



Research & Vehicle Technology "Infotainment Systems Product Development"

Feature – Embedded Modem Reset InterfaceClient v2

Infotainment Subsystem Part Specific Specification (SPSS)

Version 1.11
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Version Date: February 16, 2022

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Revision History

Date	Ver	Notes	
December 14, 2017	1.0	Initial Release	
March 15, 2018	1.1		
		-CLD-REQ-275640/B- ded Modem Reset	MBORREL4: Updated content to clarify Server role
	EMRv2-CLD-REQ-275641/B- Embedded Modem Reset Key Server		MBORREL4: Updated content to clarify Server role to Client
		LD-REQ-275695/B- ded Modem Reset EV	MBORREL4: Updated content to clarify Server role to Client
	EMR-D Mappin	OC-457437/B-Physical g of Classes	MBORREL4: Removed Sub-SYNC
	Embed	EQ-275645/B- ded Modem Master Server Request	MBORREL4: Removed 2nd bullet point, the reset request is initiated by Interface Client and gatewayed via the Server
	EMR-R Embed	EQ-281278/B- ded Modem Master OnBoardClient	MBORREL4: Changed errorCode to ErrorCode
	EMR-R Embed	EQ-275652/B- ded Modem Master FTCP Alert	MBORREL4: Updated to include VSTAT Authorized detail
	Embed Reset	CT-REQ-275659/B- ded Modem Master	MBORREL4: Updated as reset request is initiated by Interface Client and gatewayed via the Server
	Embed Reset	D-REQ-275660/B- ded Modem Master	MBORREL4: Updated as reset request is initiated by Interface Client and gatewayed via the Server
	Remov	EQ-275663/B-VIN al - Clear User Settings and/Response	MBORREL4: Updated to include VSTAT detail
	Remov	EQ-275665/B-VIN al - Remove CAK and/Response	MBORREL4: Updated Command per FTCP implementation
	EMR-REQ-281490/B-Wifi Hotspot Embedded Modem Reset - OnBoardClient Response EMR-REQ-275680/B-PaaK Embedded Modem Reset - InterfaceClient Request EMR-REQ-281570/B-PaaK Embedded Modem Reset - Server Request EMR-REQ-275688/B-PaaK Embedded Modem Reset - Server Request EMR-REQ-275688/B-PaaK Embedded Modem Reset - FTCP Alert EMR-ACT-REQ-275690/B- PaaK Embedded Modem Reset EMR-SD-REQ-275691/B- PaaK Embedded Modem Reset EMR-REQ-290255/B-Brand Connect Embedded Modem Reset - InterfaceClient Request		MBORREL4: Changed errorCode to ErrorCode
			MBORREL4: Updated content as reset request goes to KeyServer, not Server
			MBORREL4: Removed bullet#1 as reset request is sent from InterfaceClient, not Server
			MBORREL4: Updated alert to CAKStatusAlert and added detail
			MBORREL4: Updated as reset request is initiated by Interface Client and gatewayed via the Server
			MBORREL4: Updated as reset request is initiated by Interface Client and gatewayed via the Server
			MBORREL4: Updated to include KeyServer and EVServer
EMR-REQ-290272/B-Brand Connect Embedded Modem Reset - Server Request		ct Embedded Modem	MBORREL4: Removed bullet #1 as reset request is sent from InterfaceClient, not Server

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	EMR-REQ-281278/B- Embedded Modem Master Reset - OnBoardClient	MBORREL4: Changed errorCode to ErrorCode
	Response EMR-ACT-REQ-290266/B- Brand Connect Embedded Modem Reset	MBORREL4: Updated as reset request is initiated by Interface Client and gatewayed via the Server
	EMR-SD-REQ-290267/B- Brand Connect Embedded Modem Reset	MBORREL4: Updated as reset request is initiated by Interface Client and gatewayed via the Server
September 28, 2018	1.2	
	MD-REQ-241972/E- PaakESN_St	rpaquet2 - Updated BLEMSyncP definition and removed hardware number and Software part number as they are part of the SyncP package
	STR-457441/B-Requirements	MBORREL4: Removed REQ-275648
	EMR-REQ-275645/C- Embedded Modem Master Reset - Server Request	MBORREL4: Updated API per platform team implementation, added more detail (Clarification only)
	EMR-REQ-281278/C- Embedded Modem Master Reset - OnBoardClient Response	MBORREL4: Updated API response per platform team implementation
	EMR-REQ-275647/B-Master & Embedded Modem Reset - Request Handling	MBORREL4: Renamed req. and updated content to remove timer and detail new handling of reset requests
	EMR-REQ-275650/B- Embedded Modem Master Reset - Cleared Data	MBORREL4: Added more detail (Clarification only)
	EMR-ACT-REQ-275659/C- Embedded Modem Master Reset	MBORREL4: Updated diagram to reference Plug and Charge SPSS
	EMR-SD-REQ-275660/C- Embedded Modem Master Reset	MBORREL4: Updated diagram to convey API call as implemented by platform team. Updated diagram to reference Plug and Charge SPSS
	EMR-REQ-275663/C-VIN Removal - Clear User Settings Command/Response	MBORREL4: Updated API per platform team implementation, added more detail (Clarification only)
	EMR-REQ-275650/B- Embedded Modem Master Reset - Cleared Data	MBORREL4: Added more detail (Clarification only)
	EMR-ACT-REQ-275667/B- Removal Of VIN From Account	MBORREL4: Updated diagram to reference Plug and Charge SPSS
	EMR-SD-REQ-275668/B- Removal Of VIN From Account	MBORREL4: Updated diagram to convey API call as implemented by platform team. Updated diagram to reference Plug and Charge SPSS
	STR-457467/B-Requirements	MBORREL4: Removed REQ-275648
	EMR-REQ-281489/B-Wifi Hotspot Board Modem	MBORREL4: Update API per platform team implementation
	Reset - Server Request EMR-REQ-281490/C-Wifi Hotspot Embedded Modem Reset - OnBoardClient Response	MBORREL4: Update API and API response per platform team implementation
	EMR-REQ-275647/B-Master & Embedded Modem Reset - Request Handling	MBORREL4: Renamed req. and updated content to remove timer and detail new handling of reset requests
	EMR-SD-REQ-275678/B-Wifi Hotspot Embedded Modem Reset	MBORREL4: Updated diagram to convey API call as implemented by platform team
	STR-457477/B-Requirements	MBORREL4: Removed REQ-275648
	EMR-REQ-275647/B-Master & Embedded Modem Reset - Request Handling	MBORREL4: Renamed req. and updated content to remove timer and detail new handling of reset requests
	STR-489922/B-Requirements	MBORREL4: Removed REQ-275648
	EMR-REQ-290272/C-Brand Connect Embedded Modem Reset - Server Request	MBORREL4: Updated API per platform team implementation, added more detail (Clarification only)

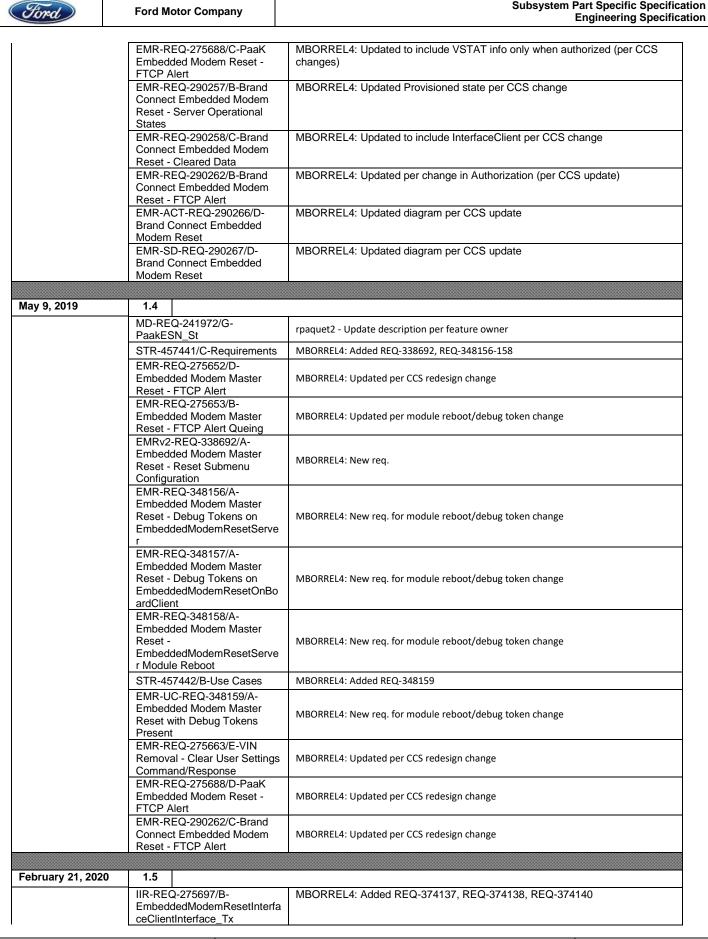
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ı		
	EMR-REQ-281278/C-	MBORREL4: Updated API response per platform team implementation
	Embedded Modem Master Reset - OnBoardClient	
	Response	
	EMR-REQ-275647/B-Master	MBORREL4: Renamed req. and updated content to remove timer and detail
	& Embedded Modem Reset -	new handling of reset requests
	Request Handling	The manager reserves
	EMR-REQ-290258/B-Brand	MBORREL4: Added more detail (Clarification only)
	Connect Embedded Modem	,,,
	Reset - Cleared Data	
	EMR-HMI-REQ-290260/B-	MBORREL4: Removed TCU config precondition (not required as Brand Connect
	Brand Connect Embedded	is always available when Reset submenu is shown)
	Modem Reset - User Input	
	Enable/Disable	
	EMR-ACT-REQ-290266/C-	MBORREL4: Updated diagram to reference Plug and Charge SPSS
	Brand Connect Embedded	
	Modem Reset	MDODDEL 4: Undeted discusses to engage ADI poll on insulance and discusses
	EMR-SD-REQ-290267/C-	MBORREL4: Updated diagram to convey API call as implemented by platform
	Brand Connect Embedded Modem Reset	team. Updated diagram to reference Plug and Charge SPSS
	STR-457488/B-Appendix:	MBORREL4: Updated References
	Reference Documents	WIDOTTILLA. Opuated Itererelloes
	Reference Documents	
0-1-1-10-0010	T 40 T	
October 10, 2018	1.3	
	STR-457434/B-Overview	MBORREL4: Removed the note mentioning potential CCS changes
	MD-REQ-241972/F-	rpaquet2 - Updated the description to clarify operations
	PaakESN_St	paquote opaated the description to dainy operations
	EMR-REQ-275649/B-	MBORREL4: Updated state to Provisioned per CCS update
	Embedded Modem Master	
	Reset - Server Operational	
	States	
	EMR-REQ-275650/C-	MBORREL4: Added InterfaceClient (per CCS update)
	Embedded Modem Master	
	Reset - Cleared Data	
	EMR-REQ-275652/C-	MBORREL4: Updated per change in Authorization (per CCS update)
	Embedded Modem Master	
	Reset - FTCP Alert	MDODDEI 4: Undeted discusses non COC about no
	UCD-REQ-275657/B-Reset Feature	MBORREL4: Updated diagram per CCS changes
	EMR-ACT-REQ-275659/D-	MBORREL4: Updated diagram per CCS update
	Embedded Modem Master	WIDORKEL4. Opualed diagram per CC3 update
	Reset	
	EMR-SD-REQ-275660/D-	MBORREL4: Updated diagram per CCS update
	Embedded Modem Master	MBOTTTEE4. Opuniou diagram per 000 apanto
	Reset	
	STR-457455/B-Requirements	MBORREL4: Removed REQ-275664 (now handled by CCS)
	EMR-REQ-275662/B-VIN	MBORREL4: Added CCS reference
	Removal - Multiple vs Last	WIDOTATELT. Added OOD Telefelice
	User	
	EMR-REQ-275663/D-VIN	MBORREL4: Updated Authorized state per CCS changes
	Removal - Clear User Settings	
	Command/Response	
	EMR-REQ-275650/C-	MBORREL4: Added InterfaceClient (per CCS update)
	Embedded Modem Master	i ' '
	Reset - Cleared Data	
	EMR-UC-REQ-275666/B-	MBORREL4: Changed precondition per CCS
	Removal Of VIN From	
	Account	MDODDELA Hadatad Paris
	EMR-ACT-REQ-275667/C-	MBORREL4: Updated diagram per CCS update
	Removal Of VIN From	
	Account EMR-SD-REQ-275668/C-	MBORREL4: Updated precondition and diagram per CCS update
	Removal Of VIN From	WIDORNEL4. Opuated precondition and diagram per CCS update
	Account	
	EMR-REQ-275684/B-PaaK	MBORREL4: Updated Provisioned status per CCS changes
	Embedded Modem Reset -	mbotities to opulious traviolotica status per ooo citaliges
	Operational States	
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MD-REQ-374137/A-	MBORREL4: New req.
setResetControl	MOODEL 4 M
MD-REQ-374138/A- getResetControlStatus	MBORREL4: New req.
MD-REQ-374140/A-	MBORREL4: New req.
setRCUserSelection	MDOTTILET. NOW TOG.
IIR-REQ-275698/B-	MBORREL4: Added REQ-238455, REQ-374137, REQ-374138
EmbeddedModemResetInterfa	
ceClientInterface_Rx	
MD-REQ-241972/H-	rpaquet2 - Clarified description
PaakESN_St	MPORRELANI
MD-REQ-374137/A- setResetControl	MBORREL4: New req.
MD-REQ-374138/A-	MBORREL4: New req.
getResetControlStatus	MBOTTILE 4. NOW TOO.
STR-490802/B-General	MBORREL4: Added REQ-374132, REQ-381350
Requirements	
EMR-REQ-374132/A-Master	MBORREL4: New req.
& Embedded Modem Reset -	
MyKey Restriction EMR-REQ-381350/A-Non-	MBORREL4: New req. for Non-Connected Market
Connected Market Operation -	MBORREL4. New Teq. 101 Not1-Conflected Market
EmbeddedModemResetServe	
r	
STR-457440/B-Functional	MBORREL4: Added FUN-REQ-375815
Definition	
EMRv2-REQ-338692/B-	MBORREL4: Added IEPAA
Embedded Modem Master Reset - Reset Submenu	
Configuration	
EMR-HMI-REQ-290260/C-	MBORREL4: Updated req
Brand Connect Embedded	
Modem Reset - User Input	
Enable/Disable	Magazia
EMR-FUN-REQ-375815/A-	MBORREL4: New req.
Reset Control STR-718666/A-Use Cases	MBORREL4: New STR
EMR-UC-REQ-375817/A- Reset Control Activation	MBORREL4: New req.
EMR-UC-REQ-375818/A-	MBORREL4: New req.
Reset Control Deactivation	
EMR-UC-REQ-375819/A-	MBORREL4: New req.
Reset Control Disabled	
EMR-UC-REQ-375820/A-User	MBORREL4: New req.
performs Master Reset while Reset Control Enabled	
EMR-UC-REQ-375821/A-User	MBORREL4: New req.
requests to disable Reset	MDONNEL4. New req.
Control	
EMR-UC-REQ-375822/A-User	MBORREL4: New req.
performs Master Reset while	
Reset Control Disabled	MDODDEL 4: New sec
EMR-UC-REQ-375823/A- Reset Control Timer expires	MBORREL4: New req.
EMR-UC-REQ-375824/A-User	MBORREL4: New req.
requests to enable Reset	
Control	
STR-718667/A-Requirements	MBORREL4: New STR
EMR-REQ-375825/A-Reset	MBORREL4: New reg.
Control Feature Internal	·
Config. Parameter	
EMR-REQ-375826/A-Reset	MBORREL4: New req.
Control Status Internal Config. Parameter	
EMR-REQ-375827/A-Reset	MBORREL4: New req.
Control Timer Internal Config.	MEGRICLET. 140W 104.
Parameter T_ResetControl	
EMR-REQ-375828/A-Reset	MBORREL4: New req.
Control Status Alert	

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EMR-REQ-375829/A-Reading Reset Control Config.	MBORREL4: New req.
Parameters EMR-REQ-375830/A-Reset	MBORREL4: New req.
Control Feature Config. Parameter = DISABLED	
EMR-REQ-375831/A-Reset Control Feature Config.	MBORREL4: New req.
Parameter = OFF	
EMR-REQ-375832/A-Reset Control Feature Config.	MBORREL4: New req.
Parameter = ON	
EMR-REQ-375833/A-Reset Control Status Config.	MBORREL4: New req.
Parameter Default	
EMR-REQ-375834/A-Reset Control Status Config.	MBORREL4: New req.
Parameter =	
DEACTIVATERESET EMR-REQ-375835/A-Reset	MBORREL4: New req.
Control Status Config. Parameter due to Reset	·
EMR-REQ-375836/A-Reset	MBORREL4: New req.
Control Status Config. Parameter due to re-	
Authorization	
EMR-REQ-375837/A-Reset Control Status Config.	MBORREL4: New req.
Parameter =	
ACTIVATERESET EMR-REQ-375838/A-Reset	MBORREL4: New req.
Control while ActivateReset -	
EmbeddedModemResetInterfa ceClient	
EMR-REQ-375839/A-Reset Control while DeactivateReset	MBORREL4: New req.
-	
EmbeddedModemResetInterfa ceClient	
EMR-REQ-375840/A-Reset	MBORREL4: New req.
Request while in DeactivateReset	
EMR-REQ-375841/A-Reset	MBORREL4: New req.
Request while ActivateReset EMR-REQ-375842/A-	MBORREL4: New req.
UpdateResetControlSettingsCommand – Feature Disable	
EMR-REQ-375843/A-	MBORREL4: New req.
UpdateResetControlSettingsCommand – Enable/Disable	
EMR-REQ-375844/A-	MBORREL4: New req.
UpdateResetControlSettingsC ommand – Timer Value	
EMR-REQ-375845/A-Reset Control Timer Start/Stop	MBORREL4: New req.
EMR-REQ-375846/A-Reset	MBORREL4: New req.
Control Timer EMR-TMR-REQ-375851/A-	MBORREL4: New req.
T_ResetControl	'
EMR-REQ-375848/A- UpdateResetControlSettingsC	MBORREL4: New req.
ommandResponse to Cloud	MDODDEL 4: Now roa
EMR-REQ-375849/A-Loss of Communication	MBORREL4: New req.
STR-718668/A-White Box	MBORREL4: New STR
View EMR-ACT-REQ-375895/A-	MBORREL4: New req.
User Enables Reset Control EMR-ACT-REQ-376524/A-	MBORREL4: New req.
User Disables Reset Control	MISSISTEET. HOW TOO.

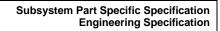
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	EMR-SD-REQ-375897/A-User Enables Reset Control	MBORREL4: New req.
	EMR-SD-REQ-376595/A-User	MBORREL4: New req.
	Disables Reset Control	
August 4, 2020	1.6	
1149401 1, 2020	STR-459454/B-Architectural	MBORREL4: Added REQ-392647
	Design	
	EMR-CLD-REQ-392647/A- Embedded Modem Reset PnC Server	MBORREL4: New Class
	EMR-DOC-457437/C-Physical Mapping of Classes	MBORREL4: Updated table
	IIR-REQ-275697/C- EmbeddedModemResetInterfa ceClientInterface_Tx	MBORREL4: Added REQ-392660
	MD-REQ-392660/A- setSyncReset	MBORREL4: New req.
	IIR-REQ-275698/C- EmbeddedModemResetInterfa ceClientInterface_Rx	MBORREL4: Added REQ-392660
	STR-490802/C-General Requirements	MBORREL4: Added REQ-396102
	EMR-REQ-381350/B-Non- Connected Market Operation - EmbeddedModemResetServe	MBORREL4: Updated req.
	EMR-REQ-396102/A-eCall Only Market Operation - EmbeddedModemResetServe	MBORREL4: New req. for eCall Only market
	STR-457440/C-Functional Definition	MBORREL4: Added FUN-REQ-392682
	EMR-REQ-275650/D-Cleared	MBORREL4: Updated title and req.
	EMR-REQ-275656/B-Buffered AVD Data	MBORREL4: Updated title and req.
	EMR-FUN-REQ-392682/A- Remote Reset initiated from EmbeddedModemResetOffBo ardClient	MBORREL4: New function
	STR-773578/A-Requirements	MBORREL4: New STR/section
	EMR-REQ-392683/A-Remote Reset & Master Reset – Priority	MBORREL4: New req.
	EMR-REQ-392684/A-Remote Reset – Preconditions	MBORREL4: New req.
	EMR-REQ-392685/A-Remote Reset – FactoryReset_Rq	MBORREL4: New req.
	EMR-REQ-392686/A-Remote Reset – SMS Wakeup	MBORREL4: New req.
	EMR-REQ-392687/A-Remote Reset – Client/Server Applicability Check	MBORREL4: New req.
	EMR-REQ-392688/A-Remote Reset - RemoteResetCommand/Resp onse	MBORREL4: New req.
	EMR-REQ-392689/A-Remote Master Reset - Preconditions Met	MBORREL4: New req.
	EMR-REQ-392690/A-Remote Brand Connect Reset - Preconditions Met	MBORREL4: New req.
	EMR-REQ-392691/A-Remote SYNC Reset - Preconditions Met	MBORREL4: New req.
	EMR-REQ-392692/A-Remote Reset - Preconditions Not Met	MBORREL4: New req.

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	EMR-REQ-392693/A-Remote	MBORREL4: New req.
	Reset - RemoteResetAlert EMR-REQ-392694/A-Remote	MBORREL4: New reg.
	Reset –	
	EmbeddedModemResetServe r Reset Status	
	EMR-REQ-392695/A-Remote Reset –	MBORREL4: New req.
	EmbeddedModemResetInterfa	
	ceClient Reset Status EMR-REQ-392696/A-Remote	MBORREL4: New req.
	Reset –	
	EmbeddedModemResetOnBo ardClient Reset Status	
	EMR-REQ-392699/A-Remote Reset –	MBORREL4: New req.
	EmbeddedModemResetPnCS erver Reset Status	
	EMR-REQ-392700/A-Remote Reset – RemoteResetAlert Queuing	MBORREL4: New req.
	EMR-REQ-392701/A-Remote Reset – InterfaceClient Response	MBORREL4: New req.
	EMR-REQ-392702/A-Remote Master Reset - Completion Time	MBORREL4: New req.
	STR-773577/A-Use Cases	MBORREL4: New STR/section
	EMR-UC-REQ-392703/A- Remote Master Reset is	MBORREL4: New req.
	requested	
	EMR-UC-REQ-392704/A- Remote Brand Connect Reset is requested	MBORREL4: New req.
	EMR-UC-REQ-392705/A- Remote SYNC Reset is requested	MBORREL4: New req.
	STR-773579/A-White Box View	MBORREL4: New STR/section
	EMR-ACT-REQ-393389/A- Remote Reset Requested	MBORREL4: New req.
	EMR-SD-REQ-393390/A-	MBORREL4: New req.
	Remote Reset Requested	
December 19, 2020	1.7	
	MD-REQ-241972/I- PaakESN_St	rpaquet2 - Updated DID value
	EMR-REQ-375834/B-Reset	
	Control Status Config. Parameter =	MBORREL4: Clarification - mentioned Authorization state as a condition
	DEACTIVATERESET	
	EMR-REQ-375835/B-Reset Control Status Config.	MBORREL4: Clarification - corrected SVS subscription dependency
	Parameter due to Reset	
	EMR-REQ-375842/B- UpdateResetControlSettingsC	MBORREL4: Clarification - updated per implementation
	ommand – Feature Disable EMR-REQ-375843/B-	- I - I - I - I - I - I - I - I - I - I
	UpdateResetControlSettingsCommand – Enable/Disable	MBORREL4: Clarification - updated per implementation
	EMR-REQ-375846/B-Reset Control Timer	MBORREL4: Corrected error in last line, ActivateReset instead of DeactivateReset. Removed 'battery resets'
	EMR-REQ-375849/B-Loss of Communication	MBORREL4: Clarification - updated per implementation
	Communication	
April 30, 2021	1.8	
	STR-459454/C-Architectural Design	MBORREL4: Added REQ-413948
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Embedded Modern Reset ADAS Server EMR-RD-02-4573/T/D-thysical Mapping of Classese MD-REO-241972/J- PaakESN St+ MD-REO-241972/K- MD-REO-241972/K- PaakESN St+ MD-REO-241972/K- PaakESN St+ MD-REO-241972/K- PaakESN St- EMR-REQ-275645/D- EMR-REQ-275645/D- Embedded Modern Master Reset - Server Request EMR-REQ-275646/D- Embedded Modern Master Reset - Server Reponse EMR-REQ-275650/E-Cleared Data EMR-REQ-34815/B- Embedded Modern Master Reset - Server Reponse EMR-REQ-34815/B- Embedded Modern Master Reset - Server Negonse EMR-REQ-34815/B- Embedded Modern Master Reset - Server Negonse EMR-REQ-34815/B- Embedded Modern Master Reset - Server Negonse MBORREL4: Added ADAS Reset response, reordered req. for clarity debug (to match implementation). MBORREL4: Added additional impacted features to list. Added Embedded/ModernReses/D- debug (to match implementation). MBORREL4: Updated title. Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Updated title. Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Updated diagram for ADAS Embedded Modern Master Reset MBORREL4: Updated diagram for ADAS Embedded Modern Master Reset MBORREL4: Updated diagram for ADAS MBORREL4: Updated diagram for ADAS MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added Reg-410562, REQ-413950-953 MBORREL4: Added Reg-410562, REQ-413950-953 MBORREL4: Added Remote ADAS Reset Dullet ADAS Reset - Preconditions Met EMR-REQ-39268/JR-Remote Reset - Preconditions Met EMR-REQ-39268/JR-Remote Raset - Reset - Preconditions Met EMR-REQ-39268/JR-Remote		
ADAS Server IMR-DC-457437(D-Physical Mapping of Classes MD-REO-241972/J- paakeSN_St+ MD-REO-241972/K- paakeSN_St+ MD-REO-241972/K- paakeSN_St+ MD-REO-241972/K- paakeSN_St+ MD-REO-241972/K- paakeSN_St+ MD-REO-241972/K- paakeSN_St+ MB-REO-275645/D- Embedded Modern Master Reset - Server Request EMR-REO-275646/B- Embedded Modern Master Reset - Server Response EMR-REO-275646/B- Embedded Modern Master Reset - Server Maplicable Modern Master Reset - Server Modern Master Reset - Server Modern Master Reset - Server Response MBORREL4: Added additional impacted features to list. Added EmbeddedModernResetAdasServer MBORREL4: Departed title. Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Lipidated title. Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Added additional impacted features to list. Added EmbeddedModernResetAdasServer MBORREL4: Departed title. Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Updated title. Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Updated diagram for ADAS MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added Remote ADAS Reset content MBORREL4: Added Remote ADAS Reset MBORREL4: Added Remote ADAS Reset MBORREL4: Added Remote ADAS Reset MBORREL4: New req.	EMR-CLD-REQ-413948/A-	MBORREL4: New Class
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EMR-REQ-392684/B-Remote Reset – Preconditions EMR-REQ-392686/B-Remote Reset – SMS Wakeup EMR-REQ-392686/B-Remote Reset – Client/Server Applicability Check EMR-REQ-392688/B-Remote Reset - RemoteResetCommand/Resp onse EMR-REQ-392689/B-Remote MBORREL4: Removed "Not Applicable" as no status shall be given for not- present ecus. Added ADAS Reset bullet MBORREL4: Added Remote ADAS Reset MBORREL4: Added the API call for ADAS Reset MBORREL4: New req.		
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Reset – SMS Wakeup EMR-REQ-392687/B-Remote Reset – Client/Server Applicability Check EMR-REQ-392688/B-Remote Reset - RemoteResetCommand/Resp onse EMR-REQ-392689/B-Remote Master Reset - Preconditions Met EMR-REQ-413950/A-Remote ADAS Reset - Preconditions Met EMR-REQ-392693/B-Remote ADAS Reset - Preconditions Met EMR-REQ-392693/B-Remote ADAS Reset - RemoteResetAlert Success/Fail Status EMR-REQ-410562/A-Remote Reset - ECU ID EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-413952/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status MBORREL4: Removed "Not Applicable" as no status shall be given for not- present ecus. Added ADAS Reset bullet MBORREL4: Added Remote ADAS Reset MBORREL4: Added the API call for ADAS Reset MBORREL4: New req. MBORREL4: New req. MBORREL4: Updated to clarify ECU success/fail status. Updated title. Added ADAS Reset MBORREL4: New req.		
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Reset - Client/Server Applicability Check EMR-REQ-392688/B-Remote Reset - RemoteResetCommand/Resp onse EMR-REQ-392689/B-Remote Master Reset - Preconditions Met EMR-REQ-413950/A-Remote ADAS Reset - Preconditions Met EMR-REQ-392693/B-Remote Reset - Preconditions Met EMR-REQ-392693/B-Remote Reset - RemoteResetAlert Success/Fail Status EMR-REQ-410562/A-Remote Reset - ECU ID EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status MBORREL4: Added the API call for ADAS Reset MBORREL4: New req. MBORREL4: Updated to clarify ECU success/fail status. Updated title. Added ADAS Reset MBORREL4: New req.		MBORREL 1: Removed "Not Applicable" as no status shall be given for not-
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Onse EMR-REQ-392689/B-Remote Master Reset - Preconditions Met EMR-REQ-413950/A-Remote ADAS Reset - Preconditions Met EMR-REQ-392693/B-Remote Reset - RemoteResetAlert Success/Fail Status EMR-REQ-410562/A-Remote Reset - ECU ID EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status MBORREL4: New req. MBORREL4: Updated to clarify ECU success/fail status. Updated title. Added ADAS Reset MBORREL4: New req.		
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Reset – EmbeddedModemResetAdas Server Reset Status EMR-REQ-413952/A-Remote Reset – EmbeddedModemResetAdas MBORREL4: New req.		MBORREL4: New req.
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EMR-REQ-413952/A-Remote MBORREL4: New req. Reset – EmbeddedModemResetAdas		
Reset – EmbeddedModemResetAdas		MBORREL 4: New reg
EmbeddedModemResetAdas		MEGINELY. NOW 104.
O-mark Description	EmbeddedModemResetAdas	
Server Response	Server Response	





