



Research & Vehicle Technology "Infotainment Systems Product Development"

Feature: Settings in the Infotainment Centerstack Module (Global)

Subsystem Part Specific Specification (SPSS)

Version: v1.19
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Version Date: June 18, 2020

FORD CONFIDENTIAL



Revision History

0.1	Initial Draft Release	
0.2		
0.2		1
0.2		
IIR-REQ-251	250/B-Logical Signal to HS3 CAN dB signal	<pre><jmyslin2> added traffic sign recognition signals used to not allow</jmyslin2></pre>
name transla		the user to select the traffic sign recognition HMI settings
	232098/J-Feature Based Message Protocol	<jmyslin2> Added clarifications in track changes for what to do in</jmyslin2>
	tings in the Infotainment Centerstack Display	the HMI if a Settings Feature Server is not responding to a query or set command
	232237/F-FBMP Feature St received from	<jmyslin2> Clarified requirement that Centerstack HMI Client</jmyslin2>
		receives the Feature. St even if not for a Set or Query operation
		<pre><jmyslin2> New requirement. This requirement specifies when</jmyslin2></pre>
HMI not user	selectable	the Traffic Sign Recognition settings are not user selectable
0.3		
IID-DEO-251	250/C-Logical Signal to HS3 CAN dB signal	<jmyslin2> Updated requirement to remove HMIAudioMode since</jmyslin2>
		Queries will now only be done for Settings in the Centerstack
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0000001165	after Ignition_Statuschangesto Run
	•	<jmyslin2> Updated requirement to clarify for a crankevent</jmyslin2>
•	imgsm the imotal linent centerstack bispray	
	004400/5 0	<pre><jmyslin2> Updated General Settings queary at start-up so that it</jmyslin2></pre>
VS-SR-REQ-:	234428/E-General Settingsat Start-up	is only done after Ingnition_Status changes to Run
0.4		
_	L 232098/L-Feature Based Message Protocol	<jmyslin2> Updated so that reference most recent Feature Based</jmyslin2>
		Message Protocol which is needed to go along with this Settings
Module		in the Centerstack spec
-	rofile change using Feature Based Message	<pre><jmyslin2> spec clarication (no content change)</jmyslin2></pre>
	232245/F-Cruise Control	<jmyslin2> fixed a typo</jmyslin2>
VS-SR-REQ-	259080/A-HMI Activation during Run -	, , , , , , , , , , , , , , , , , , , ,
	_	<pre><jmyslin2> New requirement</jmyslin2></pre>
		<jmyslin2> Updated requirement to say for the Active Remote</jmyslin2>
VS-SR-REQ-	234316/D-Duration - Remote Start	Start (enabled/disable) HMI the OFF/Disable settings uses the 10 minutes as the setting for OFF
	•	minutes as the setting for OFF
		<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><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></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><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></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><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></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><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>
		signalsusage
-	-	<pre></pre> <pre></pre> <pre></pre> <pre> <pre>myslin2> Added Clarification for the TsrVIUnitMsgTxt_D_Rq</pre></pre>
		signalsusage
1.0.1		
		<jmyslin2> removed HMI error handling for Query requests and</jmyslin2>
	tings in the Infotainment Centerstack Display	deferred to the HMI specification
	242420/P EV. Modo	dimedia? EV. Mode cetting indulated
VS-SR-REQ-242439/B-EV+ Mode VS-SR-REQ-267623/A-Heater Programming - ParkHeater		<pre><jmyslin2> EV+ Mode setting is deleted <jmyslin2> New Requirement</jmyslin2></jmyslin2></pre>
		1 July 2002 1 104 Hodging 105 1
1.1		
	271525/A-Lane Keeping Aid	<jmyslin2> New Requirement for Lane Keeping Aid</jmyslin2>
· =		<jmyslin2> New Requirement for Lane Keeping Alert</jmyslin2>
FILE: SETTINGS IN INFOTAINMENT CENTERSTACK SPSS v1.19 Jun 18, 2020 FORD MOTOR COMPANY CONFIDENTIAL Page 2 of 155 The information contained in this document is Proprietary to Ford Motor Company.		
	usage for Set Module VS-SR-REQ- any FBMP Fe VS-SR-REQ- HMI not user 0.3 IIR-REQ-251: name transla VS-SR-REQ- usage for Set Module VS-SR-REQ- usage for Set Module VS-SR-REQ- Usage for Set Module FBMP-SR-REQ- Usage for Set Module FBMP-SR-REQ- Traffic Sign F VS-SR-REQ- Traffic Sign F VS-SR-REQ- Usage for Set Module I.0 VS-SR-REQ- US-SR-REQ- US-SR-REQ- US-SR-REQ- US-SR-REQ- US-SR-REQ- US-SR-REQ- VS-SR-REQ-	usage for Settings in the Infotainment Centerstack Display Module VS-SR-REQ-232237/F-FBMP Feature. St received from any FBMP Feature Settings Server module VS-SR-REQ-251193/A-Traffic Sign Recognition Settings HMI not user selectable 0.3 IIR-REQ-251250/C-Logical Signal to HS3 CAN dB signal name translation table VS-SR-REQ-232098/K-Feature Based Message Protocol usage for Settings in the Infotainment Centerstack Display Module VS-SR-REQ-234428/E-General Settings at Start-up 0.4 VS-SR-REQ-232098/L-Feature Based Message Protocol usage for Settings in the Infotainment Centerstack Display Module FBMP-SR-REQ-232098/L-Feature Based Message Protocol usage for Settings in the Infotainment Centerstack Display Module FBMP-SR-REQ-232245/F-Cruise Control VS-SR-REQ-232245/F-Cruise Control VS-SR-REQ-259080/A-HMI Activation during Run-General Settings VS-SR-REQ-233862/G-LessThan Warning Threshold-Traffic Sign Recognition VS-SR-REQ-233867/G-Greater than Warning Threshold-Traffic Sign Recognition 1.0.1 VS-SR-REQ-232098/M-Feature Based Message Protocol usage for Settings in the Infotainment Centerstack Display Module VS-SR-REQ-242439/B-EV+ Mode VS-SR-REQ-242439/B-EV+ Mode VS-SR-REQ-271525/A-Lane Keeping Aid VS-SR-REQ-271525/A-Lane Keeping Alert NINFOTAINMENT FORD MOTOR COM





	VS-FUN-REQ-233809/B-Traffic Sign Recognition	<pre><jmyslin2> Updatedfor Speed Limit Information</jmyslin2></pre>
	VS-SR-REQ-233812/D-Enable/Disable (Traffic Sign	<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><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></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><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></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><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></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><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>
	Recognition / Speed Limit Information) Feature	Information
	VS-SR-REQ-233862/H-Less Than Warning Threshold -	
	(Traffic Sign Recognition / Speed Limit Information)	<pre><jmyslin2> Updated for Speed Limit Information</jmyslin2></pre>
	VS-SR-REQ-251193/B-Traffic Sign Recognition Settings/	
	Speed Limit Information HMI notuser selectable	<jmyslin2> Updated to include Speed Limit Information</jmyslin2>
	VS-FUN-REQ-272504/A-Speed Limit Information	<pre><jmyslin2> Added Speed Limit Information Function</jmyslin2></pre>
	VS-SR-REQ-233812/D-Enable/Disable (Traffic Sign	<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>
	Recognition / Speed Limit Information) Feature	Information
	<u> </u>	<jmyslin2> Updated Tow Haul setting encodings to match the</jmyslin2>
	VS-SR-REQ-239164/C-Tow Haul	new encodings provided by the HMI team
	VS-FUN-REQ-272332/A-Grade Assist	<pre><jmyslin2> New Grade Assist function</jmyslin2></pre>
	VS-SR-REQ-272333/A-Grade Assist	<pre><jmyslin2> New Requirement - Grade Assist</jmyslin2></pre>
	VS-SR-REQ-234061/D-Auto Engine OFF	<pre><jmyslin2> Added note about possible HMI name</jmyslin2></pre>
	VS-SR-REQ-234339/C-Auto Highbeam / Adaptive	
	Drivebeam	<pre><jmyslin2> Updated to include Adative Highbeam</jmyslin2></pre>
	VS-SR-REQ-272030/A-Predictive Lighting	<pre><jmyslin2> New Settingsfor Predictive Lighting</jmyslin2></pre>
	VS-SR-REQ-272687/A-Global Unlock	<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><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></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><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></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><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></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><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><!--</td--></pre></pre></pre></pre>
	VS-SR-REQ-272694/A-Intelligent Access	<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>
	VS-FUN-REQ-272705/A-Air Suspension	<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><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></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><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></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><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></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><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><!--</td--></pre></pre></pre></pre>
	VS-SR-REQ-272706/A-Air Suspension	<pre></pre> <pre><</pre>
	VS-FUN-REQ-2727007/A-Auto Entry/Exit Height	<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>
	VS-SR-REQ-272708/A-Auto Entry/Exit Height	<pre></pre> <pre><</pre>
***************************************	VO-ON-NEQ-272700/A-Adio Entry/Exit Height	CJIIIyamizz New requirement for Auto Entry Exterieignt
	<u> </u>	
August 25, 2017	1.2	
	VSv4-FRD-REQ-232097/E-Settings in the Infotainment	<jmyslin2> changed name to settings in the centerstack</jmyslin2>
	Centerstack (Global - CGEA)	
	IIR-REQ-251250/D-Logical Signal to HS3 CAN dB signal	<pre><jmyslin2> Updated table to add BttLeft_D_RqDrv and</jmyslin2></pre>
	name translation table	BttRight_D_RqDrv for new BTT Lite feature
	VS-IIR-REQ-243929/B-FBMP Interface requirements	<pre><jmyslin2> Updated to add BTT Lite MD's</jmyslin2></pre>
	VS-FUN-REQ-234029/B-ParkAid	<pre><jmyslin2> Per HMI team changed name from Rear Park Aid to</jmyslin2></pre>
		Park Aid
	VS-SR-REQ-234031/D-ParkAid	<jmyslin2> Per HMI changed name from Rear Park Aid to Park</jmyslin2>
	VO 51111 D 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Aid
	VS-FUN-REQ-273589/A-BTT Light (Blind Spot Trailer	<pre><jmyslin2> Need Function added for BTT Lite</jmyslin2></pre>
	Tow)	• •
	VS-SR-REQ-273590/A-Active Trailer Setting - BTT Lite	<jmyslin2> New requirement for new BTT Lite setting</jmyslin2>
	VS-SR-REQ-273689/A-Trailer Length - BTT Lite	<jmyslin2> New requirement for new BTT Lite setting</jmyslin2>
	VS-SR-REQ-273980/A-Pop-up Trailer Set-up Request -	<pre><jmyslin2> New requirement for new BTT Lite setting</jmyslin2></pre>
	BTT Lite	, , , , , , , , , , , , , , , , , , , ,
	VS-FUN-REQ-234059/B-Auto Engine OFF / 30min Max	<jmyslin2> Updated name per HMI group to 30 min max idle</jmyslin2>
	Idle	
	VS-SR-REQ-234061/E-Auto Engine OFF / 30 min max idle	<jmyslin2> changed name to 30 min maxidle from Auto Engine</jmyslin2>
		OFF per HMI group
	VS-SR-REQ-234339/D-Auto Highbeam / Adaptive	<jmyslin2> Updated to add Glare Free</jmyslin2>
	Drivebeam	
	VS-FUN-REQ-273580/A-Passenger Airbag	<jmyslin2> Need function added for Passenger Airbag</jmyslin2>
	VS-SR-REQ-273581/A-Passenger Airbag	<jmyslin2> New requirement for new passenger airbag setting</jmyslin2>
	VS-FUN-REQ-273582/A-Engine Start/Stop Speed	<pre><jmyslin2> Need Function added for Engine Start/Stop Speed</jmyslin2></pre>
	Threshold	Threshold
	VS-SR-REQ-273583/A-Engine Start/Stop Speed	<jmyslin2> New requirement for new engine start/stop speed</jmyslin2>
	Threshold	threshold setting
	VS-FUN-REQ-274739/A-Tire Mobility Kit	<pre><jmyslin2> Need function added for Tire Mobility</jmyslin2></pre>
	VS-SR-REQ-274740/A-Tire Mobility	<jmyslin2> New requirement for tire mobility setting</jmyslin2>
August 31, 2017	1.3	***************************************
, , , , , , , , , , , , , , , , , , ,	IIR-REQ-251250/E-Logical Signal to HS3 CAN dB signal	<pre><jmyslin2> Updated to include SUMA module Feature.St</jmyslin2></pre>
	name translation table	message
1		-

