/A-Lighting Settings Configuration Server	jmyslin2: New Class Description for auto-configuring the
	VS-SR-REQ-396712/A-HMI settings when not in Run	lighting settings jmyslin2: New requirement for auto-configuring headlamps
	VS-SR-REQ-396711/A-Usage of Auto-configuration lighting signals vs DID configuration	jmyslin2: New requirement for auto-configurating headlamps
	VS-SR-REQ-396713/A-Configuring the HMI based on the Lighting Settings auto-configuration signals	jmyslin2: New requirement for auto-config lighting signals
	VS-SR-REQ-396714/A-Storing the auto-configuration lighting settings last state	jmyslin2: New requirement for auto-configuring lighting settings
March 24 2224		
March 31, 2021	VS-SR-REQ-333009/C-with Speed Signs	jmyslin2: No content change. Just updated name
	STR-400153/Q-Vehicle Settings	jmyslin2: removed MyColor and Exhaust Mode and put under section that uses Feature2.Rq and Feature2.St messages
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l.		
	VS-FUN-REQ-280684/B-Rev Match (Engine Revolution Match)	jmyslin2: No change to function, just added an overview of the feature
	VS-SR-REQ-404307/A-Status Screen - Cluster IoD config	jmyslin2: new Status Screen setting
	VS-FUN-REQ-404378/A-Cluster Appearance	jmyslin2: new Status Screen setting jmyslin2: new Cluster appearance function
	VS-SR-REQ-404379/A-Cluster Appearance	jmyslin2: new cluster appearance setting
	VS-FUN-REQ-404408/A-Performance Shift Indicator - Cluster menu	jmyslin2: New Performance Shift Indicator function
	VS-SR-REQ-404459/A-Shift Point Setup - RPM	jmyslin2: New shift point setting
	VS-SR-REQ-404460/A-Shift Tone	jmyslin2: new Shift Tone setting
	VS-SR-REQ-404461/A-Shift Light Mode	jmyslin2: new shift light mode setting
	VS-FUN-REQ-279097/B-MyColor	jmyslin2: added overview to function and made updates captured in the individual requirement rev log items
	VS-SR-REQ-279098/C-Gauge Color / Primary Color - MyColor	jmyslin2: Updated encoding and used Feature2.Rq / Feature2.St
	VS-SR-REQ-279099/C-Halo Color / Secondary Color - MyColor	jmyslin2: updated the encodings and since MyColor never used went to Feature2.Rq and Feature2.St
	VS-SR-REQ-279101/C-Halo Lighting / Secondary Lighting - MyColor	Jmyslin2: uses Feature2.Rq and Feature2.St
	VS-SR-REQ-280522/C-Color Wheel 1 - MyColor	jmyslin2: Updated to include Feature2.Rq / Feature2.St
	VS-SR-REQ-280523/C-Color Wheel 2 - MyColor	jmyslin2: Updated to include Feature2.Rq / Feature2.Stat
	VS-SR-REQ-280524/C-Color Wheel 3 - MyColor	jmyslin2: Updated to say use Feature2.Rq/Feature2.St
	VS-SR-REQ-279104/C-Ambient Lighting - MyColor	jmyslin2: Updated to change encodings and added a note to use FBMP2 signals
	VS-SR-REQ-280525/C-Ambient Light Color - MyColor	jmyslin2: updated encodings and changed to use Feature2.Rq and Feature2.St
	VS-SR-REQ-280526/C-Ambient Light Dim - MyColor - DELETED	jmyslin2: Requirement Deleted
	VS-FUN-REQ-280671/B-Exhaust Mode	jmyslin2: added overview to function
	VS-SR-REQ-280672/C-Exhaust Mode	jmyslin2: since never implemented and lead program is S650 made this FBMP2 signals
April 23, 2021	1,22	
April 23, 2021	VS-SR-REQ-415044/A-Centerstack and Cluster HMI both	jmyslin2: new MyColor HMI when Centerstack module
	supporting MyColor  VS-SR-REQ-280525/D-Ambient Light Color - MyColor	support MyColors imvslin2: Updated grev back to white per the HMI team
	VS-SR-REQ-280525/D-Ambient Light Color - MyColor	jmyslin2: Updated grey back to white per the HMI team
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor	
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23	jmyslin2: Updated grey back to white per the HMI team
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23  VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication jmyslin2: updated requirement to add clarification on what can be used for distance units
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23  VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI Settings ID - Phoenix Architecture	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication jmyslin2: updated requirement to add clarification on what can
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23  VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI Settings ID - Phoenix Architecture  VS-SR-REQ-234039/M-Measure Units  VS-SR-REQ-234315/D-Quiet Start - Remote Start  VS-SR-REQ-234319/D-Global Window Open	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication jmyslin2: updated requirement to add clarification on what can be used for distance units jmyslin2: updated Settings ID to link it to the Phoenix PDC
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23  VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI Settings ID - Phoenix Architecture  VS-SR-REQ-234039/M-Measure Units  VS-SR-REQ-234315/D-Quiet Start - Remote Start  VS-SR-REQ-234319/D-Global Window Open  VS-SR-REQ-234320/D-Global Window Close	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication jmyslin2: updated requirement to add clarification on what can be used for distance units jmyslin2: updated Settings ID to link it to the Phoenix PDC Cluster STSS spec <jmyslin2> No update, ignore revision <jmyslin2> No update, ignore revision</jmyslin2></jmyslin2>
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23  VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI Settings ID - Phoenix Architecture  VS-SR-REQ-234039/M-Measure Units  VS-SR-REQ-234315/D-Quiet Start - Remote Start  VS-SR-REQ-234319/D-Global Window Open  VS-SR-REQ-234320/D-Global Window Close  VS-SR-REQ-234340/D-Daytime Running Lights	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication jmyslin2: updated requirement to add clarification on what can be used for distance units jmyslin2: updated Settings ID to link it to the Phoenix PDC Cluster STSS spec <jmyslin2> No update, ignore revision</jmyslin2>
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23  VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI Settings ID - Phoenix Architecture  VS-SR-REQ-234039/M-Measure Units  VS-SR-REQ-234315/D-Quiet Start - Remote Start  VS-SR-REQ-234319/D-Global Window Open  VS-SR-REQ-234320/D-Global Window Close  VS-SR-REQ-234340/D-Daytime Running Lights  VS-SR-REQ-234341/D-Welcome Lighting	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication jmyslin2: updated requirement to add clarification on what can be used for distance units jmyslin2: updated Settings ID to link it to the Phoenix PDC Cluster STSS spec <jmyslin2> No update, ignore revision <jmyslin2> No update, ignore revision</jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2>
July 13, 2021	VS-SR-REQ-280525/D-Ambient Light Color - MyColor  1.23  VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI Settings ID - Phoenix Architecture  VS-SR-REQ-234039/M-Measure Units  VS-SR-REQ-234315/D-Quiet Start - Remote Start  VS-SR-REQ-234319/D-Global Window Open  VS-SR-REQ-234320/D-Global Window Close  VS-SR-REQ-234340/D-Daytime Running Lights  VS-SR-REQ-234341/D-Welcome Lighting  VS-SR-REQ-234342/D-Adaptive Headlights	jmyslin2: Updated grey back to white per the HMI team  jmyslin2: new requirement with regards to the Phoenix VIP / CCPU interprocessor communication jmyslin2: updated requirement to add clarification on what can be used for distance units jmyslin2: updated Settings ID to link it to the Phoenix PDC Cluster STSS spec <jmyslin2> No update, ignore revision <jmyslin2> No update, ignore revision</jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2></jmyslin2>
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	VS-SR-REQ-2?	34361/D-Reverse Ti	ilt Mirrors	<jmyslin2> No update, ignore revision</jmyslin2>
	VS-SR-REQ-28	80679/D-Quiet Start	t - Exhaust Mode	jmyslin2: No update, ignore revision
	VS-SR-REQ-27	79098/D-Gauge Col	lor / Primary Color - MyColor	jmyslin2: Updated requirement
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	VS-SR-REQ-27 MyColor - DELE		ing / Secondary Lighting -	jmyslin2: updated requirement
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	VS-SR-REQ-28	30525/E-Ambient Li	ight Color - MyColor	jmyslin2: updated requirement
	VS-FUN-REQ-	423284/A-Drive Mo	ode Transition Chime	jmyslin2: new function for Drive Mode transition chime
	VS-SR-REQ-42	23285/A-Drive Mode	e Transition Chime	jmyslin2: new requirement
October 7, 2021	1.24			
	VS-SR-REQ-29	98602/B-Handsfree	Liftgate	jmyslin2: updated to tie changing liftgate setting to updating handsfree liftgate setting



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# 1 Architectural Design

# 1.1 Interface Requirements

# 1.1.1 VS-IIR-REQ-243929/C-FBMP Interface requirements

#### 1.1.1.1 MD-REQ-243930/A-Feature\_St

Message Type: Status

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

**Included Parameters:** 

FeatureID 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	

#### 1.1.1.2 MD-REQ-243931/A-Feature\_Rq

Message Type: Request

Represents the request to command a feature change (select new feature, change feature setting, query features, etc.).

**Included Parameters:** 

Operation

FeatureID

Configuration

PersIndex

Name	Literals	Value	Description
Operation	-	-	Type of operation being requested
	Null	0x0	
	Query	0x1	
	Set	0x2	
	Upload	0x3	
	Restore	0x4	
	Сору	0x5	

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	NotUsed	0x6 - 0x7	
FeatureID	-	-	Feature number being requested
		0x0000 – 0xFFFF	-
Configuration	-	-	Configuration value being requested
		0x0000 – 0xFFFF	
PersIndex	-	-	Indicates which personality profile is being
			accessed
	PERS_1	0x0	
	PERS_2	0x1	
	PERS_3	0x2	
	PERS_4	0X3	
	VEHICLE	0X4	
	Not Used	0x5	
	Not Used	0x6	
	Not Used	0x7	

# 1.1.2 MD-REQ-243934/B-Disp\_Miles\_Kilometers.St

Message Type: Status

Signal from the Vehicle Settings Server stating what the setting is for Distance units.

Logical Signal Name	Literals	Value	Description
Disp_Miles_Kilometers.St	Metric (kilometers)	0x0	
	Imperial (miles)	0x1	

# 1.1.3 MD-REQ-016222/B-lgnKeyType\_D\_Actl (TcSE ROIN-200609-4)

Message Type: Status

This signal represents the MyKey system status and is provided to all affected system components to configure their local modes.

Name	Literals	Value	Description
IgnKeyType_D_ActI	-	-	Type of key that is in the ignition
	KeyReadInProgress	0x0	Key(s) will be read now
	KeyInIgnStandardKey		Admin (full) mode
	KeylnIgnMyKey		MyKey restricted mode
	Key_Not_Prgrm_Read_Failure		Key not programmed
	Unknown		Disable MyKey System mode
	Invalid	0xF	Initial value

# 1.1.4 MD-REQ-276458/B-Vehicle\_Speed.St

Message Type: Status

Signal with the current status of the Vehicle Speed

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Logical Signal Name	Literals	Value	Description
Vehicle_Speed.St	See info-CAN database for signal details	See info-CAN database for signal details	

#### 1.1.5 MD-REQ-276459/A-Vehicle\_Speed\_QF

Message Type: Status

Signal with the Vehicle Speed Quality Factor

Logical Signal Name	Literals	Value	Description
Vehicle_Speed_QF	Faulty	0x0	
	No_Data_Exists	0x1	
	Not_Within_Specifications	0x2	
	OK	0x3	

# 1.1.6 MD-REQ-239857/C-TsrVIUnitMsgTxt\_D\_Rq

Message Type: Request

Traffic Sign Recognition signal indicating if the Traffic Sign Recognition settings should be in Km/h or MPH.

Note: This signal only applies for Traffic Sign Recognition settings.

Logical Signal Name	Literals	Value	Description
TsrVIUnitMsgTxt_D_Rq	Null	0x0	
	Km/h	0x1	
	MPH	0x2	
	NoDataExists	0x3	

# 1.1.7 MD-REQ-276700/A-laccLamp\_D\_Rq

Message Type: Request

Intelligent Adaptive Cruise Control signal used by Traffic Sign Recognition / Speed Limit Information for Settings in the Centerstack

Logical Signal Name	Literals	Value	Description
laccLamp_D_Rq	DoNotDisplayllacclcon	0x0	
	Displaylaccicon	0x1	
	NotUsed	0x2	
	NotUsed	0x3	

# 1.1.8 MD-REQ-276704/A-SLMde\_D\_Rqdsply

Message Type: Request

Intelligent Speed Assist signal used by Traffic Sign Recognition / Speed Limit Information for Settings in the Centerstack

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Logical Signal Name	Literals	Value	Description
SLMde_D_Rqdsply	NoSpeed_LimiterSymbol	0x0	
	AutoSpeed_LimiterSymbol	0x1	
	ManualSpeed_LimiterSymbol	0x2	
	NotUsed	0x3	

# 1.1.9 MD-REQ-276706/A-Aslicondsply\_D\_Rq

Message Type: Request

Intelligent Speed Assist signal used by Traffic Sign Recognition / Speed Limit Information for Settings in the Centerstack

Logical Signal Name	Literals	Value	Description
Aslicondsply_D_Rq	Off	0x0	
	On_Passive	0x1	
	On_Active	0x2	
	Override	0x3	

#### 1.1.10 MD-REQ-274072/C-BTTLeft\_D\_RqDrv

Message Type: Request

BTT Lite (Blind spot Trailer Tow Lite) left side detection signal sent to tell if the BTT Lite pop-up should be shown in the Centerstack HMI

Logical Signal Name	Literals	Value	Description
BttLeft_D_RqDrv	Null	0x0	
	No Request	0x1	
	Request	0x2	Used for pop-up
	Not Used	0x3	

# 1.1.11 MD-REQ-274073/C-BTTRight\_D\_RqDrv

Message Type: Request

BTT Lite (Blind spot Trailer Tow Lite) right side detection signal sent to tell if the BTT Lite pop-up should be shown in the Centerstack HMI

<b>Logical Signal Name</b>	Literals	Value	Description
BttRight_D_RqDrv	Null	0x0	
	No Request	0x1	
	Request	0x2	Used for pop-up
	Not Used	0x3	

#### 1.1.12 MD-REQ-343175/A-MetricActv\_B\_Actl

Message Type: Status

This signal provides the MPH or Km/h speed setting unit to use (see setting function for details and applicability)

Logical Signal Name	Literals	Value	Description
MetricActv_B_Actl	Inactive	0x0	MPH
	Active	0x1	Km/h

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# 1.1.13 MD-REQ-369894/A-EngOilLife\_Pc\_Actl

Message Type: Status

Status signal from the Engine Oil Life Server with the oil life percentage until the oil life has expired

Logical Signal Name	Literals	Value	Description
	0 percent oil life	0x0	
	1 percent oil life	0x1	
EngOilLife_Pc_Actl	2 percent oil life	0x2	
3			
	99 percent oil life	0x63	
	100 percent oil life	0x64	

# 1.1.14 MD-REQ-396483/A-AhbcMnu\_D\_Rq

Message Type: Request

Periodic Request signal from the Lighting Settings Configuration Server to the Centerstack Settings HMI Client to auto-configure the Auto Highbeam variant 2 HMI and Interface to be used.

Logical Signal Name	Literals	Value	Description
	Null	0x0	
AhbcMnu_D_Rq	Disable	0x1	Don't show Auto-Highbeam HMI
	Enable	0x2	Show Auto-Highbeam HMI

# 1.1.15 MD-REQ-396485/A-GfhbMnu\_D\_Rq

Periodic Request signal from the Lighting Settings Configuration Server to the Centerstack Settings HMI Client to autoconfigure the Glare Free and Adaptive Drive Beam variant 2 HMI and Interface to be used.

Logical Signal Name	Literals	Value	Description
	Null	0x0	
	Disable	0x1	Don't show Glare Free / Adaptive Drive Beam HMI
GfhbMnu_D_Rq	Enable Glare Free	0x2	Show Glare Free
	Enable Adaptive Drive Beam	0x3	Show Glare Free / Adaptive Drive Beam HMI

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# 1.2 IIR-REQ-251250/M-Logical Signal to HS3 CAN dB signal name translation table

Transmitter	Logical Signal Name	HS3 CAN dB signal name
	Feature.Rq : Operation	CtrStkDsplyOp_D_Rq
	Feature.Rq : FeatureID	CtrStkFeatNoActl
	Feature.Rq : Configuration	CtrStkFeatConfigActl
Centerstack Settings HMI	Feature.Rq : PersIndex	CtrStkPersIndex_D_ActI
Client (APIM, CHR)	Feature2.Rq : Operation	CtrStkDsplyOp2_D_Rq
,	Feature2.Rq : FeatureID	CtrStkFeat2NoActl
	Feature2.Rq : Configuration	CtrStkFeat2ConfigActl
	Feature2.Rq : PersIndex	CtrStkPersIndex2 D ActI
	Feature.St : FeatureID	FeatNolpcActl
01 / 5 / 0 //	Feature.St : Configuration	FeatConfiglpcActl
Cluster Feature Settings	Feature.St : PersIndex	PersIndexIpc_D_ActI
Server / Settings	Feature2.St : FeatureID	FeatNolpc2Actl
Gateway_Translator Module	Feature2.St : Configuration	FeatConfigIpc2Actl
	Feature2.St : PersIndex	PersIndexIpc2_D_ActI
DOME 1 0 11 0	Feature.St : FeatureID	FeatNoBcm_No_ActI
BCM Feature Settings Server	Feature.St : Configuration	FeatConfigBcmActl
(Body Control Module)	Feature.St : PersIndex	PersIndexBcm D Actl
	Feature.St : FeatureID	FeatNolpmaActl
IPMA Feature Settings Server	Feature.St : Configuration	FeatConfigIpmaActl
ğ	Feature.St : PersIndex	PersIndexIpma D Actl
DOME : 0 :: 0	Feature.St : FeatureID	FeatNoDsmActI
DSM Feature Settings Server	Feature.St : Configuration	FeatConfigDsmActl
(Driver Seat Module)	Feature.St : PersIndex	PersIndexDsm D Actl
	Feature.St : FeatureID	FeatNoHcm No ActI
HCM Feature Settings Server	Feature.St : Configuration	FeatConfigHcmActl
(Headlamp Control Module)	Feature.St : PersIndex	Signal does not exist. Treat as
,		though PersIndex is equal to Vehicle
	Feature.St : FeatureID	FeatNoFcimActl
FCIM (HVAC) Feature Settings	Feature.St : Configuration	FeatConfigFcimActl
Server	Feature.St : PersIndex	PersIndexFcim_D_ActI
SCCM Feature Settings Server	Feature.St : FeatureID	FeatNoSccmActl
(Steering Column Control	Feature.St : Configuration	FeatConfigSccmActl
module)	Feature.St : PersIndex	PersIndexSccm_D_ActI
CLIMA Facture Cettings Conver	Feature.St : FeatureID	FeatNoSumaActl
SUMA Feature Settings Server	Feature.St : Configuration	FeatConfigSumaActl
(Suspension Control Module)	Feature.St : PersIndex	PersIndexSuma_D_ActI
VDM Facture Settings Server	Feature.St : FeatureID	FeatNoVdmActl
VDM Feature Settings Server (Variable Dynamics Module)	Feature.St : Configuration	FeatConfigVdmActl
(variable Dynamics Module)	Feature.St : PersIndex	PersIndexVdm_D_ActI
CCM Footure Settings Server	Feature.St : FeatureID	FeatNoCcmActl
CCM Feature Settings Server (CADS Control Module)	Feature.St : Configuration	FeatConfigCcmActl
(CADS Control Module)	Feature.St : PersIndex	PersIndexCcm_D_ActI
	Feature.St : FeatureID	FeatNoDdm_No_Actl
DDM Feature Settings Server	Feature.St : Configuration	FeatConfigDdmActl
	Feature.St : PersIndex	PersIndexDdm_D_ActI
Applicable Traffic Sign Recognition module	TsrVIUnitMsgTxt_D_Rq	TsrVIUnitMsgTxt_D_Rq
MyKey Ignition Key Type Server	IgnitionKeyType	IgnKeyType_D_ActI
Speed Unit Sonyor (Cluster)	MetricActv_B_Actl	MetricActv_B_ActI
Speed Unit Server (Cluster)	TrnGearNtmAllow_B_Stat	TrnGearNtmAllow_B_Stat
Neutral Tow Server (PCM)  Distance Unit Server (Cluster)	Disp_Miles_Kilometers.St	Mc_VehUntTrpCoUsrSel_St
Distance Unit Server (Cluster)	DISP_INITIES_KITOTTIETETS.St	

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	laccLamp_D_Rq	laccLamp_D_Rq
	SLMde_D_Rqdsply	SLMde_D_Rqdsply
	Aslicondsply_D_Rq	Aslicondsply_D_Rq
BTT Lite Server	BttLeft_D_RqDrv	BttLeft_D_RqDrv
BTT Lite Server	BttRight_D_RqDrv	BttRight_D_RqDrv
	Vehicle_Speed.St	Veh_V_ActlEng
	Vehicle_Speed_QF	VehVActlEng_D_Qf
	EngOilLife Pc Actl	EngOilLife Pc Actl

The Centerstack Settings HMI client (ex APIM...) needs to support receiving Feature.St signals from any of the Feature.St signals in the above table.

Note: the Centerstack Settings HMI Client needs to support any Feature.St it receives from Feature Settings Servers. At the time this spec was written the above table was the latest. Check the module CAN dB for any additional Feature.St signals that the Centerstack Settings HMI Client may receive.