	EMR-REQ-275650/E-Cleared	MBORREL4: Added additional impacted features to list. Added
	Data	EmbeddedModemResetAdasServer
	EMR-REQ-392702/B-Remote Master Reset - Completion Time	MBORREL4: Added EmbeddedModemResetAdasServer
	EMR-REQ-413953/A-	MBORREL4: New req.
	EmbeddedModemResetAdas Server – Publish Settings	
	STR-773577/B-Use Cases	MBORREL4: Added REQ-413956
	EMR-UC-REQ-392703/B-	MBORREL4: Corrected typo
	Remote Master Reset is requested	
	EMR-UC-REQ-392705/B- Remote SYNC Reset is requested	MBORREL4: Corrected typo
	EMR-UC-REQ-413956/A- Remote ADAS Reset is requested	MBORREL4: New req.
	EMR-ACT-REQ-393389/B- Remote Reset Requested	MBORREL4: Updated diagram for ADAS
	EMR-SD-REQ-393390/B- Remote Reset Requested	MBORREL4: Updated diagram for ADAS
	EMR-REQ-275650/E-Cleared Data	MBORREL4: Added additional impacted features to list. Added EmbeddedModemResetAdasServer
September 1, 2021	1.9	
	STR-459454/D-Architectural Design	MBORREL4: Added REQ-429817
	EMR-CLD-REQ-429817/A- Embedded Modem Reset NFC Server	MBORREL4: New Class
	EMR-DOC-457437/E-Physical Mapping of Classes	MBORREL4: Added NFAM
	EMRv2-FUN-REQ-275644/B- Master Reset initiated from EmbeddedModemResetInterfa ceClient	MBORREL4: Corrected title name
	STR-457441/D-Requirements	MBORREL4: Added REQ-429821, REQ-429822, REQ-429823
	EMR-REQ-429821/A-Master Reset - Client/Server	MBORREL4: New req. for NFC
	Applicability Check	
	EMR-REQ-275645/E- Embedded Modem Master Reset - Server Request	MBORREL4: Added NFC content
	EMR-REQ-275646/C-	MBORREL4: Added NFC content
	Embedded Modem Master Reset - Server Response	
	EMR-REQ-281278/D- Embedded Modem Reset - OnBoardClient Response	MBORREL4: Corrected typo (no req. change), updated title
	EMR-REQ-429822/A- Embedded Modem Reset - EmbeddedModemResetNFCS	MBORREL4: New req. for NFC
	erver Response	MDODDEL (NEC
	EMR-REQ-429823/A-	MBORREL4: New req. for NFC
	Embedded Modem Reset - NFCServer Operational States	
	EMR-REQ-275650/F-Cleared Data	MBORREL4: Added NFC
	EMR-ACT-REQ-275659/F- Embedded Modem Master Reset	MBORREL4: Updated for NFC
	EMR-SD-REQ-275660/F- Embedded Modem Master Reset	MBORREL4: Updated for NFC
	STR-773578/C-Requirements	MBORREL4: Added REQ-429921
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	EMR-REQ-392687/C-Remote	MBORREL4: Added NFC content
	Reset – Client/Server	
	Applicability Check	
	EMR-REQ-392689/C-Remote	MBORREL4: Added NFC content
	Master Reset - Preconditions Met	
	EMR-REQ-392690/B-Remote	MBORREL4: Added NFC content
	Brand Connect Reset -	MIDORINELA. Added NI O Content
	Preconditions Met	
	EMR-REQ-392693/C-Remote	MBORREL4: Added NFC content
	Reset - RemoteResetAlert	
	Success/Fail Status	
	EMR-REQ-410562/B-Remote	MBORREL4: Added NFC content
	Reset - ECU ID EMR-REQ-429921/A-Remote	MDODDEL 4. Nov. row for NEC
	Reset -	MBORREL4: New req. for NFC
	EmbeddedModemResetNFCS	
	erver Reset Status	
	EMR-REQ-275650/F-Cleared	MBORREL4: Added NFC
	Data	
	EMR-ACT-REQ-393389/C-	MBORREL4: Updated for NFC
	Remote Reset Requested EMR-SD-REQ-393390/C-	MPORREL 4: Lindated for NEC
	Remote Reset Requested	MBORREL4: Updated for NFC
	EMR-REQ-275662/C-VIN	MBORREL4: Added NFC content
	Removal - Multiple vs Last	MBOTTLE T. Addod W O contont
	User	
	EMR-REQ-275663/F-VIN	MBORREL4: Added NFC content
	Removal - Clear User Settings	
	Command/Response	MBORREL4: Added NFC
	EMR-REQ-275650/F-Cleared Data	MBORREL4: Added NFC
	EMR-ACT-REQ-275667/D-	MBORREL4: Updated for NFC
	Removal Of VIN From	- Indonwala in the c
	Account	
	EMR-SD-REQ-275668/D-	MBORREL4: Updated for NFC
	Removal Of VIN From	
	Account STR-489922/C-Requirements	MBORREL4: Added REQ-429822, REQ-429823
	·	
	EMR-REQ-290272/D-Brand Connect Embedded Modem	MBORREL4: Updated for NFC
	Reset - Server Request	
	EMR-REQ-281278/D-	MBORREL4: Corrected typo (no reg. change), updated title
	Embedded Modem Reset -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	OnBoardClient Response	
	EMR-REQ-429822/A-	MBORREL4: New req. for NFC
	Embedded Modem Reset - EmbeddedModemResetNFCS	
	erver Response	
	EMR-REQ-429823/A-	MBORREL4: New req. for NFC
	Embedded Modem Reset -	
	NFCServer Operational States	
	EMR-ACT-REQ-290266/E-	MBORREL4: Updated for NFC
	Brand Connect Embedded	
	Modem Reset EMR-SD-REQ-290267/E-	MBORREL4: Updated for NFC
	Brand Connect Embedded	INDOTTELT. Opuated for Ni O
	Modem Reset	
September 20, 2021	1.10	
	EMR-DOC-457437/F-Physical	MBORREL4: Added PDC
	Mapping of Classes	
	EMRv2-FUN-REQ-275644/C-	MBORREL4: Updated to include Factory Reset (new for PDC)
	Master Reset / Factory Reset initiated from	
	EmbeddedModemResetInterfa	
	ceClient	
	STR-457441/E-Requirements	MBORREL4: Added 'Factory Reset' section and supporting requirements
		110000000000000000000000000000000000000
	STR-957990/A-Factory Reset	MBORREL4: New section for PDC

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MBORREL4: New req. for PDC
INDUNNEL4. New Teq. 1011 DC
MBORREL4: New req. for PDC
MBORREL4: New req. for PDC
MBORREL4: New req. for PDC
MBORREL4: Added REQ-443197
MBORREL4: New req. clarifying SYNC/PDC action for Remote Reset (clarification)
MBORREL4: Added REQ-443217, REQ-443218
MBORREL4: Added Factory Reset (new for PDC)
MBORREL4: New req. for PDC
MBORREL4: New req. for PDC
MBORREL4: Added REQ-443223-226
MBORREL4: Added Factory Reset (new for PDC)
MBORREL4: Added Factory Reset (new for PDC)
MBORREL4: Added Factory Reset (new for PDC)
MBORREL4: Added Factory Reset (new for PDC)
MBORREL4: New variant req. for PDC
MBORREL4: Added Factory Reset (new for PDC)
MBORREL4: Added Factory Reset (new for PDC)
MBORREL4: New variant req. for PDC
MBORREL4: Added REQ-413948
MBORREL4: Added REQ-429817
MBORREL4: New Class
MBORREL4: New Class
MBORREL4: Corrected spelling, added ADAS
MBORREL4: Added NFAM
MBORREL4: Added PDC

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EMR-IIR-REQ-275697/D-	MBORREL4: Removed REQ-392660. Added REQ-479639, REQ-479657, REQ-
EmbeddedModemResetInterfa	479658, REQ-482638
ceClientInterface_Tx	
MD-REQ-479639/A-	MBORREL4: New req.
setSyncResetConfirm	
MD-REQ-479657/A-	MBORREL4: New req.
resetRequestBroadcast	
MD-REQ-479658/A-	MBORREL4: New req.
getResetAvailability	·
MD-REQ-482638/A-	MBORREL4: Req. to match implementation
setEcuReadyState	
EMR-IIR-REQ-275698/D-	MBORREL4: Added REQ-479637, REQ-479638, , REQ-482637
EmbeddedModemResetInterfa	,,,,
ceClientInterface_Rx	
MD-REQ-222036/C-	jmyslin2: added clarfication to the signal MD
FactoryReset.St	jiiiyoiiii2. added oldiiloddor to trio olghar Mb
MD-REQ-241972/K-	rpaquet2 - Updated description for the Unprovisioned value per Periheral Prov
PaakESN_St+	Feature Owner
	rpaquet2 - updated Unprovisioning and BLEMProvAlertAck descriptions per
MD-REQ-241972/L-	
PaakESN_St	feature owner
MD-REQ-392660/B-	MBORREL4: Updated API
setSyncReset	MDODDEL 4 Marrows
MD-REQ-479637/A-	MBORREL4: New req.
resetProgressBroadcast	
MD-REQ-479638/A-	MBORREL4: New req.
resetAvailabilityBroadcast	
MD-REQ-482637/A-	MBORREL4: Req. to match implementation
ecuReadyStateBroadcast	
STR-490802/D-General	MBORREL4: Added REQ-479677, REQ-479678, REQ-480137
Requirements	· · · ·
EMR-REQ-479677/A-Primary	MBORREL4: New req.
Display Device Determination	
EMR-REQ-479678/A-Reset	MBORREL4: New req.
Availability Broadcast on	MBOTATELA. NOW TOO.
Request	
EMR-REQ-480137/A-Reset	MBORREL4: New req. for PDC
	WIBORKEL4. New Teq. 101 PDC
Availability Request	MBORREL4: Corrected title name
EMRv2-FUN-REQ-275644/B-	MBORREL4. Corrected title name
Master Reset initiated from	
EmbeddedModemResetInterfa	
ceClient+	
EMRv2-FUN-REQ-275644/C-	MBORREL4: Updated to include Factory Reset (new for PDC)
Master Reset / Factory Reset	
initiated from	
EmbeddedModemResetInterfa	
ceClient	
STR-457441/D-	MBORREL4: Added REQ-429821, REQ-429822, REQ-429823
Requirements+	
STR-457441/E-	MBORREL4: Added 'Factory Reset' section and supporting requirements
Requirements+	
STR-457441/F-Requirements	MBORREL4: Added REQ-479698, REQ-479699, REQ-479700, REQ-479701,
,	REQ-480157-159. REQ-480177, REQ-481517-522
EMR-REQ-429821/A-Master	MBORREL4: New reg. for NFC
Reset - Client/Server	
Applicability Check+	
EMR-REQ-429821/B-	MBORREL4: Update title and req.
Client/Server Applicability	mborateles. Opudio tillo dillo 104.
Check	
EMR-REQ-479698/A-Super	MBORREL4: New reg.
	WIDOTALET. NEW 164.
Reset - Preconditions	MPODDEL 4: Now roa for DDC
EMR-REQ-480157/A-Super	MBORREL4: New req. for PDC
Reset - User Input	
Enable/Disable	
EMR-REQ-480158/A-Super	MBORREL4: New req. for PDC
Reset - InterfaceClient	
notifying	
EmbeddedModemResetServe	
r	



EMR-REQ-275645/D-	MBORREL4: Added ADAS Reset API Call
Embedded Modem Master	
Reset - Server Request+	
EMR-REQ-275645/E- Embedded Modem Master	MBORREL4: Added NFC content
Reset - Server Request+	
EMR-REQ-275645/F-	MBORREL4: Updated req.
Embedded Modem Master	·
Reset - Server Request	Macana
EMRv2-REQ-479699/A- Embedded Modem Master	MBORREL4: New req.
Reset - Server Request v2	
EMR-REQ-275646/B-	MBORREL4: Added ADAS Reset response, reordered req. for clarity
Embedded Modem Master	
Reset - Server Response+	MDODDELA ALL INFO
EMR-REQ-275646/C- Embedded Modem Master	MBORREL4: Added NFC content
Reset - Server Response+	
EMR-REQ-275646/D-	MBORREL4: Updated req.
Embedded Modem Master	
Reset - Server Response	MDODDEI 4. New rea
EMR-REQ-479700/A-Super Reset - Reset Progress	MBORREL4: New req.
Broadcast	
EMR-REQ-480177/A-Super	MBORREL4: New req. for PDC
Reset - InterfaceClient	
Performing a Reset	MDODDEL 4. Nov. row for DDC
EMR-REQ-480159/A-Super Reset - InterfaceClient Reset	MBORREL4: New req. for PDC
Response	
EMR-REQ-281278/D-	MBORREL4: Corrected typo (no req. change), updated title
Embedded Modem Reset -	
OnBoardClient Response EMR-REQ-429822/A-	MPODDEL 4: Now roa for NEC
Embedded Modem Reset -	MBORREL4: New req. for NFC
EmbeddedModemResetNFCS	
erver Response	
EMR-REQ-481517/A-	MBORREL4: Req. to capture existing implementation
Embedded Modem Reset - EmbeddedModemResetServe	
r Reset Status	
EMR-REQ-481518/A-	MBORREL4: Req. to capture existing implementation
Embedded Modern Reset -	
EmbeddedModemResetInterfa ceClient Reset Status	
EMR-REQ-481519/A-	MBORREL4: Reg. to capture existing implementation
Embedded Modem Reset -	and the section of th
EmbeddedModemResetOnBo	
ardClient Reset Status	MPORRELA: Pag to conture existing implementation
EMR-REQ-481520/A- Embedded Modem Reset -	MBORREL4: Req. to capture existing implementation
Embedded Modem ResetPnCS	
erver Reset Status	
EMR-REQ-481521/A-	MBORREL4: Req. to capture existing implementation
Embedded Modem Reset - EmbeddedModemResetAdas	
Server Reset Status	
EMR-REQ-481522/A-	MBORREL4: Req. to capture existing implementation
Embedded Modem Reset -	
EmbeddedModemResetNFCS	
erver Reset Status EMR-REQ-275647/C-Master	MBORREL4: Updated req.
& Embedded Modem Reset -	MBORNELT. Opudiou log.
Request Handling	
EMR-REQ-429823/A-	MBORREL4: New req. for NFC
Embedded Modem Reset -	
NFCServer Operational States EMR-REQ-275650/E-Cleared	MBORREL4: Added additional impacted features to list. Added
Data+	EmbeddedModemResetAdasServer
EMR-REQ-275650/F-Cleared	MBORREL4: Added NFC
Data+	

FILE: EMBEDDED MODEM RESET
INTERFACECLIENT V2 SPSS V1.11 FEBRUARY
16 2022 DOCX



EMR-REQ-275650/E-bark-Master & Embedded Modem Reset - Completion Time EMR-RED-479701/A- Master & Embedded Modem Reset - Completion Time EMR-RED-479701/A- Master & Embedded Modem Reset - Completion Time EMR-RED-479701/A- Master & Embedded Modem Master Reset - Completion Time EMR-REQ-37656/C-Buffered MDORREL4: Updated req. reference MDORREL4: Updated title. Clarified that the req. is for security tokens, not just debug (to match implementation). EMR-REQ-348156/B- Embedded Modem Master Reset - Security Tokens on EMR-REQ-348158/B- Embedded Modem Master Reset - Security Tokens on EMR-REQ-348158/B- Embedded Modem Master Reset - Security Tokens on EMR-REQ-348158/B- Embedded Modem ResetServe MODURE RESEARCH MBORREL4: Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: Clarified that the req. is for security tokens, not just debug (to match implementation). MBORREL4: New section for PDC MBORREL4: New req. for PDC MBORREL4: Updated diagram for ADAS MBORREL4: Updated for NFC Embedded Modem Master Reset MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Add
EMR.REC.275656/R-Master
8 Embedded Modern Reset - Completion Time EMRV2-REO-479701/A- Master & Embedded Modern Reset - Completion Time v2 EMR-REO-375656/C-Buffered AVD Data EMR-REO-38156/B-Embedded Modern Master Reset - Security Tokens on Embedded/ModernResetServe f EMR-REQ-348157/B-Embedded Modern Master Reset - Security Tokens on Embedded/ModernResetOnBorardClient EMR-REO-348156/B-Embedded Modern Master Reset - Security Tokens on Embedded/ModernResetOnBorardClient EMR-REO-348156/B-Embedded Modern Master Reset - Security Tokens on Embedded/ModernResetOnBorardClient EMR-REO-348156/B-Embedded/ModernResetServe f Roset - Security Tokens on Embedded/ModernResetServe f Roset - Security Tokens on Embedded f Roset - Security Tokens on Embedded f Roset - Security Tokens on Embedded f Roset - InterfaceClient Request EMR-REO-443176/A-Factory Reset - InterfaceClient Actions STR-45746/B-White Box
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EMR-ACT-REQ-275659/E- Embedded Modem Master Reset+ EMR-ACT-REQ-275659/F- Embedded Modem Master Reset EMR-ACT-REQ-275659/F- Embedded Modem Master Reset EMRV2-ACT-REQ-480538/A- Embedded Modem Master Reset v2 EMR-SD-REQ-275660/E- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRV2-SD-REQ-480539/A- Embedded Modem Master Reset EMRV2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ STR-773578/C- Requirements+ MBORREL4: Updated diagram for ADAS MBORREL4: Updated for NFC MBORREL4: New diagram for ECG Centric change MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-429921 MBORREL4: Added REQ-429921
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Reset+ EMR-ACT-REQ-275659/F- Embedded Modem Master Reset EMRv2-ACT-REQ-480538/A- Embedded Modem Master Reset v2 EMR-SD-REQ-275660/E- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRV2-SD-REQ-480539/A- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ MBORREL4: Updated for NFC MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-429921 MBORREL4: Added REQ-429921
EMR-ACT-REQ-275659/F- Embedded Modem Master Reset EMRv2-ACT-REQ-480538/A- Embedded Modem Master Reset v2 EMR-SD-REQ-275660/E- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ MBORREL4: Updated for NFC MBORREL4: New diagram for ECG Centric change MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-429921 MBORREL4: Added REQ-429921
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Reset EMRv2-ACT-REQ-480538/A- Embedded Modem Master Reset v2 EMR-SD-REQ-275660/E- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ STR-773578/C- Requirements+ MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-429921 MBORREL4: Added REQ-429921
EMRv2-ACT-REQ-480538/A- Embedded Modem Master Reset v2 EMR-SD-REQ-275660/E- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ MBORREL4: New diagram for ECG Centric change MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-429921 MBORREL4: Added REQ-429921
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Reset v2 EMR-SD-REQ-275660/E- Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ MBORREL4: Updated for NFC MBORREL4: Updated for NFC MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-429921 MBORREL4: Added REQ-429921
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Embedded Modem Master Reset+ EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ STR-773578/C- Requirements+ MBORREL4: Updated for NFC MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-410562, REQ-413950-953
EMR-SD-REQ-275660/F- Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ STR-773578/C- Requirements+ MBORREL4: Updated for NFC MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-410562, REQ-413950-953
Embedded Modem Master Reset EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ STR-773578/C- Requirements+ MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-410562, REQ-413950-953
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EMRv2-SD-REQ-480539/A- Embedded Modem Master Reset v2 STR-773578/B- Requirements+ STR-773578/C- Requirements+ MBORREL4: New diagram for ECG Centric change MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-410562, REQ-413950-953 MBORREL4: Added REQ-429921
Embedded Modem Master Reset v2 STR-773578/B- MBORREL4: Added REQ-410562, REQ-413950-953 Requirements+ STR-773578/C- MBORREL4: Added REQ-429921 Requirements+ Requirements Requireme
Reset v2 MBORREL4: Added REQ-410562, REQ-413950-953 Requirements+ MBORREL4: Added REQ-429921 STR-773578/C-Requirements+ MBORREL4: Added REQ-429921
STR-773578/B- MBORREL4: Added REQ-410562, REQ-413950-953 Requirements+ STR-773578/C- Requirements+ MBORREL4: Added REQ-429921
Requirements+ STR-773578/C- Requirements+ MBORREL4: Added REQ-429921
STR-773578/C- MBORREL4: Added REQ-429921 Requirements+
Requirements+
STR-773578/D- MBORREL4: Added REQ-443197
Requirements+
STR-773578/E-Requirements MBORREL4: Added REQ-480237, REQ-482677-679
EMR-REQ-392684/B-Remote MBORREL4: Added ADAS Reset content
Reset – Preconditions+
EMR-REQ-392684/C-Remote MBORREL4: Updated to include ECU Ready Check
,
Reset – Preconditions



EMR-REQ-482678/A-Remote	MBORREL4: Req. to match implementation
Reset - InterfaceClient Send	
Ready State	
EMR-REQ-482679/A-Remote	MBORREL4: Req. to match implementation
Reset - OnBoardClient Send Ready State	
EMR-REQ-392685/B-Remote	MBORREL4: Updated reg.
Reset – FactoryReset_Rq	MBONNEL4. Opualed req.
EMR-REQ-392686/B-Remote	MBORREL4: Corrected spelling
Reset – SMS Wakeup	
EMR-REQ-392687/B-Remote	MBORREL4: Removed "Not Applicable" as no status shall be given for not-
Reset – Client/Server	present ecus. Added ADAS Reset bullet
Applicability Check+	
EMR-REQ-392687/C-Remote	MBORREL4: Added NFC content
Reset – Client/Server Applicability Check+	
EMR-REQ-392687/D-Remote	MBORREL4: Updated req.
Reset – Client/Server	MBONNEL4. Opualed req.
Applicability Check	
EMR-REQ-392688/B-Remote	MBORREL4: Added Remote ADAS Reset
Reset -	
RemoteResetCommand/Resp	
onse	MDODDELA, Added the ADL cell for ADAO Decel
EMR-REQ-392689/B-Remote Master Reset - Preconditions	MBORREL4: Added the API call for ADAS Reset
Met+	
EMR-REQ-392689/C-Remote	MBORREL4: Added NFC content
Master Reset - Preconditions	
Met+	
EMR-REQ-392689/D-Remote	MBORREL4: Updated req.
Master Reset - Preconditions	
Met	MOODELAALLINEO
EMR-REQ-392690/B-Remote Brand Connect Reset -	MBORREL4: Added NFC content
Preconditions Met	
EMR-REQ-413950/A-Remote	MBORREL4: New reg.
ADAS Reset - Preconditions	
Met	
EMR-REQ-392693/B-Remote	MBORREL4: Updated to clarify ECU success/fail status. Updated title. Added
Reset - RemoteResetAlert	ADAS Reset
Success/Fail Status+ EMR-REQ-392693/C-Remote	MBORREL4: Added NFC content
Reset - RemoteResetAlert	MBORREL4. Added NFC content
Success/Fail Status	
EMR-REQ-410562/A-Remote	MBORREL4: New req.
Reset - ECU ID+	
EMR-REQ-410562/B-Remote	MBORREL4: Added NFC content
Reset - ECU ID	
Reset - ECU ID EMR-REQ-392695/B-Remote	MBORREL4: Added NFC content MBORREL4: Update API to match implementation
Reset - ECU ID EMR-REQ-392695/B-Remote Reset –	
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa	
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status	MBORREL4: Update API to match implementation
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa	
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote	MBORREL4: Update API to match implementation
Reset - ECU ID EMR-REQ-392695/B-Remote Reset — EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset — EmbeddedModemResetAdas Server Reset Status	MBORREL4: Update API to match implementation MBORREL4: New req.
Reset - ECU ID EMR-REQ-392695/B-Remote Reset — EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset — EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote	MBORREL4: Update API to match implementation
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset -	MBORREL4: Update API to match implementation MBORREL4: New req.
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS	MBORREL4: Update API to match implementation MBORREL4: New req.
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS erver Reset Status	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote	MBORREL4: Update API to match implementation MBORREL4: New req.
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote Reset - InterfaceClient	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC
Reset - ECU ID EMR-REQ-392695/B-Remote Reset — EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset — EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset — EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote Reset — InterfaceClient Response EMR-REQ-443197/A-Remote Reset - InterfaceClient	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC MBORREL4: Update API to match implementation
Reset - ECU ID EMR-REQ-392695/B-Remote Reset — EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset — EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset — EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote Reset — InterfaceClient Response EMR-REQ-443197/A-Remote Reset - InterfaceClient Performing a Reset+	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC MBORREL4: Update API to match implementation MBORREL4: New req. clarifying SYNC/PDC action for Remote Reset (clarification)
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote Reset - InterfaceClient Response EMR-REQ-443197/A-Remote Reset - InterfaceClient Performing a Reset+ EMR-REQ-443197/B-Remote	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC MBORREL4: Update API to match implementation MBORREL4: New req. clarifying SYNC/PDC action for Remote Reset
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote Reset - InterfaceClient Response EMR-REQ-443197/A-Remote Reset - InterfaceClient Performing a Reset+ EMR-REQ-443197/B-Remote Reset - InterfaceClient	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC MBORREL4: Update API to match implementation MBORREL4: New req. clarifying SYNC/PDC action for Remote Reset (clarification)
Reset - ECU ID EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfa ceClient Reset Status EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdas Server Reset Status EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCS erver Reset Status EMR-REQ-392701/B-Remote Reset - InterfaceClient Response EMR-REQ-443197/A-Remote Reset - InterfaceClient Performing a Reset+ EMR-REQ-443197/B-Remote	MBORREL4: Update API to match implementation MBORREL4: New req. MBORREL4: New req. for NFC MBORREL4: Update API to match implementation MBORREL4: New req. clarifying SYNC/PDC action for Remote Reset (clarification)



EMR-REQ-480237/A-Remote	MBORREL4: New req.
Reset - InterfaceClient	
Performing a Master Reset	
EMR-REQ-413952/A-Remote	MBORREL4: New req.
Reset – EmbeddedModemResetAdas	
Server Response	
EMR-REQ-275650/E-Cleared	MBORREL4: Added additional impacted features to list. Added
Data+	EmbeddedModemResetAdasServer
EMR-REQ-275650/F-Cleared	MBORREI 4: Added NFC
Data+	
EMR-REQ-275650/G-Cleared	MBORREL4: Updated req. reference
Data	
EMR-REQ-392702/B-Remote	MBORREL4: Added EmbeddedModemResetAdasServer
Master Reset - Completion	
Time	
EMR-REQ-275656/C-Buffered	MBORREL4: Updated req. reference
AVD Data	MEGDELLAN
EMR-REQ-413953/A-	MBORREL4: New req.
EmbeddedModemResetAdas Server – Publish Settings	
STR-773577/B-Use Cases	MBORREL4: Added REQ-413956
EMR-UC-REQ-392703/B-	MBORREL4: Corrected typo
Remote Master Reset is requested	
EMR-UC-REQ-392705/B-	MBORREL4: Corrected typo
Remote SYNC Reset is	MIDORINELA. Confeded typo
requested	
EMR-UC-REQ-413956/A-	MBORREL4: New req.
Remote ADAS Reset is	
requested	
EMR-ACT-REQ-393389/B-	MBORREL4: Updated diagram for ADAS
Remote Reset Requested+	
EMR-ACT-REQ-393389/C-	MBORREL4: Updated for NFC
Remote Reset Requested	
EMR-SD-REQ-393390/B-	MBORREL4: Updated diagram for ADAS
Remote Reset Requested+	MDODDEL 4: Undeted for NEO
EMR-SD-REQ-393390/C-	MBORREL4: Updated for NFC
Remote Reset Requested+ EMR-SD-REQ-393390/D-	MBORREL4: Updated setSyncResetConfirm API
Remote Reset Requested	WIDOTTILET. Opuated setoyrichesetourillii AFT
EMR-REQ-275662/C-VIN	MBORREL4: Added NFC content
Removal - Multiple vs Last	The second secon
User	
EMR-REQ-275663/F-VIN	MBORREL4: Added NFC content
Removal - Clear User Settings	
Command/Response	
EMR-REQ-275650/E-Cleared	MBORREL4: Added additional impacted features to list. Added
Data+	EmbeddedModemResetAdasServer
EMR-REQ-275650/F-Cleared	MBORREL4: Added NFC
Data+	MPORRELATION
EMR-REQ-275650/G-Cleared	MBORREL4: Updated req. reference
Data	MPODDEL 4: Undeted reg. reference
EMR-REQ-275656/C-Buffered	MBORREL4: Updated req. reference
AVD Data EMR-ACT-REQ-275667/D-	MBORREL4: Updated for NFC
Removal Of VIN From	WIDOTALE4. Opuated for Nr C
Account	
EMR-SD-REQ-275668/D-	MBORREL4: Updated for NFC
Removal Of VIN From	
Account	
STR-457467/C-Requirements	MBORREL4: Added REQ-480077, REQ-480078, REQ-480079, REQ-479701,
	REQ-480317, REQ-480318, REQ-480319
EMR-REQ-480077/A-Wifi	MBORREL4: New req.
Hotspot Embedded Modem	
Reset - Preconditions	MDODDELAN (DDC
EMR-REQ-480318/A-Wifi	MBORREL4: New req. for PDC
Hotspot Embedded Modem Reset - InterfaceClient	
notifying	
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EmbeddedModemResetServe r	
EMR-REQ-281489/C-Wifi Hotspot Embedded Modem Reset - Server Request	MBORREL4: Updated req.
EMRv2-REQ-480078/A-Wifi Hotspot Embedded Modem Reset - Server Request v2	MBORREL4: New req.
EMR-REQ-275671/B-Wifi Hotspot Embedded Modem Reset - Server Response	MBORREL4: Updated req.
Hotspot Embedded Modem Reset - Reset Progress Broadcast	MBORREL4: New req.
EMR-REQ-275647/C-Master & Embedded Modem Reset - Request Handling	MBORREL4: Updated req.
EMRv2-HMI-REQ-480317/A- Wifi Hotspot Embedded Modem Reset - User Input Enable/Disable v2	MBORREL4: New req. for PDC
EMR-REQ-480319/A-Wifi Hotspot Embedded Modem Reset - Progress Indication	MBORREL4: New req. for PDC
EMR-REQ-275654/B-Master & Embedded Modem Reset - Completion Time	MBORREL4: Updated req.
EMRv2-REQ-479701/A- Master & Embedded Modem Reset - Completion Time v2	MBORREL4: New req.
STR-457469/B-White Box View	MBORREL4: Added REQ-480557, REQ-480558
EMRv2-ACT-REQ-480557/A- Wifi Hotspot Embedded Modem Reset v2	MBORREL4: New diagram for ECG centric change
EMRv2-SD-REQ-480558/A- Wifi Hotspot Embedded Modem Reset v2	MBORREL4: New diagram for ECG centric change
STR-457477/C-Requirements	MBORREL4: Added REQ-480097, REQ-480098, REQ-480099, REQ-480337, REQ-480338, REQ-480339, REQ-480340, REQ-480341
EMR-REQ-480097/A-PaaK Embedded Modem Reset - Preconditions	MBORREL4: New req.
EMR-REQ-480338/A-PaaK Embedded Modem Reset - InterfaceClient notifying EmbeddedModemResetServe r	MBORREL4: New req. for PDC
EMR-REQ-281570/C-PaaK Embedded Modem Reset - Server Request	MBORREL4: Updated req.
EMRv2-REQ-480098/A-PaaK Embedded Modem Reset - Server Request v2	MBORREL4: New req.
EMR-REQ-480339/A-PaaK Embedded Modem Reset - InterfaceClient Issuing Reset Request	MBORREL4: New req. for PDC
EMR-REQ-480340/A-PaaK Embedded Modem Reset - InterfaceClient Reset Response	MBORREL4: New req. for PDC
EMR-REQ-275681/B-PaaK Embedded Modem Reset - Server Response	MBORREL4: Updated req.
EMR-REQ-480099/A-PaaK Embedded Modem Reset - Reset Progress Broadcast	MBORREL4: New req.

