



**Research & Vehicle Technology**  
**“Infotainment Systems Product Development”**

**Feature – Selectable Drive Mode**

**Infotainment Subsystem Part Specific  
Specification (SPSS)**

Version 1.2

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**FORD CONFIDENTIAL**



## Revision History

Date	Version	Notes
December 18, 2018	1.0	Initial Release
July 17, 2019	1.1	
	MD-REQ-333094/B-SdmPostXSt	tmertiri: typo fixing
	SDM-REQ-334800/B-Soft Key Availability While SDM Faulty	tmertiri: updated wording to confirm to updated behaviour
	SDM-REQ-334801/B-SDM Selection Page	tmertiri: updated wording to confirm to correct intended feature behaviour
August 21, 2019	1.2	
	MD-REQ-333093/B-SdmPosX	tmertiri: clarification added
	MD-REQ-333094/B-SdmPostXSt+	tmertiri: typo fixing
	MD-REQ-333094/C-SdmPostXSt	tmertiri: clarification added
	MD-REQ-334807/B-LDisFalFbmp	tmertiri:update content with new content from feature owner
	597838/B-General Requirements	tmertiri: structure change. New req added
	SDM-REQ-361035/A-No Faulty Display	tmertiri: new req to comply with FBMP changes
	SDM-REQ-361027/A-Display Status Update	tmertiri: new req to comply with FBMP changes
	SDM-REQ-334800/B-Soft Key Availability While SDM Faulty+	tmertiri: updated wording to confirm to updated behaviour
	SDM-REQ-334800/C-Soft Key Availability While SDM Faulty	tmertiri: added content for req 334801 to make this req more inline with HMI specs
	SDM-REQ-334801/B-SDM Selection Page+	tmertiri: updated wording to confirm to correct intended feature behaviour
	SDM-REQ-334801/C-SDM Selection Page	tmertiri: removed content to make it more inline to HMI spec. Removed content was put in 334800
	SDM-REQ-335109/B-Text Display	tmertiri: update signal names



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# 1 Overview

Selectable Drive Mode allows the user to change the driving mode as Normal or Sport as they wish. Other modes could be available, depending on vehicle type and options.



## 2 Architectural Design

### 2.1 SDM-CLD-REQ-333082/A-SDM Client

Selectable Drive Mode Client provides the user with opportunity to request DM changes and various information from the server.

### 2.2 SDM-CLD-REQ-333083/A-SDM Server

Selectable Drive Mode Server take user's input for any particular drive mode request and does the necessary work to enable that particular drive state. Also, it can control the order of the drive modes being displayed in HMI screen.

### 2.3 Logical Signal Mapping

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

Client	Can Signal Logical Name	Can Signal Real Physical name
Rx	LActDMSt	ActvDrvMde_D2_Stat
Rx	LSDM	SelDrvMde_D2_Rq
Rx	LSDMSt	SelDrvMde_D_Stat
Rx	SdmPosX	SelDrvMdePos01_D_Stat
Rx	SdmPosX	SelDrvMdePos02_D_Stat
Rx	SdmPosX	SelDrvMdePos03_D_Stat
Rx	SdmPosX	SelDrvMdePos04_D_Stat
Rx	SdmPosX	SelDrvMdePos05_D_Stat
Rx	SdmPosX	SelDrvMdePos06_D_Stat
Rx	SdmPosX	SelDrvMdePos07_D_Stat
Rx	SdmPosX	SelDrvMdePos08_D_Stat
Rx	SdmPosX	SelDrvMdePos09_D_Stat
Rx	SdmPosX	SelDrvMdePos10_D_Stat
Rx	SdmPosX	SelDrvMdePos11_D_Stat
Rx	SdmPosX	SelDrvMdePos12_D_Stat
Rx	SdmPostXSt	SelDrvMdePos01_B_Avail
Rx	SdmPostXSt	SelDrvMdePos02_B_Avail
Rx	SdmPostXSt	SelDrvMdePos03_B_Avail
Rx	SdmPostXSt	SelDrvMdePos04_B_Avail
Rx	SdmPostXSt	SelDrvMdePos05_B_Avail
Rx	SdmPostXSt	SelDrvMdePos06_B_Avail
Rx	SdmPostXSt	SelDrvMdePos07_B_Avail
Rx	SdmPostXSt	SelDrvMdePos08_B_Avail
Rx	SdmPostXSt	SelDrvMdePos09_B_Avail
Rx	SdmPostXSt	SelDrvMdePos10_B_Avail
Rx	SdmPostXSt	SelDrvMdePos11_B_Avail
Rx	SdmPostXSt	SelDrvMdePos12_B_Avail
Rx	LSdmMsg	SelDrvMdeMsgTxt2_D_Rq
Tx	LSdmRqDis	SelDrvMde_D_RqDrv
Tx	LSDmStDis	SelDrvMdePage_B_Stat
Tx	SdmMsgReset	SelDrvMdeTxtRst_B_Rq2
Tx	SdmCnfMsg	SelDrvMdeCnfm_D_Stat2