FILE: SETTINGS IN INFOTAINMENT	
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Ford	Ford Motor Company			art Specific Specification Engineering Specification
	VS-SR-REQ-273980/B-Pop-up Trailer Set-up Request - BTT Lite		<jmyslin2> added in an update regard</jmyslin2>	ding the BTT Lite pop-up
	VS-FUN-REQ-273582/B-Engine S Threshold (Auto Start/Stop Speed	Threshold)	<jmyslin2> Name change per HMI gr</jmyslin2>	oup
	VS-SR-REQ-273583/B-Engine Sta Threshold (Auto StartStop Speed 1	hreshold)	<pre><jmyslin2> Name updated per HMI</jmyslin2></pre>	
***************************************	VS-SR-REQ-274740/B-Tire Mobili	У	<pre><jmyslin2> Added SYNC HMI screen</jmyslin2></pre>	number
September 12, 2017	1.4			
	VS-SR-REQ-233914/D-Enable/Dis Traffic Sign Recognition/ Speed Li	mit Information	<jmyslin2> Updated for Speed Limit I</jmyslin2>	nformation
	VS-FUN-REQ-272504/B-Speed Listing Recognition	nit information/ Speed	<pre><jmyslin2> Updated name to include</jmyslin2></pre>	
	VS-SR-REQ-239164/D-Tow Haul	/= = !·	<pre><jmyslin2> Updated Tow Haul SYNC</jmyslin2></pre>	
	VS-SR-REQ-234232/D-Easy Entry		<jmyslin2> updated SYNC Screen HI</jmyslin2>	
	VS-SR-REQ-238327/C-Power Rur		<pre><jmyslin2> updated the SYNC screen</jmyslin2></pre>	
	VS-SR-REQ-272708/B-Auto Entry		<jmyslin2> Updated SYNC screen HN</jmyslin2>	
	VS-SR-REQ-273581/B-Passenger	Airbag	<pre><jmyslin2> added encoding for Passe</jmyslin2></pre>	enger Airbag gray out
September 27, 2017	1.5		***************************************	***************************************
	STR-389746/I-Interface Requirement	ents	<jmyslin2> added MD's</jmyslin2>	
	VS-IIR-REQ-243929/C-FBMPInte		<pre><jmyslin2> added MD's</jmyslin2></pre>	
	MD-REQ-243934/B-Disp_Miles_Ki	•	<pre><jmyslin2> Clarification only</jmyslin2></pre>	
	MD-REQ-276458/A-Vehicle_Spee		<pre><jmyslin2> created MD</jmyslin2></pre>	
	MD-REQ-276458/B-Vehicle_Spee		<pre><jmyslin2> MD clarification</jmyslin2></pre>	
	MD-REQ-276459/A-Vehicle_Spee		<pre><jmyslin2> created MD</jmyslin2></pre>	
	MD-REQ-239857/B-TsrVIUnitMsg1		<pre><jmyslin2> added clarification</jmyslin2></pre>	
	_	· ·		
	MD-REQ-276700/A-laccLamp_D_	•	<jmyslin2> New MD</jmyslin2>	
	MD-REQ-276704/A-SLMde_D_Rqdsply		<jmyslin2> New MD</jmyslin2>	
MD-REQ-276706/A-Aslicondsply_D_Rq MD-REQ-274072/B-BTTLeft_D_RqDrv			<pre><jmyslin2> New MD</jmyslin2></pre>	
MD-REQ-274072/B-BTTRight_D_RqDrv		•	<pre><jmyslin2> Removed FID in title</jmyslin2></pre>	
	<u> </u>	•	<jmyslin2> Removed FID in title</jmyslin2>	
IIR-REQ-251250/F-Logical Signal to HS3 name translation table VS-FUN-REQ-234230/B-Easy Entry / Easy Adjustment) VS-SR-REQ-234232/E-Easy Entry / Easy		•	<pre><jmyslin2> updated table with Vehicle</jmyslin2></pre>	e Speed CAN signals
		, ,	<pre><jmyslin2> updated name to Seat Ad <jmyslin2> Update name to seat adju</jmyslin2></jmyslin2></pre>	
	Adjustment)		wireframe number	siment and 5 finc
	VS-FUN-REQ-272707/B-Auto Entr Access Height) VS-SR-REQ-272708/C-Auto Entry		<pre><jmyslin2> Updated name to easy ac</jmyslin2></pre>	ŭ
	Access Height) VS-FUN-REQ-276182/A-Cargo Lo	5 ()	<jmyslin2> Update name to Easy Acc number <jmyslin2> New Setting requirement</jmyslin2></jmyslin2>	
	VS-SR-REQ-276183/A-Cargo Loa	_	<jmyslin2> New Setting requirement <jmyslin2> New requirement for Carg</jmyslin2></jmyslin2>	
	VS-SR-REQ-272706/B-Air Suspen		<jmyslin2> New requirement for Carg <jmyslin2> updated name to air suspensions.</jmyslin2></jmyslin2>	
000000000000000000000000000000000000000	VO ORTICA-212100/D-All Suspell	G0000000000000000000000000000000000000	Sinyonia / apaatea name to all suspe	51151011 1161911t
October 27, 2017	1.6			
	VSv4-FRD-REQ-232097/F-Setting Centerstack - Common Spec	sın the Infotainment	<jmyslin2> no content change just ca</jmyslin2>	lled Common Spec
	VS-SR-REQ-239158/E-Traction Co	ontrol	<pre><jmyslin2> Updated requirement in re</jmyslin2></pre>	aference to Advance Tree
	VS-SR-REQ-273581/C-Passenger		<jmyslin2> opdated requirement in telescopic control of the con</jmyslin2>	
VS-SK-REQ-273361/C-FasserigerAllb		Alibay	<jiiiysiiii2> upuateu passeriger anbaç</jiiiysiiii2>	g wire name number
December 14, 2017	·			
	VS-SR-REQ-232245/G-Cruise Cor		<jmyslin2> added HMI settings ID</jmyslin2>	
	VS-SR-REQ-232285/F-Lane Keep		<jmyslin2> added HMI Setting ID</jmyslin2>	
	VS-SR-REQ-233578/E-Lane Keep		<jmyslin2> add HMI Setting ID</jmyslin2>	
	VS-SR-REQ-233579/E-Lane Keep		<jmyslin2> updated HMI Setting ID</jmyslin2>	
	VS-SR-REQ-271525/B-Lane Keep	-	<jmyslin2> added HMI Setting ID</jmyslin2>	
VS-SR-REQ-271526/B-Lane Keeping Ale		ing Alert	<pre><jmyslin2> added HMI Settings ID</jmyslin2></pre>	
	N INCOTABINATION I	FORD MOTOR OCC	DANY CONFIDENTAL	Desi: 4 -1455
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VS-SR-REQ-239185/F-Pre-Collision Assist function -	imugling, added IMI Cattian ID
Enable / Disable	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-233575/G-Active Braking - Pre-Collision	<pre><jmyslin2> added FCW Active Braking HMI Setting ID</jmyslin2></pre>
Assist	Simyamiz> added tow Active Diaking fivil Setting ID
VS-SR-REQ-233577/I-Warning Sensitivity - Pre-Collision	<pre><jmyslin2> Added FCW Alert Sensitivy HMI Setting ID</jmyslin2></pre>
Assist	, ,
VS-SR-REQ-233812/E-Enable/Disable Traffic Sign	<jmyslin2> added active traffic sign recognition HMI Setting ID</jmyslin2>
Recognition / Speed Limit Information Feature 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 - Traffic Sign Recognition	<pre><jmyslin2> added HMI Setting ID for Over Speed Chime TSR</jmyslin2></pre>
VS-SR-REQ-233862/I-LessThan Warning Threshold-	Constitute and the HIMI Court of the
(Traffic Sign Recognition/Speed Limit Information)	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-233867/I-Greater than Warning Threshold -	<jmyslin2> added HMI Setting ID for TSR greater than warning</jmyslin2>
Traffic Sign Recognition	threshold
VS-SR-REQ-233944/E-Blindspot Detection (vehicle - non-	<pre><jmyslin2> added HMI Setting ID for blind spot</jmyslin2></pre>
trailer)	
VS-SR-REQ-233948/D-CrossTraffic 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	<pre><jmyslin2> added HMI Setting ID for Driver Alert Setting</jmyslin2></pre>
VS-SR-REQ-234028/D-Trailer Sway	<pre><jmyslin2> add HMI Setting ID for Trailer Sway setting</jmyslin2></pre>
VS-SR-REQ-234031/E-ParkAid	<pre><jmyslin2> added HMI Setting ID to Park Aid</jmyslin2></pre>
VS-SR-REQ-239158/F-Traction Control	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-239160/C-Hill Decent Control	<jmyslin2> added HMI Setting ID</jmyslin2>
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	<jmyslin2> created HMI Setting ID for Grade Assist</jmyslin2>
VS-SR-REQ-273590/B-Active Trailer Setting - BTT Lite	<jmyslin2> added HMI Setting ID for BTT Active Trailer</jmyslin2>
VS-SR-REQ-273689/B-Trailer Length - BTT Lite VS-SR-REQ-273583/C-Engine Start/Stop Speed	<pre><jmyslin2> add HMI Setting ID for BTT LiteTrailer Length</jmyslin2></pre>
Threshold (Auto StartStop Speed Threshold)	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-280535/D-Handling in Drive / Drive Control	<pre><jmyslin2> HMI team changed wireframe numbers so updated</jmyslin2></pre>
manual transmission / Driver Select Transmission	with new number
	<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>
VS-SR-REQ-281380/B-Handling in Sport - Drive Control	the numbers
VS-SR-REQ-281381/B-Performance in Sport - Drive	<pre><jmyslin2> addedfeature number</jmyslin2></pre>
Control	• •
VS-SR-REQ-280533/B-Steering in Drive / Steering with	<jmyslin2> updated SYNC HMI number since SYNC HMI team</jmyslin2>
Manual Transmission - Adaptive Steering	changed the wireframe number
VS-SR-REQ-280548/B-Steering in Sport - Adaptive	<jmyslin2> updated SYNC HMI numbers since SYNC HMI team</jmyslin2>
Steering	changed the number
VS-SR-REQ-280549/B-Adaptive Steering	<jmyslin2> updated SYNC HMI numbers since HMI team</jmyslin2>
VS-SR-REQ-234035/E-Tire Pressure Unit	changed their numbers <jmyslin2> added HMI setting ID</jmyslin2>
VS-SR-REQ-234035/E-Tire Pressure Unit VS-SR-REQ-234039/J-Measure Units	<pre><jmysin2> added HMI settings ID</jmysin2></pre>
VS-SR-REQ-234061/F-Auto Engine OFF / 30 min maxidle	<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></pre></pre></pre></pre></pre></pre></pre>
VS-SR-REQ-234235/D-ParkLockControl	<pre><jmysin2> added HMI Setting ID</jmysin2></pre>
VS-SR-REQ-234238/D-Silent Mode	<pre><jmyslin2> added filed Setting ID</jmyslin2></pre>
VS-SR-REQ-234285/D-Askon Exit - Alarm	<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>
VS-SR-REQ-234286/C-Sensor Set - Alarm	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234289/C-ParkSlot - Chimes	<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>
VS-SR-REQ-234290/C-Information - Chimes	<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>
VS-SR-REQ-234312/G-Climate Control (Heater / AC) -	·
Remote Start	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234313/G-Seats and Steering Wheel-	simualings added HMI Catting ID
Remote Start	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234316/E-Duration - Remote Start	<pre><jmyslin2> added HMI Settings ID</jmyslin2></pre>
VS-SR-REQ-234319/C-Global Window Open	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-234320/C-Global Window Close	<jmyslin2> added HMI Setting ID</jmyslin2>
VS-SR-REQ-234331/C-Courtesy Wiper	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
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•	
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 / Glare Free	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
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-LockTrim 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 - ParkHeater	<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	imudia?. addad IMI Cattian ID
Heater	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
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)	<pre><jmyslin2> added HMI Setting ID for seat adjustment</jmyslin2></pre>
VS-SR-REQ-272708/D-Auto Entry/Exit Height (Easy	simulais 25 added HMI setting ID
Access Height)	<pre><jmyslin2> added HMI setting ID</jmyslin2></pre>
VS-SR-REQ-272706/C-Air Suspension	<pre><jmyslin2> added HMI Setting ID</jmyslin2></pre>
VS-SR-REQ-279098/B-Gauge Color / Primary Color -	<pre><jmyslin2> added feature number</jmyslin2></pre>
MyColor	Sinyamizz addoctoctate namber
VS-SR-REQ-279099/B-Halo Color/ Secondary Color-	<jmyslin2> added feature number</jmyslin2>
MyColor	
VS-SR-REQ-280522/B-Color Wheel 1 - MyColor	<pre><jmyslin2> added feature number</jmyslin2></pre>
VS-SR-REQ-280523/B-Color Wheel 2 - MyColor	<pre><jmyslin2> added feature number</jmyslin2></pre>
VS-SR-REQ-280524/B-Color Wheel 3 - MyColor	<pre><jmyslin2> added feature number</jmyslin2></pre>
VS-SR-REQ-279104/B-Ambient Lighting - MyColor	<pre><jmyslin2> added feature number</jmyslin2></pre>
VS-SR-REQ-280525/B-Ambient Color - MyColor	<pre><jmyslin2> added feature number</jmyslin2></pre>
VS-SR-REQ-280526/B-Ambient Dim - MyColor	<pre><jmyslin2> addfeature number</jmyslin2></pre>
VS-SR-REQ-280528/B-Power Decklid / Liftgate	<jmyslin2> updated SYNC HMI wireframe ID per change by HMI team</jmyslin2>
VS-SR-REQ-280538/B-Auto Regen	<pre><jmyslin2> Addedfeature number</jmyslin2></pre>
VS-SR-REQ-280679/B-Quiet Start - Exhaust Mode	<pre><jmyslin2> added feature number</jmyslin2></pre>
VS-SR-REQ-280683/B-Set Quiet Time - Exhaust Mode	<pre><jmyslin2> addedfeature number</jmyslin2></pre>
VS-SR-REQ-280685/B-Rev Match (Engine Revolution	• •
Match)	<jmyslin2> added Rev Match feature number</jmyslin2>
1	
1.8	***************************************
<u> </u>	<pre><jmyslin2> Added VDM to list of FBMP messages that the</jmyslin2></pre>