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EMR-REQ-275647/C-Master	MBORREL4: Updated req.
& Embedded Modem Reset -	
Request Handling	
EMR-REQ-275682/B-PaaK	MBORREL4: Updated req.
Embedded Modem Reset -	
Determine Reset Fail/Success EMRv2-HMI-REQ-480337/A-	MDODDEL 4. Now roa for DDC
PaaK Embedded Modem	MBORREL4: New req. for PDC
Reset - User Input	
Enable/Disable v2	
EMR-REQ-480341/A-PaaK	MBORREL4: New req. for PDC
Embedded Modem Reset -	
Progress Indication	
STR-457479/B-White Box	MBORREL4: Added REQ-480559, REQ-480560
View	
EMRv2-ACT-REQ-480559/A-	MBORREL4: New diagram for ECG centric change
PaaK Embedded Modem	
Reset v2	
EMRv2-SD-REQ-480560/A-	MBORREL4: New diagram for ECG centric change
PaaK Embedded Modem	
Reset v2 STR-489922/C-	MPORDEL 4: Added DEO 420922 DEO 420922
STR-489922/C- Requirements+	MBORREL4: Added REQ-429822, REQ-429823
STR-489922/D-Requirements	MBORREL4: Added REQ-479701, REQ-480117-122, REQ-480357-363, REQ-
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Connect Embedded Modem	
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EMR-REQ-480118/A-Brand	MBORREL4: New req.
Connect Embedded Modem	
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EMR-REQ-480359/A-Brand	MBORREL4: New req. for PDC
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EmbeddedModemResetServe	
r EMR-REQ-480360/A-Brand	MDODDEL 4. Now roa for DDC
Connect Embedded Modem	MBORREL4: New req. for PDC
Reset2 - InterfaceClient	
notifying	
EmbeddedModemResetServe	
r	
EMR-REQ-290272/D-Brand	MBORREL4: Updated for NFC
Connect Embedded Modem	
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EMR-REQ-290272/E-Brand	MBORREL4: Updated req.
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EMRv2-REQ-480119/A-Brand	MBORREL4: New req.
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Broadcast	MOODEL 4 M
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Connect Embedded Modem	
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Connect Embedded Modem	NIDOMMELA. NEW IEY. IOI FDO
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Connect Embedded Modem	
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Connect Embedded Modem	MBORREL4. Opualed req.
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EMR-REQ-281278/D-	MBORREL4: Corrected typo (no req. change), updated title
Embedded Modem Reset -	
OnBoardClient Response	
EMR-REQ-429822/A- Embedded Modem Reset -	MBORREL4: New req. for NFC
EmbeddedModemResetNFCS	
erver Response	
EMR-REQ-481657/A-Brand	MBORREL4: Req. to capture existing implementation
Connect Embedded Modem	
Reset -	
EmbeddedModemResetServe	
r Reset Status EMR-REQ-481658/A-Brand	MBORREL4: Req. to capture existing implementation
Connect Embedded Modem	MBONNEL4. Ned. to capture existing implementation
Reset -	
EmbeddedModemResetInterfa	
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Reset -	
EmbeddedModemResetOnBo	
ardClient Reset Status	
EMR-REQ-481660/A-Brand	MBORREL4: Req. to capture existing implementation
Connect Embedded Modem	
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EmbeddedModemResetPnCS erver Reset Status	
EMR-REQ-481661/A-Brand	MBORREL4: Req. to capture existing implementation
Connect Embedded Modem	minor in a company of the company in providing in providi
Reset -	
EmbeddedModemResetNFCS	
erver Reset Status EMR-REQ-275647/C-Master	MPORDEL 4: Undeted rea
& Embedded Modem Reset -	MBORREL4: Updated req.
Request Handling	
EMR-REQ-429823/A-	MBORREL4: New req. for NFC
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EMR-REQ-290258/D-Brand Connect Embedded Modem	MBORREL4: Updated req. references and removed classes
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EMR-HMI-REQ-290260/D-	MBORREL4: Updated first line to remove HMI actions/examples
Brand Connect Embedded	,
Modem Reset - User Input	
Enable/Disable	MDODDEL 4. Novered for DDC
EMR-REQ-480357/A-Brand Connect Embedded Modem	MBORREL4: New req. for PDC
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Connect Embedded Modem	
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EMRv2-REQ-479701/A-	MBORREL4: New req.
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EMR-REQ-275656/C-Buffered	MBORREL4: Updated req. reference
AVD Data	MDODDEL 4. Undeted description
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EMR-ACT-REQ-290266/E-	MBORREL4: Updated for NFC
Brand Connect Embedded	NIBORREL4. Opualed for NI C
Modem Reset	
EMRv2-ACT-REQ-480577/A-	MBORREL4: New diagram for ECG centric change
Brand Connect Embedded	MIDORINELA. New diagram for Eoo certific change
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Brand Connect Embedded	
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EMRv2-SD-REQ-480578/A-	MBORREL4: New diagram for ECG centric change
Brand Connect Embedded	
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STR-718666/B-Use Cases	MBORREL4: Added REQ-443217, REQ-443218
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Reset Control Disabled	
EMR-UC-REQ-443217/A-User	MBORREL4: New req. for PDC
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DEACTIVATERESET	
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EMR-REQ-375837/B-Reset	MBORREL4: Added Factory Reset (new for PDC)
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1 Overview

This specification captures all existing Master Reset functionality as it pertains to the Embedded Modem and its features for the FNV2 architecture. It includes additional requirements, usecases, and diagrams to completely detail the expected behavior when a Master Reset is performed by either the HMI system or the NGSDN.

This specification also provides new functionality that allows a user to perform a reset for a select number of Embedded Modem features.



2 Architectural Design

2.1 EMRv2-CLD-REQ-275640/B-Embedded Modem Reset Server

The Embedded Modem Reset Server is responsible for the tasks listed below:

- Receive reset requests from Embedded Modem Reset InterfaceClient
- Receive FTCP commands from Embedded Modem Reset OffBoardClient
- Perform Embedded Modem Reset feature functionality to eliminate all applicable user data and/or restore factory defaults.
- Call all Master Reset and Embedded Modem Reset APIs from all applicable Clients/Servers.
- Transmit Embedded Modem Reset response/status back to the Embedded Modem Reset InterfaceClient
- Transmit Embedded Modem Reset FTCP command responses back to the Embedded Modem Reset OffBoardClient.

Please review the implementation guide/ block diagram to locate the Embedded Modern Reset Server class

2.2 EMR-CLD-REQ-275702/A-Embedded Modem Reset InterfaceClient

The Embedded Modem Reset InterfaceClient is responsible for the tasks listed below.

- Receiving user input and confirmation of a Master Reset request
- Receiving user input and confirmation of an Embedded Modem Reset request
- Transmit Master Reset request to the Embedded Modem Reset Server, as well as any Infotainment Master Reset Servers/Clients requiring it
- Transmit Embedded Modem Reset request to the Embedded Modem Reset Server
- Displaying information regarding reset success, failure, and ongoing status.

Please review the implementation guide/ block diagram to locate the Embedded Modem Reset InterfaceClient class

2.3 EMRv2-CLD-REQ-275696/A-Embedded Modem Reset OnBoardClient

The Embedded Modern Reset OnBoardClient is responsible for the tasks listed below:

- Receive reset request API from Embedded Modem Reset Server
- Receive FTCP commands from Embedded Modem Reset Server
- Perform Embedded Modem Reset feature functionality to eliminate all applicable user data and/or restore factory defaults.
- Transmit Embedded Modem Reset response API back to the Embedded Modem Reset Server.

Please review the implementation guide/ block diagram to locate the Embedded Modem Reset OnBoardClient class

2.4 EMR-CLD-REQ-246272/A-Embedded Modem Reset OffBoardClient

The Embedded Modem Reset OffBoardClient is responsible for the tasks listed below.

- Transmit FTCP commands to Embedded Modem Reset Server
- Perform Embedded Modem Reset feature functionality to eliminate all applicable user data and/or restore factory defaults.
- Receive Embedded Modem Reset FTCP command responses from the Embedded Modem Reset Server.

Please review the implementation guide/ block diagram to locate the Embedded Modem Reset OffBoardClient class

2.5 EMRv2-CLD-REQ-275641/B-Embedded Modem Reset Key Server

The Embedded Modem Reset Key Server is responsible for the tasks listed below:

- Receive reset request from Embedded Modem Reset Interface Client
- Perform Embedded Modem Reset feature functionality to revoke all created keys, eliminate all applicable user data, and/or restore factory defaults.
- Transmit Revoked Key status back to the Embedded Modem Reset Server.



Please review the implementation guide/ block diagram to locate the Embedded Modem Reset Key Server class

2.6 EMR-CLD-REQ-275695/B-Embedded Modem Reset EV Server

The Embedded Modem Reset EVServer is responsible for the tasks listed below:

- Receive reset request from Embedded Modem Reset Interface Client
- Perform Embedded Modem Reset feature functionality to eliminate all applicable user data and/or restore factory defaults.

Please review the implementation guide/ block diagram to locate the Embedded Modem Reset EVServer class.

2.7 EMR-CLD-REQ-392647/A-Embedded Modem Reset PnC Server

The Embedded Modem Reset PnC Server is responsible for the tasks listed below:

- Receive reset request from Embedded Modem Reset Server
- Perform Embedded Modem Reset feature functionality to eliminate all applicable user data and/or restore factory defaults.

Please review the implementation guide/ block diagram to locate the Embedded Modem Reset PnC Server class.

2.8 EMR-CLD-REQ-413948/A-Embedded Modem Reset ADAS Server

The Embedded Modem Reset ADAS Server is responsible for the tasks listed below:

- Receive reset request from Embedded Modem Reset Server
- Perform Embedded Modem Reset feature functionality to eliminate all applicable user data and/or restore factory defaults.

Please review the implementation guide/ block diagram to locate the Embedded Modem Reset ADAS Server class.

2.9 EMR-CLD-REQ-429817/A-Embedded Modem Reset NFC Server

The Embedded Modem Reset NFC Server is responsible for the tasks listed below:

- · Receive reset request from Embedded Modem Reset Server
- Perform Embedded Modem Reset feature functionality to eliminate all applicable user data and/or restore factory defaults.

Please review the implementation guide/ block diagram to locate the Embedded Modem Reset NFC Server class.

2.10 Physical Mapping of Classes

The table below shows an example of how the logical classes that make up the Embedded Modem Reset feature can be mapped into physical modules. This mapping is an FNV2 example only and does not necessarily carryover to other carlines or vehicle architectures.

Logical Class	Physical Module (ECU)
EmbeddedModemResetServer	ECG
EmbeddedModemResetInterfaceClient	SYNC, PDC
EmbeddedModemResetOnBoardClient	TCU
EmbeddedModemResetOffBoardClient	NGSDN
EmbeddedModemResetKeyServer	BLEM
EmbeddedModemResetEVServer	HPCM
EmbeddedModemResetPnCServer	OBCC
EmbeddedModemResetAdasServer	ADAS
EmbeddedModemResetNFCServer	NFAM

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2.11 EmbeddedModemResetInterfaceClient Interface

2.11.1 EMR-IIR-REQ-275697/D-EmbeddedModemResetInterfaceClientInterface Tx

The EmbeddedModemResetInterfaceClientInterface_Tx represents all the Embedded Modem Reset feature related signals sent by the EmbeddedModemResetInterfaceClient object. The below table represents the mapping of the logical signal names (as described in this specification) to the global GSDB signal names.

Logical Signal Name	Parameter Name	GSDB Signal Name
FactoryReset_Rq	Туре	FactoryReset_Rq
EmbeddedModemReset_Rq	Туре	ModemReset_D_Rq

Note: GSDB signal names are reference only. The Global Signal Database (GSDB) is the master for all signals. If there is a conflict, bring to the module D&R's attention.

2.11.1.1 MD-REQ-213361/C-FactoryReset_Rq

Message Type: Request

Signal sent by the Master Reset Client to initiate a Master Reset

Logical Signal Name	Literals	Value	Description
FactoryReset_Rq	Inactive	0x0	
	ResetFactoryDefaults	0x1	

2.11.1.2 MD-REQ-246273/C-EmbeddedModemReset_Rq

Message Type: Request

This signal is used to perform a factory reset for the specified Embedded Modem feature.

Name	Literals	Value	Description
Туре	-	-	Embedded Modem feature to
			be reset to factory defaults.
	Null	0x0	
	WifiHotspot_Reset	0x1	
	PaaK_Reset	0x2	
	OnlineTraffic_Reset	0x3	
	CCS_Reset	0x4	
	BrandConnect_Reset1	0x5	
	BrandConnect_Reset2	0x6	
	Reserved	0x7 – 0xF	

2.11.1.3 MD-REQ-374137/A-setResetControl

This API is used to request a change of the Reset Control on the EmbeddedModemResetInterfaceClient. The EmbeddedModemResetInterfaceClient also uses this API for its response.

	Method Type	One-Shot ((Synch)			
	QoS Level	Default				
	Retained	No				
R/O	Name		Туре	Literals	Value	Description
140	Haine		. , , , ,		raido	2000p.::01:

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Requ	Request				
R	ResetControlStatus	Enum	-	-	
			ActivateReset	0x00	Reset buttons are activated (operate per normal use)
			DeactivateReset	0x01	Reset buttons are deactivated
Resp	onse				
R	ResetControlResponse	Enum	-	-	
			Activated	0x00	
			Deactivated	0x01	

2.11.1.4 MD-REQ-374138/A-getResetControlStatus

This API is used to request the Reset Control status from the EmbeddedModemResetServer.

	Method Type	One-Shot (Synch	າ)		
	QoS Level	Default	,		
	Retained	No			
R/O	Name	Туре	Literals	Value	Description
Requ	est	·		·	
-	-	-	-	-	N/A
Resp	onse				
R	ResetControlSta	atus Enum	-	-	
			ActivateReset	0x00	Reset buttons are activated (operate per normal use)
			DeactivateReset	0x01	Reset buttons are deactivated

2.11.1.5 MD-REQ-374140/A-setRCUserSelection

This API is used to notify EmbeddedModemResetServer that the user has selected/requested a reset while Reset Control was deactivated on the EmbeddedModemResetInterfaceClient. No response is sent from the EmbeddedModemResetServer.

	Method Type	Fire-an	d-forget			
	QoS Level	Default	t			
	Retained	No				
R/O	Name		Туре	Literals	Value	Description
Requ	est					
R	UserSelection		Enum	-	-	N/A
				MasterReset	0x0	User requested a Master
						Reset while Reset is
						deactivated
				BrandConnectReset	0x1	User requested a Brand
						Connect Reset while
						Reset is deactivated

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2.11.1.6 MD-REQ-479639/A-setSyncResetConfirm

This API is used to confirm the reset request from EmbeddedModemResetServer.

ı	Method Type	One-Sho	ot (A-Synd	h)		
	QoS Level	Default				
	Retained	No				
R/O I	Name		Type	Literals	Value	Description

R/O	Name	Туре	Literals	Value	Description
Reque	est				
-	-	-	-	-	N/A
Respo	nse				
R	ConfirmStatus	Enum	-	-	Used to indicate the success or failure of the reset
			Success	0x0	
			Fail	0x1	
R	DebugTokenStatus	Enum	-	-	Debug token status
			No_Debug_Token_Present	0x0	
			Debug_Token_Removed	0x1	
			Debug_Token_Not_Removed	0x2	

2.11.1.7 MD-REQ-479657/A-resetRequestBroadcast

This API is used to notify the EmbeddedModemResetServer of a reset request.

Method Type	Fire&Forget
QoS Level	Default
Retained	No

R/O	Name	Туре	Literals	Value	Description
Reque	est				
-	-	-	-	-	N/A
Respo	onse				
R	ResetRequest	Enum	-	-	Used to indicate the type
					of reset request
			Super Reset	0x0	
			Brand Connect Reset1	0x1	
			Brand Connect Reset2	0x2	
			Factory Reset	0x3	
			Wifi Hotspot Reset	0x4	
			PaaK Reset	0x5	
			Cluster Reset	0x6	
			SYNC Reset	0x7	
			NotUsed	0x8	
			NotUsed	0x9	

2.11.1.8 MD-REQ-479658/A-getResetAvailability

This API is used to request the EmbeddedModemResetServer to publish resetAvailabilityBroadcast.

Method Type	Fire&Forget
QoS Level	Default

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	Retained No					
R/O	Name	Туре	Literals	Value	Description	
Reque	Request					
-	-	-	-	-	N/A	
Respo	Response					
-	-	-	-	-	N/A	

2.11.1.9 MD-REQ-482638/A-setEcuReadyState

This API is used to communicate an ECU's ready state to the EmbeddedModemResetServer.

	W 4 17 10 0 4 (0 1)						
	Method Type	One-Shot (A-Syn	One-Shot (A-Synch)				
	QoS Level	Default					
	Retained	No					
R/O	Name	Туре	Literals	Value	Description		
Reque	est						
-	-	-	-	-	N/A		
Respo	onse						
R	ecuType	Enum	-	-	Used to indicate the module		
			TCU	0x0			
			SYNC	0x1			
			ADAS	0x2			
R	ecuReady	Bool	-	0/1	Used to indicate ready status		
					0-NotReady		
					1-Ready		

2.11.2 EMR-IIR-REQ-275698/D-EmbeddedModemResetInterfaceClientInterface_Rx

The EmbeddedModemResetInterfaceClientInterface_Rx represents all the Embedded Modem Reset feature related signals received by the EmbeddedModemResetInterfaceClient object. The below table represents the mapping of the logical signal names (as described in this specification) to the global GSDB signal names.

Logical Signal Name	Parameter Name	GSDB Signal Name
FactoryReset_St	Туре	FactoryReset_ St
EmbeddedModemReset_St	Туре	ModemReset_D_Stat
TCUAvailability_St	Туре	WifiEnbl_D_Stat
PaakESN_St	ProvDID	See TP SPSS
IgnKeyType_D_ActI	-	IgnKeyType_D_ActI

Note: GSDB signal names are reference only. The Global Signal Database (GSDB) is the master for all signals. If there is a conflict, bring to the module D&R's attention.

2.11.2.1 MD-REQ-222036/C-FactoryReset.St

Message Type: Status

Signal sent by the Master Reset components (ex AHU) indicating that the master reset default settings were restored for a master reset event

Logical Signal Name Literals		Value	Description
FactoryReset.St Inactive		0x0	
	FactoryDefaultsRestored	0x1	

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	Reserved	0x2	
	Reserved	0x3	

2.11.2.2 MD-REQ-246274/B-EmbeddedModemReset_St

Message Type: Status

This signal is used to indicate the status of the factory reset performed for the specified Embedded Modem feature.

Name	Literals	Value	Description
Туре	-	-	Embedded Modem feature
			factory reset status.
	Null	0x0	
	Reset_NotComplete	0x1	
	PaaKReset_Complete	0x2	
	OnlineTrafficReset_Complete	0x3	
	CCSReset_Complete	0x4	
	WifiHotspotReset_Complete	0x5	
	Reserved	0x6-0xF	

2.11.2.3 MD-REQ-179305/B-TCUAvailability_St

Message Type: Status

This signal is used to inform the WifiHotSpotOnBoardClient the current state of the Wi-Fi Hotspot feature

Name	Literals	Value	Description
Type	-	-	Wi-Fi feature readiness status
	Null	0x0	
	Disable	0x1	
	Enable	0x2	

2.11.2.4 MD-REQ-241972/L-PaakESN St

Message Type: Status

"PaakESN_St" is a TP CAN signal used to indicate the provisioning state, ESN and BPEK (One way hashed) "PasKESN_St" contains the BLEMProvDID (Actual name in GMRDB "Bluetooth Low Energy Module (BLEM) Provisioning Status") and ProvOnBoardClient4's metadata. It shall include: "TP header" + "SyncP Header" + Payload as shown on requirement PMPR-REQ-331617.

PaakESN St" is a periodic TP message that will be transmitted through CAN from ProvOnBoardClient4 to ProvServer.

The table below denotes the data that is required in the PaakESN_St TP message for the ProvOnBoardClient4.

Peripheral ECU	Transport Protocol Message	FTCP Logic
BLEM	PaakESN_ST	BLEMProvisioningAlert

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BLEMProvDID (aka BLEM Provisioning Status) represents the Provisioning State of ProvOnBoardClient4 within itself and stored in ECU memory (DID 0xA01C). Please refer to requirement PMPR-REQ-354871 for further details.

Name	Literals	Value	Description
BLEMProvDID	-	-	Describes the current state Provisioning
	FactoryMode	0x50	BLEM is not Configured
	Unprovisioned	0x51	BLEM Configured, but either Self-Test, Target ID and/or CAN
			node notification is not complete – refer to BLEM and/or BUN
			SPSS for details
	BLEMProvAlertACK	0x52	Once target ID and self-test is completed, BLEM is waiting for
			Provisioning Alert Ack from PaakOnBoardClient
	ReadyForKeyDelivery	0x53	BLEM is Provisioned and ready for Key Delivery
	KeyDelivered	0x54	Key(s) are delivered to BLEM
BLEMSyncPP	-	-	BLEM SyncP Signed (BLEM ESN). BLEM ESN will be in the
acket			header of SyncP Signed message. SyncP Payload information
			found in PaaK-REQ-281398-Provisioning SyncP Payload. Max.
			1000 bytes.

2.11.2.5 MD-REQ-238455/A-IgnKeyType_D_Actl

Message Type: Status

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

Name Literals		Value	Description
IgnKeyType_D_ActI	ctl -		Type of key that is in the ignition
	KeyReadInProgress	0x0	Key(s) will be read now
	KeylnIgnStandardKey	0x1	Admin (full) mode
	KeylnIgnMyKey	0x2	MyKey restricted mode
	Key_Not_Prgrm_Read_Failure	0x3	Key not programmed
	Unknown	0xE	Disable MyKey System mode
	Invalid	0xF	Initial value

2.11.2.6 MD-REQ-374137/A-setResetControl

This API is used to request a change of the Reset Control on the EmbeddedModemResetInterfaceClient. The EmbeddedModemResetInterfaceClient also uses this API for its response.

	Method Type	One-Shot	(Synch)			
	QoS Level					
	Retained	No				
R/O	Name		Туре	Literals	Value	Description
Request						
R	ResetControlSta	atus	Enum	-	-	
				ActivateReset	0x00	Reset buttons are activated (operate per normal use)

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			DeactivateReset	0x01	Reset buttons are deactivated
Resp	onse				
R	ResetControlResponse	Enum	-	-	
			Activated	0x00	
			Deactivated	0x01	

2.11.2.7 MD-REQ-374138/A-getResetControlStatus

This API is used to request the Reset Control status from the EmbeddedModemResetServer.

	Method Type	One-Shot (Sync	One-Shot (Synch)					
	QoS Level	Default						
	Retained	No						
R/O	Name	Туре	Literals	Value	Description			
Requ	iest	<u> </u>						
-	-	-	-	-	N/A			
Resp	onse	·						
R	ResetControlSta	atus Enum	-	-				
			ActivateReset	0x00	Reset buttons are activated (operate per normal use)			
			DeactivateReset	0x01	Reset buttons are deactivated			

2.11.2.8 MD-REQ-392660/B-setSyncReset

This API is used to request a Reset of the EmbeddedModemResetInterfaceClient.

	Method Type	One-S	hot (A-Syr	nch)		
	QoS Level	vel Default				
	Retained	No				
R/O	Name		Туре	Literals	Value	Description
Reque	est					
R	ResetService		Enum	-	-	Used to indicate the reset request type
				Master Reset	0x0	
				SYNC Reset	0x1	
				Brand Connect Reset1	0x2	
				Brand Connect Reset2	0x3	
				WifiHotspot Reset	0x4	
				PaaK Reset	0x5	
				Factory Reset	0x6	
				NotUsed	0x7	
				NotUsed	0x8	
				NotUsed	0x9	
Respo	Response					
-	-		-	-	-	N/A

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2.11.2.9 MD-REQ-479637/A-resetProgressBroadcast

This API is used to broadcast the status of the indicated reset.

	Method Type Fire&Forget QoS Level Default				
Retained No					
R/O	Name	Туре	Literals	Value	Description
Reque	est				
-	-	-	-	-	N/A
Respo	onse				
R	ResetType	Enum	-	-	Used to indicate the type of reset being performed
			Super Reset	0x0	
			Brand Connect Reset1	0x1	
			Brand Connect Reset2	0x2	
			Factory Reset	0x3	
			Wifi Hotspot Reset	0x4	
			PaaK Reset	0x5	
			Cluster Reset	0x6	
			SYNC Reset	0x7	
			NotUsed	0x8	
			NotUsed	0x9	
R	ResetStatus	Enum	-	-	Progress of indicated reset
			None	0x0	
			In Progress	0x1	
			Complete - Fail	0x2	
			Complete - Success	0x3	

2.11.2.10 MD-REQ-479638/A-resetAvailabilityBroadcast

This API is used to broadcast the availability status of the different reset options.

Method Type		Fire & Forget							
QoS	Level	Default	Default						
Retai	ned	No							
R/O	Name		Туре	Literals	Value	Description			
Requ	est				•				
-	-		-	-	-	N/A			
Resp	onse								
Rep	ResetAvaila	setAvailabilityState		-	-	Repeated Setting data			
			IState			for each Reset Type			
		ResetType	Enum	-	-	Used to indicate the			
						type of Reset being			
Б	resetAvail					communicated			
R	State			SuperReset	0x0				
				BrandConnectReset1	0x1				
				BrandConnectReset2	0x2				

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		,		1	
			FactoryReset	0x3	
			WifiHotSpotReset	0x4	
			PaaKReset	0x5	
			ClusterReset	0x6	
			SYNCReset	0x7	
-	EnableState	Enum	-	-	Used to indicate the
					availability of the Reset
			Not_Available	0x0	
-			Disable	0x1	
			Enable	0x2	
	NotAvailReason	Enum	-	-	Used to indicate reason
					why the Reset is
					disabled
			Not in Park	0x0	
-			Not in Run	0x1	
			Speed Exceeded	0x2	
-			User Key Started	0x3	
			Vehicle		
-			MyKey Started Vehicle	0x4	
			Modem not available	0x5	
			No PaaK Created	0x6	

2.11.2.11 MD-REQ-482637/A-ecuReadyStateBroadcast

This API is used to request the ready state of various ECU's.

	Method Type	Fire&Forge	et				
	QoS Level	Default					
	Retained	No					
R/O	Name	Ty	ype	Literals	Value	Description	
Reque	Request						
-	-	-		-	-	N/A	
Respo	Response						
-	-	-		-	-	N/A	



3 General Requirements

3.1 EMR-REQ-275655/A-Master & Embedded Modem Reset - Inactive/Null

The request and status signals used for Embedded Modem Reset shall revert to their respective "Inactive" or "Null" encodings 1 second after being sent (refer to all sequence diagrams).

<u>Note</u>: The receiving server or client shall act on the initial request/status signal, and not the subsequent "Inactive" or "Null" encodings.

3.2 EMR-REQ-290481/A-FTCP Specification References

The following FTCP specifications define the FTCP alerts/commands mentioned in this SPSS, as well as the protocol used to transmit them via the EmbeddedModemResetServer:

- Ford Telematics Communication Protocol Specification
- FNV2-FCI Protocol SPSS

3.3 EMR-REQ-374132/A-Master & Embedded Modem Reset - MyKey Restriction

The Embedded Modem Feature Reset user interfaces (button/graphic) and submenu shall be MyKey restricted based on the following:

- When IgnKeyType D Actl = "(0x2) Key_In_Ign_MyKey" the above shall be restricted
 - If a feature reset is pressed, the EmbeddedModemResetInterfaceClient shall not send EmbeddedModemReset_Rq, but shall instead show a popup indicating the MyKey Restriction.
 - If the submenu is open/visible at the time this condition is made true, the EmbeddedModemResetInterfaceClient shall take the user to the previous menu (or parent menu)
- When IgnKeyType_D_Actl != "(0x2) Key_In_Ign_MyKey" the above shall not be restricted

If IgnKeyType_D_Actl is not on the bus when ignition does not equal Run (ex Acc, Delay Acc, extended play), the EmbeddedModemResetInterfaceClient shall assume the last signal state received.

MyKey shall take precedence over Reset Control in regards to restrictions and HMI prompts.

3.4 EMR-REQ-381350/B-Non-Connected Market Operation - EmbeddedModemResetServer

The EmbeddedModemResetServer shall use the TCU_Presence DID and Vehicle_Market_Config DID to determine whether the vehicle is in a Non-Connected Market, and therefore apply the requirements below.

- The vehicle is in a Non-Connected Market when:
 - o TCU Presence = "0x0 Not Presented" AND
 - Vehicle Market Config = "0x1 Non-connected Market"
- The vehicle is in a Connected Market when:
 - TCU Presence = "0x1 Presented and to be provisioned" AND
 - Vehicle Market Config = "0x0 Connected Market"

When in a Non-Connected Market, the EmbeddedModemResetServer shall ignore any feature reset request from the EmbeddedModemInterfaceClient.