# VS-CLD-REQ-232301/B-Centerstack Settings HMI Client

The Infotainment Centerstack Settings HMI Client is responsible for sending the Feature.Rq HMI selections to the Settings Gateway Translator Module / Feature Settings Server and updating its HMI based on the Feature.St responses

# 1.4 VS-CLD-REQ-232302/A-Settings Gateway Translator Module

The Settings Gateway\_Translator module is responsible for being the interface between the Centerstack Settings HMI Client and the Feature Settings Servers

# 1.5 VS-CLD-REQ-232303/A-Feature Settings Server

The Feature Settings Server is responsible for responding to the request for a particular feature and performing the feature operation



# 2 General Requirements

This specification covers non-infotainment Settings not already covered in other SPSS specifications that will have those settings moving to the infotainment Centerstack module (ex SYNC, CHR). Most the settings in the specification resided in the Cluster and are being moved to the infotainment Centerstack module (ie Centerstack Settings HMI Client).

This specification is in addition to the "<u>Vehicle Settings (Global) SPSS</u>" and other Feature SPSS specifications where those Settings are already covered. When supporting Settings in the Centerstack the "<u>Vehicle Setting (Global) SPSS</u>" and "<u>Vehicle Settings – Settings in the Infotainment Centerstack Module (Global)</u>" shall both be used in addition to any other Feature SPSS with settings that are already supported by the infotainment Centerstack module.

For MyKey settings in the Centerstack feature reference the MyKey Settings in the Centerstack SPSS.

# 2.1 <u>VS-SR-REQ-232098/P-Feature Based Message Protocol usage for Settings in the Infotainment Centerstack Display Module</u>

The definition of how to use Feature Based Message Protocol for Set and Query operations is defined in the Feature Based Message Protocol SPSS and shall be followed to support this Settings in the Centerstack SPSS specification.

To support this SPSS for Settings in the Centerstack the supplier will need an April 2017 or later version of the FBMP SPSS to accompany this spec.

For the features/functions in this Centerstack Settings SPSS specification the Centerstack Settings HMI Client shall use the Feature.Rq(Operation = Query) method at start-up described in the Feature Based Message Protocol SPSS. The Retry method shall be supported as defined in "FBMP-REQ-023025-Query request but no response form Feature Server (Query Retries)" in the case where there is no response from the Feature Server.

- If the Centerstack Setting HMI Client has not yet queried a setting at start-up (or have not received a response from a query) and the user goes to the HMI for the setting(s) then no settings selections can be shown (HMI to decide how to show that it does not know the setting selection grey out, don't show setting, etc). The settings cannot be saved from the previous ignition cycle. The setting selection (ex enabled/disabled selected) HMI can only show a setting as being selected if there was a response from the feature server.
- Note: additional error handling could be taken such as if the user enters a particular HMI settings screen the Centerstack HMI Client can always re-query any items that were missed at start-up.

For the features/functions in this Centerstack Settings SPSS specification the Centerstack Settings HMI Client shall use the Feature.Rq (Operation = Set) method as described in the Feature Based Message Protocol SPSS. The Retry method shall be supported as defined in "FBMP-REQ-023017-Set request but no response from Feature Server" in the case where there is no response from the Feature Server. Unless noted otherwise displaying centerstack settings HMI menu items such as what to do if Feature Client does not receive a response for a set operation or its retry is defined by the HMI specification (HMI team make final call on how to display if never get a response for a set command).

When the ignition\_status changes from OFF/ACC to RUN then the RUN query start-up method is used from the FBMP SPSS for all settings in this specification (<u>FBMP-REQ-023024-Query Operation during Start-Up</u>). For these settings the Centerstack Setting Client shall support the following:

- If already queried everything in Run and the ignition\_status changes to OFF / ACC and back to Run then settings normally queried in Run would have to be re-queried again. When ignition\_status changes to OFF/ACC the menu settings that were queried in Run would be considered unknown.
- When Ignition\_Status changes to Crank it is considered a don't care and the last Ignition\_Status state shall be assumed. For example if in Run with everything queried and the Ignition\_Status changes to Crank and back to Run then the settings would not need to be re-queried again.
- If a query event is in progress and a crank event happens then after the crank event finishes (Ignition\_Status goes from Crank/Start → Run) the Query shall resume were it left off.As noted in the FBMP SPSS specification if the user went to a specific Centerstack Settings menu before all the settings are queried at start-up then the active settings menu has priority and shall be queried next (if it wasn't queried already earlier).
- When the query begins it is recommended to create a priority list on what items are queried first so the setting HMI can update the high priority items first:



- It is recommended that Pre-Collision Assist, Lane Keeping System settings are queried first (any active safety items deemed higher priority or anything deemed high priority) followed by Driver Alerts (0x0808), Auto High Beam (0x080C), Global Window Open (0x0401), Global Window Close (0x0402)
- After that the next to be queried is recommended to be any HMI settings that the customer is more likely to see first.
  - Example: There is a setting or HMI item the user is likely to see (ie menu not buried many layers deep). It is recommended to query those at the beginning of the query list
  - Example2: When the user enters an HMI screen if there is a list of 10 settings and if without scrolling you can only see the top 3 settings then it is recommended that those three items be higher on the query priority list since those are among the first that could be seen by the user.

Note: the priority list might vary by module since the HMI may be different on different modules.

 As noted in the FBMP SPSS specification (FBMP-REQ-023024-Query Operation at Start-Up) if the user went to a specific Centerstack Settings menu before all the settings are queried at start-up then the active settings menu has priority and shall be queried next (if it wasn't queried already earlier). See FBMP SPSS for details.

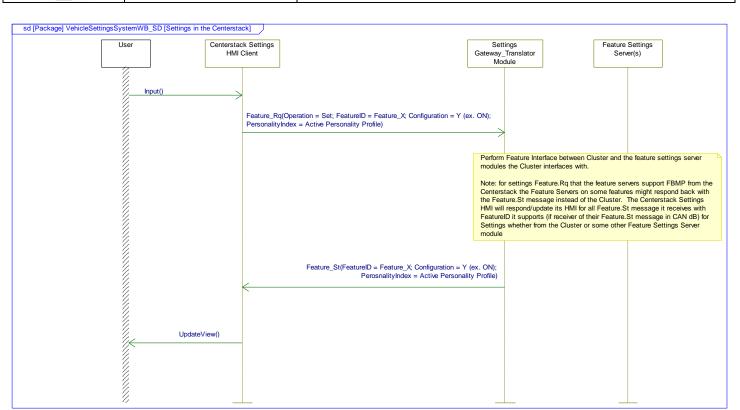
The Centerstack Settings HMI Client shall be capable of performing multiple QUERY or SET actions at once. An input from the driver, for example, shall never be "lost" if the Centerstack Settings HMI Client is performing a QUERY.

For any FBMP Settings Server module that only responds to the Cluster FBMP Feature.Rq Set or Query operation signal and not the Centerstack FBMP Feature.Rq Set or Query operation signal then the Cluster will be the gateway/translator module. The Cluster will receive the Centerstack FBMP Feature.Rq message and then will send the corresponding Cluster FBMP Feature.Rq message to the respective module for a particular feature.

For any Settings feature in this specification that the Cluster doesn't currently use Feature Based Message Protocol for when communicating with the feature server modules the Cluster shall:

receive a Feature.Rq FBMP message from the Centerstack Settings HMI Client for the selected settings HMI and
then the Cluster Gateway/Translator can use the existing Cluster strategy to communicate with the module feature
servers to support the settings feature. The Cluster shall send the Feature.St to the Centerstack Settings HMI Client
in response to the Feature.Rq so the Settings HMI can be updated.

Example diagram below with Cluster as the Gateway/Translator module for Settings:



# 2.2 VS-SR-REQ-232106/G-Configuration of Settings HMI displayed in Centerstack

The Infotainment Centerstack module (ie Centerstack Settings HMI Client) shall have a configuration item for the different HMI setting options displayed to the user. This may vary by vehicle program and vary on vehicle program depending on the feature content supported on a particular vehicle.

Reference the HMI specifications which list the configurations (ex DE0X, Byte Y, Bit Z) for all the HMI settings (ie shows what HMI will be activated/deactivated for each configuration).

Reference the Infotainment Centerstack module Setting IDS (Infotainment Diagnostics Specification) for list of configuration settings.

If any conflict between configurations shown in the HMI and IDS bring to Ford's attention.

# 2.3 <u>VS-SR-REQ-232237/G-FBMP Feature.St received from any FBMP Feature Settings Server</u> module

The Centerstack Settings HMI Client which sends out the Centerstack FBMP Feature.Rq message shall be able to accept the response from any FBMP Feature Settings Server module that it receives the Feature.St response from (ex could be Cluster, BCM, FCIM...).

 Note: that is as long as Centerstack Settings HMI Client is a receiver of that server modules FBMP Feature.St message in their CAN dB.

The Centerstack Settings HMI Client shall update its HMI setting based on any Feature.St message from any feature server responsible for that setting (as long as the feature number in the Feature.St is a setting the Centerstack HMI Client supports). This could happen because of a Set or Query operation or if the feature server sends the Feature.St on event with a new value (ie without a Set or Query Feature.Rg).



# 2.4 VS-SR-REQ-233588/D-HMI Settings MyKey Limited

Some settings might not be supported when a MyKey is being used as the key. For those settings the HMI shall not allow the user to select those settings when MyKey limited or may not show those settings at all.

Some settings are MyKey limited in the sense that the go to a default setting when a MyKey is used but still allow the MyKey user to adjust the setting. For those settings there would be no impact on the Centerstack Settings HMI Client since when key to Run with a MyKey the MyKey limited default values will be queried at start-up from the feature servers using Feature Based Message Protocol. The feature servers would respond back to the query with the MyKey default values.

#### Activating MyKey Settings Limit:

To activate MyKey limited settings, signal IgnKeyType\_D\_ActI must be KeyInIgnMyKey. The Centerstack Settings HMI Client shall monitor this signal to know when MyKey is active.

Signal Name	Encodings	Value	Description
IgnitionKeyType	-	-	Type of key that is in the ignition
	KeyReadInProgress	0x0	Key(s) will be read now
	KeyInIgnStandardKey	0x1	Admin (full) mode
	KeylnlgnMyKey	0x2	MyKey restricted mode
	Unknown	0xE	Disable MyKey System mode
	Invalid	0xF	Initial value

# 2.5 <u>VS-SR-REQ-234228/C-Driver Distraction - Settings in the Centerstack</u>

Reference applicable Driver Restrictions specification(s) to see if there are any driver restrictions on settings in the Centerstack.

- Reference the Driver Restrictions SPSS
- For SYNC Gen 3 also reference the HMI driver restriction specification (H21j\_SYNC\_GEN3\_Driver\_Restrictions specification)
- Any other Settings HMI specifications showing what is driver restricted

# 2.6 VS-SR-REQ-234437/C-Carryover Settings functionality from other specifications

Settings that are described in other SPSS specifications (ex Vehicle Settings SPSS, Rear View Camera SPSS, Adjustable Chimes SPSS...) are not redefined hear unless noted otherwise. Follow the existing specifications on how those settings work.

For the different MyKey Settings reference the MyKey Settings in the Centerstack SPSS specification.

# 2.7 <u>FBMP-SR-REQ-238230/F-Enhanced Memory - Active Personality Profile change using Feature Based Message Protocol</u>

If Enhanced Memory is supported, then after the ActivePersonality\_St changes to a new personality profile as defined in the Enhanced Memory SPSS, the FBMP Feature Client (ex Centerstack Settings HMI Client module) shall Query all the FBMP Feature Servers (ex Query all FBMP settings in centerstack) that use FBMP with the PersIndex set to the new personality profile. The query is performed 200 msec after the ActivePersonality\_St signal changes to the new profile (the 200 msec gives the Feature Settings Servers time to update to the new active personality before queried). If the active screen is displaying any FBMP settings, those settings shall be queried first.

• See Enhanced Memory requirement "ENMEM-REQ-099693-Display Data Refresh After Driver Profile Change" in the Enhanced Memory SPSS.

The FBMP Feature Settings Client (ex Centerstack Settings HMI Client module) shall save all FBMP settings the Feature Servers responds back with, regardless of what the PersIndex is set to for Enhanced Memory.

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- Note: some Feature Servers using FBMP don't support enhanced memory (or the FBMP SPSS). Since those
  features may not respond with a relevant PersIndex, the PersIndex shall be ignored by the FBMP Feature Setting
  Client.
- Note2: infotainment Feature Server modules supporting the infotainment FBMP SPSS, and not supporting Enhanced Memory, shall respond with PersIndex set to Vehicle per "FBMP-REQ-023037-PersIndex Definition".

For FBMP Feature Server modules that do support Enhanced Memory, when a FBMP Feature Server module is being Queried, it shall respond back with the settings/data for whatever PersIndex the FBMP Feature Client is Querying regardless what is the Active Personality (ActivePersonality\_St) for Enhanced Memory.

# 2.8 <u>VS-SR-REQ-425418/A-VIP - CCPU interface using the HMI Settings ID - Phoenix Architecture</u>

For the Phoenix architecture the HMI Settings ID will not only link the SPSS to the HMI but will link the VIP and CCPU interface for settings internal to the PDC.

To link to the CCPU – VIP interface for a particular setting in this spec the HMI settings ID will also be in the "Setting for Vehicle Interface Processor (VIP) in Integrated Cluster" spec. Reference the "Setting for Vehicle Interface Processor (VIP) in Integrated Cluster" for VIP / CCPU inter-processor communication for a particular setting. This includes the \_MC\_St and \_MC\_Cmd signals.



# 3 Functional Definition

# 3.1 Driver Assistance Settings

# 3.1.1 General Requirements - Driver Assistance Settings

#### 3.1.1.1 <u>VS-SR-REQ-234426/D-Driver Assistance Settings Start-Up</u>

Driver Assistance Settings shall be queried by the Centerstack Settings HMI Client when the Ignition\_Status changes from OFF/ACC to Run. See the FBMP SPSS for details on querying at start-up when ignition\_status changes to Run.

When Ignition\_Status changes from Run to OFF/ACC the infotainment Centerstack Driver Information Settings shall be considered unknown. The HMI should not show any settings selections when Driver Assistance Settings selection information is unknown.

#### 3.1.1.2 VS-SR-REQ-234435/C-HMI Activation during Run - Driver Assistance Settings

Settings in this Driver Assistance Settings Function/Section can only be selected on the HMI when the Ignition\_Status = Run.

#### 3.1.1.3 VS-SR-REQ-235185/B-Carryover Driver Information Assistance functionality

The Rear View Camera system interface and settings are defined in the "Rear View Camera SPSS".

#### 3.1.2 VS-FUN-REQ-232286/B-Cruise Control

#### 3.1.2.1 Requirements

#### 3.1.2.1.1 VS-SR-REQ-232245/I-Cruise Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Cruica Control Adoptive		0x00	Normal Cruise
Cruise Control - Adaptive Speed Control Auto Setting	0x081F	0x01	Adaptive Cruise
Setting		0x02	Intelligent

HMI Setting ID	
116	



#### 3.1.2.1.2 VS-SR-REQ-333002/C-Tolerance - Cruise Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	igent	0x00	-30
		0x01	-29
Talananaa Omiiaa		0x02	-28
Tolerance - Cruise Control Intelligent Adaptive Offset			
Adaptive Offset		0x3A	+28
		0x3B	+29
		0x3C	+30

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to Imperial (ex MPH) or Metric (ex Km/h) based on what the signal MetricActv\_B\_Actl is set to.

- When MetricActv B Actl = Inactive then MPH would be the unit shown in the HMI
- When MetricActv\_B\_Actl = Active then Km/h would be the unit shown in the HMI

Example if MetricActv\_B\_Actl = Active then 0x3C would represent +30 Km/h.

HMI Setting ID
117, 1007

#### 3.1.3 VSv2-FUN-REQ-332984/A-Cruise Control - Variant 2

Cruise Control "VS-FUN-REQ-232286-Cruise Control" variant 1 is mutually exclusive with the Cruise Control in this variant 2 function. Which version to use is handled via configurations.

#### 3.1.3.1 Requirements

#### 3.1.3.1.1 VSv2-SR-REQ-333001/A-Cruise Control - Variant 2

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Crusias Control Adoptive		0x00	Cruise Control
Cruise Control - Adaptive Speed Control Auto Setting	0x081F	0x01	Adaptive Cruise Control
Setting		0x02	Not Used

Note: for variant 1 of feature number 0x081F see requirement "VS-REQ-23245-Cruise Control".

SYNC Gen 4 Screen / ID HMI Number	HMI Setting ID
6b	1003

#### 3.1.3.1.2 VS-SR-REQ-333002/C-Tolerance - Cruise Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0860	0x00	-30
		0x01	-29
Tolerance - Cruise Control Intelligent Adaptive Offset		0x02	-28
		0x3A	+28
		0x3B	+29
		0x3C	+30

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to Imperial (ex MPH) or Metric (ex Km/h) based on what the signal MetricActv\_B\_Actl is set to.

- When MetricActv\_B\_Actl = Inactive then MPH would be the unit shown in the HMI
- When MetricActv\_B\_Actl = Active then Km/h would be the unit shown in the HMI

Example if MetricActv\_B\_Actl = Active then 0x3C would represent +30 Km/h.

HMI Setting ID		
117, 1007		



#### 3.1.3.1.3 VS-SR-REQ-333005/C-with Lane Centering

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptive Cruise Control		0x00	OFF / Disabled
with Lane Centering / Highway Drive Assist	0x0841	0x01	ON / Enabled

HMI Setting ID			
1004			

#### 3.1.3.1.4 VS-SR-REQ-333008/B-with Smart Offerings

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptive Cruise Control		0x00	OFF / Disabled
with Smart Offering	0x0842	0x01	ON / Enabled

HMI Setting ID		
1005		



#### 3.1.3.1.5 VS-SR-REQ-333009/C-with Speed Signs

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptive Cruise Control with Speed Signs / with		0x00	OFF / Disabled
Speed Sign Recognition / Predictive Speed Assist	0x0843	0x01	ON / Enabled

HMI Setting ID	
1006	

#### 3.1.4 VSv3-FUN-REQ-391926/A-Cruise Control - Variant 3

Note: at the time this Cruise Control Variant 3 was created this was a temporary/interim variant based off Cruise Control Variant 2 until the ADAS module supported Cruise Control Variant 2 in its entirety.

Differences from Variant 2 included adding Intelligent back into 0x081F and removing with Speed Signs. See HMI specs with the HMI rules for Cruise Control Variant 3.

#### 3.1.4.1 Requirements

#### 3.1.4.1.1 VS-SR-REQ-232245/I-Cruise Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Cruise Control - Adaptive Speed Control Auto Setting	0x081F	0x00	Normal Cruise
		0x01	Adaptive Cruise
		0x02	Intelligent

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HMI Setting ID	

116

#### 3.1.4.1.2 VS-SR-REQ-333002/C-Tolerance - Cruise Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0860	0x00	-30
		0x01	-29
Tolerance - Cruise Control Intelligent Adaptive Offset		0x02	-28
		0x3A	+28
		0x3B	+29
		0x3C	+30

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to Imperial (ex MPH) or Metric (ex Km/h) based on what the signal MetricActv\_B\_Actl is set to.

- When MetricActy B Actl = Inactive then MPH would be the unit shown in the HMI
- When MetricActv\_B\_Actl = Active then Km/h would be the unit shown in the HMI

Example if MetricActv\_B\_Actl = Active then 0x3C would represent +30 Km/h.

HMI Setting ID			
	117, 1007		

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#### 3.1.4.1.3 VS-SR-REQ-333005/C-with Lane Centering

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptive Cruise Control	0x0841	0x00	OFF / Disabled
with Lane Centering / Highway Drive Assist		0x01	ON / Enabled

HMI Setting ID			
1004			

#### 3.1.4.1.4 VS-SR-REQ-333008/B-with Smart Offerings

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptive Cruise Control with Smart Offering		0x00	OFF / Disabled
	0x0842	0x01	ON / Enabled

HMI Setting ID			
1005			



# 3.1.5 VS-FUN-REQ-232288/B-Speed Limiter

#### 3.1.5.1 Requirements

# 3.1.5.1.1 VS-SR-REQ-232284/H-Speed Limiter - Manual / Intelligent

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Speed Limiter	0x0D00	0x00	Manual Mode (Intelligent Offset OFF)
		0x01	Intelligent Mode (Intelligent Offset ON)

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
7	118

# 3.1.5.1.2 <u>VS-SR-REQ-332970/B-Speed Limiter - Intelligent Offset Tolerance</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	
	0x0D01	0x00	0 Tolerance / Intelligent Offset	
		0x01	+1 Tolerance / Intelligent Offset	
		0x02	+2 Tolerance / Intelligent Offset	
Intelligent Offset /		0x03	+3 Tolerance / Intelligent Offset	
Tolerance – Speed Limiter		OXODO I	0x04	+4 Tolerance / Intelligent Offset
		0x05	+5 Tolerance / Intelligent Offset	
		0x06	+6 Tolerance / Intelligent Offset	
		0x07	+7 Tolerance / Intelligent Offset	

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Ford	Ford Motor Company	Subsystem Part Specific Specification Engineering Specification		
		0x08	+8 Tolerance / Intelligent Offset	
		0x09	+9 Tolerance / Intelligent Offset	
		0x0A	+10 Tolerance / Intelligent Offset	

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to Imperial (ex MPH) or Metric (ex Km/h) based on what the signal MetricActv B Actl is set to.

- When MetricActv\_B\_Actl = Inactive then MPH would be the unit shown in the HMI
- When MetricActv B Actl = Active then Km/h would be the unit shown in the HMI

Example if MetricActv\_B\_Actl = Active then 0x01 would represent +1 Km/h Intelligent Offset.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
7 / 11	119	

# 3.1.6 VS-FUN-REQ-233809/B-Traffic Sign Recognition

Note: Traffic Sign Recognition and Speed Limit Information are mutually exclusive. See HMI spec for the configurations for the HMI.