	April 25, 2018	1.8		
				<jmyslin2> Added VDM to list of FBMP messages that the</jmyslin2>
		IIR-REQ-251	250/G-Logical Signal to HS3 CAN dB signal	centerstack will need to support
		name transla	ation table	Added CCM to list of FBMP messages that centerstack will need
l				to support (for FCW settings)

Ford	Ford Motor Company		Subsystem Part Specific Specification Engineering Specification
May 47, 2040	4.0		
May 17, 2018	IIR-REQ-251250/H-Logical Signal to name translation table+ IIR-REQ-251250/I-Logical Signal to		<pre><jmyslin2> added what CCM module stood for. No content change <jmyslin2> added logical to physical mapping for the DDM</jmyslin2></jmyslin2></pre>
	name translation table VS-SR-REQ-280670/B-Effort - Trai	ler Brake	module <pre></pre>
			aneady on Transi brake wode
June 13, 2018	1.10		
·	VS-SR-REQ-234031/F-ParkAid (no	ot long term)	<jmyslin2> udpated with a clarification note. No content change so no software change</jmyslin2>
August 28, 2018	1.11 VS-SR-REQ-232098/O-Feature Ba	and Managers Durate and	
	usage for Settings in the Infotainme Module	ent Centerstack Display	<jmyslin2> updated comments for not showing feature settings selections at start-up if no response from feature server</jmyslin2>
	VS-SR-REQ-232237/G-FBMP Fea any FBMP Feature Settings Server		<jmyslin2> No content change</jmyslin2>
	VS-SR-REQ-312391/A-LongTerm	ParkAid Disable	<jmyslin2> New Requirement for Long Term Park Aid</jmyslin2>
	VS-SR-REQ-273689/C-Trailer Len	gth - BTT Lite	jmyslin2: Updated with an example an imperial value being rounded to metric value for trailer length.
			Update Trailer Length encoding since was off by 0.1 meter
	VS-SR-REQ-234428/F-General Se	· · ·	jmyslin2 - no content change. Clarification added jmyslin2: No content change. Duplicate of VS-280528-Power
	VS-SR-REQ-234336/D-Power Liftg		Decklid / Liftgate
	VS-SR-REQ-280528/C-Power Dec		jmyslin2: added 201 for HMI Settings ID
	VS-SR-REQ-298602/A-Handsfree I	Lingate	<jmyslin2> New Requirement for Handsfree Liftgate</jmyslin2>
October 4, 2018	1.12		
0000001,1010	MD-REQ-274072/C-BTTLeft_D_Rd	ıDrv	<pre><jmyslin2> No change, ignore the revision</jmyslin2></pre>
	MD-REQ-274073/C-BTTRight_D_F	•	<jmyslin2> No change, ignore the revision</jmyslin2>
	VS-SR-REQ-273980/C-Pop-up Tra BTT Lite	iler Set-up Request -	<jmyslin2> updated requirement allowing BTT Lite module to close the BTT Lite pop-up</jmyslin2>
	VS-SR-REQ-238327/E-Power Run	ning Board	<jmyslin2> deleted power running boards from Settings in the Centerstack SPSS. Now defined in a separate feature specification without using feature based message protocol</jmyslin2>
			3
October 11, 2018	1.13		
	VS-SR-REQ-331385/A-Single Tole Threshold - Traffic Sign Recognitio Information		<pre><jmyslin2> New requirement for single tolerance HMI for Traffic Sign Recognition and Speed Limit Information</jmyslin2></pre>
	VS-SR-REQ-331385/A-Single Tole Threshold - Traffic Sign Recognitio Information		<jmyslin2> New requirement for single tolerance HMI for Traffic Sign Recognition and Speed Limit Information</jmyslin2>
	VS-SR-REQ-273689/D-Trailer Lene	gth-BTT Lite	<pre><jmyslin2> made a note regarding selecting a faulty trailer if HMI call it out. Clarification only, no content change</jmyslin2></pre>
December 4, 2018	1.14	- HOO CAN ID I	
	IIR-REQ-251250/J-Logical Signal to name translation table		<pre><jmyslin2> addedTjaMsgTxt_D_Rq signalforhighway assist</jmyslin2></pre>
	VS-SR-REQ-232098/P-Feature Ba usage for Settings in the Infotainme Module		<pre><jmyslin2> added additional reference to FBMP were callsout querying the active menu first. No content change</jmyslin2></pre>
	STR-389748/D-Functional Definition	n	<pre><jmyslin2> Added additional settings section</jmyslin2></pre>
	VS-SR-REQ-232245/H-Cruise Con	trol	<jmyslin2> No content change. Removed Tolerance from this requirement and created a dedicated requirement for it.</jmyslin2>
	VS-SR-REQ-333002/A-Tolerance -	Cruise Control	<jmyslin2> roke out tolerance from 232245 to its own separate requirement. Added new HMI settings ID</jmyslin2>
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VS-SR-REQ-232284/H-Speed Limiter - Manual / Intelligent	<jmyslin2> No content change. Removed Tolerance from this requirement</jmyslin2>
VS-SR-REQ-332970/A-Speed Limiter - Intelligent Offset Tolerance	<jmyslin2> No content change. Broke out the Tolernace from a combined requirement into a new requirement.</jmyslin2>
VS-SR-REQ-233914/F-Enable/Disable Speed Warning - Traffic Sign Recognition / Speed Limit Information	<pre><jmyslin2> No Change ignore revision bump</jmyslin2></pre>
VS-SR-REQ-233862/J-LessThan Warning Threshold- (Traffic Sign Recognition / Speed Limit Information)	<jmyslin2> Updated to include when Null or NoDataExists is selected</jmyslin2>
VS-SR-REQ-233867/J-Greater than Warning Threshold - Traffic Sign Recognition	<pre><jmyslin2> updated to reference what to do when Null or NoDataExists is selected</jmyslin2></pre>
VS-SR-REQ-273980/D-Pop-up Trailer Set-up Request - BTT Lite	<jmyslin2> updated requirement so BTT Lite pop-up jumps ahead and queries the BTT Lite feature numbers before showing the pop-up</jmyslin2>
VS-SR-REQ-272030/B-Predictive Lighting	<jmyslin2> added a clarification to clarify a SYNC HMI rule. No content change</jmyslin2>
STR-598209/A-Additional Settings - FBMP based settings	<jmyslin2> Since HMI is changing from the lead program for Settings in the Centerstack putting new settings under this heading</jmyslin2>
VS-SR-REQ-333163/A-SettingsStart-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	<pre><jmyslin2> New Speed Limit function - replaces TSR and Speed Limiter</jmyslin2></pre>
VSv2-SR-REQ-332978/A-Limiter with Speed Signs- Speed Limit	<jmyslin2> New Limiter with Speed Signs</jmyslin2>
VSv2-SR-REQ-332979/A-Speed Sign Warning - Speed Limit	<pre><jmyslin2> updated to add Speed Warning Sign label</jmyslin2></pre>
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 Repeaterin Cluster	<jmyslin2> New Function for Nav Repeater in the Cluster <jmyslin2> New requirement for Nav Repeater in the Cluster</jmyslin2></jmyslin2>
VS-SR-REQ-333186/A-Nav Repeater in the Cluster	Setting
VS-FUN-REQ-333189/A-Maps in the Cluster	<jmyslin2> New Function for Maps in the Cluster</jmyslin2>
VS-SR-REQ-333192/A-Mapsin the Cluster	<jmyslin2> New requirement for Maps in the Cluster Setting</jmyslin2>
1.15	
IIR-REQ-251250/K-Logical Signal to HS3 CAN dB signal name translation table	<pre><jmyslin2> deleted TjaMsgTxt_D_Rq from logical to physical list as no longer supported</jmyslin2></pre>
VS-SR-REQ-234316/F-Duration - Remote Start	<jmyslin2> added clarification to the requirement. No content change</jmyslin2>
	onungo