When in a Non-Connected Market, and a Master Reset is requested/performed, the EmbeddedModemResetServer shall:

- Perform the Embedded Modem Master Reset for any applicable internal features/functions (see REQ-275650)
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - Note: All connected features/applications will be disabled, and therefore shall not register with the EmbeddedModemResetServer.
- Not transmit any alerts as required in this SPSS
- Not receive or act on any commands as required in this SPSS
- Not perform the SVS Reset Control Function as required in this SPSS

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- Not call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll), from the EmbeddedModemResetOnBoardClient
- Shall not consider the setModemMasterReset API response before sending FactoryReset.St = "(0x1) FactoryDefaultsRestored" to the EmbeddedModemResetInterfaceClient
- Shall perform the above in any provisioning state (not required to be Provisioned)

3.5 EMR-REQ-396102/A-eCall Only Market Operation - EmbeddedModemResetServer

The EmbeddedModemResetServer shall use the TCU_Presence DID and Vehicle_Market_Config DID to determine whether the vehicle is in an eCall Only Market, and therefore apply the requirements below.

- The vehicle is in an eCall Only Market when:
 - o TCU Presence = "0x1 Presented and to be provisioned" AND
 - Vehicle Market Config = "0x1 Non-connected Market"

When in an eCall Only Market, the EmbeddedModemResetServer shall ignore any feature reset request from the EmbeddedModemInterfaceClient.

When in an eCall Only Market, and a Master Reset is requested/performed, the EmbeddedModemResetServer shall:

- Perform the Embedded Modem Master Reset for any applicable internal features/functions (see REQ-275650)
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - Note: All connected features/applications will be disabled, and therefore shall not register with the EmbeddedModemResetServer.
- Not transmit any alerts as required in this SPSS
- Not receive or act on any commands as required in this SPSS
- Not perform the SVS Reset Control Function as required in this SPSS
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll), from the EmbeddedModemResetOnBoardClient
- Shall consider the setModemMasterReset API response before sending FactoryReset.St = "(0x1) FactoryDefaultsRestored" to the EmbeddedModemResetInterfaceClient
- Shall perform the above in any provisioning state (not required to be Provisioned)

3.6 EMR-REQ-479677/A-Primary Display Device Determination

The EmbeddedModemResetServer shall use the Primary_Display_Device DID to determine what device is present on the vehicle and thus what requirements to perform.

3.7 EMR-REQ-479678/A-Reset Availability Broadcast on Request

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall publish resetAvailabilityBroadcast for all Reset Types upon reception of getResetAvailability.

3.8 EMR-REQ-480137/A-Reset Availability Request

The EmbeddedModemResetInterfaceClient shall request the EmbeddedModemResetServer to publish resetAvailabilityBroadcast for all Reset Types by calling getResetAvailability. The EmbeddedModemResetInterfaceClient shall do so:

- Upon start up (Ignition_Status transitions from Off to Run)
- Upon an internal Reset, Super Reset, Factory Reset, etc.
- Upon a module Reboot
- Any time the reset availability status becomes lost/unknown



Functional Definition

4.1 EMRv2-FUN-REQ-275644/C-Master Reset / Factory Reset initiated from **EmbeddedModemResetInterfaceClient**

4.1.1 Requirements

4.1.1.1 EMR-REQ-429821/B-Client/Server Applicability Check

The EmbeddedModemResetServer shall check which clients/servers are present and applicable per the configurations listed below. If the configurations indicate that a given client/server is not present, that relative reset request shall not be sent:

- EmbeddedModemResetServer shall always be applicable
- EmbeddedModemResetOnBoardClient shall be applicable if in a Connected Market (see REQ-381350)
- EmbeddedModemResetAdasServer shall be applicable if ADAS Presence DID = 1, else it shall not be applicable.
- EmbeddedModemResetNFCServer shall be applicable if NFAM Presence DID = 1, else it shall not be applicable.
- EmbeddedModemResetEVServer shall be applicable if:
 - HPCM Presence DID = 1, AND
 - Engine Type DID = Electric Only (BEV) OR Gas/Plug in Electric Vehicle (PHEV), else it shall not be applicable.
- EmbeddedModemResetPnCServer shall be applicable if OBCC_Presence DID = 1, else it shall not be applicable.
- EmbeddedModemResetInterfaceClient shall be applicable as per REQ-479677

4.1.1.2 EMR-REQ-479698/A-Super Reset - Preconditions

When Primary Display Device = PHOENIX, the EmbeddedModemResetServer shall monitor the below conditions to determine whether Super Reset shall be made available to the user (enabled/disabled). The corresponding NotAvailReason shall be set via resetAvailabilityBroadcast if the listed precondition is not met:

Precondition	NotAvailReason if condition not met
IgnitionStatus_St = Run	Not in Run
GearLeverPosition_St = Park	Not in Park
VehicleSpeed_St is less than 5mph (Driving	Speed Exceeded
Restrictions threshold)	
VehicleStartKeyType_St = Factory, AND	User Key Started Vehicle
VehicleStartKeySource_St != Digital_Key	
IgnKeyType_D_Actl != "(0x2) Key_In_Ign_MyKey"	MyKey Started Vehicle

- If IgnKeyType D Actl is not on the bus when ignition does not equal Run (ex Acc, Delay Acc, extended play), the EmbeddedModemResetServer shall assume the last signal state received
- If VehicleStartKeyType_St or VehicleStartKeySource become missing their values cannot be determined, the EmbeddedModemResetServer shall omit this precondition (do not consider for disabling the reset).

If all of the above preconditions have been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = SuperReset, EnableState = Enabled).

If at least one of the above conditions has not been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = SuperReset, EnableState = Disabled, NotAvailReason).

If any of the above conditions are not available or cannot be determined, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = SuperReset, EnableState = Not_Available).

EMR-REQ-480157/A-Super Reset - User Input Enable/Disable

The EmbeddedModemResetInterfaceClient shall enable/disable the Super Reset user interface (button/graphic) based on resetAvailabilityBroadcast received from the EmbeddedModemResetServer:

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- If resetAvailabilityBroadcast(ResetType = SuperReset, EnableState = Enabled), the Super Reset user interface shall be enabled
- If resetAvailabilityBroadcast(ResetType = SuperReset, EnableState = Disabled, NotAvailReason), the Super Reset user interface shall be disabled
- If resetAvailabilityBroadcast(ResetType = SuperReset, EnableState = Not_Available), the Super Reset user interface shall be made unavailable (ex. spinning wheel)

If resetAvailabilityBroadcast(ResetType = SuperReset, EnableState = Disabled, NotAvailReason) while the user selects the user interface (button/graphic), the EmbeddedModemResetInterfaceClient shall display a notification to the user corresponding to the reason provided via NotAvailReason.

4.1.1.4 EMR-REQ-480158/A-Super Reset - InterfaceClient notifying EmbeddedModemResetServer

The EmbeddedModemResetInterfaceClient shall send resetRequestBroadcast(ResetRequest = Super Reset) to the EmbeddedModemResetServer when a Super Reset is requested by the user.

4.1.1.5 EMR-REQ-275645/F-Embedded Modern Master Reset - Server Request

When Primary_Display_Device = FORD_APIM, upon receiving FactoryReset.Rq = "(0x1) ResetFactoryDefaults" from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall:

- Perform the Embedded Modem Master Reset for any applicable internal features/functions (see REQ-275650)
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - Note: The same application/service data is cleared for the Embedded Modem Master Reset, Brand Connect Reset, and VIN Removal
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll), from the EmbeddedModemResetOnBoardClient (if in a Connected Market, see REQ-381350)
- Call the API, setAdasReset(ResetService = 0x0 ResetADAS), from the EmbeddedModemResetAdasServer (see REQ-429821)
- Send DigitalKeyReset_Rq = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer (see REQ-429821)

4.1.1.6 EMRv2-REQ-479699/A-Embedded Modem Master Reset - Server Request v2

When Primary_Display_Device = PHOENIX, upon receiving resetRequestBroadcast(ResetRequest = Super Reset) from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall:

- Perform the Embedded Modem Master Reset for any applicable internal features/functions (see REQ-275650)
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - Note: The same application/service data is cleared for the Embedded Modem Master Reset, Brand Connect Reset, and VIN Removal
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll), from the EmbeddedModemResetOnBoardClient (if in a Connected Market, see REQ-381350)
- Call the API, setAdasReset(ResetService = 0x0 ResetADAS), from the EmbeddedModemResetAdasServer (see REQ-429821)
- Send OffboardChargeClearAll Rg = "(0x1) Request" to EmbeddedModemResetEVServer
 - See EVCS-FUN-REQ-309463-Master Reset
- Send DgtlCommPnc Rq = "(0x1) Reset" to EmbeddedModemResetPnCServer
 - See PNC-FUN-REQ-326625-Master Reset
- Send DigitalKeyReset Rg = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer (see REQ-429821)
- Call the API, setSyncReset(ResetService = Master Reset), from the EmbeddedModemResetInterfaceClient

4.1.1.7 EMR-REQ-275646/D-Embedded Modem Master Reset - Server Response

When Primary_Display_Device = FORD_APIM, the EmbeddedModemResetServer shall send FactoryReset.St = "(0x1) FactoryDefaultsRestored" to the EmbeddedModemResetInterfaceClient upon:

- completion of the Embedded Modem Master Reset, AND
- reception of a successful setModemMasterReset API response (if in a Connected Market, see REQ-381350), AND
- reception of a successful setAdasReset API response (see REQ-429821)
- reception of DigitalKeyReset_St (either Success or Fail) (see REQ-429821)



4.1.1.8 EMR-REQ-479700/A-Super Reset - Reset Progress Broadcast

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall publish resetProgressBroadcast() per the below:

- resetProgressBroadcast(ResetType = SuperReset, ResetStatus = None) when
 - o no reset is actively being processed
 - o this value shall be sent 1 second after having sent a 'Complete' status
- resetProgressBroadcast(ResetType = SuperReset, ResetStatus = In Progress) when
 - the EmbeddedModemResetServer begins issuing reset requests, until a 'Complete' status has been determined
- resetProgressBroadcast(ResetType = SuperReset, ResetStatus = Complete Success) upon:
 - o completion of the Embedded Modem Master Reset, AND
 - reception of a successful setModemMasterReset API response (if in a Connected Market, see REQ-381350), AND
 - reception of a successful setAdasReset API response (see REQ-429821), AND
 - o reception of a successful DigitalKeyReset St (see REQ-429821), AND
 - o reception of a successful setSyncResetConfirm API response (see REQ-429821)
- resetProgressBroadcast(ResetType = SuperReset, ResetStatus = Complete Fail) when:
 - o any of the conditions listed for 'Complete Success' above has failed
 - o the max time allowed for reset has elapsed (See REQ-479701)

4.1.1.9 <u>EMR-REQ-480177/A-Super Reset - InterfaceClient Performing a Reset</u>

Upon receiving setSyncReset(ResetService = 0x0 - Master Reset), the EmbeddedModemResetInterfaceClient shall clear the same data and perform the same actions as it does upon a user initiated Master Reset (see Vehicle Settings SPSS).

4.1.1.10 EMR-REQ-480159/A-Super Reset - InterfaceClient Reset Response

Upon completion of the Super Reset, the EmbeddedModemResetInterfaceClient shall send setSyncResetConfirm(ConfirmStatus) to the EmbeddedModemResetServer indicating:

- ConfirmStatus = 0x0 Success, if the reset succeeded
- ConfirmStatus = 0x1 Fail, if the reset failed

Note: Due to limitations of the Android OS, the EmbeddedModemResetInterfaceClient shall send the ConfirmStatus prior to the actual reset, as an acknowledgement rather than a 'reset complete' status.

4.1.1.11 EMR-REQ-281278/D-Embedded Modern Reset - OnBoardClient Response

Upon completion of the Embedded Modem Reset, the EmbeddedModemResetOnBoardClient shall send the setModemMasterReset API response to the EmbeddedModemResetServer indicating:

- ResponseStatus = 0x00 Success, if the reset succeeded
- ResponseStatus = 0x01 0x10 Fail, if the reset failed
 - ErrorCode shall be set to any valid code in the event of a failure

4.1.1.12 EMR-REQ-429822/A-Embedded Modern Reset - EmbeddedModernResetNFCServer Response

Upon completion of the Embedded Modem Master Reset, the EmbeddedModemResetNFCServer shall send DigitalKeyReset_St to the EmbeddedModemResetServer indicating:

- (0x2) Success, if the reset succeeded
- (0x1) Fail, if the reset failed
 - o The EmbeddedModemResetServer shall log the failure

4.1.1.13 EMR-REQ-481517/A-Embedded Modem Reset - EmbeddedModemResetServer Reset Status

The EmbeddedModemResetServer shall provide/determine its success/failure status internally and log the status.

4.1.1.14 <u>EMR-REQ-481518/A-Embedded Modem Reset - EmbeddedModemResetInterfaceClient Reset Status</u>

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetInterfaceClient via setSyncResetConfirm(ConfirmStatus) and log the status.



4.1.1.15 EMR-REQ-481519/A-Embedded Modem Reset - EmbeddedModemResetOnBoardClient Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetOnBoardClient via setModemMasterReset(ResponseStatus) and log the status.

4.1.1.16 EMR-REQ-481520/A-Embedded Modem Reset - EmbeddedModemResetPnCServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetPnCServer via PnCStat_St and log the status:

- If PnCStat_St = 0x1 No Contracts Installed, the reset shall be determined a success
- If PnCStat St != 0x1 No Contracts Installed, the reset shall be determined a failure
 - See PNC-FUN-REQ-326625-Master Reset

4.1.1.17 EMR-REQ-481521/A-Embedded Modem Reset - EmbeddedModemResetAdasServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetAdasServer via setAdasReset(ResponseStatus) and log the status.

4.1.1.18 EMR-REQ-481522/A-Embedded Modern Reset - EmbeddedModernResetNFCServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetNFCServer via DigitalKeyReset_St and log the status:

- If DigitalKeyReset_St = (0x2) Success, the reset shall be determined a success
- If DigitalKeyReset St = (0x1) Fail, the reset shall be determined a failure

4.1.1.19 EMR-REQ-275647/C-Master & Embedded Modem Reset - Request Handling

Upon receiving a Master Reset or Feature Reset request (via either FactoryReset.Rq or EmbeddedModemReset_Rq or resetRequestBroadcast), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Execute only one reset at any given time
- Ignore the request if an EmbeddedModemInterfaceClient initiated reset request is already being processed
- Queue the request if an EmbeddedModemOffBoardClient initiated reset request is already being processed. The EmbeddedModemResetServer shall process the request only after the ongoing reset has completed.

Upon receiving a ClearUserSettingsCommand (per VIN Removal), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Queue the request if an existing reset request is already in process. The EmbeddedModemResetServer shall process the request only after the ongoing reset has completed.

The EmbeddedModemResetServer shall persist all queued reset requests through module restarts, power on/off, ignition cycles, etc.

4.1.1.20 EMR-REQ-275649/B-Embedded Modem Master Reset - Server Operational States

The Embedded Modem Master Reset shall only be performed by the EmbeddedModemResetServer if the EmbeddedModemResetServer is in any of the following states:

"Provisioned"

4.1.1.21 <u>EMR-REQ-276995/A-Embedded Modem Master Reset - OnBoardClient Operational States</u>

The Embedded Modem Master Reset shall only be performed by the EmbeddedModemResetOnBoardClient if the EmbeddedModemResetOnBoardClient is in any of the following states:

• "Provisioned"

4.1.1.22 <u>EMR-REQ-429823/A-Embedded Modem Reset - NFCServer Operational States</u>

The Embedded Modem Master Reset shall only be performed by the EmbeddedModemResetNFCServer if the EmbeddedModemResetNFCServer is in any of the following states:

• "Provisioned"



4.1.1.23 <u>EMR-REQ-275650</u>/G-Cleared Data

The feature data to be cleared by the EmbeddedModemResetServer, EmbeddedModemResetInterfaceClient, EmbeddedModemResetOnBoardClient, EmbeddedModemResetKeyServer, EmbeddedModemResetEVServer, EmbeddedModemResetPnCServer, EmbeddedModemResetAdasServer and EmbeddedModemResetNFCServer upon an Embedded Modem Master Reset (per REQ-275645, REQ-479699), VIN Removal (per REQ-275663, REQ-275664, REQ-275665), or a Remote Reset (per REQ-392689, REQ-392690, REQ-392691) may contain settings pertaining to:

- ECG Common Functions
- Embedded Modem Common Functions
- Control Mv Car
- Vehicle Health Report
- Wifi Hotspot
- In Vehicle Software Update
- Online Traffic
- Connectivity Customer Settings
- PaaK
- NFC Entry & Start
- EV Charge Programming
- DVD
- Plug and Charge
- Driver Assist Settings (ADAS)
- BT/BLE pairing and connection data
- etc.

4.1.1.24 EMR-REQ-275651/A-Embedded Modem Master Reset - Software Retention

The feature data to be cleared shall operate only the Method-2, Method-3, and GMRDB based configurations. There shall not be any changes to the EmbeddedModemResetServer or EmbeddedModemResetOnBoardClient software.

4.1.1.25 EMR-REQ-275652/D-Embedded Modem Master Reset - FTCP Alert

Upon completing the Embedded Modem Master Reset, the EmbeddedModemResetServer shall send a MasterResetAlert to the EmbeddedModemResetOffBoardClient indicating that a "Master Reset" was performed.

This alert shall be sent by the EmbeddedModemResetServer whether the vehicle is authorized or not (See CCS SPSS for authorization information).

This alert shall include VSTAT information only when the vehicle is authorized (See CCS SPSS for authorization information).

4.1.1.26 EMR-REQ-275653/B-Embedded Modem Master Reset - FTCP Alert Queing

The EmbeddedModemResetServer shall queue the MasterResetAlert (to be sent per REQ-275652) in case of a connectivity issue with the EmbeddedModemResetOffBoardClient, or in case the EmbeddedModemResetOnBoardClient is undergoing a module reboot. The EmbeddedModemResetServer shall queue the MasterResetAlert through ignition cycles.

4.1.1.27 EMR-REQ-275654/B-Master & Embedded Modem Reset - Completion Time

When Primary_Display_Device = FORD_APIM, the EmbeddedModemResetServer and EmbeddedModemResetOnBoardClient shall remove all PII and application specific data within 45 seconds.

If this process fails to complete within the above time for any of the Embedded Modem Feature Resets, the EmbeddedModemResetServer shall respond to the EmbeddedModemResetInterfaceClient with EmbeddedModemReset_St = "(0x1) Reset_NotComplete".

4.1.1.28 EMRv2-REQ-479701/A-Master & Embedded Modem Reset - Completion Time v2

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer and EmbeddedModemResetOnBoardClient shall remove all PII and application specific data within 45 seconds.

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^{**}Note: Please refer to each relevant feature SPSS for details/requirements regarding the specific content/data to be cleared upon a reset.



If this process fails to complete within the above time for any of the Embedded Modem Feature Resets, the EmbeddedModemResetServer shall send resetProgressBroadcast(ResetType, ResetStatus = Complete - Fail) to the EmbeddedModemResetInterfaceClient for the requested ResetType.

4.1.1.29 EMR-REQ-275656/C-Buffered AVD Data

The EmbeddedModemResetServer shall remove any buffered AVD data upon an Embedded Modem Master Reset (per REQ-275645, REQ-479699), a VIN Removal (per REQ-275663, REQ-275664, REQ-275665) or a Remote Reset (per REQ-392689, REQ-392690, REQ-392691). Please refer to DVD SPSS for more details on buffered data.

4.1.1.30 EMRv2-REQ-338692/B-Embedded Modem Master Reset - Reset Submenu Configuration

The EmbeddedModemResetInterfaceClient shall have a configurable DID to determine whether the Embedded Modem Reset Submenu shall be displayed. The Submenu shall only be shown for Bundle 4 EmbeddedModemResetServer's and onward.

TCU Reset DID:

- When the MFAL code is set to IEPAL, IEPAC, IEPAL or IEPAA the TCU Reset DID shall be set to Disabled / Inactive / etc. and the Submenu shall not be shown
- When the MFAL code is set to IEPAN or IEPAM, the TCU Reset DID shall be set to Enabled / Active / etc. and the Submenu shall be shown

4.1.1.31 EMR-REQ-348156/B-Embedded Modern Master Reset - Security Tokens on EmbeddedModernResetServer

The EmbeddedModemResetServer shall delete/remove all Security tokens upon an Embedded Modem Master Reset initiated from the EmbeddedModemResetInterfaceClient.

When Security tokens are present, the EmbeddedModemResetServer module shall perform a reboot according to REQ-348158 after having completed the Embedded Modem Master Reset.

4.1.1.32 <u>EMR-REQ-348157/B-Embedded Modern Master Reset - Security Tokens on</u> <u>EmbeddedModernResetOnBoardClient</u>

The EmbeddedModemResetOnBoardClient shall delete/remove all Security tokens upon an Embedded Modem Master Reset initiated from the EmbeddedModemResetInterfaceClient.

When Security tokens are present, the EmbeddedModemResetOnBoardClient module shall immediately perform a reboot after having completed the Embedded Modem Master Reset.

4.1.1.33 EMR-REQ-348158/B-Embedded Modern Master Reset - EmbeddedModernResetServer Module Reboot

The EmbeddedModemResetServer shall maintain a flag to indicate when a module reboot is required. When an Embedded Modem Master Reset is initiated from the EmbeddedModemResetInterfaceClient, the flag shall be set accordingly:

- If Security tokens are present and were cleared successfully, set flag "true"
- If Security tokens are not present OR the Security tokens failed to clear, set flag "false"
 - o If this determination cannot be made within the completion time specified in REQ-275654, set flag "false"

When the flag is set to "true" the EmbeddedModemResetServer shall perform a module reboot the next time the IgnitionStatus = Off (i.e. the next time the user turns off the vehicle).

When the flag is set to "false" the EmbeddedModemResetServer shall not perform a module reboot, but shall continue with the Master Reset process as specified in this SPSS.

After the module reboot is complete, the flag shall be set to "false."

Note: If Production Secure h/w is running Developer signed s/w, security tokens will not be removed:

- AP_DevSigned
- AP_DevUnsigned
- CP_Debug



4.1.1.34 Factory Reset

4.1.1.34.1 EMR-REQ-443177/A-Factory Reset - User Input

The EmbeddedModemResetInterfaceClient shall provide a user interface (button/graphic) to perform a Factory Reset.

4.1.1.34.2 EMR-REQ-443178/A-Factory Reset - User Input Enable/Disable

The EmbeddedModemResetInterfaceClient shall enable/disable (show/hide, grey-out, etc.) the Factory Reset user interface (button/graphic) using the same conditions as the Master Reset button.

- Please see the HMI spec (H31L) for conditions
- Please see Vehicle Settings SPSS for conditions
 - Note: This includes restrictions based on NFC Key, MyKey, Driver Restrictions, etc.

4.1.1.34.3 EMR-REQ-443179/A-Factory Reset - InterfaceClient Request

The EmbeddedModemResetInterfaceClient shall send FactoryReset.Rq = "(0x1) ResetFactoryDefaults" to the EmbeddedModemResetServer when a 'Factory Reset' is requested by the user.

Note: 'Factory Reset' is not a 'Master Reset.' This is a separate reset button/offering, in addition to 'Master Reset.'

4.1.1.34.4 EMR-REQ-443180/A-Factory Reset - InterfaceClient Actions

When requested to perform a Factory Reset, the EmbeddedModemResetInterfaceClient shall clear the same data and perform the same actions as it does upon a user initiated Master Reset, as well as:

- Perform 'Erase all data'
 - This is an AOS native reset type. This option will permanently delete all user data, customized settings and installed applications, all the internal storage including:
 - Google Account
 - System and app data settings
 - Downloaded apps
 - Music
 - Photos
 - Other user data

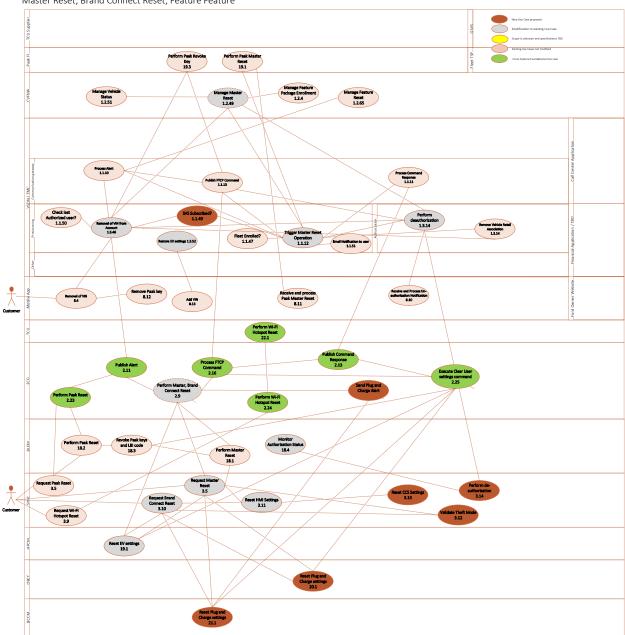


4.1.2 Use Cases

4.1.2.1 UCD-REQ-275657/B-Reset Feature

Use Case Diagram

Master Reset, Brand Connect Reset, Feature Feature





4.1.2.2 EMR-UC-REQ-275658/A-Embedded Modem Master Reset

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
Scenario	The user selects <master reset=""> via HMI.</master>
Description	
Post-conditions	All applicable settings are restored to the factory defaults (refer to a particular feature SPSS for the applicable settings/default values and/or feature specific requirements).
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

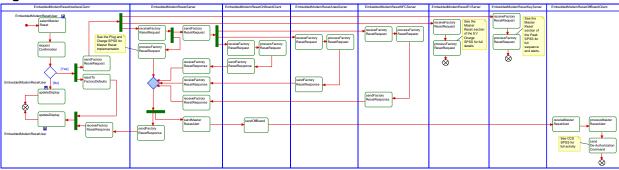
4.1.2.3 EMR-UC-REQ-348159/A-Embedded Modem Master Reset with Debug Tokens Present

Actors	Vehicle occupant			
Pre-conditions	HMI display is ON			
	Debug Tokens are present on EmbeddedModemResetServer and			
	EmbeddedModemResetOnBoardClient			
Scenario	The user selects <master reset=""> via HMI.</master>			
Description				
Post-conditions	 All applicable settings are restored to the factory defaults (refer to a particular feature SPSS for the applicable settings/default values and/or feature specific requirements). EmbeddedModemResetOnBoardClient completes reset and performs a module reboot EmbeddedModemResetServer completes reset and sets flag "true" in order to perform a module reboot at the next key-off 			
List of Exception	N/A			
Use Cases				
Interfaces	G-HMI			

4.1.3 White Box View

4.1.3.1 EMR-ACT-REQ-275659/F-Embedded Modem Master Reset

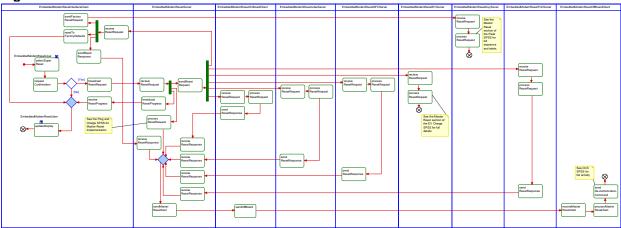
Activity Diagram





4.1.3.2 EMRv2-ACT-REQ-480538/A-Embedded Modem Master Reset v2

Activity Diagram



4.1.3.3 EMR-SD-REQ-275660/F-Embedded Modem Master Reset

Constraints

Pre-Condition

HMI display is ON

Scenarios

Normal Usage

The user selects <Master Reset> via HMI

Post-Condition

All applicable settings are restored to the factory defaults

Sequence Diagram FactoryReset_Rq(ResetFactoryDefaults) DigitalKeyReset_Rq(Null) FactoryReset_Rq(ResetFactoryDefaults) <1sec> FactoryReset_Rq(Inactive) <1sec> FactoryReset_Rq(Inactive) See the Master Reset sect of the Paak SPSS for full sequence and alerts.





4.1.3.4 EMRv2-SD-REQ-480539/A-Embedded Modern Master Reset v2

Constraints

Pre-Condition

HMI display is ON

Scenarios

Normal Usage

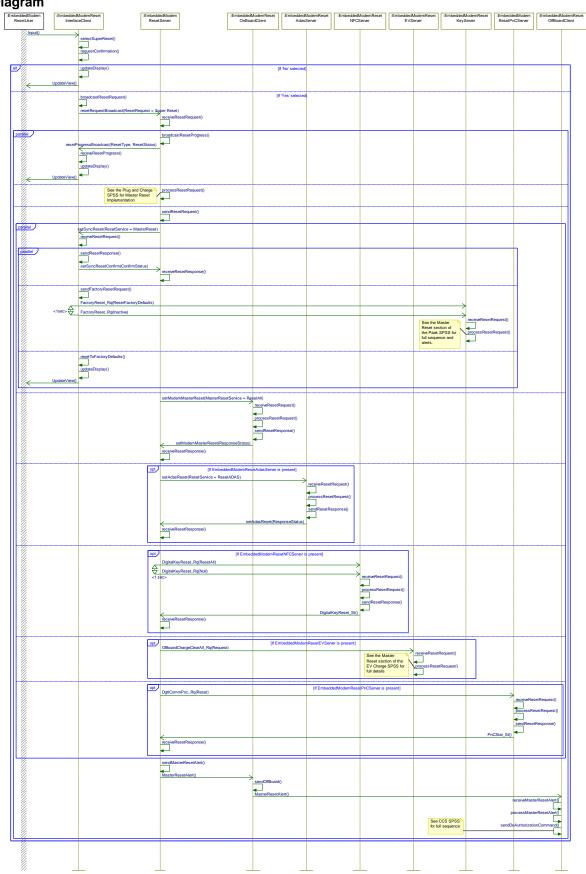
The user selects <Super Reset> via HMI

Post-Condition

All applicable settings are restored to the factory defaults



Sequence Diagram





4.2 EMR-FUN-REQ-392682/A-Remote Reset initiated from EmbeddedModemResetOffBoardClient

4.2.1 Requirements

4.2.1.1 EMR-REQ-392683/A-Remote Reset & Master Reset – Priority

If the EmbeddedModemResetServer receives a Remote Master Reset from the EmbeddedModemResetOffBoardClient and a Master Reset or Feature Reset request from the EmbeddedModemResetInterfaceClient (or if already performing reset), the EmbeddedModemResetServer shall give the EmbeddedModemResetInterfaceClient initiated reset first priority.