#### 3.1.6.1 Requirements

3.1.6.1.1 <u>VS-SR-REQ-233812/E-Enable/Disable Traffic Sign Recognition / Speed Limit Information Feature</u>
For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Activate Traffic Sign Recognition / Speed		0x00	OFF / Disabled
Limit Information Customer Enable	0x0809	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12 (TSR) SYNC HMI supplement (SLI under TSR)	130

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3.1.6.1.2 <u>VS-SR-REQ-233914/F-Enable/Disable Speed Warning - Traffic Sign Recognition / Speed Limit Information</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Activate Speed Warning – Traffic		0x00	OFF / Disabled
Sign recognition / Speed Limit Information	0x080D	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12	131

## 3.1.6.1.3 <u>VS-SR-REQ-233813/D-Enable/Disable Speed Warning Chime - Traffic Sign Recognition</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Speed Warning Chime –	0x0830	0x00	OFF / Disabled
Traffic Sign Recognition		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
12	132	

3.1.6.1.4 <u>VS-SR-REQ-233862/K-Less Than Warning Threshold - (Traffic Sign Recognition / Speed Limit Information)</u> For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	n 0x080E	0x10	0 Tolerance / Intelligent Offset
		0x11	+1 Tolerance / Intelligent Offset
Less Than Warning		0x12	+2 Tolerance / Intelligent Offset
Threshold (ex less than		0x13	+3 Tolerance / Intelligent Offset
65 Km/h)			
		0x36	+38 Tolerance / Intelligent Offset
		0x37	+39 Tolerance / Intelligent Offset
		0x38	+40 Tolerance / Intelligent Offset

For this setting whether the display is in MPH or Km/h is not based on what Measure Units is set to but based on what the Traffic Sign Recognition / Speed Limit Information signal TsrVIUnitMsgTxt\_D\_Rq is set to. The TsrVIUnitMsgTxt\_D\_Rq signal is an event-periodic status signal and the status signal shall be used in Run to determine if the traffic sign recognition units are in Km/h or MPH.

• If the TsrVIUnitMsgTxt\_D\_Rq signal is missing for more than 5 seconds in Run then the traffic sign recognition units would be displayed in Km/h.

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to MPH or Km/h based on what the signal TsrVIUnitMsgTxt D Rg is set to.

- Example 1: if Km/h is selected then 0x12 would represent +2 Km/h Intelligent Offset.
- Example 2: If MPH is selected then 0x12 would represent +2 MPH Intelligent Offset.
- If 0x0 Null or 0x3 NoDataExists is selected, then the Centerstack Settings HMI Client shall use the last saved value of Km/h or MPH for units.

Signal Name	Encodings	Notes
TsrVIUnitMsgTxt_D_Rq	0x0 Null	
	0x01 Km/h	
	0x02 MPH	
	0x03 NoDataExists	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12 / 11 (TSR) SYNC HMI supplement (SLI under TSR)	133

#### 3.1.6.1.5 VS-SR-REQ-233867/K-Greater than Warning Threshold - Traffic Sign Recognition

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x10	0 Tolerance / Intelligent Offset
		0x11	+1 Tolerance / Intelligent Offset
Greater than Warning		0x12	+2 Tolerance / Intelligent Offset
Threshold (ex greater than 65 Km/h)	0x0811	0x13	+3 Tolerance / Intelligent Offset
than 65 Km/m	UXUOTT		
		0x36	+38 Tolerance / Intelligent Offset
		0x37	+39 Tolerance / Intelligent Offset
		0x38	+40 Tolerance / Intelligent Offset

For this setting whether the display is in MPH or Km/h is not based on what Measure Units is set to but based on what the Traffic Sign Recognition / Speed Limit Information signal TsrVIUnitMsgTxt\_D\_Rq is set to. The TsrVIUnitMsgTxt\_D\_Rq signal is an event-periodic status signal and the status signal shall be used in Run to determine if the traffic sign recognition units are in Km/h or MPH.

• If the TsrVIUnitMsgTxt\_D\_Rq signal is missing for more than 5 seconds in Run then the traffic sign recognition units would be displayed in Km/h.

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to MPH or Km/h based on what the signal TsrVIUnitMsgTxt\_D\_Rq is set to.

- Example 1: if Km/h is selected then 0x12 would represent +2 Km/h Intelligent Offset.
- Example 2: If MPH is selected then 0x12 would represent +2 MPH Intelligent Offset.
- If 0x0 Null or 0x3 NoDataExists is selected, then the Centerstack Settings HMI Client shall use the last saved value of Km/h or MPH for units.

Signal Name	Encodings	Notes
TsrVIUnitMsgTxt_D_Rq	0x0 Null	
	0x01 Km/h	
	0x02 MPH	
	0x03 NoDataExists	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12 / 11 (TSR) SYNC HMI supplement (SLI under TSR)	135 / 136



## 3.1.6.1.6 VS-SR-REQ-331385/A-Single Tolerance Warning Threshold - Traffic Sign Recognition / Speed Limit Information

When the HMI for Traffic Sign Recognition or Speed Limit information only has one tolerance setting in the HMI then:

- At start-up the Centerstack Settings HMI Client shall guery both 0x080E and 0x0811.
- At start-up when the Centerstack Settings HMI Client queries 0x080E and 0x0811 the only value looked at to update the HMI for single tolerance setting is 0x080E.
  - Note: at the time this spec was written the reason the Centerstack Settings HMI Client has to query both settings is because the HUD module will need to see both 0x080E and 0x0811.
- When selecting a tolerance setting the Centerstack Settings HMI Client shall perform the Feature.Rq Set operation for both 0x080E and 0x0811 set to the same value. The set operation shall be put on the CAN bus for both 0x080E and 0x0811 within 100 msec of each other.

Reference requirements "VS-REQ-233862-Less Than Warning Threshold" and "VS-REQ-VS-REQ-233867-Greater Than Warning Threshold" for details on feature numbers 0x0811 and 0x080E.

# 3.1.6.1.7 <u>VS-SR-REQ-251193/C-Traffic Sign Recognition Settings / Speed Limit Information HMI not user selectable</u> Overview:

The traffic sign recognition / speed limit information HMI settings are not selectable when either Intelligent Cruise Control or Intelligent Speed Limiter are active in the vehicle (activated on cruise control switch).

#### Requirement:

The table below describes what CAN signals to look at to decide when the traffic sign recognition / speed limit information settings HMI is not selectable. When the conditions in the table are true for a particular row then the traffic sign recognition / speed limit information settings HMI shall be not selectable. If none of the rows are true then the TSR / SLI Settings HMI shall be selectable.

Signals SLMde\_D\_Rqdsply and Aslicondsply\_D\_Rq are only applicable when Intelligent Speed Assist is configured enabled (see diagnostic spec for configuration, ex DE0X).

Signal laccLamp\_D\_Rq is only applicable when Intelligent Adaptive Cruise Control is configured enabled (see diagnostic spec for configuration, ex DE0X).

laccLamp_D_Rq	SLMde_D_Rqdsply	Aslicondsply_D_Rq	TSR Setting HMI
0x1 Displaylaccicon	N/A	N/A	TSR greyed out
N/A	0x1 Auto Speed_Limiter symbol	0x1 On-Passive	TSR greyed out
N/A	0x1 Auto Speed_Limiter symbol	0x2 On-Active	TSR greyed out
N/A	0x1 Auto Speed_Limiter symbol	0x3 Override	TSR greyed out

Note: when say TSR (traffic sign recognition) / SLI (speed limit information) greyed out the HMI team will decide how to show this (not necessarily greyed out but a way to show that TSR/SLI settings are not selectable). See HMI specs for details.

# 3.1.7 VS-FUN-REQ-272504/B-Speed Limit Information / Speed Sign Recognition

#### Note:

- Traffic Sign Recognition and Speed Limit Information / Speed Sign Recognition are mutually exclusive.
- Speed Limit Information and Speed Sign Recognition are two HMI names for the same feature. The names can be used interchangeably.



## 3.1.7.1 Requirements

3.1.7.1.1 <u>VS-SR-REQ-233812/E-Enable/Disable Traffic Sign Recognition / Speed Limit Information Feature</u>
For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Activate Traffic Sign Recognition / Speed		0x00	OFF / Disabled
Limit Information Customer Enable	0x0809	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12 (TSR) SYNC HMI supplement (SLI under TSR)	130

3.1.7.1.2 <u>VS-SR-REQ-233914/F-Enable/Disable Speed Warning - Traffic Sign Recognition / Speed Limit Information</u> For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Activate Speed Warning – Traffic		0x00	OFF / Disabled
Sign recognition / Speed Limit Information	0x080D	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12	131

3.1.7.1.3 <u>VS-SR-REQ-233862/K-Less Than Warning Threshold - (Traffic Sign Recognition / Speed Limit Information)</u>
For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x10	0 Tolerance / Intelligent Offset
		0x11	+1 Tolerance / Intelligent Offset
Less Than Warning		0x12	+2 Tolerance / Intelligent Offset
Threshold (ex less than	0x13	+3 Tolerance / Intelligent Offset	
65 Km/h)	) 0x080E		
		0x36	+38 Tolerance / Intelligent Offset
	0x37	+39 Tolerance / Intelligent Offset	
		0x38	+40 Tolerance / Intelligent Offset

For this setting whether the display is in MPH or Km/h is not based on what Measure Units is set to but based on what the Traffic Sign Recognition / Speed Limit Information signal TsrVIUnitMsgTxt\_D\_Rq is set to. The TsrVIUnitMsgTxt\_D\_Rq signal is an event-periodic status signal and the status signal shall be used in Run to determine if the traffic sign recognition units are in Km/h or MPH.

• If the TsrVIUnitMsgTxt\_D\_Rq signal is missing for more than 5 seconds in Run then the traffic sign recognition units would be displayed in Km/h.

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to MPH or Km/h based on what the signal TsrVIUnitMsgTxt\_D\_Rq is set to.

- Example 1: if Km/h is selected then 0x12 would represent +2 Km/h Intelligent Offset.
- Example 2: If MPH is selected then 0x12 would represent +2 MPH Intelligent Offset.
- If 0x0 Null or 0x3 NoDataExists is selected, then the Centerstack Settings HMI Client shall use the last saved value of Km/h or MPH for units.

Signal Name	Encodings	Notes
TsrVIUnitMsgTxt_D_Rq	0x0 Null	
	0x01 Km/h	
	0x02 MPH	
	0x03 NoDataExists	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12 / 11 (TSR) SYNC HMI supplement (SLI under TSR)	133



## 3.1.7.1.4 VS-SR-REQ-233867/K-Greater than Warning Threshold - Traffic Sign Recognition

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x10	0 Tolerance / Intelligent Offset
		0x11	+1 Tolerance / Intelligent Offset
Greater than Warning		0x12	+2 Tolerance / Intelligent Offset
Threshold (ex greater	00044	0x13	+3 Tolerance / Intelligent Offset
than 65 Km/m	than 65 Km/h) 0x0811		
		0x36	+38 Tolerance / Intelligent Offset
		0x37	+39 Tolerance / Intelligent Offset
		0x38	+40 Tolerance / Intelligent Offset

For this setting whether the display is in MPH or Km/h is not based on what Measure Units is set to but based on what the Traffic Sign Recognition / Speed Limit Information signal TsrVIUnitMsgTxt\_D\_Rq is set to. The TsrVIUnitMsgTxt\_D\_Rq signal is an event-periodic status signal and the status signal shall be used in Run to determine if the traffic sign recognition units are in Km/h or MPH.

• If the TsrVIUnitMsgTxt\_D\_Rq signal is missing for more than 5 seconds in Run then the traffic sign recognition units would be displayed in Km/h.

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to MPH or Km/h based on what the signal TsrVIUnitMsgTxt D Rg is set to.

- Example 1: if Km/h is selected then 0x12 would represent +2 Km/h Intelligent Offset.
- Example 2: If MPH is selected then 0x12 would represent +2 MPH Intelligent Offset.
- If 0x0 Null or 0x3 NoDataExists is selected, then the Centerstack Settings HMI Client shall use the last saved value of Km/h or MPH for units.

Signal Name	Encodings	Notes
TsrVIUnitMsgTxt_D_Rq	0x0 Null	
	0x01 Km/h	
	0x02 MPH	
	0x03 NoDataExists	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
12 / 11 (TSR) SYNC HMI supplement (SLI under TSR)	135 / 136

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## 3.1.7.1.5 VS-SR-REQ-331385/A-Single Tolerance Warning Threshold - Traffic Sign Recognition / Speed Limit Information

When the HMI for Traffic Sign Recognition or Speed Limit information only has one tolerance setting in the HMI then:

- At start-up the Centerstack Settings HMI Client shall guery both 0x080E and 0x0811.
- At start-up when the Centerstack Settings HMI Client queries 0x080E and 0x0811 the only value looked at to update the HMI for single tolerance setting is 0x080E.
  - Note: at the time this spec was written the reason the Centerstack Settings HMI Client has to query both settings is because the HUD module will need to see both 0x080E and 0x0811.
- When selecting a tolerance setting the Centerstack Settings HMI Client shall perform the Feature.Rq Set operation for both 0x080E and 0x0811 set to the same value. The set operation shall be put on the CAN bus for both 0x080E and 0x0811 within 100 msec of each other.

Reference requirements "<u>VS-REQ-233862-Less Than Warning Threshold</u>" and "<u>VS-REQ-VS-REQ-233867-Greater Than Warning Threshold</u>" for details on feature numbers 0x0811 and 0x080E.

# 3.1.7.1.6 <u>VS-SR-REQ-251193/C-Traffic Sign Recognition Settings / Speed Limit Information HMI not user selectable</u> Overview:

The traffic sign recognition / speed limit information HMI settings are not selectable when either Intelligent Cruise Control or Intelligent Speed Limiter are active in the vehicle (activated on cruise control switch).

#### Requirement:

The table below describes what CAN signals to look at to decide when the traffic sign recognition / speed limit information settings HMI is not selectable. When the conditions in the table are true for a particular row then the traffic sign recognition / speed limit information settings HMI shall be not selectable. If none of the rows are true then the TSR / SLI Settings HMI shall be selectable.

Signals SLMde\_D\_Rqdsply and Aslicondsply\_D\_Rq are only applicable when Intelligent Speed Assist is configured enabled (see diagnostic spec for configuration, ex DE0X).

Signal laccLamp\_D\_Rq is only applicable when Intelligent Adaptive Cruise Control is configured enabled (see diagnostic spec for configuration, ex DE0X).

laccLamp_D_Rq	SLMde_D_Rqdsply	Aslicondsply_D_Rq	TSR Setting HMI
0x1 Displaylaccicon	N/A	N/A	TSR greyed out
N/A	0x1 Auto Speed_Limiter symbol	0x1 On-Passive	TSR greyed out
N/A	0x1 Auto Speed_Limiter symbol	0x2 On-Active	TSR greyed out
N/A	0x1 Auto Speed_Limiter symbol	0x3 Override	TSR greyed out

Note: when say TSR (traffic sign recognition) / SLI (speed limit information) greyed out the HMI team will decide how to show this (not necessarily greyed out but a way to show that TSR/SLI settings are not selectable). See HMI specs for details.

# 3.1.8 VS-FUN-REQ-332901/B-Speed Limit - Variant 2 (variant 2 of TSR, SLI and Speed Limiter)

The functions "VS-FUN-233809-Traffic Sign Recognition", "VS-FUN-272504-Speed Limit Information / Speed Sign Recognition" and "VS-FUN-232288-Speed Limiter" are mutually exclusive with this Speed Limit function. This is handled via configurations.

#### 3.1.8.1 Requirements

# 3.1.8.1.1 <u>VSv2-SR-REQ-332978/B-Limiter with Speed Signs - Speed Limit</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Limiter with Speed Signs	0x0D00	0x00	OFF / Disabled
/ Intelligent Speed Assist	UXUDUU	0x01	ON / Enabled

Note: for variant 1 of this feature number 0x0D00 see SPSS requirement "<u>VS-REQ-232284-Speed Limiter – Manual /</u> Intelligent".

SYNC Gen 4 Screen / ID HMI Number	HMI Setting ID
170	1001

# 3.1.8.1.2 <u>VSv2-SR-REQ-332979/A-Speed Sign Warning - Speed Limit</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Speed Sign Worning	0.000D	0x00	OFF / Disabled
Speed Sign Warning	0x080D	0x01	ON / Enabled

Note: for variant 1 of this feature number 0x080D see SPSS requirement "VS-REQ-233914-Enable/Disable Speed Warning – Traffic Sign Recognition / Speed Limit Information".

SYNC Gen 4 Screen / ID HMI Number	HMI Setting ID
170	1000

# 3.1.8.1.3 <u>VSv2-SR-REQ-332980/B-Tolerance - Speed Limit</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	
		0x10	0 Tolerance	
		0x11	+1 Tolerance	
		0x12	+2 Tolerance	
Tolerance - Speed Limit 0x08	0x080E	0x13	+3 Tolerance	
		OXOGOL		
		0x36	+38 Tolerance	
		0x37	+39 Tolerance	
		0x38	+40 Tolerance	

Note: for variant 1 of this feature number 0x080E see SPSS requirement "VS-REQ-Less Than Warning Threshold – (Traffic Sign Recognition / Speed Limit Information)".

For this setting whether the display is in MPH or Km/h is not based on what Measure Units is set to but based on what the Traffic Sign Recognition / Speed Limit Information signal TsrVIUnitMsgTxt\_D\_Rq is set to. The TsrVIUnitMsgTxt\_D\_Rq signal is an event-periodic status signal and the status signal shall be used in Run to determine if the traffic sign recognition units are in Km/h or MPH.

• If the TsrVIUnitMsgTxt\_D\_Rq signal is missing for more than 5 seconds in Run then the traffic sign recognition units would be displayed in Km/h.

For the "HMI selection / Configuration name" column above the unitless values (ex +1 tolerance, +2 tolerance) shall be assigned to MPH or Km/h based on what the signal TsrVIUnitMsgTxt\_D\_Rq is set to.

- Example 1: if Km/h is selected then 0x12 would represent +2 Km/h Intelligent Offset.
- Example 2: If MPH is selected then 0x12 would represent +2 MPH Intelligent Offset.
- If 0x0 Null or 0x3 NoDataExists is selected, then the Centerstack Settings HMI Client shall use the last saved value of Km/h or MPH for units.

Signal Name	Encodings	Notes
TsrVIUnitMsgTxt_D_Rq	0x0 Null	
	0x01 Km/h	
	0x02 MPH	
	0x03 NoDataExists	

SYNC Gen 4 Screen / ID HMI Number	HMI Setting ID
170	1002



# 3.1.9 VS-FUN-REQ-232290/B-Lane Keeping System

#### 3.1.9.1 Requirements

## 3.1.9.1.1 VS-SR-REQ-232285/F-Lane Keeping Mode

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Lane Keeping Mode /		0x01	Alert Only / LDW
Lane Keeping Mode		0x02	Aid Only / LKA
Customer Enable	0x03	Aid & Alert / LDW + LKA	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
9B	120

## 3.1.9.1.2 VS-SR-REQ-233578/E-Lane Keeping Intensity

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	Undefined / Not Used
Lane Keeping Intensity / LDW Haptic	0x080B	0x01	Low
Intensity / LDW Haptic	0x02	Normal / Medium	
		0x03	High



SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
9C	121

# 3.1.9.1.3 VS-SR-REQ-233579/E-Lane Keeping Sensitivity

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	Configuration Name / HMI selection
Lane Keeping	0x0806	0x00	Normal / Level 1
Sensitivity		0x01	Increased / Level 2

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
9D	122

#### 3.1.9.1.4 VS-SR-REQ-271525/B-Lane Keeping Aid

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Lane Keeping Aid 0x087		0x00	Off
	0x0870	0x01	On
		0x02	Reduced / Basic
		0x03	Enhanced / Plus



SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
Reference SYNC HMI supplement for AID Lane Keeping System	123

# 3.1.9.1.5 <u>VS-SR-REQ-271526/B-Lane Keeping Alert</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Example Lane Keeping Alert HMI (see HMI documents for actual HMI).

Alert	0	High
	•	Normal
	0	Low
	0	On
	0	Off

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	OFF
Alert Lane Keeping	0x080B	0x01	Low
Intensity / LDW Haptic Intensity	0.0000	0x02	Normal / Medium / ON
,		0x03	High

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
Reference SYNC HMI supplement for Alert LDW	124

## 3.1.10 VS-FUN-REQ-233569/B-Pre-Collision Assist

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## 3.1.10.1 Requirements

## 3.1.10.1.1 <u>VS-SR-REQ-239185/F-Pre-Collision Assist function - Enable / Disable</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Pre-Collision Assist ON/OFF –	0x0804	0x00	Disabled / FCW_OFF	Yes
FCW ON/OFF	0x0604	0x01	Enabled / FCW_ON	165

The Pre-Collision Assist ON/OFF setting menu selection is not shown in the HMI when a MyKey is used

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
10	125

## 3.1.10.1.2 VS-SR-REQ-233571/H-Distance Indication - Pre-Collision Assist

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Distance Indication / Forward Distance	0x080F	0x00	OFF / FDA_OFF	Yes
Alerts_ON/OFF	UXUOUF	0x01	ON / FDA_ON	165

The Distance Indication ON/OFF setting menu selection is not shown in the HMI when a MyKey is used

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
10	126

## 3.1.10.1.3 VS-SR-REQ-233575/G-Active Braking - Pre-Collision Assist

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Active Braking / FCW_BrakingOnOFF	0.0040	0x00	OFF / FCW_BrakingOFF	
	0x0840	0x01	ON / FCW BrakingOn	No

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
10	127

#### 3.1.10.1.4 VS-SR-REQ-233576/H-Emergency Steering - Pre-Collision Assist

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Evasive Steering /	0x0D50	0x00	OFF / Disabled	No
Emergency Steering	0x0D50	0x01	ON / Enabled	INO

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
10	128

## 3.1.10.1.5 VS-SR-REQ-233577/I-Warning Sensitivity - Pre-Collision Assist

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature	Feature	Configuration	HMI selection /	HMI MyKey Limited
Description	Number	Number	Configuration Name	Yes/No



		0x00	Not Used	
Warning Sensitivity / FCW	0,0000	0x01	Low / FCW_Sensitivity_1	No
Sensitivity / Alert Sensitivity	0x0802	0x02	Normal / FCW_Sensitivity_2	No
		0x03	High / FCW_Sensitivity_3	

Note: at the time this spec was written when a MyKey is used the Warning Sensitivity sets its default (see FCW specs for details). The MyKey user can still change the setting from the default. This has no effect on the Centerstack Setting HMI client since the default value is gueried at start-up when the MyKey is turned to Run.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
10 / 10B	129

# 3.1.11 VS-FUN-REQ-233942/A-Blindspot Detection

### 3.1.11.1 Requirements

## 3.1.11.1.1 <u>VS-SR-REQ-233944/E-Blindspot Detection (vehicle - non-trailer)</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Blind Spot	0x0920	0x00	OFF / Disabled	Yes
Detection	0x0920	0x01	ON / Enabled	165

There is no HMI shown for this setting when a MyKey is used.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	299

## 3.1.11.1.2 VS-SR-REQ-233945/C-Trailer Blindspot Detection

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Trailer Blind Spot		0x00	OFF / Disabled	Yes
Detection	0x0921	0x01	ON / Enabled	165

There is no HMI shown for this setting when a MyKey is used.