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_				
	VSv2-SR-REQ-332978/B-Limiter wi Speed Limit	ith Speed Signs-	<jmyslin2> No content change. Just name. HMI Settings ID ties to the HM clarification</jmyslin2>	Il itself so just added for
	VS-SR-REQ-333005/B-with Lane Centering		<jmyslin2> No content change. Just name. HMI Settings ID ties to the HM clarification</jmyslin2>	flitself so just added for
	VS-SR-REQ-333009/B-with Speed	Signs	<jmyslin2> No content change. Just name. HMI SettingsID ties to the HM clarification</jmyslin2>	·
	VS-FUN-REQ-333107/B-Speedom	eter	<jmyslin2> added requirment for maj</jmyslin2>	
	VS-SR-REQ-333114/B-Speedomet	erMPH	<jmyslin2> Updated requirement on o based on market</jmyslin2>	
	VS-SR-REQ-333162/B-Speedomet		<jmyslin2> updated requirement for o when to use</jmyslin2>	-
	VS-SR-REQ-341178/A-Mapping Ta Major Units	able-Speedometer	<pre><jmyslin2> Added requirement for Cl units</jmyslin2></pre>	uster speedometer major
	VS-FUN-REQ-333160/B-Neutral To		<pre><jmyslin2> updated Neutral Tow fund</jmyslin2></pre>	
	MD-REQ-342193/A-TrnGearNtmAll		<pre><jmyslin2> New MD for Neutral Tow</jmyslin2></pre>	
	VS-SR-REQ-333161/B-Neutral Tov	V	<jmyslin2> updated Neutral Tow setti</jmyslin2>	ngsrequirement
February 5, 2019	1.16			
	Content change:			
	MD-REQ-343175/A-MetricActv_B_/	Actl	<pre><jmyslin2> added MetricActv_B_Actl</jmyslin2></pre>	MD
	IIR-REQ-251250/L-Logical Signal to name translation table	o HS3 CAN dB signal	<pre><jmyslin2> updated to include Metric.</jmyslin2></pre>	
	VS-SR-REQ-333002/B-Tolerance -	Cruise Control	<jmyslin2> updated to change the us for units shown from using Measure U MetricActv_B_Actl</jmyslin2>	
	VS-SR-REQ-332970/B-Speed Limiter - Intelligent Offset Tolerance VS-SR-REQ-234039/K-Measure Units		<jmyslin2> Updated requirement to u instead of measure units for cruise co</jmyslin2>	ontrol speed units
			<jmyslin2> Updated requirement to s used for distance units for other settir</jmyslin2>	
	Clarification only:			
	MD-REQ-239857/C-TsrVIUnitMsgT	xt_D_Rq	<jmyslin2> Clarification only. Change</jmyslin2>	ed KPM to Km/h
	VS-SR-REQ-233867/K-Greater than Warning Threshold - Traffic Sign Recognition		<jmyslin2> Clarification only. Change</jmyslin2>	ed KPH to Km/h
			<jmyslin2> Clarification only. Change investiga. No content shapes are de-</jmyslin2>	
	VS-FUN-REQ-332901/B-Speed Lin of TSR, SLI and Speed Limiter)	nit - Variant 2 (variant 2	<jmyslin2> No content change - upda more clair mutually exclusive with TS and Sleed Limiter</jmyslin2>	
	VSv2-SR-REQ-332980/B-Toleranc		<jmyslin2> Clarification only. Change</jmyslin2>	
	VS-SR-REQ-333114/C-Speedomet		<jmyslin2> Clarification only. Change</jmyslin2>	
	VS-SR-REQ-333162/C-Speedomet		<jmyslin2> Clarification only. Change</jmyslin2>	ed KPH to Km/h
***************************************	VS-SR-REQ-341178/B-Mapping Ta Major Units	able-Speedometer	<jmyslin2> Clarification only. Change</jmyslin2>	ed KPH to Km/h
February 14, 2019	1.16.1 Updated Comment i	in v1.11 Release	Chohdi Mhohdi: Comment below addrev comment below was accidently d just adding the correct rev comment l version 1.11 originally.	eleted. No content change
	VS-SR-REQ-273689/C-Trailer Lenç	gth-BTT Lite	jmysin2: Updated with an example a rounded to metric value for trailer len	
			New: Update Trailer Length encoding	g since was off by 0.1 meter
May 28, 2019	1.17	····	***************************************	***************************************
<u> </u>	VS-SR-REQ-234286/D-Sensor Set - Alarm STR-401443/F-Requirements VS-SR-REQ-350467/A-Walk Away Lock VS-SR-REQ-350468/A-Walk Away Lock Feedback		<jmyslin2> New HMI name, updated</jmyslin2>	to match for Alarm
			<jmyslin2> added new settings for loc</jmyslin2>	cks
			<jmyslin2> New requirement for walk</jmyslin2>	
I			<pre><jmyslin2> New requirement for walk</jmyslin2></pre>	kaway lockfeedback
	IN INFOTAINMENT 5 v1.19 Jun 18, 2020 The information		PANY CONFIDENTIAL rent is Proprietary to Ford Motor Company.	Page 9 of 155



Ī	VS-SR-REQ-350469/A-Double Lock Reminder Feedback	<pre></pre>
	NO-21/-UEM-2204-03/W-Domile Fock Kellillidel Leedback	Springsmiz > New requirement for double fock ferminger reedback
Nov ember 27, 2019	1.18	
November 27, 2019	MD-REQ-369894/A-EngOilLife_Pc_Actl	<pre><jmyslin2> New engine oil life percentage signal</jmyslin2></pre>
	IIR-REQ-251250/M-Logical Signal to HS3 CAN dB signal name translation table	<jmyslin2> updated requirement to add Feature2.Rq, Feature2.St and Oil Life Percentage signals</jmyslin2>
	STR-389748/E-Functional Definition	<jmyslin2> Updated to include new section in spec for Settings with dedicated Feature2.Rq and Feature2.St signals</jmyslin2>
	VS-SR-REQ-251193/C-Traffic Sign Recognition Settings/ Speed Limit Information HMI notuser selectable	<pre><jmyslin2>Clarification only, addedoverview</jmyslin2></pre>
	VS-SR-REQ-234028/E-Trailer Sway	<jmyslin2> No change. Ignore revision of requirement since nothing change.</jmyslin2>
	VS-SR-REQ-234039/L-Measure Units	<jmyslin2> Updated measure units to support BEV HMI displays</jmyslin2>
	VS-SR-REQ-280669/B-Mode - Trailer Brake	<jmyslin2> Updated requirement to support Trailer Settings SPSS</jmyslin2>
	VS-SR-REQ-280670/C-Effort - Trailer Brake	<pre><jmyslin2> Updated requirement to support Trailer Settings SPSS</jmyslin2></pre>
	VS-SR-REQ-280679/C-Quiet Start - Exhaust Mode	jmyslin2 - requirement obsolete
	VS-SR-REQ-280683/C-Set Quiet Time - Exhaust Mode	<jmyslin2> requirement obsolete. See updated comments</jmyslin2>
	VS-FUN-REQ-333136/B-Ecocoach	<jmyslin2> added new EcoCoach - Eco Mode setting requirement</jmyslin2>
	VS-SR-REQ-364517/A-EcoCoach-Eco Mode	<pre><jmyslin2> New EcoCoach in Eco Mode requirement</jmyslin2></pre>
	STR-598208/B-Requirements - shift by wire version of Neutral Tow	jmyslin2 - updated title
	VS-SR-REQ-333161/C-Neutral Tow	jmyslin2 - made updates to the Neutral Tow requirement
	VS-SR-REQ-333186/B-Nav Repeater in the Cluster STR-683554/A-Cluster Settings with dedicated FBMP messages	<jmyslin2> No content chanage, clarification only with the name <jmyslin2> New section of spec for settings that use Feature2.Rq and Feature2.St</jmyslin2></jmyslin2>
	VS-SR-REQ-362577/A-Cluster and Centerstack Settings HMI Client dedicated Feature2.Rq/Feature2.St FBMP message usage	<pre><jmyslin2> New settings in the centerstack requirement for dedicated Cluster FBMP message</jmyslin2></pre>
	VS-SR-REQ-364389/A-SettingsStart-up	<jmyslin2> new requirement</jmyslin2>
	VS-SR-REQ-364390/A-HMI Activation during Run	<jmyslin2> New Requirement</jmyslin2>
	VS-FUN-REQ-364615/A-Engine Oil Temp	<pre><jmyslin2> New Engine Oil Temp function</jmyslin2></pre>
	VS-SR-REQ-364614/A-Engine Oil Temp Life Gauge - Cluster menu	<pre><jmyslin2> New Engine Oil Temp Life setting</jmyslin2></pre>
	VS-FUN-REQ-364616/A-Power Gauge	<pre><jmyslin2> New Power Gauge function</jmyslin2></pre>
	VS-SR-REQ-365515/A-Power Gauge - Cluster Menu VS-FUN-REQ-365516/A-Tachometer	<pre><jmyslin2> New Power Gauge setting requirement <jmyslin2> New Tachometer function</jmyslin2></jmyslin2></pre>
	VS-SR-REQ-365517/A-Tachometer Gauge - Cluster menu	<pre><jmysin2>New Factionleter function </jmysin2></pre>
	VS-FUN-REQ-365529/A-Oil Life	<pre><jmysin2> racionteter Gauge setting </jmysin2></pre> <pre><jmyslin2>new Oil Life function</jmyslin2></pre>
	VS-SR-REQ-365551/A-Oil Life Percentage	<jmyslin2>New Oil Life Percentage requirement</jmyslin2>
	VS-SR-REQ-365550/A-Oil Life Reset	<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>
	VS-FUN-REQ-365643/A-Cluster IoD menu configurations	<jmyslin2> New function for Cluster IoD configuration menuitems</jmyslin2>
	VS-SR-REQ-365685/A-Calm Screen - Cluster IoD config	<pre><jmyslin2> New Cluster IoD config setting</jmyslin2></pre>
	VS-SR-REQ-365686/A-Trip1 - Cluster IoD config	<jmyslin2> New Trip 1 IoD config setting</jmyslin2>
	VS-SR-REQ-365687/A-Trip 2 - Cluster IoD config	<jmyslin2> New Trip 2 Cluster IoD setting</jmyslin2>
	VS-SR-REQ-365688/A-ThisTrip - Cluster IoD config	<pre><jmyslin2> New This Trip Cluster IoD config setting</jmyslin2></pre>
	VS-SR-REQ-365689/A-Fuel Economy - Cluster IoD config	<jmyslin2> New Fuel Economy Cluster IoD config setting</jmyslin2>
	VS-SR-REQ-365690/A-Electric Efficiency - Cluster IoD config	<pre><jmyslin2> new Electric Efficiency Cluster IoD config</jmyslin2></pre>
	VS-SR-REQ-365691/A-Eco Behaviors - Cluster IoD config	<jmyslin2> New Eco Behaviors Cluster IoD config setting</jmyslin2>
	VS-SR-REQ-365692/A-EV Coach - Cluster IoD config	<pre><jmyslin2> new EV Coach Cluster IoD config setting</jmyslin2></pre>
	VS-SR-REQ-365696/A-Auto Start Stop - Cluster IoD config	<jmyslin2> new Auto Start Stop Cluster IoD config setting</jmyslin2>
	VS-SR-REQ-365697/A-Seatbelt Status - Cluster IoD config	<jmyslin2> New seatbelt status cluster IoD config setting</jmyslin2>
	VS-SR-REQ-365701/A-TPMS - Cluster IoD config VS-SR-REQ-365706/A-Eco Coach - Cluster IoD config	<pre><jmyslin2> New TPMS Cluster IoD config setting <jmyslin2> New Eco Coach / Eco Behaviours Cluster IoD config cotting</jmyslin2></jmyslin2></pre>
	VS-SR-REQ-365722/A-Now Playing (Audio / Phone) -	setting <pre></pre> <pre><pre><pre><pre></pre></pre></pre></pre>
	Cluster IoD config VS-SR-REQ-365740/A-Nav/Compass - Cluster IoD config	<pre></pre>
	VS-SR-REQ-365741/A-Average Speed - Cluster IoD config	<jmyslin2> New Average Speed Cluster IoD config requirement</jmyslin2>
	VS-SR-REQ-365743/A-Battery Charge - Cluster IoD config VS-SR-REQ-365744/A-ADAS - Cluster IoD config	<pre><jmyslin2> New Battery Charge - Cluster IoD config setting <jmyslin2> ADAS Cluster IoD config setting</jmyslin2></jmyslin2></pre>
	VS-SR-REQ-365745/A-Maps/ Augmented Reality - Cluster IoD config	<pre><jmyslin2> New Maps/ Augmented Realituy Cluster IoD config setting</jmyslin2></pre>
	VS-SR-REQ-369132/A-Classic View - Cluster IoD config	<jmyslin2> New Classic View Cluster IoD config setting</jmyslin2>
	VS-FUN-REQ-365765/A-Cluster Trip 1 menu	<pre><jmyslin2> New Cluster Trip 1 menufunction</jmyslin2></pre>
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	VS-SR-REQ-365846/A-Cluster Trip 1 Menu Reset	<jmyslin2> New requirement for Cluster Trip 1 menu reset</jmyslin2>
	VS-SR-REQ-365847/A-Set to Default - configure Cluster Trip 1 view	<jmyslin2> New requirement to set to default Cluster Trip1 view</jmyslin2>
	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-Trip1 Timer - configure Cluster Trip1 view	<pre><jmyslin2> New settings requirement for Trip 1 timer</jmyslin2></pre>
	VS-SR-REQ-365860/A-Average Speed - configure Cluster Trip 1 view	<jmyslin2> New average speed configure cluster trip 1 view setting requirement</jmyslin2>
	VS-SR-REQ-365864/A-Average Fuel - configure Cluster Trip 1 view	<imyslin2> new settings requirement for average fuel for cluster trip 1 view</imyslin2>
	VS-SR-REQ-365865/A-Instantaneous Fuel - configure Cluster Trip 1 view	<jmyslin2> new settings requirement for Instantaneous fuel - configure cluster trip 1 view</jmyslin2>
	VS-FUN-REQ-365845/A-Cluster Trip 2 menu	<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< th=""></p<></pre>
	VS-SR-REQ-365866/A-Cluster Trip 2 Menu Reset	<jmyslin2> New requirement for Cluster Trip 2 menu reset</jmyslin2>
	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	<jmyslin2> New setting requirement for Instantaneous Fuel - configure Cluster Trip 2 view</jmyslin2>
	VS-FUN-REQ-369169/A-Classic View - Cluster Speedo view	<jmyslin2> New Classic View Speedo function</jmyslin2>
	VS-SR-REQ-369170/A-Classic View - Cluster Speedo view - Cluster Menu	<jmyslin2> New Classic View Speedo view setting</jmyslin2>
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 varient3</jmyslin2>
	VS-SR-REQ-333161/D-Neutral Tow	jmyslin2: clarification only, see trackchanges 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