In this event, the EmbeddedModemResetServer shall queue the request indefinitely until the ongoing reset has completed and the preconditions in REQ-392684 have been met.

4.2.1.2 EMR-REQ-392684/C-Remote Reset – Preconditions

The EmbeddedModemResetServer shall evaluate the below preconditions before requesting a Remote Reset from all participating modules:

- IgnitionStatus_St = Run, AND
- VehicleSpeed_St is less than Driving Restrictions threshold (see REQ-025157 of the Driver Restrictions SPSS), AND
- Ready State Check is complete as per REQ-482677

When the Remote Reset being performed includes the EmbeddedModemResetAdasServer, the EmbeddedModemResetServer shall wait 6 seconds after the transition of Off to Run (for the IgnitionStatus_St condition above) before sending all reset requests (if all other conditions are also satisfied). The EmbeddedModemResetAdasServer requires sufficient startup time before accepting reset requests.

Note: the 6s timer above shall be implemented as a configurable internal timer, defaulted to 6s.

4.2.1.3 EMR-REQ-482677/A-Remote Reset - Ready State Check

When IgnitionStatus_St transitions from Off to Run, the EmbeddedModemResetServer shall request for modules to communicate their ready state by sending ecuReadyStateBroadcast. The EmbeddedModemResetServer shall then collect the responses from the below modules:

- EmbeddedModemResetInterfaceClient via setEcuReadyState(ecuType = SYNC, ecuReady)
- EmbeddedModemResetOnBoardClient via setEcuReadyState(ecuType = TCU, ecuReady) OR setMasterResetReady(master_reset_ready)

In order to allow modules enough time to bootup before requesting any pending reset requests, the EmbeddedModemResetServer shall wait a maximum of 70s after broadcasting the request before automatically considering the Ready State Check complete (which will allow pending reset requests to be initiated). If all modules respond with ecuReady = 1 prior to the 70s elapsing, the EmbeddedModemResetServer shall consider the Ready State Check complete at that time.

Note: The Ready State Check being considered complete as a result of the 70s elapsing may result in some modules not successfully receiving and acting upon the requested reset, thus preventing all user/system data from being successfully cleared.

Note: The Ready State Check only applies to Remote Resets, as indicated in REQ-392684. It does not apply to resets initiated in-vehicle or VIN Removals (i.e. ClearUserSettingsCommand).

4.2.1.4 EMR-REQ-482678/A-Remote Reset - InterfaceClient Send Ready State

The EmbeddedModemResetInterfaceClient shall provide a Ready Status to the EmbeddedModemResetServer to indicate its ability to receive and process a reset request. Upon reception of ecuReadyStateBroadcast, or whenever the Ready State changes, the EmbeddedModemResetInterfaceClient shall send setEcuReadyState(ecuType = SYNC, ecuReady), where:

- ecuReady = 0 for NotReady
- ecuReady = 1 for Ready

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4.2.1.5 EMR-REQ-482679/A-Remote Reset - OnBoardClient Send Ready State

The EmbeddedModemResetOnBoardClient shall provide a Ready Status to the EmbeddedModemResetServer to indicate its ability to receive and process a reset request.

- Upon reception of ecuReadyStateBroadcast, the EmbeddedModemResetOnBoardClient shall send setEcuReadyState(ecuType = TCU, ecuReady), where:
 - ecuReady = 0 for NotReady
 - o ecuReady = 1 for Ready
- Anytime the EmbeddedModemResetOnBoardClient Ready State changes, the EmbeddedModemResetOnBoardClient shall send setMasterResetReady(master_reset_ready), where:
 - o master_reset_ready = 0 for NotReady
 - o master_reset_ready = 1 for Ready

Note: The use of two separate API's in this usecase is a result of the preexisting EmbeddedModemResetOnBoardClient implementation.

4.2.1.6 EMR-REQ-392685/B-Remote Reset – FactoryReset_Rq

The EmbeddedModemResetInterfaceClient shall not send FactoryReset_Rq = "(0x1) ResetFactoryDefaults" when a SYNC Reset is triggered by a Remote Reset request (via setSyncReset(ResetService = 0x1 - Sync Reset)).

4.2.1.7 EMR-REQ-392686/B-Remote Reset – SMS Wakeup

Upon a Remote Reset initiated by the EmbeddedModemResetOffBoardClient, the EmbeddedModemResetOffBoardClient shall send a Type1 SMS Wakeup to the EmbeddedModemResetOnBoardClient, which shall then wakeup the EmbeddedModemResetServer. The EmbeddedModemResetServer shall queue the request indefinitely until the preconditions in REQ-392684 are met.

4.2.1.8 <u>EMR-REQ-392687/D-Remote Reset – Client/Server Applicability Check</u>

The EmbeddedModemResetServer shall check which clients/servers are present and applicable per the configurations listed below. If the configurations indicate that a given client/server is not present, that relative reset request shall not be sent, and the RemoteResetAlert shall not include a reset status for that client/server:

- EmbeddedModemResetServer shall always be applicable
- EmbeddedModemResetInterfaceClient shall be applicable as per REQ-479677
- EmbeddedModemResetOnBoardClient shall always be applicable
- EmbeddedModemResetEVServer shall be applicable if:
 - HPCM_Presence DID = 1, AND
 - Engine Type DID = Electric Only (BEV) OR Gas/Plug in Electric Vehicle (PHEV), else it shall not be applicable.
- EmbeddedModemResetPnCServer shall be applicable if OBCC_Presence DID = 1, else it shall not be applicable.
- EmbeddedModemResetAdasServer shall be applicable if ADAS_Presence DID = 1, else it shall not be applicable.
- EmbeddedModemResetNFCServer shall be applicable if NFAM_Presence DID = 1, else it shall not be applicable.

4.2.1.9 EMR-REQ-392688/B-Remote Reset - RemoteResetCommand/Response

Upon a Remote Reset initiated by the EmbeddedModemResetOffBoardClient, the EmbeddedModemResetServer shall receive a RemoteResetCommand. When the RemoteResetCommand indicates a Remote Master Reset, Remote Brand Connect Reset, Remote SYNC Reset, or Remote ADAS Reset the EmbeddedModemResetServer shall:

- Send a RemoteResetCommandResponse to the EmbeddedModemResetOffBoardClient indicating successful reception of the Command.
 - This response shall include VSTAT information only when the vehicle is authorized (See CCS SPSS for authorization information).

4.2.1.10 EMR-REQ-392689/D-Remote Master Reset - Preconditions Met

After sending the RemoteResetCommandResponse for the requested Remote Master Reset, the EmbeddedModemResetServer shall check the preconditions (per REQ-392684). If the preconditions are met, the EmbeddedModemResetServer shall:



- Clear all internal user settings
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - The EmbeddedModemResetServer shall collect the status of each application's reset and provide an overall reset status for itself in the RemoteResetAlert.
 - Note: The same application/service data is cleared for the VIN Removal, Embedded Modem Master Reset, and Brand Connect Reset
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll) from the EmbeddedModemResetOnBoardClient
- Call the API, setSyncReset(ResetService = 0x1 SYNC Reset) from the EmbeddedModemResetInterfaceClient
 - Note: requesting a SYNC reset ensures that FactoryReset_Rq is not sent as per REQ-392685
- Send OffboardChargeClearAll Rg = "(0x1) Request" to EmbeddedModemResetEVServer
 - See EVCS-FUN-REQ-309463-Master Reset
- Send DgtlCommPnc_Rq = "(0x1) Reset" to EmbeddedModemResetPnCServer
 - See PNC-FUN-REQ-326625/A-Master Reset
- Call the API, setAdasReset(ResetService = 0x0 ResetADAS), from the EmbeddedModemResetAdasServer
- Send DigitalKeyReset_Rq = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer
- Collect reset statuses (see REQ-392694 REQ-392699) and send RemoteResetAlert per REQ-392693

4.2.1.11 EMR-REQ-392690/B-Remote Brand Connect Reset - Preconditions Met

After sending the RemoteResetCommandResponse for the requested Remote Brand Connect Reset, the EmbeddedModemResetServer shall check the preconditions (per REQ-392684). If the preconditions are met, the EmbeddedModemResetServer shall:

- Clear all internal user settings
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - The EmbeddedModemResetServer shall collect the status of each application's reset and provide an overall reset status for itself in the RemoteResetAlert.
 - Note: The same application/service data is cleared for the VIN Removal, Embedded Modem Master Reset, and Brand Connect Reset
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll) from the EmbeddedModemResetOnBoardClient
- Send OffboardChargeClearAll Rg = "(0x1) Request" to EmbeddedModemResetEVServer
 - See EVCS-FUN-REQ-309463-Master Reset
- Send DgtlCommPnc_Rq = "(0x1) Reset" to EmbeddedModemResetPnCServer
 - See PNC-FUN-REQ-326625-Master Reset
- Send DigitalKeyReset Rq = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer
- Collect reset statuses (see REQ-392694, REQ-392696 REQ-392699) and send RemoteResetAlert per REQ-392693

4.2.1.12 EMR-REQ-392691/A-Remote SYNC Reset - Preconditions Met

After sending the RemoteResetCommandResponse for the requested Remote SYNC Reset, the EmbeddedModemResetServer shall check the preconditions (per REQ-392684). If the preconditions are met, the EmbeddedModemResetServer shall:

- Call the API, setSyncReset(ResetService = 0x1 SYNC Reset) from the EmbeddedModemResetInterfaceClient
- Collect reset status (see REQ-392701) and send RemoteResetAlert per REQ-392693

4.2.1.13 EMR-REQ-413950/A-Remote ADAS Reset - Preconditions Met

After sending the RemoteResetCommandResponse for the requested Remote ADAS Reset, the EmbeddedModemResetServer shall check the preconditions (per REQ-392684). If the preconditions are met, the EmbeddedModemResetServer shall:

- Call the API, setAdasReset(ResetService = 0x0 ResetADAS), from the EmbeddedModemResetAdasServer
- Collect reset status (see REQ-413952) and send RemoteResetAlert per REQ-392693



4.2.1.14 EMR-REQ-392692/A-Remote Reset - Preconditions Not Met

After sending the RemoteResetCommandResponse, the EmbeddedModemResetServer shall check the preconditions (per REQ-392684). If the preconditions are not met, the EmbeddedModemResetServer shall queue the request indefinitely until the preconditions have been met.

4.2.1.15 EMR-REQ-392693/C-Remote Reset - RemoteResetAlert Success/Fail Status

After the request has been determined a Success or Failure (not during the queue period), the EmbeddedModemResetServer shall send a RemoteResetAlert to the EmbeddedModemResetOffBoardClient indicating the reset status of the clients/servers per the table below:

Client/Server	Remote Reset Type			
	Remote Master	Remote Brand	Remote	Remote
	Reset	Connect	SYNC Reset	ADAS Reset
EmbeddedModemResetServer	Included	Included	Not Included	Not Included
EmbeddedModemResetInterfaceClient	Included	Not Included	Included	Not Included
EmbeddedModemResetOnBoardClient	Included	Included	Not Included	Not Included
EmbeddedModemResetEVServer	Not Included*	Not Included*	Not Included	Not Included
EmbeddedModemResetPnCServer	Included	Included	Not Included	Not Included
EmbeddedModemResetAdasServer	Included	Not Included	Not Included	Included
EmbeddedModemResetNFCServer	Included	Included	Not Included	Not Included

The EmbeddedModemResetServer shall include in the <u>RemoteResetAlert</u> only the clients/servers listed as "Included" above for the corresponding Remote Reset. The "Not Included" clients/servers shall not be included in the RemoteResetAlert. The EmbeddedModemResetServer shall identify the clients/servers in the RemoteResetAlert by their ECU ID (see REQ-410562).

The RemoteResetAlert shall include an Overall Reset status, determined from the statuses of other clients/servers.

- If any one of the client/servers report a failure, the Overall Status shall be set to Failed.
- If all of the client/servers report a success, the Overall Status shall be set to Success.

*Note: The EmbeddedModemResetEVServer reset status shall be omitted from the Alert until further notice (requires new signal).

**Note: Please refer to REQ-392687 for Client/Server Applicability as well when applying this table/logic.

4.2.1.16 EMR-REQ-410562/B-Remote Reset - ECU ID

When indicating the reset status of the clients/servers in the RemoteResetAlert, the EmbeddedModemResetServer shall use the ECU ID as per the below table:

Clients/Servers	ECU ID
EmbeddedModemResetServer	0x716
EmbeddedModemResetOnBoardClient	0x754
EmbeddedModemResetInterfaceClient	0x7D0
EmbeddedModemResetPnCServer	0x6F5
EmbeddedModemResetEVServer	0x7E6
EmbeddedModemResetADASServer	0x706
EmbeddedModemResetNFCServer	0x6C6

4.2.1.17 EMR-REQ-392694/A-Remote Reset - EmbeddedModemResetServer Reset Status

The EmbeddedModemResetServer shall provide/determine its success/failure status internally for use in the RemoteResetAlert.

4.2.1.18 EMR-REQ-392695/B-Remote Reset - EmbeddedModemResetInterfaceClient Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetInterfaceClient via setSyncResetConfirm(ConfirmStatus).

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4.2.1.19 EMR-REQ-392696/A-Remote Reset – EmbeddedModemResetOnBoardClient Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetOnBoardClient via setModemMasterReset(ResponseStatus).

4.2.1.20 EMR-REQ-392699/A-Remote Reset – EmbeddedModemResetPnCServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetPnCServer via PnCStat St:

- If PnCStat St = 0x1 No Contracts Installed, the reset shall be determined a success
- If PnCStat St != 0x1 No Contracts Installed, the reset shall be determined a failure
 - See PNC-FUN-REQ-326625/A-Master Reset

4.2.1.21 EMR-REQ-413951/A-Remote Reset - EmbeddedModemResetAdasServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetAdasServer via setAdasReset(ResponseStatus).

4.2.1.22 EMR-REQ-429921/A-Remote Reset - EmbeddedModemResetNFCServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetNFCServer via DigitalKeyReset_St:

- If DigitalKeyReset_St = (0x2) Success, the reset shall be determined a success
- If DigitalKeyReset St = (0x1) Fail, the reset shall be determined a failure

4.2.1.23 EMR-REQ-392700/A-Remote Reset - RemoteResetAlert Queuing

If for some reason the RemoteResetAlert cannot be sent immediately after the determination of success/failure (lost connectivity, etc.), the EmbeddedModemResetServer shall queue the RemoteResetAlert for a maximum of 14 days.

4.2.1.24 EMR-REQ-392701/B-Remote Reset – InterfaceClient Response

Upon completion of the Remote Reset, the EmbeddedModemResetInterfaceClient shall send setSyncResetConfirm(ConfirmStatus) to the EmbeddedModemResetServer indicating:

- ConfirmStatus = 0x0 Success, if the reset succeeded
- ConfirmStatus = 0x1 Fail, if the reset failed

Note: Due to limitations of the Android OS, the EmbeddedModemResetInterfaceClient shall send the ConfirmStatus prior to the actual reset, as an acknowledgement rather than a 'reset complete' status.

4.2.1.25 EMR-REQ-443197/B-Remote Reset – InterfaceClient Performing a SYNC Only Reset

Upon receiving setSyncReset(ResetService = 0x1 – SYNC Reset) the EmbeddedModemResetInterfaceClient shall clear the same data and perform the same actions as it does upon a user initiated Master Reset (see REQ-392685 for one exception).

4.2.1.26 EMR-REQ-480237/A-Remote Reset - InterfaceClient Performing a Master Reset

Upon receiving setSyncReset(ResetService = 0x0 - Master Reset) EmbeddedModemResetInterfaceClient shall clear the same data and perform the same actions as it does upon a user initiated Master Reset (see Vehicle Settings SPSS).

4.2.1.27 EMR-REQ-413952/A-Remote Reset – EmbeddedModemResetAdasServer Response

Upon completion of the Remote Reset, the EmbeddedModemResetAdasServer shall send setAdasReset(ResponseStatus) to the EmbeddedModemResetServer indicating:

- ResponseStatus = 0x0 Success, if the reset succeeded
- ResponseStatus = 0x2 Fail, if the reset failed

Note: The EmbeddedModemResetAdasServer may send ResponseStatus = 0x1 Wait, as a temporary/intermediary state if unable to send a final success/fail immediately. This state shall be ignored by the EmbeddedModemResetServer.

4.2.1.28 EMR-REQ-275650/G-Cleared Data

The feature data to be cleared by the EmbeddedModemResetServer, EmbeddedModemResetInterfaceClient, EmbeddedModemResetOnBoardClient, EmbeddedModemResetKeyServer, EmbeddedModemResetEVServer,

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EmbeddedModemResetPnCServer, EmbeddedModemResetAdasServer and EmbeddedModemResetNFCServer upon an Embedded Modem Master Reset (per REQ-275645, REQ-479699), VIN Removal (per REQ-275663, REQ-275664, REQ-275665), or a Remote Reset (per REQ-392689, REQ-392690, REQ-392691) may contain settings pertaining to:

- ECG Common Functions
- Embedded Modem Common Functions
- Control Mv Car
- Vehicle Health Report
- Wifi Hotspot
- In Vehicle Software Update
- Online Traffic
- Connectivity Customer Settings
- PaaK
- NFC Entry & Start
- EV Charge Programming
- DVD
- Plug and Charge
- Driver Assist Settings (ADAS)
- BT/BLE pairing and connection data
- etc

4.2.1.29 EMR-REQ-392702/B-Remote Master Reset - Completion Time

The EmbeddedModemResetServer, EmbeddedModemResetOnBoardClient and EmbeddedModemResetAdasServer shall remove all PII and application specific data within 45 seconds.

If the EmbeddedModemResetServer, EmbeddedModemResetOnBoardClient or EmbeddedModemResetAdasServer fails to complete the reset within the above time, the reset status for that client/server shall be considered a failure in the RemoteResetAlert.

4.2.1.30 EMR-REQ-275656/C-Buffered AVD Data

The EmbeddedModemResetServer shall remove any buffered AVD data upon an Embedded Modem Master Reset (per REQ-275645, REQ-479699), a VIN Removal (per REQ-275663, REQ-275664, REQ-275665) or a Remote Reset (per REQ-392689, REQ-392690, REQ-392691). Please refer to DVD SPSS for more details on buffered data.

4.2.1.31 EMR-REQ-413953/A-EmbeddedModemResetAdasServer – Publish Settings

After completing an ADAS Reset or Master Reset, the EmbeddedModemResetAdasServer shall update/send all settings to the EmbeddedModemResetInterfaceClient.

- If the ADAS Setting(s) being reset is one using Feature Based Message Protocol, then the EmbeddedModemResetAdasServer shall send the respective Feature Number for each ADAS setting sequentially to the EmbeddedModemResetInterfaceClient, with a minimum separation time of 50 msec.
- If the ADAS Setting(s) being reset is one <u>not</u> using Feature Based Message Protocol (using standard CAN statuses), then the EmbeddedModemResetAdasServer shall update and send the respective settings status to the EmbeddedModemResetInterfaceClient.

4.2.2 Use Cases

4.2.2.1 EMR-UC-REQ-392703/B-Remote Master Reset is requested

Actors	User/Fleet manager/Backend operator
--------	-------------------------------------

^{**}Note: Please refer to each relevant feature SPSS for details/requirements regarding the specific content/data to be cleared upon a reset.

^{**}Please refer to the applicable SPSS for the settings interface. For ADAS settings using Feature Based Message Protocol reference the "Settings to the Infotainment Centerstack SPSS". For ADAS settings using standard CAN signals reference the "Vehicle Settings SPSS" or applicable feature spec.



Pre-conditions	Vehicle is in Run Speed is less than Driving Restrictions threshold EmbeddedModemResetServer is Provisioned
Scenario Description	The user/fleet manager/backend operator requests a Remote Master Reset.
Post-conditions	CVFMA receives request to trigger Master Reset operation. Reset of customer settings, connectivity settings, feature specific settings, feature/subscription unenrollment (if applicable), EmbeddedModemResetServer de-authorization (if applicable), and EmbeddedModemResetInterfaceClient settings.
List of Exception Use Cases	N/A
Interfaces	G-HMI

4.2.2.2 EMR-UC-REQ-392704/A-Remote Brand Connect Reset is requested

Actors	User/Fleet manager/Backend operator
Pre-conditions	Vehicle is in Run
	Speed is less than Driving Restrictions threshold
	EmbeddedModemResetServer is Provisioned
Scenario	The user/fleet manager/backend operator requests a Remote Brand
Description	Connect Reset.
Post-conditions	CVFMA receives request to trigger Master Reset operation.
	Reset of customer settings, connectivity settings, feature specific settings,
	feature/subscription unenrollment (if applicable),
	EmbeddedModemResetServer de-authorization (if applicable).
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.2.2.3 EMR-UC-REQ-392705/B-Remote SYNC Reset is requested

Actors	User/Fleet manager/Backend operator
Pre-conditions	Vehicle is in Run
	Speed is less than Driving Restrictions threshold
	EmbeddedModemResetServer is Provisioned
Scenario	The user/fleet manager/backend operator requests a Remote SYNC Reset.
Description	-
Post-conditions	The EmbeddedModemResetInterfaceClient clears the same data it would
	clear upon a Master Reset.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.2.2.4 EMR-UC-REQ-413956/A-Remote ADAS Reset is requested

Actors	User/Fleet manager/Backend operator	
Pre-conditions	Vehicle is in Run	
	Speed is less than Driving Restrictions threshold	
	EmbeddedModemResetServer is Provisioned	
Scenario	The user/fleet manager/backend operator requests a Remote ADAS Reset.	
Description		

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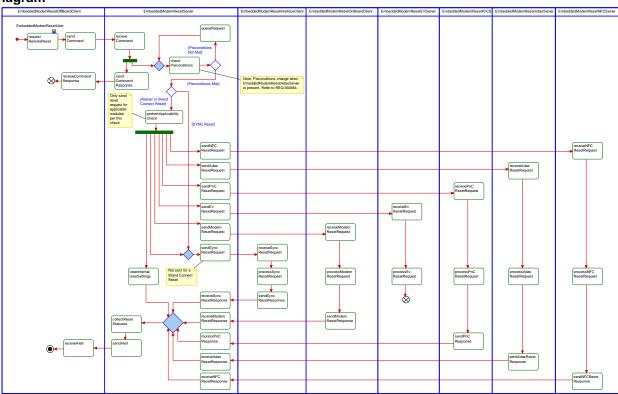


Post-conditions	The EmbeddedModemResetAdasServer clears the same data it would clear
	upon a Master Reset.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.2.3 White Box View

4.2.3.1 EMR-ACT-REQ-393389/C-Remote Reset Requested

Activity Diagram



4.2.3.2 EMR-SD-REQ-393390/D-Remote Reset Requested

Constraints

Pre-Condition

Vehicle is in Run

Speed is less than Driving Restrictions threshold

EmbeddedModemResetServer is Provisioned

Scenarios

Normal Usage

The user/fleet manager/backend operator requests a Remote Reset.

Post-Condition

CVFMA receives request to trigger Remote Reset operation.

Reset of customer settings, connectivity settings, feature specific settings, feature/subscription unenrollment (if applicable), EmbeddedModemResetServer de-authorization (if applicable), and

EmbeddedModemResetInterfaceClient settings (if applicable)



4.3 EMRv2-FUN-REQ-275661/A-VIN Removal from EmbeddedModemOffBoardClient

4.3.1 Requirements

4.3.1.1 EMR-REQ-275662/C-VIN Removal - Multiple vs Last User

When a VIN removal is performed, different actions shall be taken depending on whether the VIN removed is also registered on other user accounts, or is no longer on any user account:

- 1. Multiple Users: When the VIN removed is still registered to other user accounts, the following shall occur:
 - a. PaaK Revoke process (see REQ-275665)
- 2. Last User: When the VIN removed is no longer registered to any user accounts, the following shall occur::
 - a. ClearUserSettingsCommand (see REQ-275663)
 - i. Including NFC Master Reset (when present)
 - b. AuthorizationStatusChangeCommand (see CCS SPSS)
 - c. PaaK Revoke process (based on de-auth state change, see BLEM PaaK SPSS)

4.3.1.2 EMR-REQ-275663/F-VIN Removal - Clear User Settings Command/Response

Upon a VIN Removal, the EmbeddedModemResetServer shall receive a ClearUserSettingsCommand from the EmbeddedModemResetOffBoardClient.

When received, the EmbeddedModemResetServer shall:

- Clear all internal user settings
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - Note: The same application/service data is cleared for the VIN Removal, Embedded Modem Master Reset, and Brand Connect Reset
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll) from the EmbeddedModemResetOnBoardClient
- Send DigitalKeyReset_Rq = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer (see REQ-429821)
- Send a ClearUserSettingsCommandResponse to the EmbeddedModemResetOffBoardClient upon completion with a status update
 - The EmbeddedModemResetServer shall wait 60s for all requested modules to respond before issuing the ClearUserSettingsCommandResponse. If no response received, 'failed' shall be sent in the CommandResponse.
 - o This response shall include VSTAT information only when the vehicle is authorized (See CCS SPSS for authorization information).

4.3.1.3 EMR-REQ-275665/B-VIN Removal - Remove CAK Command/Response

Upon a VIN Removal, the EmbeddedModemResetServer shall receive a RemoveCAKCommand from the EmbeddedModemResetOffBoardClient.

When received, the EmbeddedModemResetServer shall begin the "Revoke Key" process (see PaaK SPSS) and send a RemoveCAKCommandResponse to the EmbeddedModemResetOffBoardClient upon completion with a status update.

4.3.1.4 EMR-REQ-275650/G-Cleared Data

The feature data to be cleared by the EmbeddedModemResetServer, EmbeddedModemResetInterfaceClient, EmbeddedModemResetOnBoardClient, EmbeddedModemResetKeyServer, EmbeddedModemResetEVServer, EmbeddedModemResetPnCServer, EmbeddedModemResetAdasServer and EmbeddedModemResetNFCServer upon an Embedded Modem Master Reset (per REQ-275645, REQ-479699), VIN Removal (per REQ-275663, REQ-275664, REQ-275665), or a Remote Reset (per REQ-392689, REQ-392690, REQ-392691) may contain settings pertaining to:

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^{*}Please refer to sequence diagram REQ-275668.



- ECG Common Functions
- Embedded Modem Common Functions
- Control My Car
- Vehicle Health Report
- Wifi Hotspot
- In Vehicle Software Update
- Online Traffic
- Connectivity Customer Settings
- PaaK
- NFC Entry & Start
- EV Charge Programming
- DVD
- Plug and Charge
- Driver Assist Settings (ADAS)
- BT/BLE pairing and connection data
- etc.

4.3.1.5 EMR-REQ-275656/C-Buffered AVD Data

The EmbeddedModemResetServer shall remove any buffered AVD data upon an Embedded Modem Master Reset (per REQ-275645, REQ-479699), a VIN Removal (per REQ-275663, REQ-275664, REQ-275665) or a Remote Reset (per REQ-392689, REQ-392690, REQ-392691). Please refer to DVD SPSS for more details on buffered data.

4.3.2 Use Cases

4.3.2.1 EMR-UC-REQ-275666/B-Removal Of VIN From Account

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
Scenario	The user removed VIN from account via Mobile App.
Description	
Post-conditions	CVFMA receives request to trigger Master Reset operation.
	Reset of customer settings, connectivity settings, feature specific settings,
	feature/subscription unenrollment (if applicable) and
	EmbeddedModemResetServer de-authorization (if applicable)
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

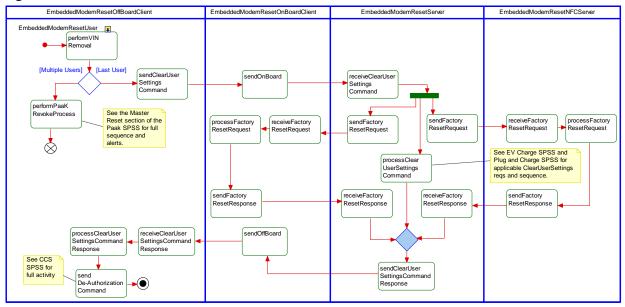
^{**}Note: Please refer to each relevant feature SPSS for details/requirements regarding the specific content/data to be cleared upon a reset.



4.3.3 White Box View

4.3.3.1 EMR-ACT-REQ-275667/D-Removal Of VIN From Account

Activity Diagram



4.3.3.2 EMR-SD-REQ-275668/D-Removal Of VIN From Account

Constraints

Pre-Condition

HMI display is ON

EmbeddedModemResetServer is Provisioned

Scenarios

Normal Usage

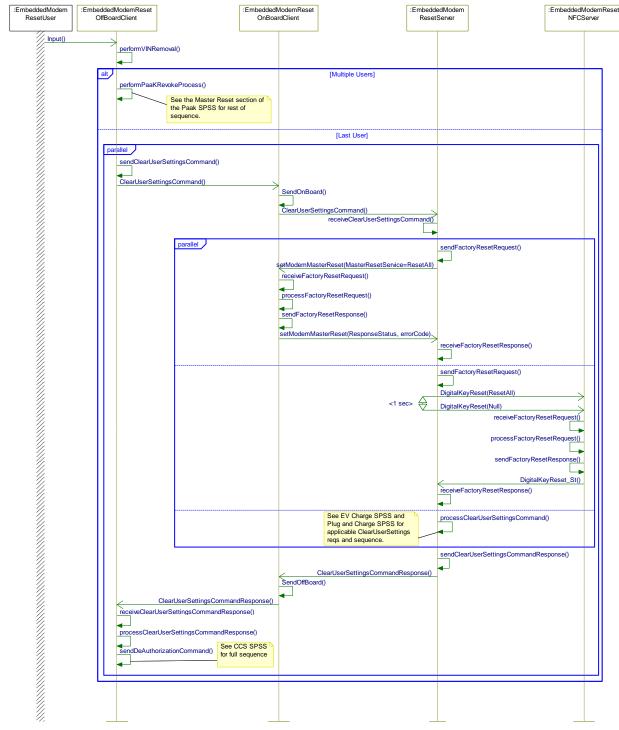
The user removed VIN from account via Mobile App

Post-Condition

CVFMA receives request to trigger Master Reset operation.