SYNC Gen 3 Screen / ID HMI Number		
2		

#### 3.1.12 VS-FUN-REQ-273589/A-BTT Light (Blind Spot Trailer Tow)

#### 3.1.12.1 Requirements

## 3.1.12.1.1 VS-SR-REQ-273590/B-Active Trailer Setting - BTT Lite

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

This is used by the Centerstack Settings HMI Client to tell the BTT Lite Server via a Feature.Rq set command that a trailer was selected or that no active trailer was selected. The BTT Lite Server would respond back with the Feature.St response and the Centerstack Settings HMI Client would update its HMI based on this.

The Centerstack Settings HMI Client will know the active trailer setting at start-up when the Centerstack Settings HMI Client queries the BTT Lite Server.

The BTT Lite Server shall send any update to the active trailer to the Centerstack Settings HMI Client via the Feature.St message.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trailer Active (BTT Lite)	0x0930	0x00	None / No Active Trailer
		0x01	Trailer A Active
		0x02	Trailer B Active
		0x03	Trailer C Active

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
42, 48, 47	147

#### 3.1.12.1.2 VS-SR-REQ-273689/D-Trailer Length - BTT Lite

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Trailer A/B/C Length Feature.Rq is used by the Centerstack HMI Client to tell the BTT Lite Server via a Feature.Rq Set command what trailer length was selected (or faulty) and the BTT Lite server shall respond with the Feature.St with the updated trailer length (or faulty) setting.

The Centerstack Setting HMI Client will know at start-up the following when the Centerstack Settings HMI Client queries the BTT Lite Server:

- The Trailer Lengths
- Whether a particular trailer has not been set-up
- Whether a particular trailer is faulty (Trailer doesn't meet size requirements)

If when editing the trailer length the trailer does not meet trailer length size requirement then:

- 1. The Centerstack HMI Client shall set Feature.Rq config equal to "Faulty" in the Feature.Rq Set command, and
- 2. The BTT Lite Server shall respond with the Feature.St Cofiguration set to "Faulty"

Note: See HMI spec for whether the Centerstack HMI Client selects the trailer with invalid trailer length (ie 0x0930). If says select as active trailer then the faulty trailer (invalid trailer size) shall be made active.

If in trailer length edit mode after entering the trailer length once the BTT Lite Server responds back with the Feature.St for length if the trailer that was being edited needs to be automatically selected/activated without user input (this will be noted in the HMI if the edited length trailer should become the active trailer) then:

- 1. the Centerstack Settings HMI Client shall send a Feature.Rq Set command "Trailer Active (feature # 0x0930)" for the trailer that was being edited, and then
- 2. the BTT Lite Server shall respond back with the Feature.St with the active trailer.

Note: For SYNC Gen 3 steps 1 and 2 above are done when:

- a. Get a pop-up to edit the trailer length (SYNC screen number 48)
- b. Select a trailer setting length that is not set-up on the "select trailer" HMI screen (SYNC screen number 42)
- c. Note: The active trailer is not automatically selected if the user changes trailer length from the "Change Trailer Length" HMI screen (SYNC screen number 43)
- See SYNC HMI for the latest. If SYNC HMI and SPSS contradict follow the HMI and bring issue of conflict to Ford's attention

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trailer A Length (BTT Lite)		0x00	0.1 meters 0.0 meters
	0x0931	0x01	0.2 meters 0.1 meters
		0x02	0.3 meters 0.2 meters



	0x7D	12.5 meters
	0x7E	Trailer A Length not set-up / No Data Exists
	0x7F	Faulty (Trailer doesn't meet size requirements)

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0932	0x00	0.1 meters 0.0 meters
		0x01	0.2 meters 0.1 meters
Trailer B Length (BTT Lite)		0x02	0.3 meters 0.2 meters
		0x7D	12.5 meters
		0x7E	Trailer B Length not set-up / No Data Exists
		0x7F	Faulty (Trailer doesn't meet size requirements)

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0933	0x00	0.1 meters 0.0 meters
		0x01	0.2 meters 0.1 meters
Trailer C Length (BTT Lite)		0x02	0.3 meters 0.2 meters
			0x7D
		No Data Exis  Ox7E  Faulty (Trailer does	Trailer C Length not set-up / No Data Exists
			Faulty (Trailer doesn't meet size requirements)

Whether the trailer lengths are in Imperial (ie Feet) or Metric (ex Meters) is based on what the Measure Units is set to. See <u>VS-SR-REQ-234039-Measure Units</u> for details.

- If the units are imperial then the Centerstack HMI Client will have to round the imperial value (feet) received to the closest metric length equivalent.
  - o Ex. HMI the user selects 6ft on the HMI. When converted to metric that is 1.8288 meters. For Trailer A/B/C Length the configuration encoding would be rounded to 1.8 meters.

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SYNC Gen 3 Screen / ID HMI Number	SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
For Trailer Length set- up	For Faulty pop-up / Send Faulty setting	
46	45	148

#### 3.1.12.1.3 VS-SR-REQ-273980/D-Pop-up Trailer Set-up Request - BTT Lite

The Centerstack Settings HMI Client shall initiate a BTT Lite trailer pop-up when BttLeft\_D\_RqDrv changes to Request OR BttRight\_D\_RqDrv changes to Request AND Ignition\_Status = Run.

- If a pop-up event occurs as defined above at start-up when all the settings feature ID's are being queried (ignition = OFF → Run) and the feature numbers 0x930, 0x931, 0x932 and 0x933 have not yet been queried then:
  - o The pop-up shall not be shown until feature numbers 0x930, 0x931, 0x932 and 0x933 have all been queried.
  - o the next feature numbers to be queried are 0x930, 0x931, 0x932 and 0x933. This means that these feature numbers will jump ahead off all other feature numbers and be queried next. Once queried the BTT Lite trailer pop-up can be shown.

The Centerstack HMI Client shall not initiate the BTT Lite trailer pop-up when BttLeft\_D\_RqDrv does not equal Request AND BttRight\_D\_RqDrv does not equal Request.

The Centerstack HMI client shall close any active BTT Lite trailer pop-up when:

- BttLeft\_D\_RqDrv != Request AND BttRight\_D\_RqDrv != Request, OR
- The HMI specification calls out closing the pop-up (ex press button on pop-up, speed limited etc)

If Ignition\_Status does not equal Run/Crank then the Centerstack HMI Client shall not show the BTT Lite pop-up.

See HMI specs for driver distraction requirements for BTT Lite.

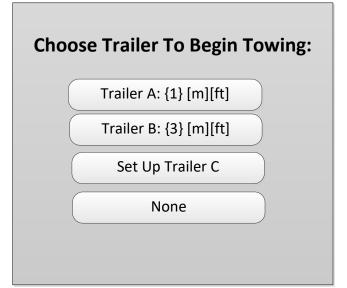
- Ex. If the pop-up is shown and the vehicle speed increase above the limit for driver distraction the pop-up shall not be shown.
  - Note: If vehicle slows back down to below the limit for driver distraction (make sure hysteresis protection is added in) and BTTLeft\_D\_RqDrv or BTTRight\_D\_RqDrv equals Active then show the pop-up again.

## Note (informational only - not to design to):

One or both of the BTTRight\_D\_RqDrv / BTTLeft\_D\_RqDrv signals are typically set to "Request" when a trailer is connected that wasn't connected on the previous ignition cycle.

Example BTT Lite pop-up HMI (see HMI spec for actual HMI)





SYNC Gen 3 Screen / ID HMI Number

# 3.1.12.1.4 MD-REQ-274072/C-BTTLeft\_D\_RqDrv

Message Type: Request

BTT Lite (Blind spot Trailer Tow Lite) left side detection signal sent to tell if the BTT Lite pop-up should be shown in the Centerstack HMI

Logical Signal Name	Literals	Value	Description
BttLeft_D_RqDrv	Null	0x0	
	No Request	0x1	
	Request	0x2	Used for pop-up
	Not Used	0x3	

## 3.1.12.1.5 MD-REQ-274073/C-BTTRight\_D\_RqDrv

Message Type: Request

BTT Lite (Blind spot Trailer Tow Lite) right side detection signal sent to tell if the BTT Lite pop-up should be shown in the Centerstack HMI

Logical Signal Name	Literals	Value	Description
BttRight_D_RqDrv	Null	0x0	
	No Request	0x1	
	Request	0x2	Used for pop-up
	Not Used	0x3	

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## 3.1.13 VS-FUN-REQ-233946/A-Cross Traffic Alert

## 3.1.13.1 Requirements

## 3.1.13.1.1 VS-SR-REQ-233948/D-Cross Traffic Alert

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Cross Troffic Alort	0,,0022	0x00	OFF / Disabled	Yes
Cross Traffic Alert	0x0922	0x01	ON / Enabled	res

There is no HMI shown for this setting when a MyKey is used.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	149

## 3.1.14 VS-FUN-REQ-233949/A-Wrong Way Alert

# 3.1.14.1 Requirements

## 3.1.14.1.1 <u>VS-SR-REQ-233951/D-Wrong Way Alert</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Wrong Woy Alort	0,0050	0x00	OFF / Disabled
Wrong Way Alert	0x0850	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	150

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#### 3.1.15 VS-FUN-REQ-234013/A-Driver Alert

#### 3.1.15.1 Requirements

## 3.1.15.1.1 VS-SR-REQ-234015/D-Driver Alert

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Driver Alert / DAS Customer Enable	0x0808	0x00	OFF / Disabled
	0x0606	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	152

## 3.1.16 VS-FUN-REQ-234026/B-Trailer Sway

## 3.1.16.1 Requirements

#### 3.1.16.1.1 <u>VS-SR-REQ-234028/E-Trailer Sway</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trailer Sway 0x0E00	0x00	OFF / Disabled	
	0x0E00	0x01	ON / Enabled

HMI Setting ID		
153		

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#### 3.1.17 VS-FUN-REQ-234029/B-Park Aid

## 3.1.17.1 Requirements

## 3.1.17.1.1 VS-SR-REQ-234031/F-Park Aid (not long term)

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Park Aid ( <del>Reverse</del>	0,,0050	0x00	OFF / Disabled	Yes
Park Aid)	0x0950	0x01	ON / Enabled	res

There is no HMI shown for this setting when a MyKey is used.

Note: verify with HMI team if this is correct. This is probably the short term park aid setting that is only shown for one ignition cycle

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	155

## 3.1.18 VS-FUN-REQ-312390/A-Long Term Park Aid Disable

#### 3.1.18.1 Requirements

#### 3.1.18.1.1 VS-SR-REQ-312391/A-Long Term Park Aid Disable

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Front Park Aid Long Term	0v0052	0x00	OFF / Disable Switch
<u>Disable</u>	0x0952	0x01	ON / Enable Switch

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
64	301

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Rear Park Aid Long Term Disable	0x0951	0x00	OFF / Disable Switch
	0x0951	0x01	ON / Enable Switch

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
64	300

#### 3.1.19 VS-FUN-REQ-239157/B-Traction Control

## 3.1.19.1 Requirements

#### 3.1.19.1.1 VS-SR-REQ-239158/F-Traction Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes / No
Traction Control	0v0E01	0x00	OFF / Disabled	Yes
Traction Control 0x0E01		0x01	ON / Enabled	165

## MyKey Limited Setting:

- Traction Control can only be adjusted by a MyKey user when admin user has selected "Selectable" for the MyKey user from the MyKey Settings HMI menu.
  - See MyKey Settings in the Centerstack SPSS for details on the CAN status signals to look at
- There shall be no Traction Control setting HMI for the MyKey user when the admin user selects "Traction Control Always ON" for the MyKey user from the MyKey Settings HMI menu.
  - o See MyKey Settings in the Centerstack SPSS for details on the CAN status signals to look at

Note: if there is AdvanceTrac setting in place of Traction Control setting then AdvanceTrac would use the same feature number as above

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	221, 222

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#### 3.1.20 VS-FUN-REQ-239159/B-Hill Decent Control

#### 3.1.20.1 Requirements

## 3.1.20.1.1 VS-SR-REQ-239160/C-Hill Decent Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Hill Decent Control	0x0E02	0x00	OFF / Disabled
Hill Decent Control	UXULUZ	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	223

#### 3.1.21 VS-FUN-REQ-234003/A-Hill Start Assist

#### 3.1.21.1 Requirements

#### 3.1.21.1.1 VS-SR-REQ-234005/D-Hill Start Assist

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Lill Ctort Againt		0x00	OFF / Disabled
Hill Start Assist	0x0E03	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	151

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#### 3.1.22 VS-FUN-REQ-239163/A-Tow Haul

#### 3.1.22.1 Requirements

## 3.1.22.1.1 VS-SR-REQ-239164/E-Tow Haul

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	OFF / Disabled
Tow Haul	0x0D02	0x01	ON / Enabled
	0x02	Automatic	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2/39	224

#### 3.1.23 VS-FUN-REQ-242438/C-EV+ Mode

# 3.1.23.1 Requirements

## 3.1.23.1.1 <u>VS-SR-REQ-242439/B-EV+ Mode</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
EV+ Mode	0,0007	<del>0x00</del>	OFF / Disabled
EV+ Mode 0x0907	<del>0x01</del>	ON / Enabled	



SYNC Gen 3 Screen / ID HMI Number		
2		

#### 3.1.24 VS-FUN-REQ-272332/A-Grade Assist

## 3.1.24.1 Requirements

#### 3.1.24.1.1 VS-SR-REQ-272333/B-Grade Assist

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Grade Assist		0x00	OFF / Disabled
Grade Assist	0x0D04	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
2	154

#### 3.1.25 VS-FUN-REQ-273582/B-Engine Start/Stop Speed Threshold (Auto Start/Stop Speed Threshold)

#### 3.1.25.1 Requirements

## 3.1.25.1.1 VS-SR-REQ-273583/C-Engine Start/Stop Speed Threshold (Auto StartStop Speed Threshold)

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature	Configuration	HMI selection /
	Number	Number	Configuration Name
Engine Start/Stop Speed Threshold	0x0D05	0x00	Undefined / Not Used / Off

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(Auto Start/Stop Speed Threshold)	0x01	Low
HEV Boost	0x02	Medium
Sensitivity /Engine Start Stop Speed Threshold – (Mile Hybrids 48V)	0x03	High

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
40	226

## 3.1.26 VS-FUN-REQ-280534/A-Drive Control (Selectable Drive Mode)

Note: Drive Control and Adaptive Steering are mutually exclusive (use some of the same feature numbers).

#### 3.1.26.1 Requirements

3.1.26.1.1 <u>VS-SR-REQ-280535/D-Handling in Drive / Drive Control manual transmission / Driver Select Transmission</u> For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Gear in Drive – Continuously Controlled	0x0B00	0x00	No Mode Selected
<u>Damping</u>		0x01	Comfort
(Handling in Drive /	0.0000	0x02	Normal
Handling with Manual Transmission)		0x03	Sport

**Req**: this shall be used for the handling HMI that doesn't show Drive or Sport for certain configurations.

• Ex when used (see HMI spec for actual HMI):

Drive Control	submenu
comfort	radial
normal	radial
sport	radial

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
78	231

OR,

Driver Select Suspension	
Sport	radial
Normal	radial
Comfort	radial

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
105	238

The two HMI's above would be handled by configurations

Note: see HMI settings ID to see the actual HMI. Above was just for an example for reference only

Req: this shall be used for the Handling HMI that shows gear in Drive for certain configurations.

• Ex when used (see HMI spec for actual HMI):

Drive Control	submenu
Handling in D	submenu
comfort	radial
normal	radial
sport	radial

Note: see HMI settings ID to see the actual HMI. Above was just for an example for reference only

The different HMI's above and which to use would be covered by the configurations in the HMI spec.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
75	228



## 3.1.26.1.2 VS-SR-REQ-281380/B-Handling in Sport - Drive Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
0		0x00	No Mode Selected
Gear in Sport – Continuously Controlled	0v0D04	0x01	Comfort
<u>Damping</u> (Handling in Sport)	0x0B01	0x02	Normal
trianding in oporty		0x03	Sport

Req: this shall be used for the Handling HMI that shows gear in Sport.

• Ex when used (see HMI spec for actual HMI):

(ccc : min spec :c: detadi : min):	
Drive Control	submenu
Handling in S	submenu
normal	radial
sport	radial

Note: see HMI setting ID to see the actual HMI. Above in an example for reference only

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
76	229

# 3.1.26.1.3 VS-SR-REQ-281381/B-Performance in Sport - Drive Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Performance in Sport – Continuously Controlled	0x0D07	0x00	No Mode Selected
<u>Damping</u>		0x01	Comfort

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Ford	Ford Motor Company		Subsystem Part Specific S Engineering S	pecification pecification
		0x02	Normal	
		0x03	Sport	

**Req**: this shall be used for the performance HMI that shows gear in.

• Ex when used (see HMI spec for actual HMI):

Drive Control	submenu
Performance in S	submenu
normal	radial
sport	radial

Note: see HMI setting ID to see the actual HMI. Above was just for an example for reference only

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
77	230

## 3.1.27 VS-FUN-REQ-280532/A-Adaptive Steering

Note: Drive Control and Adaptive Steering are mutually exclusive (use some of the same feature numbers).

# 3.1.27.1 Requirements

3.1.27.1.1 <u>VS-SR-REQ-280533/B-Steering in Drive / Steering with Manual Transmission - Adaptive Steering</u>
For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Steering in Drive / Steering with Manual Transmission	0x0B00	0x00	No Mode Selected
		0x01	Comfort
		0x02	Normal
		0x03	Sport

Req: this shall be used for the HMI that doesn't show Drive or Sport.

• Ex when used (see HMI spec for actual HMI):

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Adaptive steering	submenu
normal	radial
sport	radial

Note: see HMI settings ID to see the actual HMI. Above was just for an example

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
82	235

**Req**: this shall be used for the steering HMI that shows gear in Drive.

• Ex when used (see HMI spec for actual HMI):

Adaptive steering	submenu	
Steering in D	submenu	
comfort	radial	
normal	radial	
sport	radial	

Note: see HMI settings ID to see the actual HMI. Above was just for an example

The HMI's above regarding what to use would be handled by the configurations in the HMI spec.

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
80	233

## 3.1.27.1.2 VS-SR-REQ-280548/B-Steering in Sport - Adaptive Steering

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature	Configuration	HMI selection / Configuration
	Number	Number	Name
Steering in Sport	0x0B01	0x00	No Mode Selected

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ird	Ford Motor Company	Subsystem Part Specific Spe Engineering Spe		
		0x01	Comfort	
		0x02	Normal	
		0x03	Sport	

Req: this shall be used for the steering HMI that shows gear in Sport.

• Ex when used (see HMI spec for actual HMI):

Adaptive steering	submenu
Steering in S	submenu
normal	radial
sport	radial

Note: see HMI setting ID to see actual HMI. Above was just for an example for reference

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
79, 81	234

## 3.1.27.1.3 VS-SR-REQ-280549/B-Adaptive Steering

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptive Steering	0x0B02	0x00	OFF / Disabled
Adaptive Steering		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
79, 82	236, 237



# 3.2 General Settings

## 3.2.1 General Requirements - General Settings

#### 3.2.1.1 VS-SR-REQ-234428/F-General Settings at Start-up

General Settings shall be queried by the Centerstack Settings HMI Client when the Ignition\_Status changes from OFF/ACC to Run. See the FBMP SPSS for details on querying at start-up when ignition\_status changes to Run.

When Ignition\_Status changes from Run to OFF/ACC the infotainment Centerstack <u>Driver Information General Settings</u> <u>defined in this General Settings section</u> shall be considered unknown. The HMI should not show any <u>General Settings HMI selections when <u>Driver Assistance General Settings</u> selection information is unknown. <u>In the General Settings HMI for Settings not defined in Settings in the Centerstack SPSS reference the HMI for whether these settings can be shown or not when ignition status does not equal Run.</u></u>

#### 3.2.1.2 VS-SR-REQ-259080/A-HMI Activation during Run - General Settings

Settings in General Settings Function/Section (not necessarily applicable to carryover functionality not covered in this spec) can only be selected on the HMI when the Ignition\_Status = Run.

#### 3.2.1.3 VS-SR-REQ-232109/J-Carryover General Settings functionality from the Vehicle Settings SPSS

The functions in the "General Settings" section of this Settings in the Centerstack SPSS specification are only for the general setting items not already covered in the Vehicle Settings (Global) SPSS or some other specification.

The feature/function defined in the Vehicle Settings SPSS shall still be followed and all the requirements in the Vehicle Settings SPSS still apply unless noted otherwise. This includes but is not limited to:

- 1. 12/24 hour mode
- 2. Language selection
- 3. Distance Units (this is only if the HMI has two choices such as "Imperial" and "Metric").
  - a. If the HMI has three choices such as "1/100 km", "km/I" and "Miles & Gallons" then use the system interface described in the Measure Units function in this specification.
- 4. Beep Settings
- Master Reset
- 6. Temperature Units
- 7. Valet Mode settings

If there is no menu in the Cluster for these general settings which are in the Vehicle Settings SPSS (ex distance units, temperature units, language...) and the settings menu is only in the Centerstack all the internal requirements from the Vehicle Settings SPSS for the Cluster still apply. This would mean the Cluster would remain the feature server if it was already the server in the Vehicle Settings SPSS.