Tx	LDisFalFbmp	

## 2.4 SDM-IIR-REQ-333081/A-SDMClient\_Rx

### 2.4.1 MD-REQ-333090/A-LActDMSt

LActDMSt

This signal is sent by the server to the client to indicate the current state of the Selectable Driver Mode.

State	Encoding
0x0	SelDrvMde01
0x1	SelDrvMde02
0x2	SelDrvMde03
0x3	SelDrvMde04
0x4	SelDrvMde05
0x5	SelDrvMde06
0x6	SelDrvMde07
0x7	SelDrvMde08
0x8	SelDrvMde09
0x9	SelDrvMde10
0xA	SelDrvMde11
0xB	SelDrvMde12
0xC	SelDrvMde13
0xD	SelDrvMde14
0xE	SelDrvMde15
0xF	SelDrvMde16
0x10	SelDrvMde17
0x11	SelDrvMde18
0x12	SelDrvMde19
0x13	SelDrvMde20
0x14	SelDrvMde21
0x15	SelDrvMde22
0x16	SelDrvMde23
0x17	SelDrvMde24
0x18	SelDrvMde25
0x19	SelDrvMde26
0x1A	SelDrvMde27
0x1B	SelDrvMde28
0x1C	SelDrvMde29
0x1D	SelDrvMde30
0x1E	SelDrvMde31
0x1F	Faulty

A state of Faulty (0x1F) could be sent by the server at startup.

### 2.4.2 MD-REQ-333091/A-LSDM

LSDM: This signal indicates the users selection for the new SDM option.



This feature provides user's input in externally of the client. This is what this signal represents. The user's choice ( entered externally of client input system) for SDM state change. Refer to HMI specs on what Client may need to do upon RX this signal

Signal Parameter State	Encoding
0x0	SelDrvMde01
0x1	SelDrvMde02
0x2	SelDrvMde03
0x3	SelDrvMde04
0x4	SelDrvMde05
0x5	SelDrvMde06
0x6	SelDrvMde07
0x7	SelDrvMde08
0x8	SelDrvMde09
0x9	SelDrvMde10
0xA	SelDrvMde11
0xB	SelDrvMde12
0xC	SelDrvMde13
0xD	SelDrvMde14
0xE	SelDrvMde15
0xF	SelDrvMde16
0x10	SelDrvMde17
0x11	SelDrvMde18
0x12	SelDrvMde19
0x13	SelDrvMde20
0x14	SelDrvMde21
0x15	SelDrvMde22
0x16	SelDrvMde23
0x17	SelDrvMde24
0x18	SelDrvMde25
0x19	SelDrvMde26
0x1A	SelDrvMde27
0x1B	SelDrvMde28
0x1C	SelDrvMde29
0x1D	SelDrvMde30
0x1E	SelDrvMde31
0x1F	Not Used

#### 2.4.3 MD-REQ-333092/A-LSDMSt

LSDMSt: This signal is sent by the server to the client to indicate the current state of the selected mode request.

Signal Parameters	Parameter Description
0x0	No Drive Mode Change Request
0x1	Drive Mode Change Selection
0x2	Drive Mode Change Request
0x3	Not used



#### 2.4.4 MD-REQ-333093/B-SdmPosX

SdmPosX : This logical name signal represents a set of physical name signals. The real can signals are “locked” to particular position in HMI screen. Each of this signals’ parameters, provides the whole list of available drive modes. So by having this position signals, the server has control on the order of how to show in HMI the order of selectable drive modes.