Reset of customer settings, connectivity settings, feature specific settings, feature/subscription unenrollment (if applicable) and EmbeddedModemResetServer de-authorization (if applicable)

Sequence Diagram





4.4 EMRv2-FUN-REQ-275669/A-Wifi Hotspot - Embedded Modem Reset

4.4.1 Requirements

4.4.1.1 EMR-REQ-480077/A-Wifi Hotspot Embedded Modem Reset - Preconditions

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall monitor the below conditions to determine whether Wifi Hotspot Reset shall be made available to the user (enabled/disabled). The corresponding NotAvailReason shall be set via resetAvailabilityBroadcast if the listed precondition is not met:

Precondition	NotAvailReason if condition not met
TCUAvailability_St = (0x2) Enable	Modem not available

If all of the above preconditions have been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = WifiHotSpotReset, EnableState = Enabled).

If at least one of the above conditions has not been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = WifiHotSpotReset, EnableState = Disabled, NotAvailReason).

If any of the above conditions are not available or cannot be determined, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = WifiHotSpotReset, EnableState = Not_Available).

4.4.1.2 <u>EMR-REQ-480318/A-Wifi Hotspot Embedded Modem Reset - InterfaceClient notifying</u> EmbeddedModemResetServer

The EmbeddedModemResetInterfaceClient shall send resetRequestBroadcast(ResetRequest = Wifi Hotspot Reset) to the EmbeddedModemResetServer when a Wifi Hotspot Reset is requested by the user.

4.4.1.3 <u>EMR-REQ-275670/A-Wifi Hotspot Embedded Modem Reset - InterfaceClient Request</u>

The EmbeddedModemResetInterfaceClient shall send EmbeddedModemReset_Rq = "(0x1) WifiHotspot_Reset" to the EmbeddedModemResetServer when requested by the user.

4.4.1.4 EMR-REQ-281489/C-Wifi Hotspot Embedded Modem Reset - Server Request

When Primary_Display_Device = FORD_APIM, upon reception of EmbeddedModemReset_Rq = "(0x1) WifiHotspot_Reset" from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall call the API, setModemMasterReset(MasterResetService = 0x1 - ResetWLANOnly), from the EmbeddedModemResetOnBoardClient.

4.4.1.5 EMRv2-REQ-480078/A-Wifi Hotspot Embedded Modem Reset - Server Request v2

When Primary_Display_Device = PHOENIX, upon reception of resetRequestBroadcast(ResetRequest = Wifi Hotspot Reset) from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall call the API, setModemMasterReset(MasterResetService = 0x1 - ResetWLANOnly), from the EmbeddedModemResetOnBoardClient.

4.4.1.6 EMR-REQ-281490/C-Wifi Hotspot Embedded Modem Reset - OnBoardClient Response

Upon completion of the Wifi Hotspot Feature Reset, the EmbeddedModemResetOnBoardClient shall send the setModemMasterReset API response to the EmbeddedModemResetServer indicating:

- ResponseStatus = 0x00 Success, if the reset succedded
- ResponseStatus = 0x01 0x10 Fail, if the reset failed
 - ErrorCode shall be set to any valid code in the event of a failure

4.4.1.7 EMR-REQ-275671/B-Wifi Hotspot Embedded Modem Reset - Server Response

When Primary_Display_Device = FORD_APIM, upon successful completion of the Wifi Hotspot Feature Reset, the EmbeddedModemResetServer shall send EmbeddedModemReset_St = "(0x5) WifiHotspotReset_Complete" to the EmbeddedModemResetInterfaceClient.

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Upon a failed Wifi Hotspot Feature Reset, the EmbeddedModemResetServer shall send EmbeddedModemReset_St = "(0x1) Reset NotComplete" to the EmbeddedModemResetInterfaceClient.

This transmission of the EmbeddedModemReset_St to the EmbeddedModemResetInterfaceClient shall not be delayed or dependent on the transmission of any FTCP alert to the EmbeddedModemResetOffBoardClient.

4.4.1.8 EMR-REQ-480079/A-Wifi Hotspot Embedded Modern Reset - Reset Progress Broadcast

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall publish resetProgressBroadcast() per the below:

- resetProgressBroadcast(ResetType = Wifi Hotspot Reset, ResetStatus = None) when
 - o no reset is actively being processed
 - o this value shall be sent 1 second after having sent a 'Complete' status
- resetProgressBroadcast(ResetType = Wifi Hotspot Reset, ResetStatus = In Progress) when
 - the EmbeddedModemResetServer begins issuing reset requests, until a 'Complete' status has been determined
- resetProgressBroadcast(ResetType = Wifi Hotspot Reset, ResetStatus = Complete Success) upon:
 - o reception of a successful setModemMasterReset API response
- resetProgressBroadcast(ResetType = Wifi Hotspot Reset, ResetStatus = Complete Fail) when:
 - o reception of a failed setModemMasterReset API response
 - o the max time allowed for reset has elapsed (See REQ-479701)

4.4.1.9 EMR-REQ-275647/C-Master & Embedded Modern Reset - Request Handling

Upon receiving a Master Reset or Feature Reset request (via either FactoryReset.Rq or EmbeddedModemReset_Rq or resetRequestBroadcast), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Execute only one reset at any given time
- Ignore the request if an EmbeddedModemInterfaceClient initiated reset request is already being processed
- Queue the request if an EmbeddedModemOffBoardClient initiated reset request is already being processed. The EmbeddedModemResetServer shall process the request only after the ongoing reset has completed.

Upon receiving a ClearUserSettingsCommand (per VIN Removal), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Queue the request if an existing reset request is already in process. The EmbeddedModemResetServer shall
 process the request only after the ongoing reset has completed.

The EmbeddedModemResetServer shall persist all queued reset requests through module restarts, power on/off, ignition cycles, etc.

4.4.1.10 EMR-REQ-275672/A-Wifi Hotspot Embedded Modem Reset - Operational States

The Wifi Hotspot Feature Reset shall only be permitted if the EmbeddedModemResetOnBoardClient is in any of the following states:

"Provisioned"

4.4.1.11 EMR-REQ-275673/A-Wifi Hotspot Embedded Modem Reset - Cleared Data

The feature data to be cleared by the EmbeddedModemResetOnBoardClient upon a Wifi Hotspot Feature Reset (per REQ-275670) shall include all relevant Wifi Hotspot data as defined in the Wifi Hotspot SPSS (see <a href="https://www.weines.com/wfished-embeddedModemResetOnBoardClient upon a Wifi Hotspot Feature Reset (per REQ-275670) shall include all relevant Wifi Hotspot data as defined in the Wifi Hotspot SPSS (see wfishededModemResetOnBoardClient upon a Wifi Hotspot Feature Reset (per REQ-275670) shall include all relevant Wifi Hotspot data as defined in the Wifi Hotspot SPSS (see wfishededModemResetOnBoardClient upon a Wifi Hotspot SPSS (see wfishededModemResetOnBoardClient upon a Wifi Hotspot SPSS (see wfishededModemResetOnBoardClient upon a Wifi Hotspot SPSS (see wfishedmodemResetOnBoardClient upon a wifi Hotspot SPSS (see wfishedmodemResetOnBoardClient upon a wifi Hotspot SPSS (see wfishedmodemResetOnBoardClient upon a wifi Hotspot SPSS (see <a href="https://

4.4.1.12 EMR-HMI-REQ-275674/A-Wifi Hotspot Embedded Modem Reset - User Input

The EmbeddedModemResetInterfaceClient shall provide a user interface (button/graphic) to perform the Wifi Hotspot Feature Reset.

^{**}Please refer to each feature SPSS for details on the specific settings.



4.4.1.13 EMR-HMI-REQ-275675/A-Wifi Hotspot Embedded Modem Reset - User Input Enable/Disable

The EmbeddedModemResetInterfaceClient shall enable/disable (show/hide, grey-out, etc.) the Wifi Hotspot Feature Reset user interface (button/graphic) based on the following:

- When TCUAvailability_St = (0x2) Enable, the above shall be enabled
- When TCUAvailability_St != (0x2) Enable, the above shall be disabled (greyed-out, hidden, etc.)
 - o If TCUAvailability_St is unavailable or missing on the bus, the above shall be disabled (greyed-out, hidden, etc.)

4.4.1.14 EMRv2-HMI-REQ-480317/A-Wifi Hotspot Embedded Modern Reset - User Input Enable/Disable v2

The EmbeddedModemResetInterfaceClient shall enable/disable the Wifi Hotspot Reset user interface (button/graphic) based on resetAvailabilityBroadcast received from the EmbeddedModemResetServer:

- If resetAvailabilityBroadcast(ResetType = WifiHotSpotReset, EnableState = Enabled), the Wifi Hotspot Reset user interface shall be enabled
- If resetAvailabilityBroadcast(ResetType = WifiHotSpotReset, EnableState = Disabled, NotAvailReason), the Wifi
 Hotspot Reset user interface shall be disabled
- If resetAvailabilityBroadcast(ResetType = WifiHotSpotReset, EnableState = Not_Available), the Wifi Hotspot Reset user interface shall be made unavailable (ex. spinning wheel)

If resetAvailabilityBroadcast(ResetType = WifiHotSpotReset, EnableState = Disabled, NotAvailReason) while the user selects the user interface (button/graphic), the EmbeddedModemResetInterfaceClient shall display a notification to the user corresponding to the reason provided via NotAvailReason.

4.4.1.15 EMR-REQ-480319/A-Wifi Hotspot Embedded Modern Reset - Progress Indication

The EmbeddedModemResetInterfaceClient shall receive resetProgressBroadcast(ResetType = Wifi Hotspot_Reset, ResetStatus) from the EmbeddedModemResetServer indicating the status of the indicated reset.

- When resetProgressBroadcast(ResetType = Wifi Hotspot_Reset, ResetStatus = InProgress) the EmbeddedModemResetInterfaceClient shall display an 'In Progress' screen
- When resetProgressBroadcast(ResetType = Wifi Hotspot_Reset, ResetStatus = Complete Success) the EmbeddedModemResetInterfaceClient shall display a 'Reset Success' screen
- When resetProgressBroadcast(ResetType = Wifi Hotspot_Reset, ResetStatus = Complete Fail) the EmbeddedModemResetInterfaceClient shall display a 'Reset Failed screen

If the EmbeddedModemResetInterfaceClient does not receive a 'Complete' status via resetProgressBroadcast from the EmbeddedModemResetServer within T_Final (50s) of the initial reset request (per REQ-480318), the EmbeddedModemResetInterfaceClient shall consider the reset 'Complete – Fail' and display a 'Reset Failed' screen.

4.4.1.16 EMR-REQ-275654/B-Master & Embedded Modem Reset - Completion Time

When Primary_Display_Device = FORD_APIM, the EmbeddedModemResetServer and EmbeddedModemResetOnBoardClient shall remove all PII and application specific data within 45 seconds.

If this process fails to complete within the above time for any of the Embedded Modem Feature Resets, the EmbeddedModemResetServer shall respond to the EmbeddedModemResetInterfaceClient with EmbeddedModemReset_St = "(0x1) Reset_NotComplete".

4.4.1.17 EMRv2-REQ-479701/A-Master & Embedded Modem Reset - Completion Time v2

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer and EmbeddedModemResetOnBoardClient shall remove all PII and application specific data within 45 seconds.

If this process fails to complete within the above time for any of the Embedded Modem Feature Resets, the EmbeddedModemResetServer shall send resetProgressBroadcast(ResetType, ResetStatus = Complete - Fail) to the EmbeddedModemResetInterfaceClient for the requested ResetType.

4.4.2 Use Cases

4.4.2.1 EMR-UC-REQ-275676/A-WifiHotspot Embedded Modem Reset

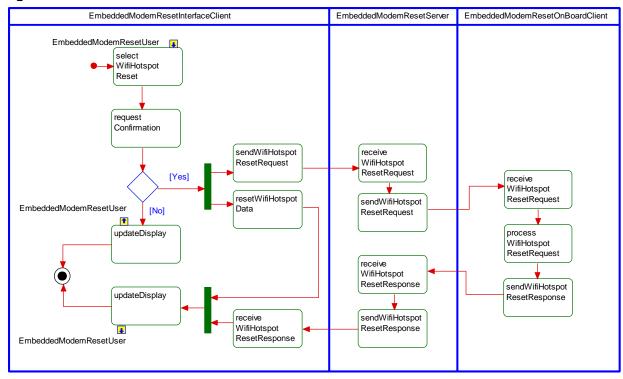


Actors	Vehicle occupant
Pre-conditions	HMI display is ON
Scenario	The user selects <wifi hotspot="" reset=""> via HMI.</wifi>
Description	·
Post-conditions	All applicable Wifi Hotspot settings are restored to the factory defaults or last
	stored values (refer to the Wifi Hotspot SPSS for applicable settings).
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.4.3 White Box View

4.4.3.1 EMR-ACT-REQ-275677/A-Wifi Hotspot Embedded Modem Reset

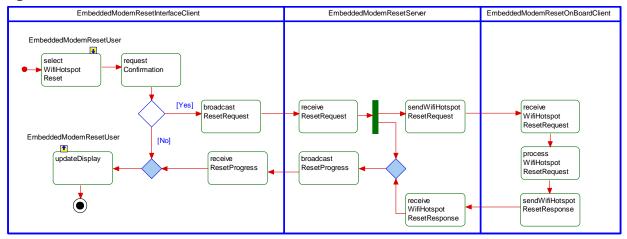
Activity Diagram





4.4.3.2 EMRv2-ACT-REQ-480557/A-Wifi Hotspot Embedded Modem Reset v2

Activity Diagram



4.4.3.3 EMR-SD-REQ-275678/B-Wifi Hotspot Embedded Modem Reset

Constraints

Pre-Condition

HMI display is ON

Scenarios

Normal Usage

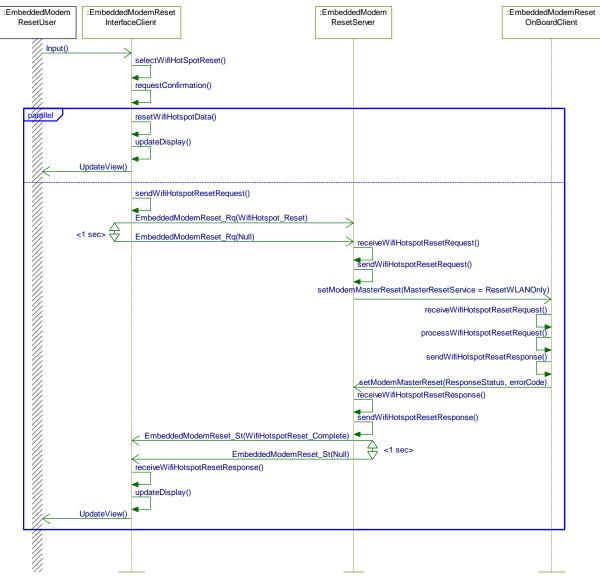
The user selects <Wifi Hotspot Reset> via HMI

Post-Condition

All applicable Wifi Hotspot settings are restored to the factory defaults or last stored values



Sequence Diagram



4.4.3.4 EMRv2-SD-REQ-480558/A-Wifi Hotspot Embedded Modem Reset v2

Constraints

Pre-Condition

HMI display is ON

Scenarios

Normal Usage

The user selects <Wifi Hotspot Reset> via HMI

Post-Condition

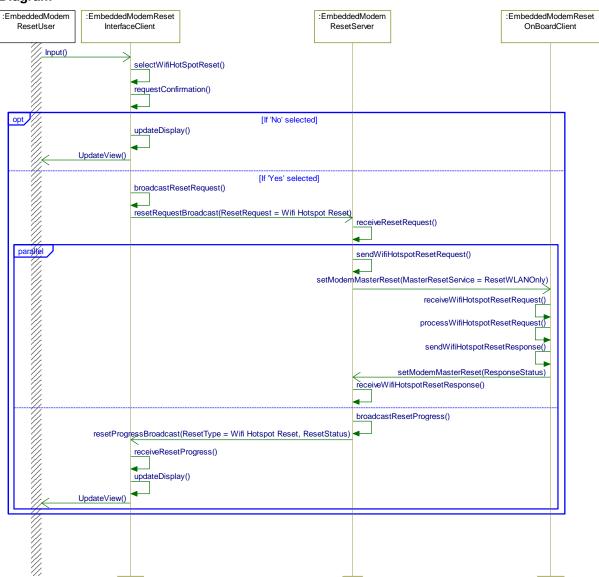
All applicable Wifi Hotspot settings are restored to the factory defaults or last stored values



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Sequence Diagram





4.5 EMRv2-FUN-REQ-275679/A-Phone-As-A-Key - Embedded Modem Reset

4.5.1 Requirements

4.5.1.1 EMR-REQ-480097/A-PaaK Embedded Modem Reset - Preconditions

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall monitor the below conditions to determine whether PaaK Reset shall be made available to the user (enabled/disabled). The corresponding NotAvailReason shall be set via resetAvailabilityBroadcast if the listed precondition is not met:

Precondition	NotAvailReason if condition not met
Dook FON Ct/DL FMDrov DID = "(0x52) Doody Fort/ox Dolivion " OD	
PaakESN_St/BLEMProvDID = "(0x53) ReadyForKeyDelivery", OR PaakESN_St/BLEMProvDID = "(0x54) KeyDelivered"	No PaaK Created
IgnitionStatus_St = Run	Not in Run
VehicleSpeed_St is less than 5mph (Driving Restrictions threshold)	Speed Exceeded
VehicleStartKeyType_St = Factory, AND	User Key Started Vehicle
VehicleStartKeySource_St != Digital_Key	
IgnKeyType_D_Actl != "(0x2) Key_In_Ign_MyKey"	MyKey Started Vehicle

- If IgnKeyType_D_Actl is not on the bus when ignition does not equal Run (ex Acc, Delay Acc, extended play), the EmbeddedModemResetServer shall assume the last signal state received
- If VehicleStartKeyType_St or VehicleStartKeySource become missing their values cannot be determined, the EmbeddedModemResetServer shall omit this precondition (do not consider for disabling the reset).

If all of the above preconditions have been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = PaaKReset, EnableState = Enabled).

If at least one of the above conditions has not been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = PaaKReset, EnableState = Disabled, NotAvailReason).

If any of the above conditions are not available or cannot be determined, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = PaaKReset, EnableState = Not_Available).

4.5.1.2 EMR-REQ-275680/B-PaaK Embedded Modem Reset - InterfaceClient Request

The EmbeddedModemResetInterfaceClient shall send EmbeddedModemReset_Rq = "(0x2) PaaK_Reset" to the EmbeddedModemResetKeyServer when requested by the user.

4.5.1.3 EMR-REQ-480338/A-PaaK Embedded Modem Reset - InterfaceClient notifying EmbeddedModemResetServer

The EmbeddedModemResetInterfaceClient shall send resetRequestBroadcast(ResetRequest = PaaK Reset) to the EmbeddedModemResetServer when a PaaK Reset is requested by the user.

4.5.1.4 EMR-REQ-281570/C-PaaK Embedded Modem Reset - Server Request

When Primary_Display_Device = FORD_APIM, upon reception of EmbeddedModemReset_Rq = (0x2) PaaK_Reset" from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall:

• Begin monitoring the response from the EmbeddedModemResetKeyServer to determine success/fail (per REQ-275682)

4.5.1.5 EMRv2-REQ-480098/A-PaaK Embedded Modem Reset - Server Request v2

When Primary_Display_Device = PHOENIX, upon reception of resetRequestBroadcast(ResetRequest = PaaK Reset) from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall:

Send setSyncReset(ResetService = 0x5 – PaaK Reset) to the EmbeddedModemResetInterfaceClient

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- If setSyncResetConfirm(ConfirmStatus = Fail) is received from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall attempt one retry. If that retry also results in a Fail response, the reset shall be aborted and considered a Failure.
- Begin monitoring the response from the EmbeddedModemResetKeyServer to determine success/fail (per REQ-275682)

4.5.1.6 EMR-REQ-480339/A-PaaK Embedded Modem Reset - InterfaceClient Issuing Reset Request

Upon receiving setSyncReset(ResetService = 0x5 – PaaK Reset), the EmbeddedModemResetInterfaceClient shall send EmbeddedModemReset_Rq = "(0x2) PaaK_Reset" to the EmbeddedModemResetKeyServer.

4.5.1.7 EMR-REQ-480340/A-PaaK Embedded Modem Reset - InterfaceClient Reset Response

After sending EmbeddedModemReset_Rq per REQ-480339, the EmbeddedModemResetInterfaceClient shall send setSyncResetConfirm(ConfirmStatus) to the EmbeddedModemResetServer indicating:

- ConfirmStatus = 0x0 Success, if the request was successfully sent
- ConfirmStatus = 0x1 Fail, if the request failed to be sent

4.5.1.8 EMR-REQ-281571/A-PaaK Embedded Modem Reset - KeyServer Response

The EmbeddedModemResetKeyServer shall perform the PaaK Reset and respond with PaaKInfo_Rsp (indicating the resulting Opcode and KeyProgress) within T_RevokeRspWait after receiving a PaaK Reset request.

4.5.1.9 EMR-REQ-275681/B-PaaK Embedded Modem Reset - Server Response

When Primary_Display_Device = FORD_APIM, upon successful completion of a PaaK Reset (see REQ-275682), the EmbeddedModemResetServer shall send EmbeddedModemReset_St = "(0x2) PaaKReset_Complete" to the EmbeddedModemResetInterfaceClient.

Upon a failed PaaK Reset (see REQ-275682), the EmbeddedModemResetServer shall send EmbeddedModemReset_St = "(0x1) Reset_NotComplete" to the EmbeddedModemResetInterfaceClient.

This transmission of the EmbeddedModemReset_St to the EmbeddedModemResetInterfaceClient shall not be delayed or dependent on the transmission of any FTCP alert to the EmbeddedModemResetOffBoardClient.

4.5.1.10 EMR-REQ-480099/A-PaaK Embedded Modem Reset - Reset Progress Broadcast

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall publish resetProgressBroadcast() per the below:

- resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus = None) when
 - o no reset is actively being processed
 - o this value shall be sent 1 second after having sent a 'Complete' status
- resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus = In Progress) when
 - the EmbeddedModemResetServer begins issuing reset requests, until a 'Complete' status has been determined
- resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus = Complete Success) upon:
 - successful completion of a PaaK Reset as per REQ-275682
- resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus = Complete Fail) when:
 - o failure to complete the PaaK Reset as per REQ-275682
 - o failure to send the PaaK Reset as per REQ-480099

4.5.1.11 EMR-REQ-275647/C-Master & Embedded Modern Reset - Reguest Handling

Upon receiving a Master Reset or Feature Reset request (via either FactoryReset.Rq or EmbeddedModemReset_Rq or resetRequestBroadcast), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Execute only one reset at any given time
- Ignore the request if an EmbeddedModemInterfaceClient initiated reset request is already being processed
- Queue the request if an EmbeddedModemOffBoardClient initiated reset request is already being processed. The EmbeddedModemResetServer shall process the request only after the ongoing reset has completed.



Upon receiving a ClearUserSettingsCommand (per VIN Removal), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Queue the request if an existing reset request is already in process. The EmbeddedModemResetServer shall
 process the request only after the ongoing reset has completed.

The EmbeddedModemResetServer shall persist all queued reset requests through module restarts, power on/off, ignition cycles, etc.

4.5.1.12 EMR-REQ-275682/B-PaaK Embedded Modem Reset - Determine Reset Fail/Success

For a PaaK Reset to be deemed successful, the EmbeddedModemResetKeyServer must successfully revoke all PaaK's and report this to the EmbeddedModemResetServer. In order to determine and properly notify the EmbeddedModemInterfaceClient, the EmbeddedModemResetServer shall monitor PaaKInfo_Rsp for up to T_RevokeRspWait after receiving a PaaK Reset request.

If PaaKInfo_Rsp is received with:

- Opcode = "Revoke All Keys (0x4)" and
- KeyProgress = "Success (0x1)"

then the EmbeddedModemResetServer shall send a "success" response to the EmbeddedModemResetInterfaceClient as detailed in REQ-275681 or REQ-480099.

If PaaKInfo_Rsp is received with any other Opcode or KeyProgress values, then the EmbeddedModemResetServer shall send a "failed" response to the EmbeddedModemResetInterfaceClient as detailed in REQ-275681 or REQ-480099.

If a PaaKInfo_Rsp is not received within T_RevokeRspWait (with a CES of any "Final Result"), then the EmbeddedModemResetServer shall send a "failed" response to the EmbeddedModemResetInterfaceClient as detailed in REQ-275681 or REQ-480099.

Note: The signal above is a TP Signal, please refer to the ECG Transport Protocol SPSS for more information.

4.5.1.13 EMR-TMR-REQ-275683/A-T_RevokeRspWait

Name	Description	Units	Range	Resolution	Default
T_RevokeRspWait	The maximum amount of time the EmbeddedModemResetServer shall wait for PaaKInfo_Rsp before reporting "failed" to the EmbeddedModemInterfaceClient.	sec	55-75	5	65
	Note: Use default value.				

4.5.1.14 EMR-REQ-275684/B-PaaK Embedded Modem Reset - Operational States

The PaaK Feature Reset shall only be permitted if the EmbeddedModemResetServer is in any of the following states:

"Provisioned"

4.5.1.15 EMR-REQ-275685/A-PaaK Embedded Modem Reset - Cleared Data

The feature data to be cleared by the EmbeddedModemResetKeyServer upon a PaaK Feature Reset (per REQ-281570) shall include all relevant PaaK data as defined in the PaaK SPSS (see <u>PaaK-REQ-234407-Master Reset</u>).

**Please refer to each feature SPSS for details on the specific settings.

4.5.1.16 EMR-HMI-REQ-275686/A-PaaK Embedded Modem Reset - User Input

The EmbeddedModemResetInterfaceClient shall provide a user interface (button/graphic) to perform the PaaK Feature Reset.

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4.5.1.17 EMR-HMI-REQ-275687/A-PaaK Embedded Modem Reset - User Input Enable/Disable

The EmbeddedModemResetInterfaceClient shall enable/disable (make active/inactive, grey-out) the PaaK Feature Reset user interface (button/graphic) based on the following:

- When PaakESN_St/BLEMProvDID = "(0x53) ReadyForKeyDelivery", OR PaakESN_St/BLEMProvDID = "(0x54) KeyDelivered" the above shall be enabled
- When PaakESN_St/BLEMProvDID != "(0x53) ReadyForKeyDelivery", OR
 PaakESN_St/BLEMProvDID != "(0x54) KeyDelivered" the above shall be disabled (greyed-out, hidden, etc.)

Note: The signal above is a TP Signal, please refer to the APIM Transport Protocol SPSS for more information.

4.5.1.18 EMRv2-HMI-REQ-480337/A-PaaK Embedded Modem Reset - User Input Enable/Disable v2

The EmbeddedModemResetInterfaceClient shall enable/disable the PaaK Reset user interface (button/graphic) based on resetAvailabilityBroadcast received from the EmbeddedModemResetServer:

- If resetAvailabilityBroadcast(ResetType = PaaKReset, EnableState = Enabled), the PaaK Reset user interface shall be enabled
- If resetAvailabilityBroadcast(ResetType = PaaKReset, EnableState = Disabled, NotAvailReason), the PaaK Reset user interface shall be disabled
- If resetAvailabilityBroadcast(ResetType = PaaKReset, EnableState = Not_Available), the PaaK Reset user interface shall be made unavailable (ex. spinning wheel)

If resetAvailabilityBroadcast(ResetType = PaaKReset, EnableState = Disabled, NotAvailReason) while the user selects the user interface (button/graphic), the EmbeddedModemResetInterfaceClient shall display a notification to the user corresponding to the reason provided via NotAvailReason.

4.5.1.19 EMR-REQ-480341/A-PaaK Embedded Modem Reset - Progress Indication

The EmbeddedModemResetInterfaceClient shall receive resetProgressBroadcast(ResetType = PaaK_Reset, ResetStatus) from the EmbeddedModemResetServer indicating the status of the indicated reset.

- When resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus = InProgress) the EmbeddedModemResetInterfaceClient shall display an 'In Progress' screen
- When resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus = Complete Success) the EmbeddedModemResetInterfaceClient shall display a 'Reset Success' screen
- When resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus = Complete Fail) the EmbeddedModemResetInterfaceClient shall display a 'Reset Failed screen

If the EmbeddedModemResetInterfaceClient does not receive a 'Complete' status via resetProgressBroadcast from the EmbeddedModemResetServer within T_Final (50s) of the initial reset request (per REQ-480338), the EmbeddedModemResetInterfaceClient shall consider the reset 'Complete – Fail' and display a 'Reset Failed' screen.

4.5.1.20 EMR-REQ-275688/D-PaaK Embedded Modem Reset - FTCP Alert

Upon completing the PaaK Feature Reset and successful confirmation of a PaaK Revoke operation (see PaaK SPSS), the EmbeddedModemResetServer shall send a CAKStatusAlert to the EmbeddedModemResetOffBoardClient indicating the change (revoke, and reason for revoke).

This alert shall include VSTAT information only when the vehicle is authorized (See CCS SPSS for authorization information).