For example if the Cluster is the Temperature Units server in the vehicle settings SPSS then it would still be the
Temperature Units server without the menu in the Cluster. The Centerstack module (ex SYNC) would still request
the temperature unit setting from the Cluster and the Cluster would respond as defined in the Vehicle Settings SPSS.

#### 3.2.2 VS-FUN-REQ-234033/B-Tire Pressure Units

#### 3.2.2.1 Requirements

#### 3.2.2.1.1 VS-SR-REQ-234035/E-Tire Pressure Unit

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	psi
Tire Pressure Unit	0x0908	0x01	kPa
		0x02	bar

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
34	104

#### 3.2.3 VS-FUN-REQ-234037/B-Measure Units

#### 3.2.3.1 Requirements

#### 3.2.3.1.1 <u>VS-SR-REQ-234039/M-Measure Units</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Measure Units 0x0901		0x00	Miles and Gallons / BEV: Miles and kWh (mi/kWh)
	0v0001	0x01	Miles and Gallons (UK only) / BEV: Miles and kWh (mi/kWh) (UK only)
	0x0901	0x02	Liter/100 km / BEV: km and kWh (kWh/100km)
		0x03	km/Liter / BEV: km and kWH (km/kWh)

If the Measure Units HMI supports a BEV (Battery Electric Vehicle) HMI (ex no Gallons or Liters shown) than the "BEV" units values shall be used above for feature number 0x0901.

When the Miles and Gallons HMI is selected the Centerstack Settings HMI Client shall send 0x00 Miles and Gallons to the Measure Units Feature Settings Server.

• The "0x01 Miles and Gallons (UK only) / BEV: Miles and kWh (mi/kWh) (UK only)" this will not be sent by the Centerstack Settings HMI Client when the Miles and Gallons HMI is selected by the user.

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• The Feature Settings Server may respond back to Feature.Rq(Configuration = 0x0 Miles and Gallons / BEV: Miles and kWh (mi/kWh)) with either Feature.St(Configuration = 0x00 or 0x01) and the Centerstack Settings HMI Client shall treat them the same and update the Miles and Gallons HMI / BEV HMI for either response.

Unless noted otherwise what is set in Feature Number 0x0901 or Disp\_Miles\_Kilometers.St\_will be used by other Settings features with distance units (ex miles or kilometers) in this specification to display those HMI settings as Metric or Imperial units. Speed settings are not covered by Measure Units unless noted otherwise.

- "Miles and Gallons / BEV: Miles and kWh (mi/kWh)" set to "Imperial Distance Units for HMI"
- "Liter/100 km / BEV: km and kWh (kWh/100km)" or "km/Liter / BEV: km and kWH (km/kWh)" set to "Metric Distance units for HMI"
- Note: at system start-up it might take a while to query the Feature Number 0x0901. If distance units is needed before 0x0901 is queried then use Disp Miles Kilometers. St for distance units.

When the Cluster Measure Units feature server responds back to the Feature.Rq signal with the updated FBMP Feature.St signal the Cluster shall also update the non-FBMP Disp\_Miles\_Kilometers.st CAN Distance status signal below from the Vehicle Settings SPSS.

- "Miles and Gallons / BEV: Miles and kWh (mi/kWh)" set to "Imperial"
- "Liter/100 km / BEV: km and kWh (kWh/100km)" or "km/Liter / BEV: km and kWH (km/kWh)" set to "Metric"

# MD-REQ-025451-Disp\_Miles\_Kilometers.St (TcSE ROIN-297373)

Message Type: Status

Status update from the Vehicle Settings Server stating what the setting is for Distance units (from the Vehicle Settings SPSS)

Name	Literals	Value	Description
Mode	-	-	
	Inactive	int <i>Mode</i> 0x0: Metric (Kilometers) 0x1: Imperial (Miles)	Status update from the Vehicle settings server stating what the setting is for Distance units.

#### Note:

- When Distance Units Setting HMI is "Metric" or "Imperial" use the interface defined in the Vehicle Settings (Global) SPSS.
- When Unit Settings HMI is "Miles & Gallon", or "KM & Liters (Liter/100km)", or "Km & Liters (km/liter)" then use the interface described in this requirement.

HMI Settings ID			
102			



# 3.3 Vehicle Settings

# 3.3.1 General Requirements - Vehicle Settings

## 3.3.1.1 <u>VS-SR-REQ-234430/D-Vehicle Settings Start-Up</u>

The functions in this Vehicle Settings section shall be queried by the Centerstack Settings HMI Client when the Ignition\_Status changes from OFF/ACC to Run. See the FBMP SPSS for details on querying at start-up when ignition\_status changes to Run.

When Ignition\_Status changes from Run to OFF/ACC the infotainment Centerstack Vehicle Settings shall be considered unknown. The HMI should not show any settings selections when Vehicle Settings selection information is unknown.

# 3.3.1.2 VS-SR-REQ-234434/C-HMI Activation during Run - Vehicle Settings

The functions listed in the Vehicle Settings section (not necessarily applicable to carryover functionality not covered in this spec) can only be selected on the HMI when the Ignition\_Status = Run.

## 3.3.1.3 VS-SR-REQ-234431/D-Carryover Vehicle Settings functionality in Vehicle Settings SPSS

The functions in the "Vehicle Settings" section of this Settings in the Centerstack SPSS specification are only for the items not already covered in the Vehicle Settings (Global) SPSS or other Centerstack Feature SPSS specifications.

The feature/function defined in the Vehicle Settings SPSS shall still be followed and all the requirements in the Vehicle Settings SPSS still apply unless noted otherwise. This includes but is not limited to:

- 1. Charge Port Light Ring setting
- 2. Charge Cord Unlock setting
- 3. Door KeyCode
- 4. Ambient Lighting

See Vehicle Setting SPSS, HMI spec, or other Centerstack Feature SPSS specifications for whether these carryover features not covered in this Settings in the Centerstack specification can be selected when ignition does not equal Run.

# 3.3.2 VS-FUN-REQ-234059/B-Auto Engine OFF / 30min Max Idle

#### 3.3.2.1 Requirements

## 3.3.2.1.1 VS-SR-REQ-234061/F-Auto Engine OFF / 30 min max idle

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Engino OFF	Auto Engine OFF 0x0D03 -	0x00	OFF / Disabled
Auto Engine OFF		0x01	ON / Enabled

Note: may also be called "30 min Max idle". See HMI documents for actual name

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	156

#### 3.3.3 VS-FUN-REQ-234233/A-Park Lock Control

# 3.3.3.1 Requirements

#### 3.3.3.1.1 VS-SR-REQ-234235/D-Park Lock Control

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Park Lock Control (electronic BTSI	0x0414	0x00	OFF / Disabled
Manual Override)		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	160

## 3.3.4 VS-FUN-REQ-234236/A-Silent Mode

#### 3.3.4.1 Requirements

# 3.3.4.1.1 <u>VS-SR-REQ-234238/D-Silent Mode</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Cilont Mode	Silent Mode 0x0418	0x00	OFF / Disabled
Silerit Mode		0x01	ON / Enabled

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	161

#### 3.3.5 VS-FUN-REQ-234283/A-Alarm

# 3.3.5.1 Requirements

# 3.3.5.1.1 <u>VS-SR-REQ-234285/D-Ask on Exit - Alarm</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Ask on Exit – 0x0-	0v0410	0x00	0x00 OFF / Disabled
	0x041C	0x01	0x01 ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13 / 14	162

# 3.3.5.1.2 <u>VS-SR-REQ-234286/D-Sensor Set - Alarm</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Sensor Set 0x041D	0x00	All Sensors Active / Full Guard	
	0x01	Perimeter Sensing / Reduced Guard	

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Feature Description	<u>Feature</u> <u>Number</u>	Configuration Number	<u>HMI selection /</u> <u>Configuration Name</u>
Motion Songers	<u>0x041D</u>	<u>0x00</u>	<u>ON</u>
Motion Sensors		<u>0x01</u>	<u>OFF</u>

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
14b	163

#### 3.3.6 VS-FUN-REQ-234287/A-Chimes

# 3.3.6.1 Requirements

## 3.3.6.1.1 VS-SR-REQ-234289/C-Park Slot - Chimes

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Dark Slat Chimaa	0x0904	0x00	0x00 OFF / Disabled
Park Slot - Chimes		0x01	0x01 ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
15	164

# 3.3.6.1.2 <u>VS-SR-REQ-234290/C-Information - Chimes</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Information Chimas	0x0905	0x00	OFF / Disabled
Information - Chimes		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
15	165

#### 3.3.7 VS-FUN-REQ-234307/A-Remote Start

# 3.3.7.1 Requirements

# 3.3.7.1.1 VS-SR-REQ-234312/G-Climate Control (Heater / AC) - Remote Start

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Climate Control – Remote Start	0x0509	0x00	Auto
(Heater / AC)	0x0509	0x01	Last Setting

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Front Defrost –	0x0503	0x00	OFF
Remote Start	0.0000	0x01	ON

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Rear Defrost –	0x0504	0x00	OFF
Remote Start	0.0004	0x01	ON

For the Climate Control Auto / Last Setting HMI if there are not separate Auto / Last Settings HMI selections for the Remote Start Front Defrost (0x0503) and Remote Start Rear Defrost (0x0504) then then the following shall be followed:



- When either "AUTO" or "Last Settings" is selected for the climate control HMI setting selection a series of Feature.Rq (Operation = SET) requests will be initiated in the order as shown below:
  - o Climate "AUTO" Selected perform FBMP Feature.Rq Set operation in the following order:
    - a) Climate Control (ID 0x509) = Auto
    - b) Front Defrost (ID 0x503) = ON
    - c) Rear Defrost (ID 0x504) = ON
  - o Climate "Last Setting" selected perform FBMP Feature.Rq Set operation in the following order:
    - a) Climate Control (ID 0x509) = Last Setting
    - b) Front Defrost (ID 0x503) = ON
    - c) Rear Defrost (ID 0x504) = ON
  - For the FBMP Feature.St response from the Remote Start feature server as soon as Climate Control (ID 0x509) is received, the response will be accepted and appropriate HMI setting selection (AUTO / Last Setting) in the Centerstack HMI will be updated. The Centerstack Settings HMI is not dependent on the 0x0503 and 0x0504 Feature.St responses from the Remote Start feature server and those Feature.St responses are treated as don't cares.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
17B	167

# 3.3.7.1.2 <u>VS-SR-REQ-234313/G-Seats and Steering Wheel - Remote Start</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Driver Heated/Cooled Seat	0x0501	0x00	Auto
- Remote Start	0x0501	0x01	OFF

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Passenger Heated/Cooled Seat	0x0502	0x00	Auto
- Remote Start	0x0502	0x01	OFF

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Heated Steering Wheel – Remote	0x040A	0x00	Auto
Start	0X040A	0x01	OFF

For Seats Only HMI or Seats and Steering Wheel HMI with one Auto / OFF HMI selection available for everything (no distinction of front driver seat, front passenger seat, steering wheel control) then the following strategy shall be used when an HMI selection is made:

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- Remote Start "AUTO" selected then a series of FBMP Feature.Rq (Operation = SET) requests will be initiated in the
  order as shown below:
  - Driver Heated/Cooled Seat (0x0501) = Auto
  - Passenger Heated/Cooled Seat (0x0502) = Auto
  - Heated Steering Wheel (0x040A) = Auto
- Remote Start "OFF" selected then a series of FBMP Feature.Rq (Operation = SET) requests will be initiated in the order as shown below:
  - Driver Heated/Cooled Seat (0x0501) = OFF
  - Passenger Heated/Cooled Seat (0x0502) = OFF
  - Heated Steering Wheel (0x040A) = OFF
- For the Feature.St response once the Remote Start Server responds to the 0x0501 FBMP Feature.Rq Set command with the 0x0501 Feature.St value requested then the HMI can be updated to show the new setting as called out in the 0x0501 Feature.St response (the 0x0502 and 0x0503 values can be ignored).

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
17c / 17d	168, 169

# 3.3.7.1.3 VS-SR-REQ-234316/F-Duration - Remote Start

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	uration – Remote Start 0x0406	0x00	OFF
Duration – Remote		0x01	5 min
Start		0x02	10 min
		0x03	15 min

Note: If there is HMI for "Activate Remote Start (Enable/Disable) or System (Enable/Disable) etc" then the duration feature number is used for this setting as follows:

- The OFF/Disable Remote Start HMI setting uses the configuration number is 0x00 OFF.
- The ON/Enable Remote Start HMI setting uses the configuration number, 0x02 10 min,

Note: the Activate Remote Start setting HMI would be shown as enabled whenever remote start is active (ie duration at 5 min, 10 min or 15 min). The Active Remote Start setting HMI would be shown as disabled when remote start is not active (ie Duration set to OFF).

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
17 / 17e	166, 170

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# 3.3.7.1.4 VS-SR-REQ-234315/D-Quiet Start - Remote Start

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Quiet Start – Remote	0,0505	0x00	OFF
Start	0x0505	0x01	ON

HMI Settings ID	
1096	

# 3.3.8 VS-FUN-REQ-234317/A-Windows

# 3.3.8.1 Requirements

#### 3.3.8.1.1 VS-SR-REQ-234319/D-Global Window Open

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Global Window Open	0v0404	0x00	OFF / Disabled
/ Remote Open	0x0401	0x01	ON / Enabled

HMI Setting ID	
195	



# 3.3.8.1.2 VS-SR-REQ-234320/D-Global Window Close

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Global Window	0v0402	0x00	OFF / Disabled
Close / Remote Close	0x0402	0x01	ON / Enabled

HMI Setting ID		
196		

# 3.3.9 VS-FUN-REQ-234329/A-Wipers

# 3.3.9.1 Requirements

# 3.3.9.1.1 VS-SR-REQ-234331/C-Courtesy Wiper

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Courtony Winer	0v0407	0x00	OFF / Disabled
Courtesy Wiper	0x0407	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
21	197

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# 3.3.9.1.2 VS-SR-REQ-234332/C-Rain Sensing Wipers

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Dain Canaina Winara	0v0400	0x00	OFF / Disabled
Rain Sensing Wipers	0x0408	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
21	198

# 3.3.9.1.3 VS-SR-REQ-234333/C-Reverse Wipers

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Rear Reverse Gear Wipe	0x0409	0x00	OFF / Disabled
		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
21	199

# 3.3.10 VS-FUN-REQ-234334/A-Power Liftgate

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# 3.3.10.1 Requirements

# 3.3.10.1.1 VS-SR-REQ-234336/D-Power Liftgate

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Power Liftgate	<del>0x0C50</del>	<del>0x00</del>	OFF / Disable Switch
		0x01	ON / Enable Switch

Note: Same feature number used for both Power Liftgate and Power Decklid

Duplicate of "VS-REQ-280528-Power Decklid / Liftgate". Please reference that requirement

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
<del>22</del>	<del>201</del>	

#### 3.3.11 VS-FUN-REQ-280527/A-Power Decklid / Liftgate

# 3.3.11.1 Requirements

# 3.3.11.1.1 VS-SR-REQ-280528/C-Power Decklid / Liftgate

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Power Decklid / Liftgate	0x0C50	0x00	OFF / Disable Switch
		0x01	ON / Enable Switch

Req: Whether the HMI shown for a Decklid or Liftgate the configuration would be shown in the HMI spec. For both those configurations use this feature number

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SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
13, 22	232, 201

# 3.3.12 VS-FUN-REQ-298601/A-Handsfree Liftgate

# 3.3.12.1 Requirements

## 3.3.12.1.1 VS-SR-REQ-298602/B-Handsfree Liftgate

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Handsfree Liftgate	0x041E	0x00	OFF / Disable Switch
		0x01	ON / Enable Switch

HMI Settings ID	
305	

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Power Decklid / Liftgate	0x0C50	0x00	OFF / Disable Switch
		0x01	ON / Enable Switch

Req: for 0x0C50 above when Hands Free Liftgate is configured ON then 0x0 would correlate with Manual and 0x01 would correlate with Automatic (if Automatic and Manual is used on the HMI).

Req: Whether the HMI shown for a Decklid or Liftgate the configuration would be shown in the HMI spec. For both those configurations use this feature number

If both the Handsfree Liftgate and Power Decklid / Liftgate settings are configured as both being shown in the HMI then the Centerstack Settings HMI Client shall follow the following rules:

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- When Power Liftgate (0x0C50) is set to Enabled (from Disabled) by the user then the Centerstack Settings HMI
   Client shall do a Set request to Enable 0x0C50 Power Liftgate first and then do a Set request to Enable 0x041E
   Handsfree Liftgate next.
- 2. When Power Liftgate (0x0C50) is set to Disabled (from Enabled) by the user then the Centerstack Setting HMI Client shall do a Set request to Disable 0x0C50 Power Liftgate first and then do a Set request to Disable 0x041E Handsfree liftgate next.
- 3. Changing the Handsfree Liftgate setting (ie 0x041E) to Enabled or Disabled shall have no impact on the Power Liftgate setting (ie 0x0C50). In other words, there shall be no automatic 0x0C50 Power Liftgate Set requests with Handsfree liftgate setting changes.

HMI Settings ID		
304		

# 3.3.13 VS-FUN-REQ-234337/A-Lighting

## 3.3.13.1 Requirements

# 3.3.13.1.1 VS-SR-REQ-234339/F-Auto Highbeam / Adaptive Drivebeam / Glare Free - Variant 1

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Highbeam / Adaptive Drive Beam	0×0800	0x00	OFF / Disabled
/ Glare Free	0x080C	0x01	ON / Enabled

Note: whether the HMI refers to Auto Highbeam or Glare Free/Adaptive Drivebeam depends on the configuration. See HMI spec for details on the configuration.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
23	202, 203

#### 3.3.13.1.2 VS-SR-REQ-234340/D-Daytime Running Lights

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Daytime Running	0x0415	0x00	OFF / Disabled
Lights		0x01	ON / Enabled

HMI Setting ID		
204		

# 3.3.13.1.3 VS-SR-REQ-234341/D-Welcome Lighting

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Welcome Lighting /	0v0416	0x00	OFF / Disabled
Approach Detection	0x0416	0x01	ON / Enabled

HMI Setting ID			
205			

# 3.3.13.1.4 VS-SR-REQ-234342/D-Adaptive Headlights

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptiva Haadlampa	0x040E	0x00	OFF / Disabled
Adaptive Headlamps		0x01	ON / Enabled

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HMI Setting ID		
206		

# 3.3.13.1.5 VS-SR-REQ-234343/D-Adaptive Headlight Set-Up

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Adaptive Headlamp	0v040E	0x00	LHD (Left Hand Drive/Traffic)
Set-Up	0x040F	0x01	RHD (Right Hand Drive/Traffic)

HMI Setting ID		
207		

# 3.3.13.1.6 <u>VS-SR-REQ-234344/D-Autolamp Delay</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	0 seconds (Off)
		0x01	1 second
Autolamp Delay	0x040D	0x02	2 seconds
		0xFF	255 seconds

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HMI Setting ID		
208		

# 3.3.13.1.7 VS-SR-REQ-272030/C-Predictive Lighting

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Predictive Lighting /		0x00	OFF / Disabled
Advanced Front 0x041B Lighting	0x01	ON / Enabled	

#### Note:

Clarification of the SYNC HMI rule is pasted below in terms of system impact. Please reference the H31K HMI spec in case there are any updates to the rule. The version of the requirement below means that if predictive lighting is configured on with adaptive head lamps configured on that only feature number 0x040E Adaptive Headlamp will be used. Predictive Headlamps feature number 0x041B Predictive Lighting will not be used.

[H31k.R109.01] If vehicle is equipped with both Predictive Lighting and Adaptive Headlamps ( (DE08, Byte 1, Bit 4 Adaptive Head Lamp control function = 1, (Enabled) AND Predictive Lighting (DE08, Byte 11, Bit 7 Predictive Lighting = 1 (Enabled)), then the list item "Adaptive Headlamps" will turn both on/off.

HMI Settings ID	
1095	

# 3.3.13.1.8 Auto Highbeam / Adaptive Drivebeam / Glare Free - Variant 2 requirements

# 3.3.13.1.8.1 Requirements for setting interface

## 3.3.13.1.8.1.1 VS-SR-REQ-396237/B-Auto Highbeam / Adaptive Drivebeam / Glare Free - Variant 2

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If configured for "Auto Highbeam / Adaptive Drivebeam / Glare Free – Variant 2" via the auto-configure CAN signals then this requirement supersedes requirement "VS-REQ-234449-Auto Highbeam / Adaptive Drivebeam / Glare Free" and supersedes the feature number used in that requirement.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Highboom /		0x00	OFF / Disabled
Auto Highbeam / Adaptive Drive Beam	0x0847	0x01	Auto Highbeam
/ Glare Free		0x02	Adaptive Drive Beam / Glare Free

HMI Setting ID	HMI Settings ID
Auto Highbeam –	Adaptive Drive Beam /
variant 2	Glare Free – variant 2
1084	1085

# 3.3.13.1.8.2 Requirements for auto-configuring via CAN signals

# 3.3.13.1.8.2.1 CLD-REQ-396484/A-Lighting Settings Configuration Server

The Lighting Settings Configuration Server interfaces with the Centerstack Settings HMI Client and is responsible for sending the auto-configure signals to the Centerstack Settings HMI Client.

# 3.3.13.1.8.2.2 MD-REQ-396483/A-AhbcMnu\_D\_Rq

Message Type: Request

Periodic Request signal from the Lighting Settings Configuration Server to the Centerstack Settings HMI Client to auto-configure the Auto Highbeam variant 2 HMI and Interface to be used.