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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	
	NotUsed	0x6 - 0x7	

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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
lgnKeyType_D_ActI	-	-	Type of key that is in the ignition
	KeyReadInProgress	0x0	Key(s) will be read now
	KeylnlgnStandardKey	0x1	Admin (full) mode
	KeylnlgnMyKey	0x2	MyKey restricted mode
	Key_Not_Prgrm_Read_Failure	0x3	Key not programmed
	Unknown	0xE	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	DoNotDisplayIlaccIcon	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

Logical Signal Name	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_ActI	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	
0 – –			
	99 percent oil life	0x63	
	100 percent oil life	0x64	



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	CtrStkFeatConfigActI
Centerstack Settings HMI	Feature.Rq: PersIndex	CtrStkPersIndex_D_Actl
Client (APIM, CHR)	Feature2.Rq: Operation	CtrStkDsplyOp2 D Rq
	Feature2.Rq: FeatureID	CtrStkFeat2NoActl
	Feature2.Rq: Configuration	CtrStkFeat2ConfigActI
	Feature2.Rq: PersIndex	CtrStkPersIndex2 D ActI
	Feature.St : FeatureID	FeatNolpcActl
Charten Footana Cottinara	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	FeatConfiglpc2Actl
	Feature2.St : PersIndex	PersIndexIpc2 D ActI
DOME (0 W) 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	FeatConfigIpmaActI
	Feature.St : PersIndex	PersIndexIpma_D_Actl
	Feature.St : FeatureID	FeatNoDsmActl
DSM Feature Settings Server	Feature.St : Configuration	FeatConfigDsmActI
(Driver Seat Module)	Feature.St : PersIndex	PersIndexDsm_D_ActI
	Feature.St : FeatureID	FeatNoHcm_No_ActI
HCM Feature Settings Server	Feature.St : Configuration	FeatConfigHcmActI
(Headlamp Control Module)	Feature.St : PersIndex	Signal does not exist. Treat as
(T Gataro. Gt. T Gronnagx	though PersIndex is equal to Vehicle
	Feature.St : FeatureID	FeatNoFcimActl
FCIM (HVAC) Feature Settings	Feature.St : Configuration	FeatConfigFcimActl
Server	Feature.St : PersIndex	PersIndexFcim_D_Actl
SCCM Feature Settings Server	Feature.St : FeatureID	FeatNoSccmActl
(Steering Column Control	Feature.St : Configuration	FeatConfigSccmActl
module)	Feature.St : PersIndex	PersIndexSccm_D_ActI
,	Feature.St : FeatureID	FeatNoSumaActI
SUMA Feature Settings Server	Feature.St : Configuration	FeatConfigSumaActI
(Suspension Control Module)	Feature.St : PersIndex	PersIndexSuma D Actl
	Feature.St : FeatureID	FeatNoVdmActl
VDM Feature Settings Server	Feature.St : Configuration	FeatConfigVdmActl
(Variable Dynamics Module)	Feature.St : PersIndex	PersIndexVdm D Actl
	Feature.St : FeatureID	FeatNoCcmActI
CCM Feature Settings Server	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	FeatConfigDdmActI
22.11 Catalo Cottingo Colvei	Feature.St: PersIndex	PersIndexDdm_D_ActI
Applicable Traffic Sign	TsrVIUnitMsgTxt_D_Rq	TsrVIUnitMsgTxt_D_Rq
Recognition module		
MyKey Ignition Key Type	IgnitionKeyType	IgnKeyType_D_ActI
Server	, , , , , , , , , , , , , , , , , , ,	
-		
Speed Unit Server (Cluster)	MetricActv_B_ActI	MetricActv_B_ActI
Neutral Tow Server (PCM)	TrnGearNtmAllow B Stat	TrnGearNtmAllow_B_Stat
Distance Unit Server (Cluster)	Disp_Miles_Kilometers.St	Mc_VehUntTrpCoUsrSel_St
zicianes sim solver (sidoter)	p	

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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.

1.3 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.

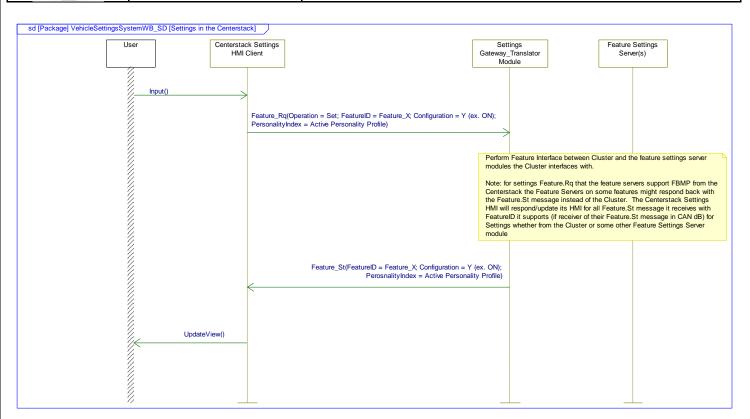
The Centerstack Settings HMI Client shall be capable of performing multiple QUERY or SET actions at once. An input from the driver, for example, shall never be "lost" if the Centerstack Settings HMI Client is performing a QUERY.

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 <u>VS-SR-REQ-232106/G-Configuration of Settings HMI displayed in Centerstack</u>

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</u> Feature.St received from any FBMP Feature Settings Server 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
	KeylnlgnStandardKey	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 <u>VS-SR-REQ-234437/C-Carryover Settings functionality from other specifications</u>

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</u> Based Message Protocol

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 Perslndex 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 Specification Overview layout

For the individual settings in this specification they are organized into a Driver Assistance Settings, Vehicle Settings and General Settings section. This may or may not match the actual HMI. Follow the actual HMI specifications for how these are shown on the Centerstack display.



3 Functional Definition

3.1 Driver Assistance Settings

3.1.1 General Requirements - Driver Assistance Settings

3.1.1.1 VS-SR-REQ-234426/D-Driver Assistance Settings Start-Up

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
Cruise Control - Adaptive Speed Control Auto Setting	0x081F	0x00	Normal Cruise
		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
		0x00	-30
	0x0860	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 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 <u>VSv2-SR-REQ-333001/A-Cruise Control - Variant 2</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
Cruise Control - Adaptive Speed Control Auto Setting	0x081F	0x00	Cruise Control
		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
		0x00	-30
Tolerance - Cruise Control Intelligent Adaptive Offset	0x0860	0x01	-29
		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.

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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 with Smart Offering	0x0842	0x00	OFF / Disabled
		0x01	ON / Enabled

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HMI Setting ID
1005

3.1.3.1.5 <u>VS-SR-REQ-333009/B-with Speed Signs</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
Adaptive Cruise Control with Speed Signs / with Speed Sign Recognition	0x00	OFF / Disabled	
	0x0843	0x01	ON / Enabled

SYNC Gen 4 Screen / ID HMI Number	HMI Setting ID	
6b	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 <u>VS-SR-REQ-232245/I-Cruise Control</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
Cruise Control - Adaptive Speed Control Auto Setting	0x081F	0x00	Normal Cruise
		0x01	Adaptive Cruise
		0x02	Intelligent

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 MetricActv B Actl = Inactive then MPH would be the unit shown in the HMI

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• 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	

3.1.4.1.3 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		0x00	OFF / Disabled
with Lane Centering / Highway Drive Assist	0x0841	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		0x00	OFF / Disabled
with Smart Offering	0x0842	0x01	ON / Enabled

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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	040D00	0x00	Manual Mode (Intelligent Offset OFF)
Speed Limiter	0x0D00	0x01	Intelligent Mode (Intelligent Offset ON)

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

3.1.5.1.2 VS-SR-REQ-332970/B-Speed Limiter - Intelligent Offset Tolerance

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
Intelligent Offset /		0x00	0 Tolerance / Intelligent Offset
Tolerance – Speed	- Speed 0x0D01	0x01	+1 Tolerance / Intelligent Offset
Limiter		0x02	+2 Tolerance / Intelligent Offset

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Motor Company		Engineering Specification
1	0,402	
	0x03	+3 Tolerance / Intelligent Offset
	0x04	+4 Tolerance / Intelligent Offset
	0x05	+5 Tolerance / Intelligent Offset
	0x06	+6 Tolerance / Intelligent Offset
	0x07	+7 Tolerance / Intelligent Offset
	0x08	+8 Tolerance / Intelligent Offset

Subsystem Part Specific Specification

+9 Tolerance / Intelligent Offset

+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.

0x09

0x0A

When MetricActv B Actl = Inactive then MPH would be the unit shown in the HMI

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• 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

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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.Rq and Feature.St messages shall be used below.

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

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

3.1.6.1.2 VS-SR-REQ-233914/F-Enable/Disable Speed Warning - Traffic Sign Recognition / Speed Limit Information 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
Activate Speed Warning – Traffic		0x00	OFF / Disabled
Speed Limit		0x01	ON / Enabled

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

3.1.6.1.3 VS-SR-REQ-233813/D-Enable/Disable Speed Warning Chime - 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Speed Warning Chime – Traffic Sign Recognition	0x0830	0x00	OFF / Disabled
		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.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	Configuration	HMI selection / Configuration
reature bescription	Number	Number	Name
		0x10	0 Tolerance / Intelligent Offset
		0x11	+1 Tolerance / Intelligent Offset
Less Than Warning		0x12	+2 Tolerance / Intelligent Offset
Threshold (ex less than 65 Km/h)	0x080E	0x13	+3 Tolerance / Intelligent Offset
05 Kilivily	UXUOUL		
		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	

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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.