4.5.2 Use Cases

4.5.2.1 EMR-UC-REQ-275689/A-PaaK Embedded Modem Reset

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
Scenario	The user selects <phone-as-a-key reset=""> via HMI.</phone-as-a-key>
Description	, in the second of the second

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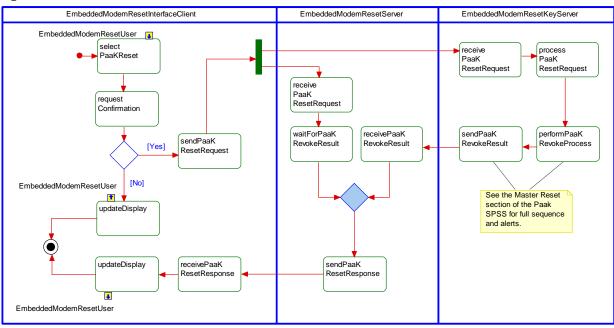


Post-conditions	All applicable Phone-As-A-Key settings are restored to the factory defaults (refer to the PaaK SPSS for applicable settings).
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.5.3 White Box View

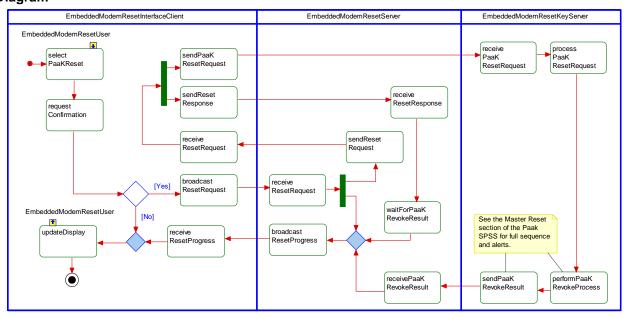
4.5.3.1 EMR-ACT-REQ-275690/B-PaaK Embedded Modem Reset

Activity Diagram



4.5.3.2 EMRv2-ACT-REQ-480559/A-PaaK Embedded Modem Reset v2

Activity Diagram





4.5.3.3 EMR-SD-REQ-275691/B-PaaK Embedded Modem Reset

Constraints

Pre-Condition

HMI display is ON

Scenarios

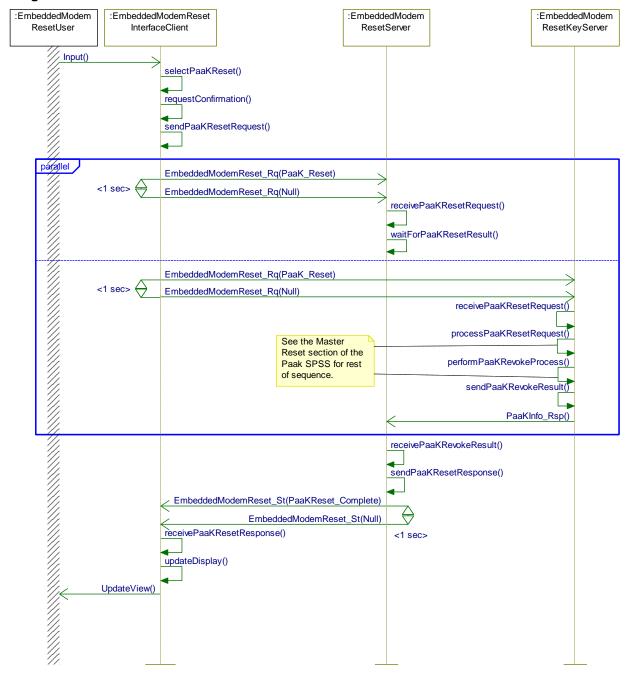
Normal Usage

The user selects <Phone-As-A-Key Reset> via HMI

Post-Condition

All applicable Phone-As-A-Key settings are restored to the factory defaults

Sequence Diagram







4.5.3.4 EMRv2-SD-REQ-480560/A-PaaK Embedded Modem Reset v2

Constraints

Pre-Condition

HMI display is ON

Scenarios

Normal Usage

The user selects <Phone-As-A-Key Reset> via HMI

Post-Condition

All applicable Phone-As-A-Key settings are restored to the factory defaults

resetProgressBroadcast(ResetType = PaaK Reset, ResetStatus)

receiveResetProgress()

updateDisplay()

UpdateView()

PaaKInfo_Rsp()

receivePaaKRevokeResult()

broadcastResetProgress()



4.6 EMR-FUN-REQ-290254/A-Brand Connect - Embedded Modem Reset

This feature reset allows the user to reset all settings for the supported Embedded Modem Features without affecting the settings of any other clients or servers (ex. SYNC, AHU, DSP, etc.). The name "Brand Connect" refers to the "{Brand} Connect" dynamic label text detailed in H31a, which changes dynamically based on Ford or Lincoln configurations.

4.6.1 Requirements

4.6.1.1 EMR-REQ-480117/A-Brand Connect Embedded Modem Reset1 - Preconditions

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall monitor the below conditions to determine whether Brand Connect Reset1 shall be made available to the user (enabled/disabled). The corresponding NotAvailReason shall be set via resetAvailabilityBroadcast if the listed precondition is not met:

Precondition	NotAvailReason if condition		
	not met		
IgnitionStatus_St = Run	Not in Run		
GearLeverPosition_St = Park	Not in Park		
VehicleSpeed_St is less than 5mph (Driving Restrictions threshold)	Speed Exceeded		
VehicleStartKeyType_St = Factory, AND	User Key Started Vehicle		
VehicleStartKeySource_St != Digital_Key			
IgnKeyType_D_Actl != "(0x2) Key_In_Ign_MyKey"	MyKey Started Vehicle		

- If IgnKeyType_D_ActI is not on the bus when ignition does not equal Run (ex Acc, Delay Acc, extended play), the EmbeddedModemResetServer shall assume the last signal state received
- If VehicleStartKeyType_St or VehicleStartKeySource become missing their values cannot be determined, the EmbeddedModemResetServer shall omit this precondition (do not consider for disabling the reset).

If all of the above preconditions have been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = BrandConnectReset1, EnableState = Enabled).

If at least one of the above conditions has not been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = BrandConnectReset1, EnableState = Disabled, NotAvailReason).

If any of the above conditions are not available or cannot be determined, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = BrandConnectReset1, EnableState = Not_Available).

4.6.1.2 EMR-REQ-480118/A-Brand Connect Embedded Modern Reset2 - Preconditions

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall monitor the below conditions to determine whether Brand Connect Reset2 shall be made available to the user (enabled/disabled). The corresponding NotAvailReason shall be set via resetAvailabilityBroadcast if the listed precondition is not met:

Precondition	NotAvailReason if condition		
	not met		
IgnitionStatus_St = Run	Not in Run		
GearLeverPosition_St = Park	Not in Park		
VehicleSpeed_St is less than 5mph (Driving Restrictions threshold)	Speed Exceeded		
VehicleStartKeyType_St = Factory, AND	User Key Started Vehicle		
VehicleStartKeySource_St != Digital_Key			
IgnKeyType_D_Actl != "(0x2) Key_In_Ign_MyKey"	MyKey Started Vehicle		

• If IgnKeyType_D_Actl is not on the bus when ignition does not equal Run (ex Acc, Delay Acc, extended play), the EmbeddedModemResetServer shall assume the last signal state received

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• If VehicleStartKeyType_St or VehicleStartKeySource become missing their values cannot be determined, the EmbeddedModemResetServer shall omit this precondition (do not consider for disabling the reset).

If all of the above preconditions have been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = BrandConnectReset2, EnableState = Enabled).

If at least one of the above conditions has not been met, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = BrandConnectReset2, EnableState = Disabled, NotAvailReason).

If any of the above conditions are not available or cannot be determined, the EmbeddedModemResetServer shall set resetAvailabilityBroadcast(ResetType = BrandConnectReset2, EnableState = Not_Available).

4.6.1.3 EMR-REQ-290255/B-Brand Connect Embedded Modem Reset - InterfaceClient Request

The EmbeddedModemResetInterfaceClient shall send EmbeddedModemReset_Rq to the EmbeddedModemResetServer, EmbeddedModemResetKeyServer, and EmbeddedModemResetEVServer with the below values, under the following cases:

- EmbeddedModemReset Rg = "(0x5) BrandConnect Reset1"
 - When the user perfoms a Brand Connect Reset and the EmbeddedModemResetInterfaceClient is not configured for a HEV, BEV, or PHEV, OR
 - When the user confirms they wish to clear all EV Charge Settings with their Brand Connect Reset (when configured for HEV, BEV, or PHEV)
- EmbeddedModemReset_Rq = "(0x6) BrandConnect_Reset2"
 - When the user confirms they wish to retain all EV Charge Settings with their Brand Connect Reset (when configured for HEV, BEV, or PHEV)

Note: Please see rule [H72a.R352] or [H72c.R352] for the relevant Hybrid vehicle type configurations.

4.6.1.4 <u>EMR-REQ-480359/A-Brand Connect Embedded Modern Reset1 - InterfaceClient notifying</u> EmbeddedModernResetServer

The EmbeddedModemResetInterfaceClient shall send resetRequestBroadcast(ResetRequest = Brand Connect Reset1) to the EmbeddedModemResetServer when a Brand Connect Reset1 is requested by the user.

4.6.1.5 <u>EMR-REQ-480360/A-Brand Connect Embedded Modem Reset2 - InterfaceClient notifying</u> EmbeddedModemResetServer

The EmbeddedModemResetInterfaceClient shall send resetRequestBroadcast(ResetRequest = Brand Connect Reset2) to the EmbeddedModemResetServer when a Brand Connect Reset2 is requested by the user.

4.6.1.6 EMR-REQ-290272/E-Brand Connect Embedded Modem Reset - Server Request

When Primary_Display_Device = FORD_APIM, upon reception of EmbeddedModemReset_Rq= "(0x5) BrandConnect_Reset1" OR "(0x6) BrandConnect_Reset2" from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall:

- Perform the Brand Connect Reset for any applicable internal features/functions (see REQ-290258)
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - Note: The same application/service data is cleared for the Brand Connect Reset, Embedded Modem Master Reset, and VIN Removal
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll) from the EmbeddedModemResetOnBoardClient.
- Send DigitalKeyReset Rg = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer (see REQ-429821)

4.6.1.7 EMRv2-REQ-480119/A-Brand Connect Embedded Modem Reset1 - Server Request v2

When Primary_Display_Device = PHOENIX, upon reception of resetRequestBroadcast(ResetRequest = Brand Connect Reset1) from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall:

Perform the Brand Connect Reset for any applicable internal features/functions (see REQ-290258)



- This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
- Note: The same application/service data is cleared for the Brand Connect Reset, Embedded Modem Master Reset, and VIN Removal
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll) from the EmbeddedModemResetOnBoardClient.
- Call the API, setSyncReset(ResetService = 0x2 Brand Connect Reset1) from the EmbeddedModemResetInterfaceClient (see REQ-429821)
- Send DigitalKeyReset Rq = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer (see REQ-429821)
- Send OffboardChargeClearAll Rq = "(0x1) Request" to EmbeddedModemResetEVServer (see REQ-429821)
 - See EVCS-FUN-REQ-309463-Master Reset
- Send DgtlCommPnc_Rq = "(0x1) Reset" to EmbeddedModemResetPnCServer (see REQ-429821)
 - See PNC-FUN-REQ-326625-Master Reset

4.6.1.8 EMRv2-REQ-480120/A-Brand Connect Embedded Modern Reset2 - Server Request v2

When Primary_Display_Device = PHOENIX, upon reception of resetRequestBroadcast(ResetRequest = Brand Connect Reset2) from the EmbeddedModemResetInterfaceClient, the EmbeddedModemResetServer shall:

- Perform the Brand Connect Reset for any applicable internal features/functions (see REQ-290258)
 - This means internally notifying other applications/services in the EmbeddedModemResetServer that a reset is to be performed. Each application/service is responsible for clearing their own data
 - Note: The same application/service data is cleared for the Brand Connect Reset, Embedded Modem Master Reset, and VIN Removal
- Call the API, setModemMasterReset(MasterResetService = 0x0 ResetAll) from the EmbeddedModemResetOnBoardClient.
- Call the API, setSyncReset(ResetService = 0x3 Brand Connect Reset2) from the EmbeddedModemResetInterfaceClient (see REQ-429821)
- Send DigitalKeyReset Rg = "(0x1) ResetAll" to the EmbeddedModemResetNFCServer (see REQ-429821)

4.6.1.9 EMRv2-REQ-480361/A-Brand Connect Embedded Modern Reset - InterfaceClient Request v2

Upon reception of setSyncReset(ResetService), the EmbeddedModemResetInterfaceClient shall send EmbeddedModemReset Rq accordingly:

- If setSyncReset(ResetService = 0x2 Brand Connect Reset1), the EmbeddedModemResetInterfaceClient shall send EmbeddedModemReset Rq = "(0x5) BrandConnect Reset1"
- If setSyncReset(ResetService = 0x3 Brand Connect Reset2), the EmbeddedModemResetInterfaceClient shall send EmbeddedModemReset_Rq = "(0x6) BrandConnect_Reset2"

The EmbeddedModemResetInterfaceClient shall then send setSyncResetConfirm(ConfirmStatus) indicating the successful or failed transmission of EmbeddedModemReset_Rq.

Note: Although EmbeddedModemReset_Rq is received by the EmbeddedModemResetServer, EmbeddedModemResetEVServer, and EmbeddedModemResetKeyServer, this shall only be acted upon by the EmbeddedModemResetKeyServer.

4.6.1.10 EMR-REQ-480121/A-Brand Connect Embedded Modem Reset1 - Reset Progress Broadcast

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall send resetProgressBroadcast() per the below:

- resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = None) when
 - no reset is actively being processed
 - o this value shall be sent 1 second after having sent a 'Complete' status
- resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = In Progress) when
 - the EmbeddedModemResetServer begins issuing reset requests, until a 'Complete' status has been determined
- resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = Complete Success) upon:
 - o completion of the Brand Connect Reset, AND
 - reception of a successful setModemMasterReset API response (if in a Connected Market, see REQ-381350), AND

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- o reception of a successful DigitalKeyReset_St (see REQ-429821), AND
- o reception of PnCStat_St = 0x1 (see REQ-429821)
- resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = Complete Fail) when:
 - o any of the conditions listed for 'Complete Success' above has failed
 - o the max time allowed for reset has elapsed (See REQ-479701)

4.6.1.11 EMR-REQ-480122/A-Brand Connect Embedded Modem Reset2 - Reset Progress Broadcast

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer shall send resetProgressBroadcast() per the below:

- resetProgressBroadcast(ResetType = Brand Connect Reset2, ResetStatus = None) when
 - o no reset is actively being processed
 - o this value shall be sent 1 second after having sent a 'Complete' status
- resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = In Progress) when
 - the EmbeddedModemResetServer begins issuing reset requests, until a 'Complete' status has been determined
- resetProgressBroadcast(ResetType = Brand Connect Reset2, ResetStatus = Complete Success) upon:
 - o completion of the Brand Connect Reset, AND
 - reception of a successful setModemMasterReset API response (if in a Connected Market, see REQ-381350), AND
 - o reception of a successful DigitalKeyReset_St (see REQ-429821)
- resetProgressBroadcast(ResetType = Brand Connect Reset2, ResetStatus = Complete Fail) when:
 - o any of the conditions listed for 'Complete Success' above has failed
 - o the max time allowed for reset has elapsed (See REQ-479701)

4.6.1.12 EMR-REQ-480362/A-Brand Connect Embedded Modem Reset1 - Progress Indication

The EmbeddedModemResetInterfaceClient shall receive resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus) from the EmbeddedModemResetServer indicating the status of the indicated reset.

- When resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = InProgress) the EmbeddedModemResetInterfaceClient shall display an 'In Progress' screen
- When resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = Complete Success) the EmbeddedModemResetInterfaceClient shall display a 'Reset Success' screen
- When resetProgressBroadcast(ResetType = Brand Connect Reset1, ResetStatus = Complete Fail) the EmbeddedModemResetInterfaceClient shall display a 'Reset Failed screen

If the EmbeddedModemResetInterfaceClient does not receive a 'Complete' status via resetProgressBroadcast from the EmbeddedModemResetServer within T_Final (50s) of the initial reset request (per REQ-480359), the EmbeddedModemResetInterfaceClient shall consider the reset 'Complete – Fail' and display a 'Reset Failed' screen.

4.6.1.13 EMR-REQ-480363/A-Brand Connect Embedded Modem Reset2 - Progress Indication

The EmbeddedModemResetInterfaceClient shall receive resetProgressBroadcast(ResetType = Brand Connect Reset2, ResetStatus) from the EmbeddedModemResetServer indicating the status of the indicated reset.

- When resetProgressBroadcast(ResetType = Brand Connect Reset2, ResetStatus = InProgress) the EmbeddedModemResetInterfaceClient shall display an 'In Progress' screen
- When resetProgressBroadcast(ResetType = Brand Connect Reset2, ResetStatus = Complete Success) the EmbeddedModemResetInterfaceClient shall display a 'Reset Success' screen
- When resetProgressBroadcast(ResetType = Brand Connect Reset2, ResetStatus = Complete Fail) the EmbeddedModemResetInterfaceClient shall display a 'Reset Failed screen

If the EmbeddedModemResetInterfaceClient does not receive a 'Complete' status via resetProgressBroadcast from the EmbeddedModemResetServer within T_Final (50s) of the initial reset request (per REQ-480360), the EmbeddedModemResetInterfaceClient shall consider the reset 'Complete – Fail' and display a 'Reset Failed' screen.

4.6.1.14 EMR-REQ-290256/B-Brand Connect Embedded Modem Reset - Response

When Primary_Display_Device = FORD_APIM, no response is required upon completion of the Brand Connect Embedded Modem Reset from the EmbeddedModemResetServer, EmbeddedModemResetKeyServer, or EmbeddedModemResetEVServer.

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4.6.1.15 EMR-REQ-281278/D-Embedded Modern Reset - OnBoardClient Response

Upon completion of the Embedded Modern Reset, the EmbeddedModernResetOnBoardClient shall send the setModernMasterReset API response to the EmbeddedModernResetServer indicating:

- ResponseStatus = 0x00 Success, if the reset succeeded
- ResponseStatus = 0x01 0x10 Fail, if the reset failed
 - o ErrorCode shall be set to any valid code in the event of a failure

4.6.1.16 <u>EMR-REQ-429822/A-Embedded Modem Reset - EmbeddedModemResetNFCServer Response</u>

Upon completion of the Embedded Modem Master Reset, the EmbeddedModemResetNFCServer shall send DigitalKeyReset_St to the EmbeddedModemResetServer indicating:

- (0x2) Success, if the reset succeeded
- (0x1) Fail, if the reset failed
 - The EmbeddedModemResetServer shall log the failure

4.6.1.17 <u>EMR-REQ-481657/A-Brand Connect Embedded Modem Reset - EmbeddedModemResetServer Reset Status</u>

The EmbeddedModemResetServer shall provide/determine its success/failure status internally and log the status.

4.6.1.18 <u>EMR-REQ-481658/A-Brand Connect Embedded Modem Reset - EmbeddedModemResetInterfaceClient Reset Status</u>

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetInterfaceClient via setSyncResetConfirm(ConfirmStatus) and log the status.

4.6.1.19 <u>EMR-REQ-481659/A-Brand Connect Embedded Modem Reset - EmbeddedModemResetOnBoardClient Reset</u> Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetOnBoardClient via setModemMasterReset(ResponseStatus) and log the status.

4.6.1.20 EMR-REQ-481660/A-Brand Connect Embedded Modem Reset - EmbeddedModemResetPnCServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetPnCServer via PnCStat_St and log the status (when applicable):

- If PnCStat_St = 0x1 No Contracts Installed, the reset shall be determined a success
- If PnCStat_St != 0x1 No Contracts Installed, the reset shall be determined a failure
 - See PNC-FUN-REQ-326625-Master Reset

4.6.1.21 EMR-REQ-481661/A-Brand Connect Embedded Modem Reset - EmbeddedModemResetNFCServer Reset Status

The EmbeddedModemResetServer shall receive the success/failure status from the EmbeddedModemResetNFCServer via DigitalKeyReset_St and log the status:

- If DigitalKeyReset_St = (0x2) Success, the reset shall be determined a success
- If DigitalKeyReset St = (0x1) Fail, the reset shall be determined a failure

4.6.1.22 EMR-REQ-275647/C-Master & Embedded Modem Reset - Request Handling

Upon receiving a Master Reset or Feature Reset request (via either FactoryReset.Rq or EmbeddedModemReset_Rq or resetRequestBroadcast), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Execute only one reset at any given time
- Ignore the request if an EmbeddedModemInterfaceClient initiated reset request is already being processed
- Queue the request if an EmbeddedModemOffBoardClient initiated reset request is already being processed. The EmbeddedModemResetServer shall process the request only after the ongoing reset has completed.

Upon receiving a ClearUserSettingsCommand (per VIN Removal), the EmbeddedModemResetServer shall:

- Process the request if one is not already in process
- Queue the request if an existing reset request is already in process. The EmbeddedModemResetServer shall process the request only after the ongoing reset has completed.

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The EmbeddedModemResetServer shall persist all queued reset requests through module restarts, power on/off, ignition cycles, etc.

4.6.1.23 EMR-REQ-290257/B-Brand Connect Embedded Modern Reset - Server Operational States

The Brand Connect Embedded Modem Reset shall only be performed by the EmbeddedModemResetServer if the EmbeddedModemResetServer is in any of the following states:

"Provisioned"

4.6.1.24 EMR-REQ-290480/A-Brand Connect Embedded Modem Reset - OnBoardClient Operational States

The Brand Connect Embedded Modem Reset shall only be performed by the EmbeddedModemResetOnBoardClient if the EmbeddedModemResetOnBoardClient is in any of the following states:

"Provisioned"

4.6.1.25 EMR-REQ-429823/A-Embedded Modem Reset - NFCServer Operational States

The Embedded Modem Master Reset shall only be performed by the EmbeddedModemResetNFCServer if the EmbeddedModemResetNFCServer is in any of the following states:

"Provisioned"

4.6.1.26 EMR-REQ-290258/D-Brand Connect Embedded Modem Reset - Cleared Data

The feature data to be cleared upon a Brand Connect Embedded Modem Reset (per REQ-290255, REQ-290272, REQ-480119, REQ-480120) may contain settings pertaining to:

- ECG Common Functions
- Embedded Modem Common Functions
- Control My Car
- Vehicle Health Report
- Wifi Hotspot
- In Vehicle Software Update
- Online Traffic
- Connectivity Customer Settings
- PaaK
- EV Charge Programming
- DVD
- Plug and Charge

**Note: Please refer to each relevant feature SPSS for details/requirements regarding the specific content/data to be cleared upon a reset.

4.6.1.27 EMR-HMI-REQ-290259/A-Brand Connect Embedded Modem Reset - User Input

The EmbeddedModemResetInterfaceClient shall provide a user interface (button/graphic) to perform the Brand Connect Feature Reset. It shall also provide a means to differentiate between the two types of Brand Connect Feature Resets detailed in REQ-290255.

4.6.1.28 EMR-HMI-REQ-290260/D-Brand Connect Embedded Modern Reset - User Input Enable/Disable

The EmbeddedModemResetInterfaceClient shall enable/disable the Brand Connect Feature Reset user interface (button/graphic) based on:

- TCU config. on EmbeddedModemResetInterfaceClient (DE01 Byte 9 Bit 7)
 - o When set to "Present", the above shall be enabled
 - When set to "Not Present", the above shall be disabled (greyed-out, hidden, etc.)
- TCU Reset config. on EmbeddedModemResetInterfaceClient (DE01 Byte 9 Bit 3)
 - o When set to "Enabled", the above shall be enabled
 - When set to "Disabled", the above shall be disabled (greyed-out, hidden, etc.)

The Brand Connect Feature Reset user interface (button/graphic/popup) used to differentiate between the two Brand Connect Feature Resets (REQ-290255) shall be offered/shown based on:

HEV, BEV, and PHEV configs. on EmbeddedModemResetInterfaceClient

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- When configured for HEV, BEV, or PHEV, the user interface shall be offered/shown
- When not configured for HEV, BEV, or PHEV, the user interface shall not be offered/shown
- Please see rule [H72a.R352] or [H72c.R352] for the relevant Hybrid vehicle type configurations.

4.6.1.29 EMR-REQ-480357/A-Brand Connect Embedded Modem Reset1 - User Input Availability

The EmbeddedModemResetInterfaceClient shall enable/disable the Brand Connect Reset1 user interface (button/graphic) based on resetAvailabilityBroadcast received from the EmbeddedModemResetServer:

- If resetAvailabilityBroadcast(ResetType = BrandConnectReset1, EnableState = Enabled), the Brand Connect Reset1 user interface shall be enabled
- If resetAvailabilityBroadcast(ResetType = BrandConnectReset1, EnableState = Disabled, NotAvailReason), the Brand Connect Reset1 user interface shall be disabled
- If resetAvailabilityBroadcast(ResetType = BrandConnectReset1, EnableState = Not_Available), the Brand Connect Reset1 user interface shall be made unavailable (ex. spinning wheel)

If resetAvailabilityBroadcast(ResetType = BrandConnectReset1, EnableState = Disabled, NotAvailReason) while the user selects the user interface (button/graphic), the EmbeddedModemResetInterfaceClient shall display a notification to the user corresponding to the reason provided via NotAvailReason.

4.6.1.30 EMR-REQ-480358/A-Brand Connect Embedded Modern Reset2- User Input Availability

The EmbeddedModemResetInterfaceClient shall enable/disable the Brand Connect Reset2 user interface (button/graphic) based on resetAvailabilityBroadcast received from the EmbeddedModemResetServer:

- If resetAvailabilityBroadcast(ResetType = BrandConnectReset2, EnableState = Enabled), the Brand Connect Reset2 user interface shall be enabled
- If resetAvailabilityBroadcast(ResetType = BrandConnectReset2, EnableState = Disabled, NotAvailReason), the Brand Connect Reset2 user interface shall be disabled
- If resetAvailabilityBroadcast(ResetType = BrandConnectReset2, EnableState = Not_Available), the Brand Connect Reset2 user interface shall be made unavailable (ex. spinning wheel)

If resetAvailabilityBroadcast(ResetType = BrandConnectReset2, EnableState = Disabled, NotAvailReason) while the user selects the user interface (button/graphic), the EmbeddedModemResetInterfaceClient shall display a notification to the user corresponding to the reason provided via NotAvailReason.

4.6.1.31 EMR-REQ-290261/A-Brand Connect Embedded Modem Reset - Software Retention

The feature data to be cleared shall operate only the Method-2, Method-3, and GMRDB based configurations. There shall not be any changes to the EmbeddedModemResetServer, EmbeddedModemResetOnBoardClient, EmbeddedModemResetKeyServer, or EmbeddedModemResetEVServer software.

4.6.1.32 EMR-REQ-290262/C-Brand Connect Embedded Modem Reset - FTCP Alert

Upon completing the Brand Connect Embedded Modem Reset, the EmbeddedModemResetServer shall send a MasterResetAlert to the EmbeddedModemResetOffBoardClient indicating that a "Brand Connect Reset" was performed.

This alert shall be sent by the EmbeddedModemResetServer whether the vehicle is authorized or not (See CCS SPSS for authorization information).

This alert shall include VSTAT information only when the vehicle is authorized (See CCS SPSS for authorization information).

4.6.1.33 EMR-REQ-290263/A-Brand Connect Embedded Modem Reset - FTCP Alert Queing

The EmbeddedModemResetServer shall queue the MasterResetAlert (to be sent per REQ-290262) in case of a connectivity issue with the EmbeddedModemResetOffBoardClient.

4.6.1.34 EMR-REQ-275654/B-Master & Embedded Modem Reset - Completion Time

When Primary_Display_Device = FORD_APIM, the EmbeddedModemResetServer and EmbeddedModemResetOnBoardClient shall remove all PII and application specific data within 45 seconds.



If this process fails to complete within the above time for any of the Embedded Modem Feature Resets, the EmbeddedModemResetServer shall respond to the EmbeddedModemResetInterfaceClient with EmbeddedModemReset_St = "(0x1) Reset NotComplete".

4.6.1.35 EMRv2-REQ-479701/A-Master & Embedded Modem Reset - Completion Time v2

When Primary_Display_Device = PHOENIX, the EmbeddedModemResetServer and EmbeddedModemResetOnBoardClient shall remove all PII and application specific data within 45 seconds.

If this process fails to complete within the above time for any of the Embedded Modem Feature Resets, the EmbeddedModemResetServer shall send resetProgressBroadcast(ResetType, ResetStatus = Complete - Fail) to the EmbeddedModemResetInterfaceClient for the requested ResetType.

4.6.1.36 EMR-REQ-275656/C-Buffered AVD Data

The EmbeddedModemResetServer shall remove any buffered AVD data upon an Embedded Modem Master Reset (per REQ-275645, REQ-479699), a VIN Removal (per REQ-275663, REQ-275664, REQ-275665) or a Remote Reset (per REQ-392689, REQ-392690, REQ-392691). Please refer to DVD SPSS for more details on buffered data.