Logical Signal Name	Literals	Value	Description
	Null	0x0	
AhbcMnu_D_Rq	Disable	0x1	Don't show Auto-Highbeam HMI
	Enable	0x2	Show Auto-Highbeam HMI

#### 3.3.13.1.8.2.3 MD-REQ-396485/A-GfhbMnu\_D\_Rq

Periodic Request signal from the Lighting Settings Configuration Server to the Centerstack Settings HMI Client to auto-configure the Glare Free and Adaptive Drive Beam variant 2 HMI and Interface to be used.

Logical Signal Name	Literals	Value	Description
	Null	0x0	

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			· · · · · · · · · · · · · · · · · · ·	
		isable	0x1	Don't show Glare Free / Adaptive Drive Beam
				HMI
GfhbMnu_D_Rq	E	nable Glare	0x2	Show Glare Free
	F	ree		
	E	nable	0x3	Show Glare Free / Adaptive Drive Beam HMI
	A	daptive Drive		
	В	eam		

**Subsystem Part Specific Specification** 

#### 3.3.13.1.8.2.4 Note

For this section of the SPSS for auto-configuring lighting settings, when reference auto-configuration lighting settings signals, the signals being referenced are AhbcMnu\_B\_Rq and GfhbMnu\_B\_Rq.

#### 3.3.13.1.8.2.5 VS-SR-REQ-396712/A-HMI settings when not in Run

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The HMI for the Auto-Highbeam setting and/or Glare Free / Adaptive Drivebeam setting shall only be shown (or only shown as selectable) when Ignition\_Status = Run.

## 3.3.13.1.8.2.6 VS-SR-REQ-396711/A-Usage of Auto-configuration lighting signals vs DID configuration

<u>"Auto Highbeam / Adaptive Drivebeam / Glare Free – Variant 2"</u> is used when either of the signals AhbcMnu\_B\_Rq or GfhbMnu\_B\_Rq configures the settings HMI for Glare Free Lighting or Auto High Beam. When this happens:

- 1. The DID for variant 1 of the Auto highbeam / Adaptive Drive Beam / Glare free, defined in the HMI spec is NOT used (ie Auto High Beam Menu: 0x0 Disabled, 0x1 Auto High Beams, 0x2 Glare Free High Beams, 0x3 Adaptive Driving Beams), AND
- 2. Feature number 0x0847 from requirement "VS-REQ-396237-Auto Highbeam / Adaptive Drivebeam / Glare Free Variant 2" is used
  - a. feature number 0x080C from the requirement "VS-REQ-234339- Auto Highbeam / Adaptive Drivebeam / Glare Free" is NOT used.

Once configured for "<u>Auto Highbeam / Adaptive Drivebeam / Glare Free – Variant 2</u>" any EOL DID for Glare Free Lighting and Auto High Beam shall be ignored and both the auto-configure CAN signals AhbcMnu\_B\_Rq and GfhbMnu\_B\_Rq take precedence.

The only way to revert to EOL DID configuration for Glare Free and Auto Highbeam lighting once configured by the auto-configuration signals AhbcMnu B Rg orGfhbMnu B Rg is:

- 1. Use the DID defined in the IDS (Infotainment Diagnostic Spec) to clear the CAN based auto-configure settings, AND
- 2. The auto-configure signals AhbcMnu\_B\_Rq and GfhbMnu\_B\_Rq remain at 0x0 Null as to not re-configure the Auto Highbeam or Glare Free settings overwriting the DID for variant 1.

# 3.3.13.1.8.2.7 <u>VS-SR-REQ-396713/A-Configuring the HMI based on the Lighting Settings auto-configuration signals</u> The auto-config signals AhbcMnu\_D\_Rq and GfhbMnu\_D\_Rq sent by the Lighting Settings Configuration Server shall be periodic or event-periodic.

The Centerstack Setting HMI Client shall auto-configure based on what's in the signal when it has received the signal set to the auto-configure value (ex AhbcMnu\_D\_Rq = Enable) for 3 consecutive times in a row with the same value.

#### Example:

- When the signal AhbcMnu\_D\_Rq = Enable 3 consecutive times in a row then the HMI for Auto-Highbeam setting shall be shown.
- When the signal AhbcMnu\_D\_Rq = Disable 3 consecutive times in a row then the HMI for Auto-Highbeam setting shall not be shown.

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- When the signal GfhbMnu\_D\_Rq = Enable Glare Free 3 consecutive times in a row then the HMI for Glare Free setting shall be shown.
- When the signal GfhbMnu\_D\_Rq = Enable Adaptive Drive Beam 3 consecutive times in a row then the HMI for Adaptive Drive Beam shall be shown.
- When the signal GfhbMnu\_D\_Rq = Disable 3 consecutive times in a row then the HMI for the Glare Free or Adaptive Drive Beam HMI shall not be shown.

Auto-Highbeam and Glare Free/Adaptive Drive Beam cannot both be selected at the same time.

# Example below:

Picture below is only an example using the CAN auto-config CAN signals to configure the HMI and doesn't represent the actual HMI. See the HMI spec for the actual HMI

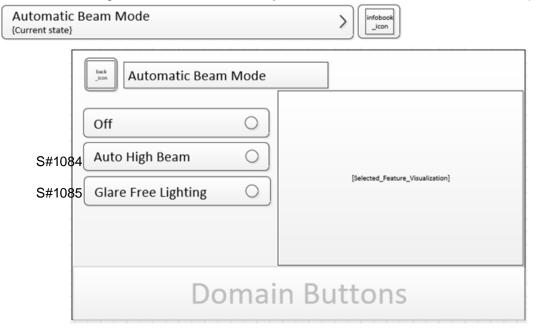
AhbcMnu\_D\_Rq = Enable (Auto-Highbeams) && GfhbMnu\_D\_Rq = Disable

S#1084 Auto High Beam

AhbcMnu\_D\_Rq = Disable && GfhbMnu\_D\_Rq = Enable Glare Free

S#1085 Glare Free Lighting

AhbcMnu\_D\_Rq = Enable (Auto-Highbeams) && GfhbMnu\_D\_Rq = Enable Glare Free (note below Auto-Highbeam and Glare Free only one is allowed to be selected at one time)



#### Possible combinations:

Inputs			Outputs	
AhbcMnu_D_Rq	GfhbMnu_D_Rq	HMI Auto High Beam	HMI Glare Free / Adaptive Drive Beam	Settings Feature Number



Null – No stored value  (ie the Centerstack Settings HMI Client never received a value other than Null)	Null – No stored value  (ie the Centerstack Settings HMI Client never received a value other than Null)	See HMI spec for variant 1 and EOL configurations for variant 1	See HMI spec for variant 1 and EOL configurations for variant 1	0x080C
Null	Null	Use stored value	Use stored value	
Null	Disable	Use stored value	No GF/ADB HMI shown	
Null	Enable Glare Free	Use stored value	GF HMI shown	
Null	Enable Adaptive Drive Beam	Use stored value	GF HMI shown	
Disable	Null	No AHB HMI Shown	Use stored value	
Disable	Disable	No AHB HMI shown	No GF/ADB HMI shown	
Disable	Enable Glare Free	No AHB HMI shown	GF HMI shown	
Disable	Enable Adaptive Drive Beam	No AHB HMI shown	GF HMI shown	
Enable	Null	AHB HMI shown	Use stored value	00047
Enable	Disable	AHB HMI shown	No GF/ADB HMI shown	0x0847
Enable	Enable Glare Free	AHB HMI shown	GF HMI shown	
Enable	Enable Adaptive Drive Beam	AHB HMI Shown	GF HMI shown	

# 3.3.13.1.8.2.8 VS-SR-REQ-396714/A-Storing the auto-configuration lighting settings last state

The Centerstack Settings HMI Client shall store and remember the last state of the auto-configuration lighting setting signals between ignition cycles.

When auto-configuration lighting setting signals are no longer on the bus or if the signals are set to Null then the Centerstack Settings HMI Client shall use the last state of those signals.

- Ex. When not in Run those signals might not be on the bus. When change ignition\_status to Run those signals should come back on the bus
- Ex 2. When the Lighting Settings Configuration Server powers up it might have the auto-configuration lighting settings signals set as Null until the module is powered up and knows the actual values to publish on the bus.

# 3.3.14 VS-FUN-REQ-234345/A-Locks

# 3.3.14.1 Requirements

## 3.3.14.1.1 VS-SR-REQ-234347/D-AutoLock

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
AutoLock (drive	0v0402	0x00	OFF / Disabled
away locking)	0x0403	0x01	ON / Enabled

HMI Setting ID		
209		

# 3.3.14.1.2 <u>VS-SR-REQ-234348/D-AutoUnlock</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
AutoUnlock	0.0404	0x00	OFF / Disabled
Autoonlock	0x0404	0x01	ON / Enabled

HMI Setting ID		
210		

# 3.3.14.1.3 VS-SR-REQ-234356/D-Relock

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Bolook	0v0412	0x00	OFF / Disabled
Auto Relock 0x0413 -		0x01	ON / Enabled

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SYNC Gen 3 Screen / ID HMI Number		
27		

# 3.3.14.1.4 <u>VS-SR-REQ-234349/D-Mislock</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Mis-lock feedback	0.0411	0x00	OFF / Disabled
	0x0411	0x01	ON / Enabled

HMI Setting ID	
211	

# 3.3.14.1.5 VS-SR-REQ-234351/E-Lock Trim Switch Inhibit

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Configuration HMI selection / Number Number Configuration Name		HMI selection / Configuration Name
Lock Trim Switch Inhibit / Switch Inhibit	0x0410	0x00	OFF / Disabled
	0x0410	0x01	ON / Enabled

HMI Setting ID	
212	

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# 3.3.14.1.6 VS-SR-REQ-234353/D-Audible Locking Feedback

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Audible Locking Feedback	0v0410	0x00	OFF / Disabled
	0x0419	0x01	ON / Enabled

HMI Setting ID		
215		

# 3.3.14.1.7 VS-SR-REQ-234354/D-Exterior Lights Feedback - Locking

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Exterior Lights Feedback - Locking	0x041A	0x00	OFF / Disabled
	0X041A	0x01	ON / Enabled

HMI Setting ID		
216		

# 3.3.14.1.8 <u>VS-SR-REQ-234357/E-Remote Unlock</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Remote Unlock:		0x00	All Doors / One Stage
One/Two Stage Unlocking	0x0405	0x01	Driver's door / Two Stage

HMI Setting ID		
217		

# 3.3.14.1.9 VS-SR-REQ-272687/C-Global Unlock

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
One/Two Stage		0x00	One Stage / All Doors / Global Unlock ON(enabled)
Unlocking	0x0405	0x01	Two Stage / Drivers Door / Global Unlock OFF(disabled)

Note: created separate requirement numbers for Global Unlock and Remote Unlock but they send the same feature numbers with different HMI labels. HMI labels are determined by configuration. See HMI document for configuration.

HMI Setting ID	
218	

# 3.3.14.1.10 VS-SR-REQ-272694/C-Intelligent Access

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Intelligent Access / Key Free / Passive	0x0412	0x00	OFF / Disabled
Entry Customer Enable	0x0412	0x01	ON / Enabled

HMI Setting ID
213, 214

# 3.3.14.1.11VS-SR-REQ-350467/B-Walk Away Lock

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Walk Away Lock 0x0420 -	0x00	OFF / Disabled	
	070420	0x01	ON / Enabled

HMI Setting ID	
1034	

# 3.3.14.1.12VS-SR-REQ-350468/B-Walk Away Lock Feedback

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Walk Away Lock	0x0421	0x00	OFF / Disabled
Feedback Audible		0x01	ON / Enabled

HMI Setting ID
1035

# 3.3.14.1.13 VS-SR-REQ-350469/B-Double Lock Reminder Feedback

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Double Lock Reminder	0x0422	0x00	OFF / Disabled
Feedback	0.0422	0x01	ON / Enabled

HMI Setting ID
1036

## 3.3.15 VS-FUN-REQ-234358/A-Mirrors

#### 3.3.15.1 Requirements

# 3.3.15.1.1 <u>VS-SR-REQ-234360/D-Auto Fold Mirrors</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Fold Mirroro	0.0702	0x00	OFF / Disabled
Auto Fold Mirrors	0x0702	0x01	ON / Enabled

HMI Setting ID
219

# 3.3.15.1.2 VS-SR-REQ-234361/D-Reverse Tilt Mirrors

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Payaraa Tilt Mirrora	0v0702	0x00	OFF / Disabled
Reverse Tilt Mirrors	0x0703	0x01	ON / Enabled

HMI Setting ID	
220	

#### 3.3.16 VS-FUN-REQ-234362/B-Park Heater

# 3.3.16.1 Requirements

# 3.3.16.1.1 VS-SR-REQ-234364/D-Continue Heat - Park Heater

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Continue Heat –	0.0070	0x00	OFF / Disable
Park Heater	0x0C70	0x01	ON / Enable

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18	172

# 3.3.16.1.2 VS-SR-REQ-267623/B-Heater Programming - Park Heater

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Heater Programming	0x0C91	0x00	OFF / Disable
– Park Heater		0x01	ON / Enable

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18b	173

# 3.3.16.1.3 <u>VS-SR-REQ-234378/E-Programming Single Time - Park Heater</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Single	0x0C71	0x00	OFF / Disable
Time – Park Heater		0x01	ON / Enabled

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18c	174

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
	0x0C72	0x02	Hour 2 (2 AM)
Hour - Programming			Hour 3 (3 AM)
Single Time		0x04	
			Hour 21 (9 PM)
	0x16	Hour 22 (10 PM)	
		0x17	Hour 23 (11 PM)

Whether time is displayed in 12 or 24 mode depends what HMI setting is set for 12/24 hour mode.

• Reference function "VS-FUN-REQ-025239-Set 12/24 hour mode setting" in the Vehicle Setting SPSS for details.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18c, 19a	175

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Min		0x00	Minute 0
		0x01	Minute 1
Minute - Programming Single Time	0x0C73	0x02	Minute 2
Time		0x03	Minute 3

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0x39	Minute 57
0x3A	Minute 58
0x3B	Minute 59

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18c, 19a	175

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	2016
		0x01	2017
		0x02	2018
Year - Programming Single Time			
		0x51	2097
		0x52	2098
		0x53	2099

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18c, 19b	176

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0.0075	0x00	January
Month -		0x01	February
Programming Single Time	0x0C75	0x02	March
		0x03	April

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0x04	May
0x05	June
0x06	July
0x07	August
0x08	September
0x09	October
0x0A	November
0x0B	December
	0x05 0x06 0x07 0x08 0x09 0x0A

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18c, 19b	176

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0C76	0x00	Day 1 (1 <sup>st</sup> day of the month)
		0x01	Day 2
		0x02	Day 3
Day - Programming Single Time		0x03	Day 4
		0x1C	Day 29
		0x1D	Day 30
		0x1E	Day 31

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
18c, 19b	176	



# 3.3.16.1.4 VS-SR-REQ-234393/F-Programming Time 1 - Park Heater

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1  – Park Heater	0x0C77	0x00	OFF / Disable
	0.00077	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	177

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0C78	0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
Hour - Programming Time 1		0x02	Hour 2 (2 AM)
		0x03	Hour 3 (3 AM)
		0x04	
			Hour 21 (9 PM)
		0x16	Hour 22 (10 PM)
		0x17	Hour 23 (11 PM)

Whether time is displayed in 12 or 24 mode depends what HMI setting is set for 12/24 hour mode. Reference function "<u>VS-FUN-REQ-025239-Set 12/24 hour mode setting</u>" in the Vehicle Setting SPSS for details.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d, 19a	178

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0C79	0x00	Minute 0
		0x01	Minute 1
Minute - Programming Time 1		0x02	Minute 2
		0x03	Minute 3
		0x39	Minute 57
		0x3A	Minute 58
		0x3B	Minute 59

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d, 19a	178

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1  – Monday	0.0074	0x00	OFF / Disable
	0x0C7A	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
18d	179	

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1  - Tuesday  0x	0x0C7B	0x00	OFF / Disable
	UXUC7B	0x01	ON / Enabled

SYNC Gen 3 Screen / HMI Setting ID



18d	180

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1  - Wednesday  0x0C7C	0x00	OFF / Disable	
	0x01	ON / Enabled	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	181

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1  — Thursday  0x0C7D	0x00	OFF / Disable	
	UXUC7D	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	182

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1 - Friday  0x0C7E	0x00	OFF / Disable	
	0x01	ON / Enabled	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	183



Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1	0x0C7F	0x00	OFF / Disable
<ul><li>Saturday</li></ul>		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	184

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1	0x0C80	0x00	OFF / Disable
- Sunday		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	185

# 3.3.16.1.5 VS-SR-REQ-234394/E-Programming Time 2 - Park Heater

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x00	OFF / Disable	
<ul><li>– Park Heater</li></ul>	0x0C81	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	186

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0C82	0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
Hour - Programming Time 2		0x02	Hour 2 (2 AM)
		0x03	Hour 3 (3 AM)
		0x04	
			Hour 21 (9 PM)
		0x16	Hour 22 (10 PM)
		0x17	Hour 23 (11 PM)

Whether time is displayed in 12 or 24 mode depends what HMI setting is set for 12/24 hour mode. Reference function "VS-FUN-REQ-025239-Set 12/24 hour mode setting" in the Vehicle Setting SPSS for details.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d, 19a	187

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	Minute 0
		0x01	Minute 1
		0x02	Minute 2
Minute - Programming Time 2	0x0C83	0x03	Minute 3
		0x39	Minute 57
		0x3A	Minute 58
		0x3B	Minute 59

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d, 19a	187

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x0C84	0x00	OFF / Disable
– Monday		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	188

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x0C85	0x00	OFF / Disable
– Tuesday		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	189

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x0C86	0x00	OFF / Disable
<ul><li>Wednesday</li></ul>		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	190

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x0C87	0x00	OFF / Disable
– Thursday		0x01	ON / Enabled



SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	191

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x0C88	0x00	OFF / Disable
– Friday		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	192

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x0C89	0x00	OFF / Disable
<ul><li>Saturday</li></ul>		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	193

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0x0C8A	0x00	OFF / Disable
<ul><li>Sunday</li></ul>	0,000	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	194



#### 3.3.17 VS-FUN-REQ-262499/A-Aux Heater

#### 3.3.17.1 Requirements

## 3.3.17.1.1 VS-SR-REQ-262500/B-Aux Heater

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Aux Heater – Fuel	0x0C90	0x00	OFF / Disabled
Operated Heater		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	171

# 3.3.18 VS-FUN-REQ-273580/A-Passenger Airbag

#### 3.3.18.1 Requirements

# 3.3.18.1.1 VS-SR-REQ-273581/D-Passenger Airbag

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0E50	0x00	OFF / Disabled
Passenger Airbag		0x01	ON / Enabled
			0x02

If Feature.st is set as "Passenger Airbag 0x0E50 = 0x2 Gray out Menu" then the passenger airbag menu setting shall be Grayed out and settings not selectable (see HMI spec for exact way the HMI is shown).

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13 / 54	225

## 3.3.19 VS-FUN-REQ-274739/A-Tire Mobility Kit

## 3.3.19.1 Requirements

#### 3.3.19.1.1 VS-SR-REQ-274740/C-Tire Mobility

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Tire Mobility 0x090		0x00	1 Year
	0,40000	0x01	2 Years
	0x0909	0x02	3 Years
		0x03	4 Years

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
49	227	

#### 3.3.20 VS-FUN-REQ-238326/A-Power Running Board

## 3.3.20.1 Requirements

# 3.3.20.1.1 VS-SR-REQ-238327/E-Power Running Board

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

No Longer Supported via feature based message protocol

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
<del>Power Running</del> <del>Board</del>	<del>0x0C51</del>	<del>0x00</del>	Auto
		<del>0x01</del>	Off
		<del>0x02</del>	Out

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
<del>-51 / 29</del>	<del>159</del>

# 3.3.21 VS-FUN-REQ-234230/B-Easy Entry / Easy Exit (Seat Adjustment)

# 3.3.21.1 Requirements

# 3.3.21.1.1 VS-SR-REQ-234232/F-Easy Entry / Easy Exit (Seat Adjustment)

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Easy Entry / Easy		0x00	OFF / Disabled
Exit (Seat Adjustment)	0x0701	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
51	157

# 3.3.22 VS-FUN-REQ-272707/B-Auto Entry/Exit Height (Easy Access Height)

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#### 3.3.22.1 Requirements

# 3.3.22.1.1 VS-SR-REQ-272708/D-Auto Entry/Exit Height (Easy Access Height)

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Entry/Exit Height		0x00	OFF / Disabled
(Easy Access Height)	0x0B04	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
51	158

# 3.3.23 VS-FUN-REQ-276182/A-Cargo Loading

#### 3.3.23.1 Requirements

#### 3.3.23.1.1 VS-SR-REQ-276183/A-Cargo Loading

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Cargo Loading		0x00	OFF / Disabled
	<u>0x0B05</u>	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	

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# 3.3.24 VS-FUN-REQ-272705/A-Air Suspension

# 3.3.24.1 Requirements

## 3.3.24.1.1 VS-SR-REQ-272706/C-Air Suspension

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Air Suspension	0x0B03	0x00	OFF / Disabled
(Air Suspension Service)		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	200

# 3.3.25 VS-FUN-REQ-280537/A-Auto Regen

## 3.3.25.1 Requirements

#### 3.3.25.1.1 VS-SR-REQ-280538/B-Auto Regen

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Regen Control /	0,40,000	0x00	OFF / Disabled
Auto Regeneration Control	0x0D06	0x01	ON / Enabled



SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	237

#### 3.3.26 VS-FUN-REQ-280668/A-Trailer Brake

## 3.3.26.1 Requirements

#### 3.3.26.1.1 VS-SR-REQ-280669/B-Mode - Trailer Brake

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Note: If the Trailer Settings SPSS is used for this setting then follow the requirements in that SPSS for whether the Set and/or Query operation is supported.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Mode – Trailer Brake	0x0E10	0x00	Electric
	UXUETU	0x01	EOH (Electric Over Hydraulic)

HMI Setting ID		
239		

#### 3.3.26.1.2 VS-SR-REQ-280670/C-Effort - Trailer Brake

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Note: If the Trailer Settings SPSS is used for this setting then follow the requirements in that SPSS for whether the Set and/or Query operation is supported.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0E10 0x0E11	0x00	Heavy
Effort – Trailer Brake		0x01	Medium
		0x02	Light

HMI Setting ID	
240	

#### 3.3.27 VS-FUN-REQ-280678/A-Quiet Start - Exhaust Mode

## 3.3.27.1 Requirements

## 3.3.27.1.1 VS-SR-REQ-280679/D-Quiet Start - Exhaust Mode

Requirement obsolete. See the Vehicle Settings SPSS and function "VS-FUN-REQ-362897-Quiet Time for Exhaust Mode"

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Quiet Start – Exhaust	0.0000	<del>0x00</del>	OFF / Disabled
<u>Mode</u>	<del>0x0D0A</del>	<del>0x01</del>	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
98	<del>251</del>



#### 3.3.28 VS-FUN-REQ-280682/A-Set Quiet Time - Exhaust Mode

# 3.3.28.1 Requirements

## 3.3.28.1.1 VS-SR-REQ-280683/C-Set Quiet Time - Exhaust Mode

Requirement obsolete. See the Vehicle Settings SPSS and function "VS-FUN-REQ-362897-Quiet Time for Exhaust Mode"

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	<del>rt</del> <del>0x0D0B</del>	<del>0x00</del>	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
		<del>0x02</del>	Hour 2 (2 AM)
Set Quiet Time –		<del>0x03</del>	Hour 3 (3 AM)
Exhaust Mode Start		<del>0x04</del>	<del></del>
		<del></del>	Hour 21 (9 PM)
		<del>0x16</del>	Hour 22 (10 PM)
		<del>0x17</del>	Hour 23 (11 PM)

Whether time is displayed in 12 or 24 mode depends what HMI setting is set for 12/24 hour mode.