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
man os Km/m	000011		
		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	

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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 <u>VS-SR-REQ-331385/A-Single Tolerance Warning Threshold - Traffic Sign Recognition / Speed Limit Information</u>

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 query 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.

3.1.6.1.7 <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 Displaylacclcon	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.

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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.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
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.Rg and Feature.St messages shall be used below.

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.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
Less Than Warning		0x12	+2 Tolerance / Intelligent Offset
Threshold (ex less than	0x080E	0x13	+3 Tolerance / Intelligent Offset
65 Km/h)	UXUOUE		
		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	

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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 than 65 Km/h)	0x0811	0x13	+3 Tolerance / Intelligent Offset
man os Km/m	000011		
		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	

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

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 query 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 Overview:</u>

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 Displaylacclcon	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.

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

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

3.1.8.1 Requirements

3.1.8.1.1 VSv2-SR-REQ-332978/B-Limiter with Speed Signs - Speed Limit

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
Limiter with Speed Signs	0×0D00	0x00	OFF / Disabled
/ Intelligent Speed Assist	0x0D00	0x01	ON / Enabled

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

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

3.1.8.1.2 VSv2-SR-REQ-332979/A-Speed Sign Warning - Speed Limit

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	0×090D	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".

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

3.1.8.1.3 VSv2-SR-REQ-332980/B-Tolerance - Speed Limit

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
		0x11	+1 Tolerance
			0x12
Toloronoo Chood Limit	0x080E	0x13	+3 Tolerance
Tolerance - Speed Limit	UXUOUE		
		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	

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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 Customer Enable	0x0807	0x02	Aid Only / LKA
Customer Enable		0x03	Aid & Alert / LDW + LKA

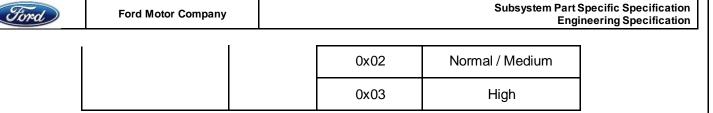
SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
9B	120

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
Lane Keeping Intensity / LDW Haptic	0x080B	0x00	Undefined / Not Used
Intensity		0x01	Low

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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 Sensitivity	0x0806	0x00	Normal / Level 1
		0x01	Increased / Level 2

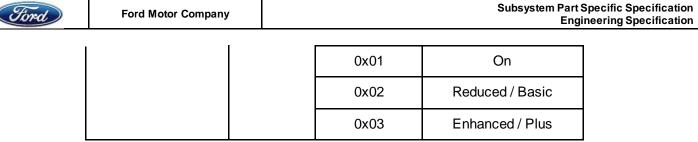
SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
9D	122

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	0x0870	0x00	Off

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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 VS-SR-REQ-271526/B-Lane Keeping 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.

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
Alert Lane Keeping Intensity / LDW Haptic Intensity	0x080B	0x00	OFF
		0x01	Low
		0x02	Normal / Medium / ON
		0x03	High

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

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

3.1.10.1 Requirements

3.1.10.1.1 VS-SR-REQ-239185/F-Pre-Collision Assist function - Enable / 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.

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 – 0	0x0804	0x00	Disabled / FCW_OFF	Yes
FCW ON/OFF	0.0004	0x01	Enabled / FCW_ON	163

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.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
Distance Indication		0x00	OFF/FDA_OFF	Yes
/ Forward Distance Alerts_ON/OFF	UXUOUF	0x01	ON/FDA_ON	1 65

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.

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	No
	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 / Emergency Steering	0x0D50	0x00	OFF / Disabled	No
	0.0000	0x01	ON / Enabled	NO

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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name	HMI MyKey Limited Yes/No
Warning Sensitivity / FCW Sensitivity / Alert Sensitivity	0x0802 0x00	0x00	Not Used	- No
		0x01	Low / FCW_Sensitivity_1	
		0x02	Normal / FCW_Sensitivity_2	
		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 queried 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 VS-SR-REQ-233944/E-Blindspot Detection (vehicle - non-trailer)

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 Detection	0x0920	0x00	OFF / Disabled	Yes
	0.0920	0x01	ON / Enabled	1 65

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

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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.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
Trailer Blind Spot Detection	0x0921	0x00	OFF / Disabled	Yes
	0x0921	0x01	ON / Enabled	165

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

/

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.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.

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)	02000	0x00	None / No Active Trailer
		0x01	Trailer A Active
	0x0930	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 then
- 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

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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
Trailer B Length (BTT Lite)	0x0932	0x00	0.1 meters 0.0 meters
		0x01	0.2 meters 0.1 meters
		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
Trailer C Length (BTT Lite)	0x0933	0x00	0.1 meters 0.0 meters
		0x01	0.2 meters 0.1 meters
		0x02	0.3 meters 0.2 meters
		0x7D	12.5 meters
		0x7E	Trailer C Length not set-up / No Data Exists
		0x7F	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 For Trailer Length set- up	SYNC Gen 3 Screen / ID HMI Number For Faulty pop-up/ Send Faulty setting	HMI Setting ID
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 \rightarrow Run) and the feature numbers 0x930, 0x931, 0x932 and 0x933 have not yet been gueried then:
 - The pop-up shall not be shown until feature numbers 0x930, 0x931, 0x932 and 0x933 have all been gueried.
 - 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. RgDry does not equal Request AND BttRight D RgDry 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.

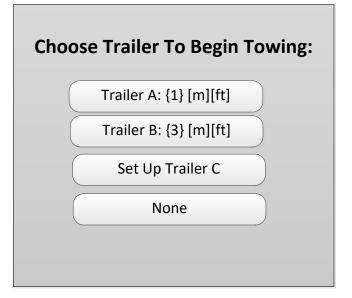
- Ex. If the pop-up is shown and the vehicle speed increase above the limit for driver distraction the pop-up shall not be shown.
 - Note: If vehicle slows back down to below the limit for driver distraction (make sure hysteresis protection is added in) and BTTLeft D RqDrv or BTTRight D RqDrv equals 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 Traffic Alert	0×0022	0x00	OFF / Disabled	Yes
Cross Traffic Alert 0x0922		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	149	

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

3.1.14.1 Requirements

3.1.14.1.1 VS-SR-REQ-233951/D-Wrong Way 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Wrong Way Alert	0x0850	0x00	OFF / Disabled
Wiong Way Aleit		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	0.0808	0x00	OFF / Disabled
	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</u> Sway

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	
	OXOLOO	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 (Reverse Park Aid)	0x0950	0x00	OFF / Disabled	Yes	
	0.0930	0x01	ON / Enabled	1 65	

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 Disable	0x0952	0x00	OFF / Disable Switch
		0x01	ON / Enable Switch



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

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Rear Park Aid Long Term Disable	0x0951	0x00	OFF / Disable Switch
		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 0x0E01	0×0E01	0x00	OFF / Disabled	Yes	
	0x01	ON / Enabled	163		

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.
 - See MyKey Settings in the Centerstack SPSS for details on the CAN status signals to look at

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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

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	UXUEU2	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.

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

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

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

3.1.22.1 Requirements

3.1.22.1.1 <u>VS-SR-REQ-239164/E-Tow Haul</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
		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.

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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
EV+ Mode	0×0007	0x00	OFF / Disabled
EV - WIGGE	0.0001	0x01	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 <u>VS-SR-REQ-272333/B-Grade Assist</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
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.

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 Start/Stop Speed Threshold		0x00	Undefined / Not Used / Off
(Auto Start/Stop Speed Threshold)	0x0D05	0x01	Low
HEV Boost Sensitivity /Engine Start Stop Speed Threshold – (Mile Hybrids 48V)		0x02	Medium
	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 VS-SR-REQ-280535/D-Handling in Drive / Drive Control manual transmission / Driver Select Transmission

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
Gear in Drive –		0x00	No Mode Selected
Continuously Controlled <u>Damping</u>	0x0B00	0x01	Comfort
	0x02	Normal	

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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

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):

deserving the serving	
Drive Control	submenu
Handling in D	submenu
comfort	radial
normal	radial
sport	radial

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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.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
O a a min O m a m		0x00	No Mode Selected
Gear in Sport – Continuously Controlled Damping	0x0B01	0x01	Comfort
(Handling in Sport)	OXOBOT	0x02	Normal
trianamy irroporty		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):

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.

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
	mance in Sport – uously Controlled Damping 0x0D07	0x00	No Mode Selected
Performance in Sport –		0x01	Comfort
		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 VS-SR-REQ-280533/B-Steering in Drive / Steering with Manual Transmission - 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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Steering in Drive /		0x00	No Mode Selected
	0x0B00	0x01	Comfort
Steering with Manual Transmission	0x0800	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):

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):

(000 : 0000 : 00100. :).	
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

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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.

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 Sport	0x0B01	0x00	No Mode Selected
		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 Stacking	0,0000	0x00	OFF / Disabled
Adaptive Steering	0x0B02	0x01	ON / Enabled

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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</u> Settings <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 selection</u> 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 <u>VS-SR-REQ-232109/J-Carryover General Settings functionality from the Vehicle Settings SPSS</u>

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/l" and "Miles & Gallons" then use the system interface described in the Measure Units function in this specification.
- 4. Beep Settings
- 5. 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
Tire Pressure Unit	0x0908	0x00	psi
		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 VS-SR-REQ-234039/L-Measure Units

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)
		0x01	Miles and Gallons (UK only) / BEV: Miles and kWh (mi/kWh) (UK only)
		0x02	Liter/100 km <u>/</u> BEV: km and kWh (kWh/100km)
		0x03	km/Liter <u>/</u> 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) / <u>BEV: Miles and kWh (mi/kWh) (UK only)</u>" this will not be sent by the Centerstack Settings HMI Client when the Miles and Gallons HMI is selected by the user.
- The Feature Settings Server may respond back to Feature.Rq(Configuration = 0x0 Miles and Gallons / <u>BEV: Miles and kWh (mi/kWh)</u>) 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 / <u>BEV HMI</u> for either response.

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Unless noted otherwise what is set in Feature Number 0x0901 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.

- "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"

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 VS-SR-REQ-234430/D-Vehicle Settings Start-Up

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 <u>VS-SR-REQ-234434/C-HMI Activation during Run - Vehicle Settings</u>

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.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
Auto Engino 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)	0.0414	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.Rg and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Silent Mode	0x0418	0x00	OFF / Disabled
Silent 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 –	0x041C	0x00	0x00 OFF / Disabled
Perimeter Alarm	0.0410	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.Rg and Feature.St messages shall be used below.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name		
Compar Cot	0x041D	0x00	All Sensors Active / Full Guard		
Sensor Set	000410	0x01	Perimeter Sensing / Reduced Guard		

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Feature Description	<u>Feature</u> <u>Number</u>	Configuration Number	HMI selection / Configuration Name
Motion Sensors 0x041D	<u>0x00</u>	<u>ON</u>	
	<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 <u>VS-SR-REQ-234289/C-Park Slot - 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.