*This signal represents the 12 physical signals. For purpose of clarity in diagrams, those physical signals have only one logical name.*

State	Encoding	Engineering Names
0x0	SelDrvMde01	Normal Mode
0x1	SelDrvMde02	Sport Mode
0x2	SelDrvMde03	Comfort Mode
0x3	SelDrvMde04	Economy Mode
0x4	SelDrvMde05	Economy Comfort Mode
0x5	SelDrvMde06	Low Mu Mode
0x6	SelDrvMde07	Tow Haul Mode
0x7	SelDrvMde08	Mud/Rut Mode
0x8	SelDrvMde09	Sand Mode
0x9	SelDrvMde10	Rock Crawl Mode
0xA	SelDrvMde11	Normal 2H Mode
0xB	SelDrvMde12	Normal 4A Mode
0xC	SelDrvMde13	Normal 4L Mode
0xD	SelDrvMde14	Rough Road Mode
0xE	SelDrvMde15	Track Mode
0xF	SelDrvMde16	EV Now Mode
0x10	SelDrvMde17	EV Later/Charge Mode
0x11	SelDrvMde18	Baja Mode
0x12	SelDrvMde19	Drag Mode
0x13	SelDrvMde20	Custom Mode
0x14	SelDrvMde21	Snow/Sand Assist
0x15	SelDrvMde22	Not Used
0x16	SelDrvMde23	Not Used
0x17	SelDrvMde24	Not Used
0x18	SelDrvMde25	Not Used
0x19	SelDrvMde26	Not Used
0x1A	SelDrvMde27	Not Used
0x1B	SelDrvMde28	Not Used
0x1C	SelDrvMde29	Not Used
0x1D	SelDrvMde30	Not Used
0x1E	SelDrvMde31	Not Used
0x1F	Faulty	Faulty (Default Drive Mode)

#### 2.4.5 MD-REQ-333094/C-SdmPostXSt

SdmPostXSt: This signal represents a set of physical signals. This signal control the display state of SdmPosX signals. If a particular number of SdmPostXSt is marked as not available, that particular SdmPosX signal, is not displayed on the screen. These two signal set, SdmPosX and SdmPostXSt, give the server the power to control how many drive modes to display in HMI screen, and the order in which they are displayed.





This signal represents the 12 physical signals. For purpose of clarity in diagrams, those physical signals have only one logical name.

Signal parameter	Parameter Description
0x0	Not Available
0x1	Available

## 2.4.6 MD-REQ-333095/A-LSdmMsg

LSdmMsg : This signal provides drive mode status information that should be presented to the driver.

State	Encoding	Description
0x0	No Message	No Message
0x1	Message 1	Selection pop-up window (W3540)
0x2	Message 2	SDM not available (W3541)
0x3	Message 3	SDM reduced (W3542)
0x4	Message 4	SDM preconditions not met (W3543)
0x5	Message 5	EV Mode Not Available (W3544)
0x6	Message 6	Change To Normal for best towing (W3633)
0x7	Message 7	Return to X mode (W4146 / W4147)
0x8	Message 8	Not used
0x9	Message 9	Not used
0xA	Message 10	Not used
0xB	Message 11	Not used
0xC	Message 12	Not used
0xD	Message 13	Not used
0xE	Message 14	Not used
0xF	Message 15	Not used

## 2.5 SDM-IIR-REQ-333080/A-SDMClient\_TX

### 2.5.1 MD-REQ-333097/A-SdmMsgReset

SdmMsgReset: This signal is sent by the client to the server to tell the server that the message has been cleared due to another higher priority message or the user cleared it manually.

Signal Parameter	Signal Description
0x0	No
0x1	Yes

### 2.5.2 MD-REQ-333098/A-SdmCnfMsg

SdmCnfMsg: This signal provides the confirmation status of the message on the client side for the message sent by the server.

State	Encoding	Engineering Names
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0x0	Null	No SDM pop-ups shown or user does not confirmed the SDM warning
0x1	NotAccepted	SDM warning has been exited/cancelled.
0x2	Accepted	SDM warning has been confirmed and accepted.
0x3	NotUsed_1	Not used

### 2.5.3 MD-REQ-334802/A-LSdmRqDis

LSdmRqDis: This signal provides the requested selectable drive mode as selected by the user through the Client HMI interface.

State	Encoding
0x0	SelDrvMde01
0x1	SelDrvMde02
0x2	SelDrvMde03
0x3	SelDrvMde04
0x4	SelDrvMde05
0x5	SelDrvMde06
0x6	SelDrvMde07
0x7	SelDrvMde08
0x8	SelDrvMde09
0x9	SelDrvMde10
0xA	SelDrvMde11
0xB	SelDrvMde12
0xC	SelDrvMde13
0xD	SelDrvMde14
0xE	SelDrvMde15
0xF	SelDrvMde16
0x10	SelDrvMde17
0x11	SelDrvMde18
0x12	SelDrvMde19
0x13	SelDrvMde20
0x14	SelDrvMde21
0x15	SelDrvMde22
0x16	SelDrvMde23
0x17	SelDrvMde24
0x18	SelDrvMde25
0x19	SelDrvMde26
0x1A	SelDrvMde27
0x1B	SelDrvMde28
0x1C	SelDrvMde29
0x1D	SelDrvMde30
0x1E	SelDrvMde31
0x1F	Faulty



#### 2.5.4 MD-REQ-334803/A-LSdmStDis

LSdmStDis: This signal is sent from the client to the server to indicate the current screen state of the Client HMI.