Reference function "VS-FUN-REQ-025239-Set 12/24 hour mode setting" in the Vehicle Setting SPSS for details.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		<del>0x00</del>	Hour 0 (12 AM)
	0x0D0E	<del>0x01</del>	Hour 1 (1 AM)
		<del>0x02</del>	Hour 2 (2 AM)
Set Quiet Time –		<del>0x03</del>	Hour 3 (3 AM)
Exhaust Mode End		<del>0x04</del>	<del></del>
		<del></del>	Hour 21 (9 PM)
		<del>0x16</del>	Hour 22 (10 PM)
		<del>0x17</del>	Hour 23 (11 PM)



Whether time is displayed in 12 or 24 mode depends what HMI setting is set for 12/24 hour mode. Reference function "VS-FUN-REQ-025239-Set 12/24 hour mode setting" in the Vehicle Setting SPSS for details.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
<del>98, 99</del>	<del>252</del>

# 3.3.29 VS-FUN-REQ-280684/B-Rev Match (Engine Revolution Match)

#### 3.3.29.1 Overview

Rev (engine revolution) Match is a feature on manual transmissions that allows the vehicle to have automatically controlled REV-Matching downshifts. This makes downshifting smoother between gears.

## 3.3.29.2 Requirements

## 3.3.29.2.1 VS-SR-REQ-280685/B-Rev Match (Engine Revolution Match)

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Rev Match (Engine	00000	0x00	OFF / Disabled
Revolution Match)	0x0D08	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
96	253



# 3.4 Additional Settings - FBMP based settings

# 3.4.1 Additional Settings (FBMP based settings) - General Requirements

#### 3.4.1.1 <u>VS-SR-REQ-333163/A-Settings Start-Up</u>

The Settings under Additional Settings (FBMP based) shall be queried by the Centerstack Settings HMI Client when the Ignition\_Status changes from OFF/ACC to Run. See the FBMP SPSS for details on querying at start-up when ignition\_status changes to Run.

When Ignition\_Status changes from Run to OFF/ACC the Settings shall be considered unknown. The HMI should not show any settings selections when Settings selection information is unknown.

#### 3.4.1.2 VS-SR-REQ-333164/A-HMI Activation during Run

Settings in this Additional Settings (FBMP based settings) section can only be selected on the HMI when the Ignition\_Status = Run.

#### 3.4.2 VS-FUN-REQ-333131/A-Tire Pressure Reset / Tire Monitor

#### 3.4.2.1 Requirements

#### 3.4.2.1.1 VS-SR-REQ-333089/A-Tire Pressure Reset / Tire Monitor

For this feature when performing the "Set" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	
	0x0960	0x00	Null / Inactive	
Tire Pressure Reset / Tire		0x01	Reset (Request from Centerstack Settings HMI Client)	
Monitor		Monitor 0x0960	0x2	Tire Pressure Reset Successful (Response from the Feature Server)
		0x3	Tire Pressure Not Reset (Response from the Feature Server)	

The Centerstack Settings HMI Client shall not query this feature number at start-up as this is a reset function. If it was queried at start-up as an error state then the Tire Monitor feature Server would respond back with 0x0 Null / Inacitve.

If some kind of Notification/Pop-ups are supported on the Centerstack Settings HMI Client (ex Successful / Not Successful) then configuration numbers 0x2 and 0x3 would be used to indicate success or failure to reset. The Notification/Pop-up shall only occur when 0x2 or 0x3 is first set (periodic message on the bus of the same state would not re-initiate a pop-up).

SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1012



# 3.4.3 VS-FUN-REQ-333128/A-Border Crossing

#### 3.4.3.1 Requirements

# 3.4.3.1.1 VS-SR-REQ-333100/A-Border Crossing

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Considerate Prompts - Border Crossing 0x0961		0x00	Reminder OFF
	0x01	Reminder ON	

SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1013

#### 3.4.4 VS-FUN-REQ-333136/B-Ecocoach

## 3.4.4.1 Requirements

# 3.4.4.1.1 <u>VS-SR-REQ-333154/A-Ecocoach</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
EcoCoach /		0x00	OFF / Disabled
Show EcoCoach in Go Mode		0x01	ON / Enabled

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SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1014

# 3.4.4.1.2 VS-SR-REQ-333155/A-Eco Advices

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Facebook FaceAdvises		0x00	OFF / Disabled
Ecocoach - Eco Advices	0x0963	0x01	ON / Enabled

SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1015

## 3.4.4.1.3 VS-SR-REQ-333156/A-Coasting Support

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Ecocoach - Coasting	0x00	OFF / Disabled	
Support	rt 0x0964	0x01	ON / Enabled



SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1016

# 3.4.4.1.4 <u>VS-SR-REQ-364517/A-EcoCoach - Eco Mode</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
EcoCoach in Eco Mode	0x096E	0x00	OFF / Disabled
Ecocoach in Eco Mode	0x090E	0x01	ON / Enabled

HMI Setting ID			
1077			

## 3.4.5 VS-FUN-REQ-333107/B-Speedometer

#### 3.4.5.1 Requirements

#### 3.4.5.1.1 VS-SR-REQ-333114/C-Speedometer MPH

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Chandemater MDL		0x00	OFF / Disabled
Speedometer MPH	0x0965	0x01	ON / Enabled

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Note: the Speedometer MPH and Speedometer Km/h settings are mutually exclusive. Which setting to show is handled via configurations based on market. See table in requirement "VS-REQ-341178-Mapping Table – Speedometer Major Units" for details.

- Ex. If in the Canada the vehicle major speed scale is Km/h on the Cluster speedometer, then:
  - o the Speedometer MPH setting would be configured enabled to be shown on the HMI, and
  - o the Speedometer Km/h setting would not be shown

HMI Setting ID		
1017		

# 3.4.5.1.2 VS-SR-REQ-333162/C-Speedometer Km/h

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Speedometer Km/h		0x00	OFF / Disabled
	0x0966	0x01	ON / Enabled

Note: the Speedometer MPH and Speedometer Km/h settings are mutually exclusive. Which setting to show is handled via configurations based on market. See table in requirement "VS-REQ-341178-Mapping Table – Speedometer Major Units" for details.

- Ex. If in the US the vehicle major speed scale is MPH on the Cluster speedometer, then:
  - o the Speedometer Km/h setting would be configured enabled to be shown on the HMI, and
  - o the Speedometer MPH setting would not be shown

HMI Setting ID	
1018	

#### 3.4.5.1.3 VS-SR-REQ-341178/B-Mapping Table - Speedometer Major Units

The table below maps the country to the Cluster major speedometer speed scale units (MPH or Km/h).

Market	Cluster Speedometer major speed scale units
US and US Territories	MPH
UK	MPH

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All other markets	Km/h

#### 3.4.6 VS-FUN-REQ-333158/A-Brake Coach

# 3.4.6.1 Requirements

## 3.4.6.1.1 <u>VS-SR-REQ-333159/A-Brake Coach</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name		
Brake Coach / Show Brake Coach in Go Mode		0x00	OFF / Disabled		
	0x0967	0x01	ON / Enabled		

SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1019

# 3.4.7 VS-FUN-REQ-333160/B-Neutral Tow

# 3.4.7.1 MD-REQ-342193/A-TrnGearNtmAllow\_B\_Stat

Message Type: Status

Note: Status signal from the Neutral Tow Server indicating if the Neutral Tow HMI needs to be greyed out or not

Logical Signal Name	Literals	Value	Description
	No	0x0	Grey out HMI for Neutral Tow
TrnGearNtmAllow_B_Stat	Yes	0x1	This signal encoding does not cause the Neutral
			Tow Setting HMI to be greyed out

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## 3.4.7.2 Requirements - shift by wire version of Neutral Tow

## 3.4.7.2.1 <u>VS-SR-REQ-333161/D-Neutral Tow</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name		
			OFF / Disabled - not in Neutral Tow		
		0x00	(Response/Status from FBMP Feature Server) ON / Enabled - in Neutral tow		
Neutral Tow 0x09			(Response/Status from FBMP Feature Server)		
			ON / Enabled - in Neutral tow		
		0x01			
	0x0968		(Response/Status from FBMP Feature Server)		
			(Response/Status from FBMP Feature Server) ON / Enabled - in Neutral tow		
		0x02			
		0.02	(Set Request from Centerstack Settings HMI		
			Client)		

The Centerstack Setting HMI Client shall not Query feature numbers 0x0968 at start-up.

Note: if query at start-up (if was last item queried by Centerstack Settings HMI Client) the FBMP Neutral Tow Server
could potentially keep broadcasting the last state of Disabled which could cause issues with exiting the HMI flow at
the incorrect time in the Neutral Tow screen flow.

The Centerstack Settings HMI Client shall grey out the Neutral Tow HMI setting whenever:

- 1. The Centerstack Settings HMI Client receives TrnGearNtmAllow\_B\_Stat = No, OR
- 2. The Centerstack Setting HMI Client receives the Neutral Tow feature number 0x0968 set to 0x01 ON/Enabled Else

Don't grey out the Neutral Tow "Initialize for Neutral Tow" setting in the HMI.

<u>Note</u>: How to show the greyed out setting is defined by the HMI. HMI may decide not to show the greyed out setting at all (ie remove neutral tow setting). Reference HMI specification for how greyed out setting is shown.

The Centerstack Setting HMI Client shall use the Set command to set feature number 0x0968 Neutral Tow to "0x02 Initialize for Neutral Tow" as defined by the HMI. See HMI for details such as HMI setting being pressed and held for 2 seconds before making the Set request

 Note: when do the Set command there may not be a response from the FBMP Neutral Tow Server module for up to 500 msec.

The Neutral Tow setting (ie Initialize for Neutral Tow) is only available to be selected when Neutral Tow is not greyed out.

The Centerstack Settings HMI Client shall never do a Set request for OFF/Disabled or On/Enabled.

The FBMP Neutral Tow Server shall respond to the Set request for Initialize for Neutral Tow request with either OFF/Disabled or ON/Enabled when the conditions are met to send a FBMP response. See FBMP Neutral Tow Server specification for details.

• Note: FBMP Neutral Tow Server also means "Gateway/Translator module" if it is the middle man for CAN signals to the Server module

## HMI screen flow rules based on network signals:

After the Centerstack Settings HMI client sends a Feature.Rq Set operation for feature number 0x0968 set to 0x02
 Initialize for Neutral Tow and receives 0x00 OFF/Disabled from the FBMP Neutral Tow Server then the Centerstack
 Settings HMI Client shall display some sort of HMI for placing the vehicle in Neutral (see HMI spec for details)

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- When the "Place Vehicle in Neutral" HMI is shown, that HMI screen shall be exited to the appropriate HMI screen whenever the Centerstack Settings HMI Client receives:
  - 1. TrnGearNtmAllow\_B\_Stat = No (setting greyed out), or
  - 2. Neutral Tow feature number 0x0968 set as enabled (setting greyed out), or
- If the signal TrnGearNtmAllow\_B\_Stat = No at any time, then exit the screen flow and the Neutral Tow setting shall be greyed out. See HMI for details
- When TrnGearNtmAllow\_B\_Stat = Yes and the last state Rx by the Centerstack Settings HMI Client of feature 0x0968 was 0x00 Disabled, then if the user exits the Neutral Tow HMI on the screen for "Place the Vehicle in Neutral" and re-enters the Neutral Tow settings screen the Initialize for Neutral Tow settings is allowed to be sent again using FBMP (if HMI supports).

HMI Setting ID			
1020			

# 3.4.8 VS-FUN-REQ-333185/A-Nav Repeater in Cluster

# 3.4.8.1 Requirements

#### 3.4.8.1.1 VS-SR-REQ-333186/B-Nav Repeater in the Cluster

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Nav Repeater in the Cluster / Turn by Turn		0x00	OFF / Disabled
	0x0969	0x01	ON / Enabled

HMI Setting ID		
1021		

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# 3.4.9 VS-FUN-REQ-333189/A-Maps in the Cluster

## 3.4.9.1 Requirements

# 3.4.9.1.1 <u>VS-SR-REQ-333192/A-Maps in the Cluster</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Maps in the Cluster 0x096A		0x00	OFF / Disabled
	0x01	ON / Enabled	

SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1022



# 3.5 Cluster Settings with dedicated FBMP messages

#### 3.5.1 Overview

This section covers new features in which the interface is only between the Cluster and Centerstack Settings HMI Client that will use dedicated messaging and signaling. This is so there is an additional FBMP (feature based message protocol) Feature.Rq / Feature.St interface so querying settings after ignition goes to run can happen quicker than otherwise would happen.

The Cluster in this section can be the Centerstack Feature Settings Server or Setting Gateway/Translator module (ie middleman) to the actual server module.

#### 3.5.2 General Requirements - Cluster Settings with dedicated FBMP messages

# 3.5.2.1 <u>VS-SR-REQ-362577/A-Cluster and Centerstack Settings HMI Client dedicated Feature2.Rq/Feature2.St FBMP</u> message usage

Deployment of FBMP (Feature Based Message Protocol) Feature2.Rq / Feature2.St:

Transmitter	Logical Signal Name	CAN dB signal name
	Feature2.Rq : Operation	CtrStkDsplyOp2_D_Rq
Centerstack Settings HMI	Feature2.Rq : FeatureID	CtrStkFeat2NoActl
Client (APIM, CHR)	Feature2.Rq : Configuration	CtrStkFeat2ConfigActl
	Feature2.Rq : PersIndex	CtrStkPersIndex2_D_ActI
Cluster Feature Settings	Feature2.St : FeatureID	FeatNolpc2Actl
Server / Settings	Feature2.St : Configuration	FeatConfigIpc2Actl
Gateway_Translator Module	Feature2.St : PersIndex	PersIndexIpc2_D_ActI

#### Centerstack Settings HMI Client requirements:

The feature numbers under the section "Cluster Settings with dedicated FBMP section" shall be used by the Centerstack Settings HMI Client for sending Feature2.Rq Query and Set requests (Feature.Rq shall not be used).

• Example: If feature number 0x1234 is listed in the "Cluster Settings with dedicated FBMP section" then only Feature2.Rq and Feature2.St dedicated signals shall ever be used with feature number 0x1234.

The Centerstack Settings HMI Client shall query the settings under "Cluster Settings with dedicated FBMP section" with Feature 2.Rq at the same time it is querying the other settings in this spec using Feature.Rq. Since these are done in parallel this will speed up the process to query all the settings when ignition goes to Run.

#### Cluster requirements:

The Cluster shall be able to support responding to both Feature.Rq and Feature2.Rq concurrently since these are different feature numbers that never overlap.

For the Cluster it shall respond to any feature number in the Feature.Rq/Feature2.Rq with the corresponding Feature.St/Feature2.St message

- Example1: The Centerstack Settings HMI Client performs a Query or Set operation for feature number 0x1234 using Feature.Rq. The Cluster shall respond back to the Query or Set operation for feature number 0x1234 using Feature.St.
- Example2: The Centerstack Setting HMI Client performs a Query or Set operation for feature number 0x1234 using Feature2.Rq. The Cluster shall respond back to the Query or Set operation for feature number 0x1234 using Feature2.St.

#### 3.5.2.2 VS-SR-REQ-364389/A-Settings Start-up

The Settings under "Cluster Settings with dedicated FBMP messages" shall be queried by the Centerstack Settings HMI Client when the Ignition\_Status changes from OFF/ACC to Run. See the FBMP SPSS for details on querying at start-up when ignition\_status changes to Run.

When Ignition\_Status changes from Run to OFF/ACC the Settings shall be considered unknown. The HMI should not show any settings selections when Settings selection information is unknown.

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## 3.5.2.3 VS-SR-REQ-364390/A-HMI Activation during Run

Settings in this "Cluster Settings with dedicated FBMP messages" section can only be selected on the HMI when the Ignition Status = Run.

# 3.5.3 VS-FUN-REQ-364615/A-Engine Oil Temp

## 3.5.3.1 Requirements

## 3.5.3.1.1 <u>VS-SR-REQ-364614/A-Engine Oil Temp Life Gauge - Cluster menu</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Engine Oil Temp Gauge –	0x096B	0x00	OFF / Disabled
Cluster menu	UX096B	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1040		

## 3.5.4 VS-FUN-REQ-364616/A-Power Gauge

#### 3.5.4.1 Requirements

#### 3.5.4.1.1 VS-SR-REQ-365515/A-Power Gauge - Cluster Menu

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Power Gauge – Cluster menu	0x096C	0x00	OFF / Disabled
	0x0900	0x01	ON / Enabled

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Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID			
1041			

#### 3.5.5 VS-FUN-REQ-365516/A-Tachometer

# 3.5.5.1 Requirements

# 3.5.5.1.1 VS-SR-REQ-365517/A-Tachometer Gauge - Cluster menu

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Tachometer Gauge – Cluster	0x096D	0x00	OFF / Disabled
menu	00000	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1042

#### 3.5.6 VS-FUN-REQ-365529/A-Oil Life

#### 3.5.6.1 Requirements

# 3.5.6.1.1 MD-REQ-369894/A-EngOilLife\_Pc\_Actl

Message Type: Status

Status signal from the Engine Oil Life Server with the oil life percentage until the oil life has expired

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Logical Signal Name	Literals	Value	Description
	0 percent oil life	0x0	
	1 percent oil life	0x1	
EngOilLife_Pc_ActI	2 percent oil life	0x2	
	99 percent oil life	0x63	
	100 percent oil life	0x64	

# 3.5.6.1.2 VS-SR-REQ-365551/A-Oil Life Percentage

The signal EngOilLife\_Pc\_ActI shall be used for oil life percentage HMI if displayed in the Centerstack HMI

HMI Settings ID		
1044		

#### 3.5.6.1.3 VS-SR-REQ-365550/A-Oil Life Reset

For this feature when performing the "Set" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number  HMI selection / Configuration Nam	
		0x00	Null / Inactive
Oil Life Reset	0x096F	0x01	Reset (Request from Centerstack Settings HMI Client)
		0x2	Oil Life Reset Successful (Response from the Feature Server)
		0x3	Oil Life Not Reset (Response from the Feature Server)

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

The Centerstack Settings HMI Client shall not query this feature number at start-up as this is a reset function. If it was queried at start-up as an error state then the Oil Life Reset Server would respond back with 0x0 Null / Inactive.

If some kind of Notification/Pop-ups are supported on the Centerstack Settings HMI Client (ex Successful / Not Successful) then configuration numbers 0x2 and 0x3 would be used to indicate success or failure to reset. The Notification/Pop-up shall only occur when 0x2 or 0x3 is first set (periodic message on the bus of the same state would not re-initiate a pop-up).