4.6.2 Use Cases

4.6.2.1 EMR-UC-REQ-290264/B-Brand Connect Embedded Modem Reset & Clear EV Settings

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
Scenario Description	The user selects <brand connect="" reset=""> via HMI and confirms they would like to remove all EV Charge Settings (if vehicle is an EV, otherwise no confirmation is required).</brand>
Post-conditions	All applicable Brand Connect settings are restored to the factory defaults (refer to the TCU Common Embedded Modem SPSS, Wifi Hotspot SPSS, CCS SPSS, PaaK SPSS, Online Traffic SPSS, EV SPSS for applicable settings/default values or more feature specific requirements). EmbeddedModemResetEVServer is disconnected from the EmbeddedModemResetOffboardClient.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.6.2.2 EMR-UC-REQ-290265/A-Brand Connect Embedded Modem Reset & Retain EV Settings

Actors	Vehicle occupant	
Pre-conditions	HMI display is ON	
Scenario	The user selects <brand connect="" reset=""> via HMI and confirms they would</brand>	
Description	not like to remove all EV Charge Settings.	
Post-conditions	All applicable Brand Connect settings are restored to the factory defaults (refer to the TCU Common Embedded Modem SPSS, Wifi Hotspot SPSS, CCS SPSS, PaaK SPSS, Online Traffic SPSS for applicable settings/default values or more feature specific requirements). EmbeddedModemResetEVServer is disconnected from the EmbeddedModemResetOffboardClient. All EV Charge Settings are retained.	
List of Exception	N/A	
Use Cases		
Interfaces	G-HMI	

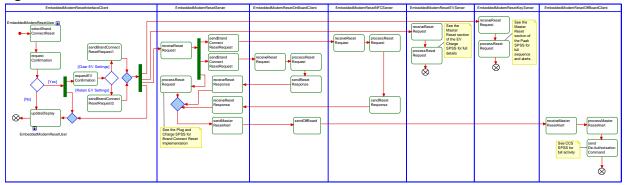
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4.6.3 White Box View

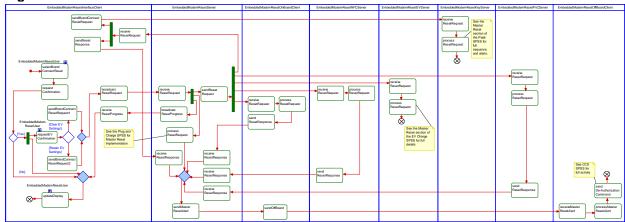
4.6.3.1 EMR-ACT-REQ-290266/E-Brand Connect Embedded Modem Reset

Activity Diagram



4.6.3.2 EMRv2-ACT-REQ-480577/A-Brand Connect Embedded Modem Reset v2

Activity Diagram



4.6.3.3 EMR-SD-REQ-290267/E-Brand Connect Embedded Modem Reset

Constraints

Pre-Condition

HMI display is ON

Scenarios

Normal Usage

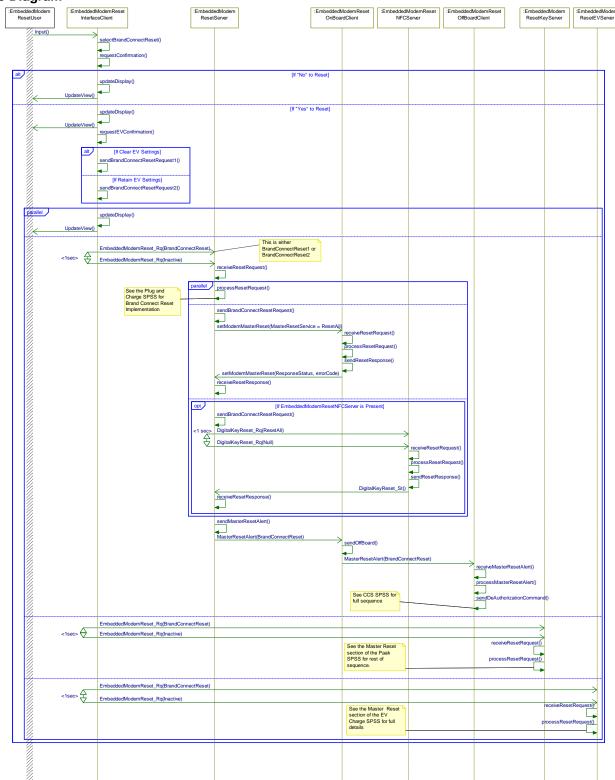
The user selects <Brand Connect Reset> via HMI

Post-Condition

All applicable settings are restored to the factory defaults



Sequence Diagram



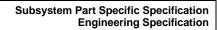
4.6.3.4 EMRv2-SD-REQ-480578/A-Brand Connect Embedded Modem Reset v2

Constraints

Pre-Condition

HMI display is ON

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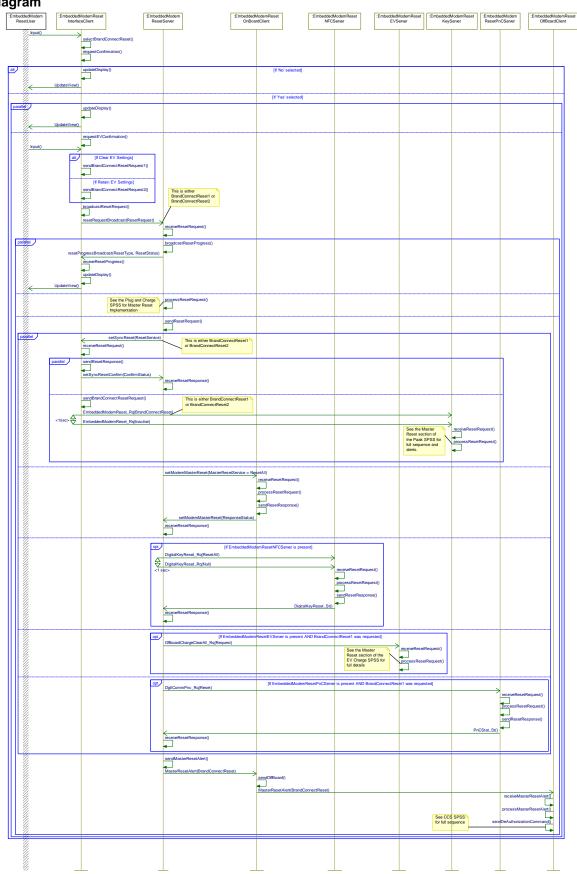
The user selects <Brand Connect Reset> via HMI

Post-Condition

All applicable settings are restored to the factory defaults



Sequence Diagram





4.7 EMR-FUN-REQ-375815/A-Reset Control

4.7.1 Use Cases

4.7.1.1 EMR-UC-REQ-375817/A-Reset Control Activation

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
Scenario	The user subscribes to Stolen Vehicle Services
Description	
Post-conditions	EmbeddedModemResetServer enables Reset Control and sets internal
	parameter to DeactivateReset.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.7.1.2 EMR-UC-REQ-375818/A-Reset Control Deactivation

Actors	Vehicle occupant	
Pre-conditions	HMI display is ON	
	EmbeddedModemResetServer is Provisioned	
Scenario	The user unsubscribes from Stolen Vehicle Services	
Description		
Post-conditions	EmbeddedModemResetServer disables Reset Control and sets internal	
	parameter to Off.	
List of Exception	N/A	
Use Cases		
Interfaces	G-HMI	

4.7.1.3 EMR-UC-REQ-375819/B-Reset Control Disabled

Actors	Dealer Technician/Engineer	
Pre-conditions	HMI display is ON	
Scenario	The technician sends FTCP Command to Disable the feature	
Description		
Post-conditions	Reset Control is disabled. Master Reset and Brand Connect Reset behave as normal. Factory Reset behaves as normal (if supported)	
List of Exception	N/A	
Use Cases		
Interfaces	G-HMI	

4.7.1.4 EMR-UC-REQ-375820/A-User performs Master Reset while Reset Control Enabled

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
	Reset Control is enabled
	SVS is subscribed

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Scenario Description	The user presses Master Reset on EmbeddedModemResetInterfaceClient
Post-conditions	User is notified they must disable Reset Control to perform that action. Reset is not performed.
List of Exception Use Cases	N/A
Interfaces	G-HMI

4.7.1.5 EMR-UC-REQ-443217/A-User performs Factory Reset while Reset Control Enabled

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
	Reset Control is enabled
	SVS is subscribed
Scenario	The user presses Factory Reset on EmbeddedModemResetInterfaceClient
Description	
Post-conditions	User is notified they must disable Reset Control to perform that action.
	Reset is not performed.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.7.1.6 EMR-UC-REQ-375821/A-User requests to disable Reset Control

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
	Reset Control is enabled
	SVS is subscribed
Scenario	The user requests to disable Reset Control via FordPass
Description	
Post-conditions	EmbeddedModemResetServer disables Reset Control
	EmbeddedModemResetServer starts Reset Control Timer
	EmbeddedModemResetInterfaceClient disables Reset Control functionality
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.7.1.7 EMR-UC-REQ-375822/A-User performs Master Reset while Reset Control Disabled

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
	Reset Control is disabled
	Reset Control Timer is not expired
	SVS is subscribed
Scenario	The user presses Master Reset on EmbeddedModemResetInterfaceClient
Description	
Post-conditions	Master Reset is performed as normal.
	Reset Control Timer continues to count.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

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4.7.1.8 EMR-UC-REQ-443218/A-User performs Factory Reset while Reset Control Disabled

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
	Reset Control is disabled
	Reset Control Timer is not expired
	SVS is subscribed
Scenario	The user presses Factory Reset on EmbeddedModemResetInterfaceClient
Description	
Post-conditions	Factory Reset is performed as normal.
	Reset Control Timer continues to count.
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.7.1.9 EMR-UC-REQ-375823/A-Reset Control Timer expires

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
	Reset Control is Disabled
	Reset Control Timer is not expired
	SVS is subscribed
Scenario	The user does not request a reset on the
Description	EmbeddedModemResetInterfaceClient within Reset Control Timer, and
	timer expires
Post-conditions	EmbeddedModemResetServer enables Reset Control and sets internal
	parameter to DeactivateReset. EmbeddedModemResetInterfaceClient
	enables Reset Control functionality
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

4.7.1.10 EMR-UC-REQ-375824/A-User requests to enable Reset Control

Actors	Vehicle occupant
Pre-conditions	HMI display is ON
	EmbeddedModemResetServer is Provisioned
	Reset Control is disabled
	Reset Control Timer is not expired
	SVS is subscribed
Scenario	The user requests to enable Reset Control via FordPass
Description	
Post-conditions	EmbeddedModemResetServer enables Reset Control and sets internal
	parameter to DeactivateReset.
	EmbeddedModemResetServer stops/resets Reset Control Timer
	EmbeddedModemResetInterfaceClient enables Reset Control functionality
List of Exception	N/A
Use Cases	
Interfaces	G-HMI

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4.7.2 Requirements

4.7.2.1 <u>EMR-REQ-375825/A-Reset Control Feature Internal Config. Parameter</u>

EmbeddedModemResetServer shall have an internal configurable parameter (RESET_CONTROL_FEATURE) to control the Reset Control feature status (Disabled, Off, On)

4.7.2.2 EMR-REQ-375826/A-Reset Control Status Internal Config. Parameter

EmbeddedModemResetServer shall have an internal configurable parameter (RESET_CONTROL_STATUS) to control the active Reset Control status (DeactivateReset, ActivateReset)

4.7.2.3 EMR-REQ-375827/A-Reset Control Timer Internal Config. Parameter T ResetControl

EmbeddedModemResetServer shall have an internal configurable parameter (RESET_CONTROL_TIMER) to control the value of T_ResetControl (see REQ-375851-T_ResetControl).

4.7.2.4 EMR-REQ-375828/A-Reset Control Status Alert

EmbeddedModemResetServer shall send a non-correlated ResetControlStatusAlert to the

EmbeddedModemResetOffBoardClient anytime RESET_CONTROL_STATUS changes value.

EmbeddedModemResetServer shall send a correlated ResetControlStatusAlert to the EmbeddedModemResetOffBoardClient anytime RESET_CONTROL_STATUS changes value due to a UpdateResetControlSettingsCommand.

The ResetControlStatusAlert shall only be sent when the EmbeddedModemResetServer is in the "Authorized" state. This applies to all requirements mentioning the transmission of this alert.

4.7.2.5 EMR-REQ-375829/A-Reading Reset Control Config. Parameters

The EmbeddedModemResetInterfaceClient shall read the RESET_CONTROL_STATUS using getResetControlStatus(ResetControlStatus). The EmbeddedModemResetInterfaceClient shall also receive an updated RESET_CONTROL_STATUS when requested by the EmbeddedModemResetServer via setResetControlStatus(ResetControlStatus).

4.7.2.6 EMR-REQ-375830/A-Reset Control Feature Config. Parameter = DISABLED

EmbeddedModemResetServer shall set RESET_CONTROL_FEATURE = "Disabled" only when the Reset Control function is required to be disabled. The only means to configure this parameter shall be via UpdateResetControlSettingsCommand (see REQ-375842).

4.7.2.7 EMR-REQ-375831/A-Reset Control Feature Config. Parameter = OFF

EmbeddedModemResetServer shall set RESET_CONTROL_FEATURE = "Off" by default, and shall hold this value for as long as SVS subscription is not active. SVS subscription state shall be determined by CCS (internal to EmbeddedModemResetServer). Upon SVS subscription cancellation or expiry EmbeddedModemResetServer shall set RESET_CONTROL_FEATURE = "Off."

4.7.2.8 EMR-REQ-375832/A-Reset Control Feature Config. Parameter = ON

EmbeddedModemResetServer shall set RESET_CONTROL_FEATURE DID = "On" when SVS subscription becomes active and shall hold this value for as long as SVS subscription is active. SVS subscription state shall be determined by CCS (internal to EmbeddedModemResetServer)

4.7.2.9 EMR-REQ-375833/B-Reset Control Status Config. Parameter Default

EmbeddedModemResetServer shall set RESET_CONTROL_STATUS = "ActivateReset" by default, when RESET_CONTROL_FEATURE = "Off" or "Disabled". While in this state, EmbeddedModemResetServer shall enable the Factory Reset & Master Reset & Brand Connect Reset functions (i.e. not perform the Reset Control requirements below).

The EmbeddedModemResetServer shall request the EmbeddedModemResetInterfaceClient to Activate the Reset buttons via setResetControl(ResetControlStatus = ActivateReset).



4.7.2.10 EMR-REQ-375834/C-Reset Control Status Config. Parameter = DEACTIVATERESET

EmbeddedModemResetServer shall set RESET_CONTROL_STATUS = "DeactivateReset" when RESET_CONTROL_FEATURE = "On" and EmbeddedModemResetServer is in the "Authorized" state. While in this state, EmbeddedModemResetServer shall disable the Factory Reset & Brand Connect Reset functions (i.e. perform the Reset Control requirements below).

The EmbeddedModemResetServer shall request the EmbeddedModemResetInterfaceClient to Deactivate the Reset buttons via setResetControl(ResetControlStatus = DeactivateReset).

4.7.2.11 EMR-REQ-375835/C-Reset Control Status Config. Parameter due to Reset

When the customer performs a Factory Reset, Master Reset or Brand Connect Reset, the EmbeddedModemResetServer will transition to "Waiting for Auth." In this state, the EmbeddedModemResetServer shall set RESET_CONTROL_STATUS = "ActivateReset" irrespective of SVS subscription state.

4.7.2.12 EMR-REQ-375836/A-Reset Control Status Config. Parameter due to re-Authorization

If the customer re-authorizes the vehicle within 48hrs of performing the Reset in REQ-375835, the EmbeddedModemResetServer will transition to "Authorized." In this state, the EmbeddedModemResetServer shall set RESET CONTROL STATUS = "DeactivateReset" while SVS remains subscribed.

4.7.2.13 EMR-REQ-375837/B-Reset Control Status Config. Parameter = ACTIVATERESET

EmbeddedModemResetServer shall set RESET_CONTROL_STATUS = "ActivateReset" when commanded to by the EmbeddedModemResetOffBoardClient (see REQ-375843) while RESET_CONTROL_FEATURE = "On". While in this state, EmbeddedModemResetServer shall temporarily enable Factory Reset & Master Reset & Brand Connect Reset functions (see REQ-375846). SVS subscription state shall be determined by CCS (internal to EmbeddedModemResetServer)

The EmbeddedModemResetServer shall request the EmbeddedModemResetInterfaceClient to Activate the Reset buttons via setResetControl(ResetControlStatus = ActivateReset).

4.7.2.14 EMR-REQ-375838/A-Reset Control while ActivateReset - EmbeddedModemResetInterfaceClient

Upon receiving setResetControl(ResetControlStatus = ActivateReset), the EmbeddedModemResetInterfaceClient shall disable the Reset Control functionality (i.e. not perform the Reset Control requirements below) and perform all resets as normal upon request.

The EmbeddedModemResetInterfaceClient shall then respond to the EmbeddedModemResetServer with setResetControl(ResetControlResponse = Activated).

4.7.2.15 EMR-REQ-375839/A-Reset Control while DeactivateReset - EmbeddedModemResetInterfaceClient

Upon receiving setResetControl(ResetControlStatus = DeactivateReset), the EmbeddedModemResetInterfaceClient shall:

- allow/perform all feature resets as normal, except Master Reset and Brand Connect Reset
- display the Master Reset and Brand Connect Reset buttons/user interfaces as normal, but shall not perform the reset or send EmbeddedModemReset Rg or FactoryReset.Rg when requested by the user
- respond to the EmbeddedModemResetServer with setResetControl(ResetControlResponse = Deactivated).
- send setRCUserSelection(UserSelection=MasterReset) to the EmbeddedModemResetServer when a Master Reset has been requested by the user
- send setRCUserSelection(UserSelection=BrandConnectReset) to the EmbeddedModemResetServer when a Brand Connect Reset has been requested by the user
- show a popup/message indicating that Reset Control must be disabled from the mobile app in order to perform the requested action

4.7.2.16 EMRv2-REQ-443223/A-Reset Control while DeactivateReset - EmbeddedModemResetInterfaceClient (v2)

Upon receiving setResetControl(ResetControlStatus = DeactivateReset), the EmbeddedModemResetInterfaceClient shall:

- allow/perform all feature resets as normal, except Factory Reset, Master Reset and Brand Connect Reset
- display the Factory Reset, Master Reset and Brand Connect Reset buttons/user interfaces as normal, but shall not perform the reset or send EmbeddedModemReset_Rq or FactoryReset.Rq when requested by the user
- respond to the EmbeddedModemResetServer with setResetControl(ResetControlResponse = Deactivated).

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- send setRCUserSelection(UserSelection=MasterReset) to the EmbeddedModemResetServer when a Master Reset or Factory Reset has been requested by the user
- send setRCUserSelection(UserSelection=BrandConnectReset) to the EmbeddedModemResetServer when a Brand Connect Reset has been requested by the user
- show a popup/message indicating that Reset Control must be disabled from the mobile app in order to perform the requested action

4.7.2.17 EMR-REQ-375840/B-Reset Request while in DeactivateReset

EmbeddedModemResetServer shall receive setRCUserSelection(UserSelection=MasterReset) or setRCUserSelection(UserSelection=BrandConnectReset) from the EmbeddedModemResetInterfaceClient when a Master/Factory Reset or Brand Connect Reset has been requested by the user while RESET_CONTOL_STATUS = DeactivateReset. When received, EmbeddedModemResetServer shall send non-correlated ResetControlNotificationAlert to the EmbeddedModemResetOffBoardClient indicating the request to disable Reset Control, as well as the source of the request (Master Reset or Brand Connect Reset).

4.7.2.18 EMR-REQ-375841/B-Reset Request while ActivateReset

When a Factory Reset, Master Reset or Brand Connect Reset has been requested by the user while RESET_CONTOL_STATUS = ActivateReset, the EmbeddedModemResetServer shall not receive setRCUserSelection() from the EmbeddedModemInterfaceClient, and shall not send ResetControlNotificationAlert to the EmbeddedModemResetOffBoardClient. The EmbeddedModemResetServer shall perform the requested reset per normal operation.

4.7.2.19 EMR-REQ-375842/B-UpdateResetControlSettingsCommand – Feature Disable

EmbeddedModemResetServer shall receive a UpdateResetControlSettingsCommand from EmbeddedModemResetOffBoardClient when it is required to disable Reset Control entirely (not a FordPass function/request).

- When UpdateResetControlSettingsCommand indicates that the Reset Control feature be disabled (resetControlStatus = DISABLE_RESET_CONTROL_FEATURE), EmbeddedModemResetServer shall set RESET_CONTROL_FEATURE = "Disabled"
 - The EmbeddedModemResetServer shall then send a non-correlated ResetControlStatusAlert to the EmbeddedModemResetOffBoardClient indicating "DISABLE_RESET_CONTROL_FEATURE"
 - The EmbeddedModemResetServer shall still set RESET_CONTROL_STATUS = "ActivateReset" and request the EmbeddedModemResetInterfaceClient to Activate the Reset buttons via setResetControl(ResetControlStatus = ActivateReset) per REQ-375833
- When UpdateResetControlSettingsCommand indicates that the Reset Control feature be re-enabled (resetControlStatus = ACTIVATE_RESET or DEACTIVATE_RESET), EmbeddedModemResetServer shall set RESET_CONTROL_FEATURE = "Off" (the default state)
 - The EmbeddedModemResetServer shall also check whether an SVS Subscription is active at this time, and if so, set RESET_CONTROL_FEATURE = "On"
 - The EmbeddedModemResetServer shall then send a non-correlated ResetControlStatusAlert as required, per REQ-375828

4.7.2.20 EMR-REQ-375843/B-UpdateResetControlSettingsCommand – Enable/Disable

EmbeddedModemResetServer shall receive a UpdateResetControlSettingsCommand from EmbeddedModemResetOffBoardClient when Reset Control is enabled/disabled by the user via FordPass.

- When UpdateResetControlSettingsCommand is received, indicating the user requested to disable Reset Control
 (resetControlStatus = ACTIVATE_RESET), EmbeddedModemResetServer shall set RESET_CONTROL_STATUS =
 "ActivateReset"
- When UpdateResetControlSettingsCommand is received, indicating the user requested to enable Reset Control (resetControlStatus = DEACTIVATE_RESET), EmbeddedModemResetServer shall set RESET CONTROL STATUS = "DeactivateReset"

The above is true as long as RESET_CONTROL_FEATURE = "On." If RESET_CONTROL_FEATURE = "Off" the above shall not be honored (it should not be possible to receive these Commands when there is no SVS Subscription. If RESET_CONTROL_FEATURE = "Disabled" when the above commands are received, see REQ-375842.

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4.7.2.21 EMR-REQ-375844/A-UpdateResetControlSettingsCommand - Timer Value

EmbeddedModemResetServer shall receive a UpdateResetControlSettingsCommand from EmbeddedModemResetOffBoardClient when the Reset Control Timer value is requested to be updated.

- When UpdateResetControlSettingsCommand indicates that the Reset Control Timer shall be configured to a new value, EmbeddedModemResetServer shall update RESET_CONTROL_TIMER to the value requested.
- If the requested value is out of the allowed range, the EmbeddedModemResetServer shall not update RESET CONTROL TIMER.

4.7.2.22 EMR-REQ-375845/A-Reset Control Timer Start/Stop

- When EmbeddedModemResetServer sets RESET_CONTROL_STATUS = "ActivateReset" based on the UpdateResetControlSettingsCommand, the EmbeddedModemResetServer shall start a timer, T_ResetControl.
- When EmbeddedModemResetServer sets RESET_CONTROL_STATUS = "DeactivateReset" based on the UpdateResetControlSettingsCommand, the EmbeddedModemResetServer shall stop and reset T_ResetControl.
- If RESET_CONTROL_FEATURE = "Off" while T_ResetControl is ongoing (ex. if SVS becomes unsubscribed), EmbeddedModemResetServer shall stop and reset T_ResetControl.
- If RESET_CONTROL_FEATURE = "Disable" the timer shall not be started or used at all. If RESET_CONTROL_FEATURE = "Disable" while T_ResetControl is ongoing, EmbeddedModemResetServer shall stop and reset T_ResetControl.
- If the EmbeddedModemResetServer transitions to "Wait for Auth" while T_ResetControl is ongoing, EmbeddedModemResetServer shall stop and reset T_ResetControl.

4.7.2.23 EMR-REQ-375846/B-Reset Control Timer

EmbeddedModemResetServer shall keep RESET_CONTROL_STATUS set to "ActivateReset" as long as T_ResetControl has not expired. Once T_ResetControl expires, EmbeddedModemResetServer shall set RESET_CONTROL_STATUS = "DeactivateReset" and shall send a non-correlated ResetControlStatusAlert to the EmbeddedModemResetOffBoardClient indicating the change.

EmbeddedModemResetServer shall maintain the active count of T_ResetControl through ignition cycles, power cycles, etc.

If the user initiates any reset on EmbeddedModemResetInterfaceClient while in ActivateReset, T_ResetControl shall continue to count and shall not be cancelled. The customer shall be able to initiate as many reset requests as they wish within T_ResetControl.

4.7.2.24 EMR-TMR-REQ-375851/A-T ResetControl

Name	Description	Units	Range	Resolution	Default
T_ResetControl	Maximum time the EmbeddedModemResetServer shall allow Reset Control to be disabled	sec	0- 259200	60	3600

4.7.2.25 <u>EMR-REQ-375848/A-UpdateResetControlSettingsCommandResponse to Cloud</u>

EmbeddedModemResetServer shall respond to UpdateResetControlSettingsCommand with a UpdateResetControlSettingsCommandResponse.

4.7.2.26 EMR-REQ-375849/B-Loss of Communication

 $If\ Embedded Modem Reset Interface Client\ loses\ communication\ with\ Embedded Modem Reset Server,$

EmbeddedModemResetInterfaceClient shall perform the below based on the last saved SVS Subscription state:

- If the SVS Subscription state indicates that an SVS Subscription was Active, the EmbeddedModemResetInterfaceClient shall show the Master Reset and Brand Connect Reset buttons/menu's as unavailable (disabled, hidden, etc.)
- If the SVS Subscription state indicates that an SVS Subscription was Inactive, the EmbeddedModemResetInterfaceClient shall enable and allow all reset functionality per usual, as if ResetControlStatus = ActivateReset in REQ-375838.

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In order to support the above, the EmbeddedModemResetInterfaceClient shall store the SVS Subscription status obtained from CCS. The EmbeddedModemResetInterfaceClient shall read, update, and store this parameter locally upon each transition of IgnitionStatus from "Off" to "Run."

4.7.2.27 EMRv2-REQ-443226/A-Loss of Communication (v2)

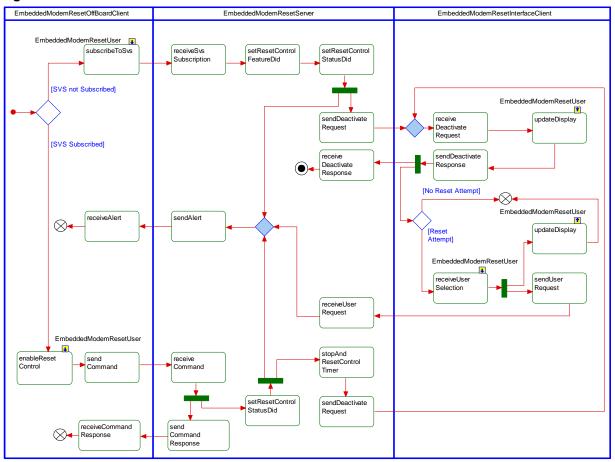
If EmbeddedModemResetInterfaceClient loses communication with EmbeddedModemResetServer (or if it cannot determine/read CCS data), EmbeddedModemResetInterfaceClient shall perform the below:

• If the SVS Subscription state is unknown, the EmbeddedModemResetInterfaceClient shall disable all reset functionality and show a notification to the user indicating the unknown state (loading wheel, etc.)

4.7.3 White Box View

4.7.3.1 EMR-ACT-REQ-375895/A-User Enables Reset Control

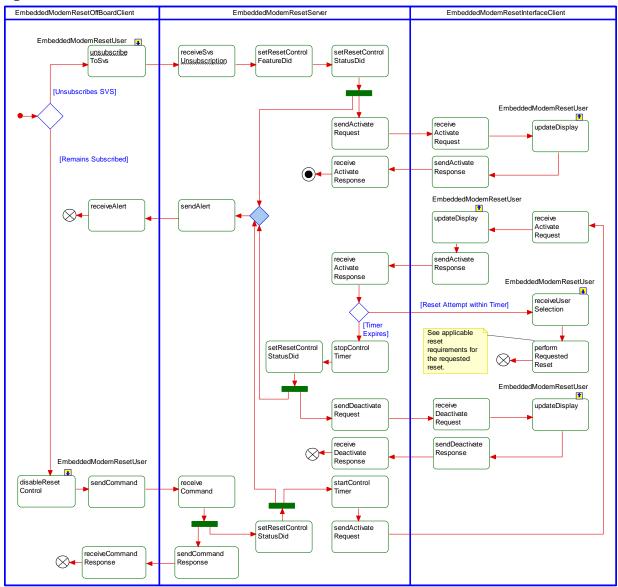
Activity Diagram





4.7.3.2 EMR-ACT-REQ-376524/A-User Disables Reset Control

Activity Diagram



4.7.3.3 EMR-SD-REQ-375897/A-User Enables Reset Control

Constraints

Pre-Condition

HMI display is ON

EmbeddedModemResetServer is Provisioned

Scenarios

Normal Usage

The user subscribes to Stolen Vehicle Services, OR (if already subscribed)

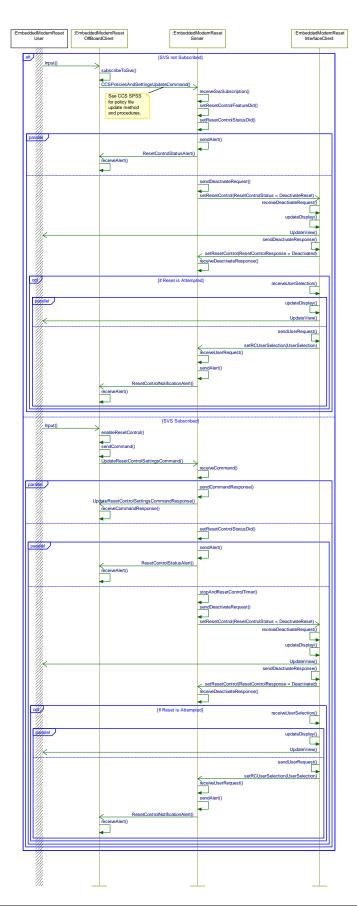
The user requests to enable Reset Control via FordPass

Post-Condition

EmbeddedModemResetServer enables Reset Control and sets internal parameter to DeactivateReset EmbeddedModemResetInterfaceClient enables Reset Control functionality (prohibits resets) EmbeddedModemResetServer stops/resets Reset Control Timer (if previously set)



Sequence Diagram





4.7.3.4 EMR-SD-REQ-376595/A-User Disables Reset Control

Constraints

Pre-Condition

HMI display is ON EmbeddedModemResetServer is Provisioned Reset Control is enabled SVS is subscribed

Scenarios

Normal Usage

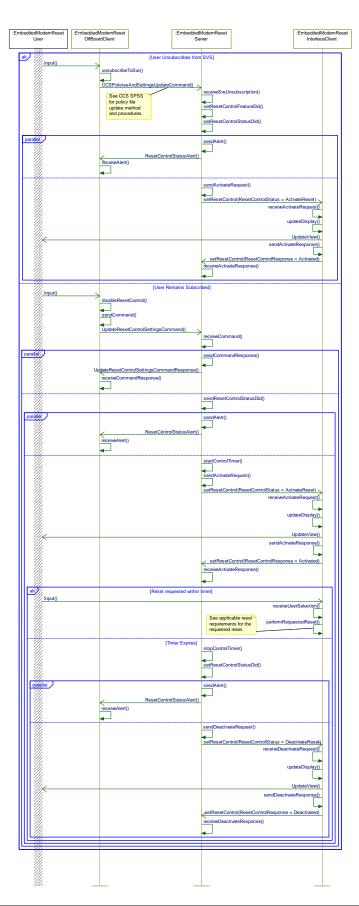
The user unsubscribes to Stolen Vehicle Services, OR (if remaining subscribed) The user requests to temporarily disable Reset Control via FordPass

Post-Condition

EmbeddedModemResetServer disables Reset Control and sets internal parameter to ActivateReset. EmbeddedModemResetInterfaceClient disables Reset Control functionality (allows resets) EmbeddedModemResetServer starts Reset Control Timer (if staying subscribed to SVS)



Sequence Diagram





5 Appendix: Reference Documents

Reference #	Document Title
1	EV Charge Programming SPSS
2	Embedded Modem Common Functions SPSS
3	ECG Common Functions SPSS
4	Control My Car Client v2 TCU SPSS
5	Vehicle Health Report TCU SPSS
6	WiFi Hotspot Server v2 SPSS
7	TCU In Vehicle Software Update SPSS
8	Online Traffic TCU SPSS
9	CCOI (CCS) Server SPSS
10	PaaK SPSS
11	APIM Transport Protocol SPSS
12	ECG Transport Protocol SPSS
13	Dynamic Vehicle Data Client SPSS
14	Plug and Charge SPSS
15	