State	Encoding	Description
0x0	Inactive	SDM Selection page not shown
0x1	Active	SDM Selection page shown

Whenever Client HMI is in SDM feature, the signal value is Active.

#### 2.5.5 MD-REQ-334807/B-LDisFalFbmp

LDisFalFbmp : This signal is sent by the client to the server to indicate display status or any potential fault with the feature on the client side, such as HMI interface not working or other possible fault states.

This signal uses Feature Based Messaging Protocol. Feature ID 0x0030.

Set values are:

Value	Description
0x0	Not Used
0x1	No Display Fault
0x2	Display Faulted
0x3	SDM Failure

Refer to FBMP SPSS for Feature Based Messaging Protocol operational details. Req 361027 takes precedence over any FBMP SPSS content.



### 3 General Requirements

#### 3.1 SDM-REQ-333124/A-Missing Signals

In case a signal goes missing for longer than 5 signal periods, the client shall log a "Lost Communication" DTC.

The client shall also send LDisFalFbmp (FeatureID 0x0030, Configuration = Set, Config = 0x3, PerIndex= Vehicle).

#### 3.2 SDM-REQ-333125/A-Invalid Signals

The client shall consider invalid any signal that comes with values not used or with values that are not applicable due to configurations.

The client shall also send LDisFalFbmp (FeatureID 0x0030, Configuration = Set, Config = 0x3, PerIndex= Vehicle).

#### 3.3 SDM-REQ-334908/A-Client Faulty

In case client has detected any internal fault with HMI input, it shall send the signal like below (if it is able to do that)

The client shall also send LDisFalFbmp (FeatureID 0x0030, Configuration = Set, Config = 0x2 [Display Faulted] , PerIndex= Vehicle).

Any DTC from the list below should generate the above message:

DTC 0x908E01 - Display General Electrical Failure  
DTC 0x908E4A - Display Incorrect Component Installed  
DTC 0x908E02 - Display General Signal Failure  
DTC 0xC16200 - Lost Communication With Navigation Display Module No Sub Type Information  
DTC 0x908E87 - Display Missing Message  
DTC 0xF00041 - Control Module General Checksum Failure  
DTC 0xF00004 - Control Module System Internal Failure  
DTC 0xF00088 - Control Module Bus off  
DTC 0xF00317 - Battery Voltage Circuit Voltage Above Threshold  
DTC 0xF00316 - Battery Voltage Circuit Voltage Below Threshold  
DTC 0x908E02 - Display General Signal Failure  
DTC 0x908E4B - Display Over Temperature

Client shall use LDisFalFbmp (FeatureID 0x0030, Configuration = Set, Config = 0x2 [Display Faulted] , PerIndex= Vehicle) only for SDM relevant faults.

#### 3.4 SDM-REQ-361035/A-No Faulty Display

In cases where there are no missing signals, or invalid signals or any errors as mentioned in SDM-Req-334908 the client shall send the data below:

The client shall also send LDisFalFbmp (FeatureID 0x0030, Configuration = Set, Config = 0x1 [No Display Fault], PerIndex= Vehicle).

#### 3.5 SDM-REQ-361027/A-Display Status Update

The message LDisFalFbmp should be sent with the applicable feature configuration value every 5sec (period of 5000ms) for 100ms.

#### 3.6 SDM-REQ-334799/A-SDM Soft Key Availability

The Drive Mode Switch soft key shall be greyed out as long as the Ignition Status is different from Run or Start.



### 3.7 SDM-REQ-334800/C-Soft Key Availability While SDM Faulty

The SDM soft key switch shall be available (not depending on the state of the feature faulty or not) however, the selectable drive modes should be grayed out when Server is faulty. If user selects any of the drive modes, even when they are grayed out, the client shall send the proper mode request change to the server.

### 3.8 SDM-REQ-334801/C-SDM Selection Page

When the Drive Mode Switch soft key is selected, the Client HMI shall display the SDM selection screen.

As long as SDM selection page is shown, Client shall set the signal LSdmStDis equal to Active.

The Client shall close the SDM selection page and set the LSdmStDis CAN signal equal to Inactive when another page is selected by the user.

### 3.9 SDM-REQ-335109/B-Text Display

There are multiple actions that the client should do, when LSdmMsg with a value of non 0x0 is delivered to the client.