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HMI Setting ID
1043

#### 3.5.7 VS-FUN-REQ-365643/A-Cluster IoD menu configurations

# 3.5.7.1 Requirements

#### 3.5.7.1.1 VS-SR-REQ-365685/A-Calm Screen - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Calm Screen – Cluster IoD	0x0980	0x00	OFF / Disabled
config	00000	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1045

# 3.5.7.1.2 <u>VS-SR-REQ-365686/A-Trip 1 - Cluster IoD config</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trip 1 – Cluster IoD config	0x0981	0x00	00 OFF / Disabled
	0,0901	0x01	ON / Enabled

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Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI S	Setting ID
1	046

# 3.5.7.1.3 <u>VS-SR-REQ-365687/A-Trip 2 - Cluster IoD config</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trip 2 – Cluster IoD config	0x0982	0x00 OFF / Disabled	OFF / Disabled
	0,0902	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID	
1047	

## 3.5.7.1.4 VS-SR-REQ-365688/A-This Trip - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
This Trip – Cluster IoD config	0x0983	0x00	OFF / Disabled
	0x0903	0x01	ON / Enabled

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HMI Setting ID
1048

# 3.5.7.1.5 VS-SR-REQ-365689/A-Fuel Economy - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Fuel Economy – Cluster IoD	0x0984	0x00	OFF / Disabled
config	0x0904	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1049

# 3.5.7.1.6 <u>VS-SR-REQ-365690/A-Electric Efficiency - Cluster IoD config</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	
Electric Efficiency – Cluster IoD	0x0985	0x00	OFF / Disabled	
config	000903	0x01	ON / Enabled	

HMI Setting ID
1050

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## 3.5.7.1.7 VS-SR-REQ-365691/A-Eco Behaviors - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Eco Behaviors – Cluster IoD config	0x0986	0x00	OFF / Disabled
	0,0900	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1051		

#### 3.5.7.1.8 VS-SR-REQ-365692/A-EV Coach - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
EV Coach – Cluster IoD config	0x0987	0x00	OFF / Disabled
	0,00001	0x01	ON / Enabled

HMI Setting ID	
1052	



# 3.5.7.1.9 VS-SR-REQ-365696/A-Auto Start Stop - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Start Stop – Cluster IoD config	0x0988	0x00	OFF / Disabled
	0.0000	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1053		

# 3.5.7.1.10 VS-SR-REQ-365697/A-Seatbelt Status - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Seatbelt Status – Cluster IoD config	0x0989	0x00	OFF / Disabled
	0,0909	0x01	ON / Enabled

HMI Setting ID		
1054		



# 3.5.7.1.11 VS-SR-REQ-365701/A-TPMS - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
TPMS – Cluster IoD config	0x098A	0x00	OFF / Disabled
	UXU90A	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1055

# 3.5.7.1.12 VS-SR-REQ-365706/A-Eco Coach - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Eco Coach – Cluster IoD config	0x098B	0x00	OFF / Disabled
	000900	0x01	ON / Enabled

HMI Setting ID				
1056				



## 3.5.7.1.13 VS-SR-REQ-365722/A-Now Playing (Audio / Phone) - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Now Playing (Audio / Phone) –	0x098C	0x00	OFF / Disabled
Cluster IoD config		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID				
1057				

# 3.5.7.1.14 VS-SR-REQ-365740/A-Nav / Compass - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Nav / Compass – Cluster IoD	0x098D	0x00	OFF / Disabled
config	0x090D	0x01	ON / Enabled

HMI Setting ID				
1058				



# 3.5.7.1.15 VS-SR-REQ-365741/A-Average Speed - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Average Speed – Cluster IoD	0x098E	0x00	OFF / Disabled
config		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID				
1059				

# 3.5.7.1.16 VS-SR-REQ-365743/A-Battery Charge - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Battery Charge – Cluster IoD	0x098F	0x00	OFF / Disabled
config	0,0901	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID			
1060			

#### 3.5.7.1.17 VS-SR-REQ-365744/A-ADAS - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
ADAS - Cluster IoD config	0x0990	<del>0x00</del>	OFF / Disabled
ADAG — Glusier 10D corning	<del>0x0000</del>	<del>0x01</del>	<del>ON / Enabled</del>

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
<del>1061</del>		

## 3.5.7.1.18 VS-SR-REQ-365745/A-Maps / Augmented Reality - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Maps / Augmented Reality – Cluster IoD config	0x0991	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1062		

## 3.5.7.1.19 VS-SR-REQ-369132/A-Classic View - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Classic View – Cluster IoD config	0x0992	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1078		

# 3.5.7.1.20 VS-SR-REQ-404307/A-Status Screen - Cluster IoD config

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Status Screen – Cluster IoD config	0x0993	0x00	OFF / Disabled
		0x01	ON / Enabled

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1089		

# 3.5.8 VS-FUN-REQ-365765/A-Cluster Trip 1 menu

## 3.5.8.1 Requirements

#### 3.5.8.1.1 VS-SR-REQ-365846/A-Cluster Trip 1 Menu Reset

For this feature when performing the "Set" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Cluster Trip 1 menu reset	0x09A0	0x00	Null / Inactive
		0x01	Reset All values for Trip 1
		0x02	Reset Trip 1 Odometer
		0x03	Reset Trip 1 Average Speed
		0x04	Reset Trip 1 Average Fuel

#### Note:

- this feature number uses Feature2.Rq and Feature2.St feature based message protocol
- configuration numbers 0x01 0x04 are all requests from the Centerstack Settings HMI Client

The Centerstack Settings HMI Client shall not query this feature number at start-up as this is a reset function. If it was queried at start-up as an error state then the Cluster Trip 1 Menu Reset Server would respond back with 0x0 Null / Inactive.

HMI Setting ID	
1063	

#### 3.5.8.1.2 VS-SR-REQ-365847/A-Set to Default - configure Cluster Trip 1 view

For this feature when performing the "Set" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Set to Default – configure Cluster Trip 1 view	0x09A1	0x00	Null / Inactive
		0x01	Default Trip 1 view (Request from Centerstack Settings HMI Client)

Note: this feature number uses Feature2.Rq and Feature2.St feature based message protocol

The Centerstack Settings HMI Client shall not query this feature number at start-up as this is a set only function. If it was queried at start-up as an error state then the Set to Default Server would respond back with 0x0 Null / Inactive.

HMI Setting ID		
1064		

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#### 3.5.8.1.3 VS-SR-REQ-365855/A-Trip 1 Odometer - configure Cluster Trip 1 view

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trip 1 Odometer – configure Cluster Trip 1 view	0x09A2	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1065

# 3.5.8.1.4 <u>VS-SR-REQ-365858/A-Trip 1 Timer - configure Cluster Trip 1 view</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trip 1 Timer – configure Cluster Trip 1 view	0x09A3	0x00	OFF / Disabled
		0x01	ON / Enabled

HMI Setting ID
1066



#### 3.5.8.1.5 VS-SR-REQ-365860/A-Average Speed - configure Cluster Trip 1 view

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Average Speed – configure Cluster Trip 1 view	0x09A4	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1067

#### 3.5.8.1.6 VS-SR-REQ-365864/A-Average Fuel - configure Cluster Trip 1 view

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Average Fuel – configure Cluster Trip 1 view	0x09A5	0x00	OFF / Disabled
		0x01	ON / Enabled

HMI Setting ID	
1068	



#### 3.5.8.1.7 VS-SR-REQ-365865/A-Instantaneous Fuel - configure Cluster Trip 1 view

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Instantaneous Fuel – configure	0x09A6	0x00	OFF / Disabled
Cluster Trip 1 view		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1069		

#### 3.5.9 VS-FUN-REQ-365845/A-Cluster Trip 2 menu

## 3.5.9.1 Requirements

#### 3.5.9.1.1 VS-SR-REQ-365866/A-Cluster Trip 2 Menu Reset

For this feature when performing the "Set" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	Null / Inactive
		0x01	Reset All values for Trip 2
Cluster Trip 2 menu reset	0x09B0	0x02	Reset Trip 2 Odometer
		0x03	Reset Trip 2 Average Speed
		0x04	Reset Trip 2 Average Fuel

#### Note:

- this feature number uses Feature2.Rq and Feature2.St feature based message protocol
- configuration numbers 0x01 0x04 are all requests from the Centerstack Settings HMI Client

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The Centerstack Settings HMI Client shall not query this feature number at start-up as this is a reset function. If it was queried at start-up as an error state then the Cluster Trip 2 Menu Reset Server would respond back with 0x0 Null / Inactive.

HMI Setting ID		
1070		

#### 3.5.9.1.2 VS-SR-REQ-365867/A-Set to Default - configure Cluster Trip 2 view

For this feature when performing the "Set" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Set to Default – configure	0.0004	0x00	Null / Inactive
Cluster Trip 2 view	0x09B1	0x01	Default Trip 2 view (Request from Centerstack Settings HMI Client)

Note: this feature number uses Feature2.Rq and Feature2.St feature based message protocol

The Centerstack Settings HMI Client shall not query this feature number at start-up as this is a set only function. If it was queried at start-up as an error state then the Set to Default Server would respond back with 0x0 Null / Inactive.

HMI Setting ID
1071

#### 3.5.9.1.3 VS-SR-REQ-365877/A-Trip 2 Odometer - configure Cluster Trip 2 view

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trip 2 Odometer – configure	0x09B2	0x00	OFF / Disabled
Cluster Trip 2 view		0x01	ON / Enabled

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HMI Setting ID		
1072		

#### 3.5.9.1.4 VS-SR-REQ-365878/A-Trip 2 Timer - configure Cluster Trip 2 view

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trip 2 Timer – configure Cluster	0x09B3	0x00	OFF / Disabled
Trip 2 view		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1073

# 3.5.9.1.5 <u>VS-SR-REQ-365880/A-Average Speed - configure Cluster Trip 2 view</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Average Speed – configure Cluster Trip 2 view	0x09B4	0x00	OFF / Disabled
	0,0904	0x01	ON / Enabled

HMI Setting ID			
1074			

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# 3.5.9.1.6 <u>VS-SR-REQ-365884/A-Average Fuel - configure Cluster Trip 2 view</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Average Fuel – configure Cluster Trip 2 view	0x09B5	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID			
1075			

# 3.5.9.1.7 <u>VS-SR-REQ-365885/A-Instantaneous Fuel - configure Cluster Trip 2 view</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Instantaneous Fuel – configure	0v00R6	0x00	OFF / Disabled
Cluster Trip 2 view	0x09B6	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1076		

#### 3.5.10 VS-FUN-REQ-369169/A-Classic View - Cluster Speedo view

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#### 3.5.10.1 Requirements

# 3.5.10.1.1 VS-SR-REQ-369170/A-Classic View - Cluster Speedo view - Cluster Menu

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Classic View – Cluster Speedo	0x0970	0x00	Digital Speedometer only
view – Cluster Menu	0x0970	0x01	Round Speedometer Gauge

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID				
1079				

#### 3.5.11 VS-FUN-REQ-393166/A-Classic Gauges - Cluster Menu

#### 3.5.11.1 Requirements

## 3.5.11.1.1 VS-SR-REQ-384384/A-Classic Gauge

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Classic Gauges – Cluster Menu	0x0971	0x00	OFF / Disabled
		0x01	ON / Enabled

HMI Setting ID			
	1082		

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## 3.5.12 VS-FUN-REQ-404378/A-Cluster Appearance

#### 3.5.12.1 Overview

Cluster Appearance consists of a list of IPC Display Layouts that can be selected by the vehicle occupant. Once an IPC Display Layout Menu item is selected, the cluster display will be updated to the selected IPC Display Layout.

#### 3.5.12.2 Requirements

#### 3.5.12.2.1 VS-SR-REQ-404379/A-Cluster Appearance

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	
	0x0973	0x00	Change with Drive Mode	
		0x01	Normal	
		0x02	Sport	
Cluster Appearance – Cluster Menu		0x03	Track	
		0,0070	0x04	Calm
		0x05	67 – 68 Mustang	
		0x06	87 – 93 Mustang	
		0x07	99 – 01 SVT Cobra	

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1088		

# 3.5.13 VS-FUN-REQ-404408/A-Performance Shift Indicator - Cluster menu

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#### 3.5.13.1 Overview

Performance Shift Indicator activates an animation in the cluster that will illuminate based on a shift point set by the user. There are 3 different type of shift lights that give feedback to the driver of when to shift differently. Tach mode uses color changes within the Tachometer to indicate when to shift. Track mode is quite different, when the engine revs build, unique elements looking like LEDs light up from the outside ends to the center until the shift point is reached, then the whole LED bar flashes. In Drag mode, as in the other two, the customer sets the shift point but nothing happens until the engine reaches the preset RPM threshold, then the cluster will flash some portions of the screen in amber.

#### 3.5.13.2 Requirements

#### 3.5.13.2.1 <u>VS-SR-REQ-404459/A-Shift Point Setup - RPM</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	
	0x0D0F	0x0000	0 RPM	
		0x0001	100 RPM	
Shift Point set-up - RPM		0x0002	200 RPM	
			0x0003	300 RPM
		0x0050	8000 RPM	

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1090		

## 3.5.13.2.2 VS-SR-REQ-404460/A-Shift Tone

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Shift Tone	0x0D10	0x00	OFF / Disabled
		0x01	ON / Enabled

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1091		

# 3.5.13.2.3 <u>VS-SR-REQ-404461/A-Shift Light Mode</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Shift Light Mode	0x0D11	0x00	OFF / Disabled
		0x01	Tach
		0x02	Track
		0x03	Drag

HMI Setting ID		
1092		



#### 3.5.14 VS-FUN-REQ-279097/B-MyColor

#### 3.5.14.1 Overview

MyColor allows the user to select pre-defined colors for the Primary and Secondary elements in the Cluster and Centerstack and the pre-defined colors for Ambient Lighting.

#### 3.5.14.2 Requirements

#### 3.5.14.2.1 VS-SR-REQ-415044/A-Centerstack and Cluster HMI both supporting MyColor

This requirement is only applicable if the Centerstack module supports both the MyColor Setting AND updating the Centerstack HMI based on the MyColor selected (ie update Centerstack HMI (ex a graphic) to the color selected on the MyColor setting screen). This requirement is not about the setting itself. See the Centerstack HMI spec if the MyColor Primary Color, Secondary Color or Ambient Lighting color (or combination of them) is supported as a color on the Centerstack HMI.

The Centerstack module shall update the color used for its HMI not based on the user selection but based on the Feature.St signal that is received from the MyColor Settings Server.

Note: for the lead program on S650 the MyColor Setting Server was the Cluster module.

#### 3.5.14.2.2 VS-SR-REQ-279098/D-Gauge Color / Primary Color - MyColor

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	<del>0x0940</del>	<del>0x0</del>	OFF
		<del>0x1</del>	<del>lce Blue</del>
		<del>0x2</del>	-Copper
		0x3	Green
		0x4	<del>Purple</del>
Gauge Color / Primary Color - MyColor		<del>0x5</del>	Blue
		0x6 - Dark Coppe	-Dark Copper
		<del>0x7</del>	Red
		0x8 MyColor1 0x9 MyColor2	MyColor1
			MyColor2
		<del>0xA</del>	MyColor3



Feature Description	<u>Feature</u> <u>Number</u>	Configuration Number	HMI selection / Configuration Name
Gauge Color / Primary Color - MyColor		<u>0x0</u>	<u>OFF</u>
		<u>0x1</u>	Color 1
		<u>0x2</u>	Color 2
		<u>0x3</u>	Color 3
	<u>0x0940</u>	<u>Cont.</u>	<u></u>
		<u>0x1A</u>	Color 26
		<u>0x1B</u>	Color 27
		<u>0x1C</u>	Color 28

This setting uses Feature2.Rq and Feature2.St feature based message protocol

Req: This feature number and the configuration numbers are also used for both "Gauge Color" HMI and "Primary Color" HMI.

• See HMI specification for configuration used to distinguish between Gauge Color and Primary Color HMI.

HMI Setting ID			
254			

# 3.5.14.2.3 VS-SR-REQ-279099/D-Halo Color / Secondary Color - MyColor

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Halo Color / Secondary Color - MyColor		<del>0x0</del>	OFF
		<del>0x1</del>	<del>lce Blue</del>
	<del>0x0941</del>	<del>0x2</del>	-Copper
		<del>0x3</del>	Green

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ed)	Ford Motor Company		Engineering Specifi	cation
		<del>0x4</del>	Purple	
		<del>0x5</del>	Blue	
		<del>0x6</del>	-Dark Copper	
		<del>0x7</del>	Red	
		0x8	MyColor1	
		<del>0x9</del>	MyColor2	
		<del>0xA</del>	MyColor3	

**Subsystem Part Specific Specification** 

Feature Description	<u>Feature</u> <u>Number</u>	Configuration Number	HMI selection / Configuration Name
Halo Color / Secondary Color - MyColor	<u>0x0941</u>	<u>0x0</u>	<u>OFF</u>
		<u>0x1</u>	Color 1
		<u>0x2</u>	Color 2
		<u>0x3</u>	Color 3
		cont.	<u></u>
		<u>0x1A</u>	Color 26
		<u>0x1B</u>	Color 27
		<u>0x1C</u>	Color 28

This setting uses Feature2.Rq and Feature2.St feature based message protocol

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Req: This feature number and the configuration numbers are also used for both "Halo Color" HMI and "Secondary Color" HMI.

• See HMI specification for configuration used to distinguish between Halo Color and Gauge Color HMI.

HMI Settings ID		
255		

# 3.5.14.2.4 VS-SR-REQ-279101/D-Halo Lighting / Secondary Lighting - MyColor - DELETED

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Halo Lighting / Secondary Lighting - MyColor		<del>0x0</del>	OFF / Disabled
	<del>0x0942</del>	<del>0x1</del>	ON / Enabled

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Settings ID			
<del>242</del>			

#### 3.5.14.2.5 VS-SR-REQ-280522/D-Color Wheel 1 - MyColor - DELETED

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	<del>0x0943</del>	<del>0x00</del>	<del>OFF</del>
		<del>0x01</del>	<del>Color 1</del>
Color Wheel 1 – MyColor		<del>0x02</del>	<del>Color 2</del>
		<del>0x03</del>	<del>Color 3</del>
		cont.	<del></del>
		0x18	Color 24
		0x19	<del>Color 25</del>
		<del>0x1A</del>	<del>Color 26</del>

HMI Setting ID	
<del>247</del>	



# 3.5.14.2.6 VS-SR-REQ-280523/D-Color Wheel 2 - MyColor - DELETED

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	<del>0x09</del> 44	<del>0x00</del>	<del>OFF</del>
		<del>0x01</del>	<del>Color 1</del>
Color Wheel 2 - MyColor		<del>0x02</del>	<del>Color 2</del>
		0x03	<del>Color 3</del>
		cont.	<del></del>
		0x18	Color 24
		0x19	<del>Color 25</del>
		0x1A	<del>Color 26</del>

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID			
<del>248</del>			

#### 3.5.14.2.7 VS-SR-REQ-280524/D-Color Wheel 3 - MyColor - DELETED

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	<del>0x0945</del>	<del>0x00</del>	<del>OFF</del>
		<del>0x01</del>	<del>Color 1</del>
		<del>0x02</del>	<del>Color 2</del>
Calan What a loo May Calan		<del>0x03</del>	<del>Color 3</del>
Color Wheel 3 - MyColor		cont.	<del></del>
		0x18	Color 24
		0x19	<del>Color 25</del>
		<del>0x1A</del>	<del>Color 26</del>

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HMI Setting ID				
<del>249</del>				

#### 3.5.14.2.8 VS-SR-REQ-279104/C-Ambient Lighting - MyColor

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Ambient Lighting - MyColor 0x0		0x00	OFF / Disabled
	0x0946	0x01	Low Dim (and On)
		0x02	High Dim (and On)

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID			
256			

# 3.5.14.2.9 VS-SR-REQ-280525/E-Ambient Light Color - MyColor

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rg and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Ambient Light Color - MyColor	<del>0x0947</del>	<del>0x0</del>	OFF
		<del>0x1</del>	<del>lce Blue</del>
		<del>0x2</del>	White
		<del>0x3</del>	Green

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rd	Ford Motor Company		Subsystem Part Specific Specific Engineering Specific	ation
		<del>0x4</del>	<del>Purple</del>	
		<del>0x5</del>	Blue	
		<del>0x6</del>	Orange	
		<del>0x7</del>	Red	
		<del>0x8</del>	MyColor1	
		<del>0x9</del>	MyColor2	
		<del>0xA</del>	MyColor3	

This setting uses Feature2.Rq and Feature2.St feature based message protocol

Feature Description	<u>Feature</u> <u>Number</u>	Configuration Number	HMI selection / Configuration Name
	<u>0x0947</u>	<u>0x0</u>	<u>OFF</u>
		<u>0x1</u>	Color 1
		<u>0x2</u>	Color 2
Ambient Light Color - MyColor		<u>0x3</u>	Color 3
		cont.	<u></u>
		<u>0x1A</u>	Color 26
		<u>0x1B</u>	Color 27
		<u>0x1C</u>	Color 28

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
258

# 3.5.14.2.10<u>VS-SR-REQ-280526/C-Ambient Light Dim - MyColor - DELETED</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

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If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

#### REQUIREMENT DELETED

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Ambient Light Dim -		<del>0x00</del>	OFF / Disabled
<del>MyColor</del>	<del>0x0948</del>	<del>0x01</del>	ON / Enabled

This setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID	
<del>257</del>	

#### 3.5.15 VS-FUN-REQ-280671/B-Exhaust Mode

#### 3.5.15.1 Overview

Exhaust mode allows the user to customize the loudness of the exhaust.

#### 3.5.15.2 Requirements

#### 3.5.15.2.1 <u>VS-SR-REQ-280672/C-Exhaust Mode</u>

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Exhaust Mode	0x0D09	0x00	Quiet / Stealth
		0x01	Normal
		0x02	Sport
		0x03	Track

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HMI Setting ID
250

#### 3.5.16 VS-FUN-REQ-423284/A-Drive Mode Transition Chime

#### 3.5.16.1 Requirements

# 3.5.16.1.1 VS-SR-REQ-423285/A-Drive Mode Transition Chime

For this feature when performing the "Set" or "Query" operation the Feature Number and Configuration Number in the Feature.Rq and Feature.St messages shall be used below.

If Enhanced Memory is supported the Active Personality Profile shall be used for PersIndex. If Enhanced Memory is not supported PersIndex shall be set to Vehicle.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Drive Mode Transition Chime	0x0949	0x00	OFF / Disabled
		0x01	ON / Enabled

HMI Setting ID	
1094	



# 4 Appendix: Reference Documents

Reference	Document Title
#	
1	Feature Based Message Protocol SPSS
	Nothing earlier than April 2017 release
2	Driver Restrictions SPSS
3	HMI Driver Restriction specification(s)
	<ul> <li>For SYNC H21J_SYNC_GEN3_Driver_Restrictions</li> </ul>
4	Setting in the Centerstack HMI specifications
	<ul> <li>For SYNC H31k HMI spec and SYNC H31K supplement</li> </ul>
5	Vehicle Settings (Global) SPSS
6	MyKey Settings in the Centerstack SPSS
7	Infotainment Diagnostics Specification
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