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 Slot - Chimes	0x0904	0x00	0x00 OFF / Disabled
Tark Glot - Chillies		0x01	0x01 ON / Enabled

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

3.3.6.1.2 VS-SR-REQ-234290/C-Information - 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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Information Chimag	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)	0.00009	0x01	Last Setting

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

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

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- 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 VS-SR-REQ-234313/G-Seats and Steering Wheel - 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
Driver Heated/Cooled Seat	0×0501	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	0.00002	0x01	OFF

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Heated Steering Wheel – Remote	0x040A	0x00	Auto
Start	0.040.4	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
	- Remote	0x00	OFF
Duration – Remote Start		0x01	5 min
	0x0406	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/C-Quiet Start - 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
Quiet Start – Remote	0,0505	0x00	OFF
Start	0x0505	0x01	ON

SYNC Gen 3 Screen / ID HMI Number

No SYNC HMI at the time this SPSS was written

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

3.3.8.1 Requirements

3.3.8.1.1 VS-SR-REQ-234319/C-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	0×0404	0x00	OFF / Disabled
/ Remote Open 0x0401	0x01	ON / Enabled	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
20	195

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3.3.8.1.2 VS-SR-REQ-234320/C-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 Close / Remote	0x0402	0x00	OFF / Disabled
Close	0X0402	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
20	196

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

3.3.9.1 Requirements

3.3.9.1.1 <u>VS-SR-REQ-234331/C-Courtesy Wiper</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
Courtooy Wipor	0x0407	0x00	OFF / Disabled
Courtesy Wiper		0x01	ON / Enabled

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

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
Rain Sensing Wipers	0x0408	0x00	OFF / Disabled
Rain Sensing Wipeis		0x01	ON / Enabled

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

3.3.9.1.3 <u>VS-SR-REQ-234333/C-Reverse Wipers</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
Rear Reverse Gear	0x0409	0x00	OFF / Disabled
Wipe		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

3.3.10.1 Requirements

3.3.10.1.1 <u>VS-SR-REQ-234336/D-Power Liftgate</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
Power Liftgate	Power Liftgate 0x0C50	0x00	OFF / Disable Switch
1 OWS: Entigate		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
22	201

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	gate 0x0C50	0x00	OFF / Disable Switch
Power Deckiid / Liligate		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/A-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
<u>rianusiree Liitgate</u>		0x01	ON / Enable Switch

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
22	305

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Power Dooklid / Liftgeto	0x0C50	0x00	OFF / Disable Switch
Power Decklid / Liftgate		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.

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

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
22	304

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

3.3.13.1 Requirements

3.3.13.1.1 VS-SR-REQ-234339/E-Auto Highbeam / Adaptive Drivebeam / Glare Free

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	0x080C	0x00	OFF / Disabled
/ Glare Free	0,000	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/C-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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Daytime Running	0x0415	0x00	OFF / Disabled
Lights	0.0413	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
23	204



3.3.13.1.3 VS-SR-REQ-234341/C-Welcome Lighting

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
Welcome Lighting /	0x0416	0x00	OFF / Disabled
Approach Detection	0x0416	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
23	205

3.3.13.1.4 VS-SR-REQ-234342/C-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.

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 Headlamps	mps 0x040E	0x00	OFF / Disabled
Adaptive Headiamps		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
23	206

3.3.13.1.5 VS-SR-REQ-234343/C-Adaptive Headlight Set-Up

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

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
24	207

3.3.13.1.6 <u>VS-SR-REQ-234344/C-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.

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
	0x040D	0x00	0 seconds (Off)
		0x01	1 second
Autolamp Delay		0x02	2 seconds
	0xFF	255 seconds	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
25	208	

3.3.13.1.7 VS-SR-REQ-272030/B-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.

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

SYNC Gen 3 Screen / ID HMI Number
N/A

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

3.3.14.1 Requirements

3.3.14.1.1 <u>VS-SR-REQ-234347/C-AutoLock</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
AutoLock (drive	0x0403	0x00	OFF / Disabled
away locking)		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
27	209

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3.3.14.1.2 <u>VS-SR-REQ-234348/C-AutoUnlock</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.

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
Autol Iplack	0v0404	0x00	OFF / Disabled
AutoUnlock	0x0404	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
27	210

3.3.14.1.3 <u>VS-SR-REQ-234356/C-Relock</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
Auto Polook	0v0412	0x00	OFF / Disabled
Auto Relock	0x0413	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number
27

3.3.14.1.4 VS-SR-REQ-234349/C-Mislock

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
Mis lock foodback	0x0411	0x00	OFF / Disabled
Mis-lock feedback	0X0411	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
27	211

3.3.14.1.5 VS-SR-REQ-234351/D-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.

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
Lock Trim Switch	0x0410	0x00	OFF / Disabled
Inhibit / Switch Inhibit	0X0410	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
27	212

3.3.14.1.6 VS-SR-REQ-234353/C-Audible Locking 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Audible Locking	0x0419	0x00	OFF / Disabled
Feedback		0x01	ON / Enabled

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
27	215

3.3.14.1.7 VS-SR-REQ-234354/C-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	
	0x01	ON / Enabled	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
27	216

3.3.14.1.8 VS-SR-REQ-234357/D-Remote Unlock

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
Remote Unlock:		0x00	All Doors / One Stage
One/Two Stage Unlocking	0x0405	0x01	Driver's door / Two Stage



SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
26	217

3.3.14.1.9 VS-SR-REQ-272687/B-Global Unlock

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
One/Two Stage Unlocking 0x0405	0x00	One Stage / All Doors / Global Unlock ON(enabled)	
	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.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID	
27	218	

3.3.14.1.10VS-SR-REQ-272694/B-Intelligent Access

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
Intelligent Access / Key Free / Passive	0x0412	0x00	OFF / Disabled
Entry Customer Enable		0x01	ON / Enabled



SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
27	213, 214

3.3.14.1.11VS-SR-REQ-350467/A-Walk Away Lock

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
Walk Away Lock	0v0420	0x00	OFF / Disabled
Walk Away Lock 0x0420	0x01	ON / Enabled	

HMI Setting ID		
1034		

3.3.14.1.12<u>VS-SR-REQ-350468/A-Walk Away Lock Feedback</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
Walk Away Lock	0×0421	0x00	OFF / Disabled
Feedback Audible 0x0421	0x01	ON / Enabled	



HMI Setting ID	
1035	

3.3.14.1.13VS-SR-REQ-350469/A-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	ninder 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 VS-SR-REQ-234360/C-Auto Fold 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Fold Mirrors	0x0702	0x00	OFF / Disabled
Auto i old Willions	0.0702	0x01	ON / Enabled

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SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
28	219

3.3.15.1.2 VS-SR-REQ-234361/C-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
Reverse Tilt Mirrors	0x0703	0x00	OFF / Disabled
Reverse IIII WIIIOIS	0x0703	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
28	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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Continue Heat –	0x0C70	0x00	OFF / Disable
Park Heater	0.00070	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	0.00091	0x01	ON / Enable

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18b	173

3.3.16.1.3 VS-SR-REQ-234378/E-Programming Single Time - 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Single	0x0C71	0x00	OFF / Disable
Time – Park Heater	UXUC/1	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18c	174

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0C72	0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
Hour - Programming Ox		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
18c, 19a	175

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0C73	0x00	Minute 0
		0x01	Minute 1
Minute - Programming Single Time		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
18c, 19a	175

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	0x0C74	0x00	2016
		0x01	2017
Year - Programming Single Time		0x02	2018
		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
	0x0C75	0x00	January
		0x01	February
		0x02	March
Month - Programming Single Time		0x03	April
		0x04	May
		0x05	June
		0x06	July
		0x07	August

_	_		
		0x08	September
		0x09	October
		0x0A	November
		0x0B	December

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18c, 19b	176

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Day - Programming Single Time	0x0C76	0x00	Day 1 (1 st day of the month)
		0x01	Day 2
		0x02	Day 3
		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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1 – Park Heater	0x0C77	0x00	OFF / Disable
		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
Hour - Programming Time 1	0x0C78	0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
		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	178	

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Minute - Programming Time 1	0x0C79	0x00	Minute 0
		0x01	Minute 1
		0x02	Minute 2

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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	0x0C7A	0x00	OFF / Disable
		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	0x0C7B	0x00	OFF / Disable
– Tuesday		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	180

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 1		0x00	OFF / Disable
– Wednesday		0x01	ON / Enabled

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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	0x0C7D	0x00	OFF / Disable
– Thursday		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	0x0C7E	0x00	OFF / Disable
– Friday		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	0x00	OFF / Disable	
– Saturday	0x0C7F	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	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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Programming Time 2	0×0C81	0x00	OFF / Disable
– Park Heater	0x0C81	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
18d	186



Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
	ming 0x0C82	0x02	Hour 2 (2 AM)
Hour - Programming		0x03	Hour 3 (3 AM)
Time 2		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
	me 2 0x0C83	0x02	Minute 2
Minute -		0x03	Minute 3
Programming Time 2			
		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
Wednesday		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
Saturday		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	2 0x0C8A	0x00	OFF / Disable
– Sunday	UNUCOA	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.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
Aux Heater – Fuel Operated Heater 0x0C90	0x00	OFF / Disabled	
	0x0C90	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 <u>VS-SR-REQ-273581/D-Passenger Airbag</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	OFF / Disabled
Passenger Airbag	0x0E50	0x01	ON / Enabled
		0x02	Gray Out Menu

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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).

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.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
	0x0909	0x00	1 Year
Tire Mobility		0x01	2 Years
The Mobility		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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0×00	Auto
Power Running Board	0x0C51	0x01	O#
		0x02	Out

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
51 / 29	159

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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Easy Entry / Easy Exit		0x00	OFF / Disabled
(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)

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
		0x00	OFF / Disabled
Cargo Loading	<u>0x0B05</u>	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number
51



3.3.24 VS-FUN-REQ-272705/A-Air Suspension

3.3.24.1 Requirements

3.3.24.1.1 <u>VS-SR-REQ-272706/C-Air Suspension</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
Air Suspension		0x00	OFF / Disabled
(Air Suspension Service)	0x0B03	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	200

3.3.25 VS-FUN-REQ-279097/A-MyColor

3.3.25.1 Requirements

3.3.25.1.1 VS-SR-REQ-279098/B-Gauge Color / Primary 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Gauge Color / Primary Color - MyColor		0x0	OFF
		0x1	Ice Blue White Green / Highland Green
	0x0940	0x2	
	0x0940	0x3	
		0x4	Purple
		0x5	Blue

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		0x6	Orange	
		0x7	Red	
		0x8	MyColor1	
		0x9	MyColor2	
		0xA	MyColor3	

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.

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
100, 101, 102	241, 254

3.3.25.1.2 VS-SR-REQ-279099/B-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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x0	OFF
		0x1	lce Blue
		0x2	White
		0x3	Green / Highland Green
Halo Color / Secondary Color - MyColor		0x4	Purple
	0x0941	0x5	Blue
		0x6	Orange
		0x7	Red
		0x8	MyColor1
		0x9	MyColor2
		0xA	MyColor3

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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.

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
100, 101, 102	243, 255

3.3.25.1.3 VS-SR-REQ-279101/B-Halo 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
Hala Lighting MuCalar 000040	0x0	OFF / Disabled	
Halo Lighting - MyColor	0x0942	0x1	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Settings ID
100	242

3.3.25.1.4 VS-SR-REQ-280522/B-Color Wheel 1 - 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Color Wheel 1 – MyColor		0x00	OFF
	0x0943	0x01	Color 1
		0x02	Color 2

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md	Ford Motor Company		Subsystem Part Specific Sp Engineering Sp	pecification pecification
		0x03	Color 3	
		cont.		
		0x18	Color 24	
		0x19	Color 25	
		0x1A	Color 26	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
103	247

3.3.25.1.5 VS-SR-REQ-280523/B-Color Wheel 2 - 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
	neel 2 - MyColor 0x0944	0x00	OFF
		0x01	Color 1
Color Wheel 2 - MyColor		0x02	Color 2
		0x03	Color 3
		cont.	
		0x18	Color 24
		0x19	Color 25
		0x1A	Color 26

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
103	248



3.3.25.1.6 VS-SR-REQ-280524/B-Color Wheel 3 - 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
	0x0945	0x00	OFF
		0x01	Color 1
Color Wheel 3 - MyColor		0x02	Color 2
		0x03	Color 3
		cont.	
		0x18	Color 24
		0x19	Color 25
		0x1A	Color 26

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
103	249

3.3.25.1.7 VS-SR-REQ-279104/B-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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Ambient Lighting -		0x00	OFF / Disabled
MyColor	0x0946	0x01	ON / Enabled



SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
100, 101	244, 256

3.3.25.1.8 VS-SR-REQ-280525/B-Ambient 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x0	OFF
		0x1	lce Blue
		0x2	White
	0x0947	0x3	Green / Highland Green
Ambient Color - MyColor		0x4	Purple
		0x5	Blue
		0x6	Orange
		0x7	Red
		0x8	MyColor1
		0x9	MyColor2
		0xA	MyColor3

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
100, 101, 102	246, 258



3.3.25.1.9 VS-SR-REQ-280526/B-Ambient Dim - 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
	0x0948	0x00	OFF / Disabled
Ambient Dim - MyColor		0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
100, 101, 104	245, 257

3.3.26 VS-FUN-REQ-280537/A-Auto Regen

3.3.26.1 Requirements

3.3.26.1.1 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 0x0D06 Control	0x01	ON / Enabled	

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
13	237

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3.3.27 VS-FUN-REQ-280668/A-Trailer Brake

3.3.27.1 Requirements

3.3.27.1.1 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.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.

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
Widde - Haller Blake		0x01	EOH (Electric Over Hydraulic)

HMI Setting ID		
239		

3.3.27.1.2 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.

Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
		0x00	Heavy
Effort – Trailer Brake	railer Brake 0x0E10 0x0E11	0x01	Medium
		0x02	Light

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HMI Setting ID		
240		

3.3.28 VS-FUN-REQ-280671/A-Exhaust Mode

3.3.28.1 Requirements

3.3.28.1.1 <u>VS-SR-REQ-280672/B-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
	0x0D09	0x00	Quiet / Stealth
Exhaust Mode 0		0x01	Normal
	0x0D09	0x02	Sport
		0x03	Track

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
97	250

3.3.29 VS-FUN-REQ-280678/A-Quiet Start - Exhaust Mode

3.3.29.1 Requirements

3.3.29.1.1 VS-SR-REQ-280679/C-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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Quiet Start - Exhaust		0x00	OFF / Disabled
<u>Mode</u>	0x0D0A	0x01	ON / Enabled

SYNC Gen 3 Screen / ID HMI Number	HMI Setting ID
98	251

3.3.30 VS-FUN-REQ-280682/A-Set Quiet Time - Exhaust Mode

3.3.30.1 Requirements

3.3.30.1.1 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.

Feature Description	Feature	Configuration	HMI selection /
- eature Description	Number	Number	Configuration Name
	0x0D0B	0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
Set Quiet Time – Exhaust Mode Start		0x02	Hour 2 (2 AM)
		0x03	Hour 3 (3 AM)
		0x04	
		ŧ	Hour 21 (9 PM)
		0x16	Hour 22 (10 PM)
		0x17	Hour 23 (11 PM)

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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
	0x0D0E	0x00	Hour 0 (12 AM)
		0x01	Hour 1 (1 AM)
Set Quiet Time – Exhaust Mode End		0×02	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
98, 99	252

3.3.31 VS-FUN-REQ-280684/A-Rev Match (Engine Revolution Match)

3.3.31.1 Requirements

3.3.31.1.1 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	0x0D08	0x00	OFF / Disabled
Revolution Match)		0x01	ON / Enabled

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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 VS-SR-REQ-333163/A-Settings Start-Up

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
Tire Pressure Reset / Tire Monitor	0x0960	0x00	Null / Inactive
		0x01	Reset (Request from Centerstack Settings HMI Client)
		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

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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 -	0x0961	0x00	Reminder OFF
Border Crossing		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 /	0x0962	0x00	OFF / Disabled
Show EcoCoach in Go Mode	00002	0x01	ON / Enabled

SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1014

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3.4.4.1.2 <u>VS-SR-REQ-333155/A-Eco Advices</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 - Eco Advices	0x0963	0x00	OFF / Disabled
Ecocoacii - Eco Advices		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	0x0964	0x00	OFF / Disabled
Support	0,0304	0x01	ON / Enabled

SYNC Gen 4.0 Screen / ID HMI Number	HMI Setting ID
TBD	1016

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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
Ecocoacii iii Eco wode	OXOSOL	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 <u>VS-SR-REQ-333114/C-Speedometer MPH</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
		0x00	OFF / Disabled
Speedometer MPH	0x0965	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 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

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HMI Setting ID
1017

3.4.5.1.2 <u>VS-SR-REQ-333162/C-Speedometer Km/h</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
Speedometer Km/h 0x0		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
All other markets	Km/h

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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	0x0967	0x00	OFF / Disabled
	0.0907	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 VS-SR-REQ-333161/D-Neutral Tow

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	0x0968	0x01	
Neutral 10W	0.0900		(Response/Status from FBMP Feature Server)
			Initialize for 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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- 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 0x01 ON/Enabled from the FBMP Neutral Tow Server then the Centerstack
 Settings HMI Client shall go to the appropriate HMI screen (see HMI spec for details) and grey out the Neutral Tow
 setting
- 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
 - 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	0x0969	0x00	OFF / Disabled	
	020303	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	
	000000	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 middle-man) 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 message usage</u>

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	CtrStkFeat2NoActI
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	FeatConfiglpc2Actl
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 <u>VS-SR-REQ-364390/A-HMI Activation during Run</u>

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 VS-SR-REQ-364614/A-Engine Oil Temp Life 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	
Engine Oil Temp Gauge – Cluster menu	0x096B	0x00	OFF / Disabled	
	OXOSOB	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.

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 Gauge – Cluster menu	0x096C	0x00	OFF / Disabled
	0,0000	0x01	ON / Enabled

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HMI Setting ID			
1041			

3.5.5 VS-FUN-REQ-365516/A-Tachometer

3.5.5.1 Requirements

3.5.5.1.1 <u>VS-SR-REQ-365517/A-Tachometer 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
Tachometer Gauge – Cluster menu	0x096D	0x00	OFF / Disabled
	0.0000	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

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

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3.5.6.1.2 VS-SR-REQ-365551/A-Oil Life Percentage

The signal EngOilLife_Pc_Actl shall be used for oil life percentage HMI if displayed in the Centerstack HMI

HMI Settings ID		
1044		

3.5.6.1.3 <u>VS-SR-REQ-365550/A-Oil Life Reset</u>

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
	0x096F	0x00	Null / Inactive
Oil Life Reset		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.Rg 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).

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 config	0x0980	0x00	OFF / Disabled
	0.0000	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.

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 – Cluster loD config	0x0981	0x00	OFF / Disabled
	0.0301	0x01	ON / Enabled

HMI Setting ID		
1046		

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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
		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
		0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Fuel Economy – Cluster IoD config	0x0984	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

HMI Setting ID			
1049			

3.5.7.1.6 VS-SR-REQ-365690/A-Electric Efficiency - 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
Electric Efficiency – Cluster IoD config	0x0985	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID
1050

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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Eco Behaviors – Cluster IoD	0x0986	0x00	OFF / Disabled
config	0,0000	0x01	ON / Enabled

Note: this setting uses Feature2.Rg 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
		0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Auto Start Stop – Cluster IoD	0x0988	0x00	OFF / Disabled
config	0,0000	0x01	ON / Enabled

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

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID		
1054		

3.5.7.1.11 <u>VS-SR-REQ-365701/A-TPMS - 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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
TDMS Cluster loD config	0x098A	0x00	OFF / Disabled
TPMS – Cluster IoD config		0x01	ON / Enabled

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
200 Godern Glaster lob corning	OXOSOB	0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Now Playing (Audio / Phone) –	0x098C	0x00	OFF / Disabled
Cluster IoD config	0x090C	0x01	ON / Enabled

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	UXUSUD	0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Average Speed – Cluster IoD	0x098E	0x00	OFF / Disabled
config	OXOGOL	0x01	ON / Enabled

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	0,000	0x01	ON / Enabled

Note: this setting uses Feature2.Rg 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.Rg and Feature.St messages shall be used below.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
ADAS Cluster IoD config	0×0990	0x00	OFF / Disabled
ADAS - Cluster IoD config	0x0890	0x01	ON / Enabled

HMI Setting ID
1061

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 –	0x0991	0x00	OFF / Disabled
Cluster IoD config	0.00991	0x01	ON / Enabled

Note: this setting uses Feature2.Rg 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.

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	Configuration	HMI selection / Configuration
	Number	Number	Name
Classic View – Cluster IoD config	0x0992	0x00	OFF / Disabled

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0x01 ON / Enabled	Ford	Ford Motor Company		Subsystem Part Specific Spe Engineering Spe	
			0x01	ON / Enabled	

HMI Setting ID
1078

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.

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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Cotto Defecult a sufficience		0x00	Null / Inactive
Set to Default – configure Cluster Trip 1 view	0x09A1	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		

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	0x09A2	0x00	OFF / Disabled
Cluster Trip 1 view	0,09,72	0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

HMI Setting ID		
1065		

3.5.8.1.4 VS-SR-REQ-365858/A-Trip 1 Timer - 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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Trip 1 Timer – configure Cluster	0x09A3	0x00	OFF / Disabled
Trip 1 view	0.000.70	0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

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	0γ09Δ4	0x00	OFF / Disabled
Cluster Trip 1 view	0x09A4	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.

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Feature Description	Feature Number	Configuration Number	HMI selection / Configuration Name
Average Fuel – configure Cluster	0x09A5	0x00	OFF / Disabled
Trip 1 view	0.000.70	0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

HMI Setting ID			
1068			

3.5.8.1.7 <u>VS-SR-REQ-365865/A-Instantaneous Fuel - 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
Instantaneous Fuel – configure	0x09A6	0x00	OFF / Disabled
Cluster Trip 1 view		0x01	ON / Enabled

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 0x09	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

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.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	
Set to Default – configure	0v00P1	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.

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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 Cluster Trip 2 view	0x09B2	0x00	OFF / Disabled
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

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 Trip 2 view	0x09B3	0x00	OFF / Disabled
		0x01	ON / Enabled

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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
		0x01	ON / Enabled

Note: this setting uses Feature2.Rq and Feature2.St feature based message protocol

HMI Setting ID	
1074	

3.5.9.1.6 VS-SR-REQ-365884/A-Average Fuel - 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
Average Fuel – configure Cluster 0x09B5	0x00	OFF / Disabled	
Trip 2 view	0,00000	0x01	ON / Enabled

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HMI Setting ID	
1075	

3.5.9.1.7 VS-SR-REQ-365885/A-Instantaneous Fuel - 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
Instantaneous Fuel – configure	0x00	OFF / Disabled	
Cluster Trip 2 view	0x09B6	0x01	ON / Enabled

Note: this setting uses Feature2.Rg and Feature2.St feature based message protocol

HMI Setting ID	
1076	

3.5.10 VS-FUN-REQ-369169/A-Classic View - Cluster Speedo view

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.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
Classic View – Cluster Speedo	do 0x0970	0x00	Digital Speedometer only
view – Cluster Menu		0x01	Round Speedometer Gauge

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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 <u>VS-SR-REQ-384384/A-Classic Gauge</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
Classic Gauges – Cluster Menu	0x0971	0x00	OFF / Disabled
Classic Gauges – Cluster Meriu		0x01	ON / Enabled

HMI Setting ID	
1082	



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)
	 For SYNC H21J_SYNC_GEN3_Driver_Restrictions
4	Setting in the Centerstack HMI specifications
	 For SYNC H31k HMI spec and SYNC H31K supplement
5	Vehicle Settings (Global) SPSS
6	MyKey Settings in the Centerstack SPSS
7	Infotainment Diagnostics Specification
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