The text popup is to be displayed for as long as LSdmMsg has a value different from 0x0. When LSdmMsg is again set to 0x0, the popup should be removed.

These two Client Tx signals, are linked to LSdmMsg parameters;

SdmMsgReset

SdmCnfMsg

When LSdmMsg has the values 0x2, 0x3, 0x4, 0x5 or 0x6, the values of the two Client TX signals should be like below:

SdmMsgReset send a 0x0 (No) whenever the warning is displayed.

SdmCnfMsg is sent with a value of 0x0 (Null) .

When user clicks on the popup,

SdmMsgReset sends 0x1 (Yes)

SdmCnfMsg is sent with a value of 0x0 (Null)

When LSdmMsg has the value 0x7, the values of the two Client TX signals should be like below:

SdmMsgReset send a 0x0 (No) whenever the warning is displayed.

SdmCngMsg is sent with a value of 0x1 or 0x2, depending on user's response.

### 3.10 SDM-REQ-335110/A-Change Mode Rq Server Replies

When a user requests a SDM change, they expect the mode to change. There may be cases where the mode may not change.

In cases where a user SDM change was done, but the state of SDM is the same, then the Client shall keep track of this server inaction in an error variable.

In cases where a user SDM change was done, but the state of SDM changes, however it is not the SDM that the user requested, then the Client shall consider this operation as successful behavior of server and no error is to be recorded.



### 3.11 SDM-REQ-336981/A-Remembering Modes And Positions

The client should remember available drive modes and their respective positions in HMI screen through an ignition cycle.

Background info: The drive modes are transmitted at large period of times (100 sec) from the server. The first time the signal is sent, it could be missed by the client. To not keep the feature screen blank until the next signal data, the client should remember the states before ignition cycle and repopulate the feature HMI screen with previous ignition cycle content.

### 3.12 SDM-REQ-336983/A-Requesting Drive Mode Change

The signal that request drive mode is LSdmRqDis. The value of this signal should be all the time 0x1F, unless the user requests a mode change, in which case, it should be the proper hex value. Once the proper change request has been sent to the bus once, the value should go back to 0x1F.

### 3.13 SDM-REQ-337301/A-Error Counter

When client sends a request for mode change and the new drive mode state doesn't come within timer MaxResponseTimer, the error counter SDMFeedbackError will be incremented.

SDMFeedbackError will increment every time the condition above is satisfied. This value is reset to 0 at ignition cycle or if a SDM mode change comes within allowed time.

When MaxSDMFeedbackErrors is reached, the client shall send LDisFalFbmp (FeatureID 0x0030, Configuration = Set, Config = 0x3, PerIndex= Vehicle).

MaxResponseTimer is a configurable parameter. Check with Diagnostics spec for this value. It represents the max allowed time for server to provide new SDM change signal.

MaxSDMFeedbackErrors is a configurable error counter parameter. Check with Diagnostics spec for this value. This parameter represent total number of errors allowed before client transmits SDM failure signal to the server.



## 4 Functional Definition

### 4.1 SDM-FUN-REQ-333084/A-SDM

#### 4.1.1 Use Cases

##### 4.1.1.1 SDM-UC-REQ-334792/A-Open Selection Screen

<b>Actors</b>	Driver
<b>Pre-conditions</b>	The ignition is on. Client display is in a non SDM screen
<b>Scenario Description</b>	The driver touches SDM feature access in Client screen.
<b>Post-conditions</b>	<ul style="list-style-type: none"><li>- Client displays the SDM selection screen<ul style="list-style-type: none"><li>o the CAN signal Drive Mode Position communicates the drive modes and the sequence that the modes shall be displayed</li><li>o the CAN signal Drive Mode Position Availability communicates the drive modes that shall be grayed out / hidden</li></ul></li><li>- Client communicates SDM Main Arbitration via the CAN signal SDM Selection Page Active the status of the selection screen</li></ul>
<b>List of Exception Use Cases</b>	<ul style="list-style-type: none"><li>- SDM Feature is faulted out, communicated via Active Drive Mode = Faulty.<ul style="list-style-type: none"><li>o SDM soft button shall be greyed out</li></ul></li></ul>
<b>Interfaces</b>	Client HMI screen.

##### 4.1.1.2 SDM-UC-REQ-334793/A-Selecting Drive Mode

<b>Actors</b>	Driver
<b>Pre-conditions</b>	The ignition is on. Client displays the SDM selection screen with the available drive modes
<b>Scenario Description</b>	The driver touches and releases the soft button of a drive mode <ul style="list-style-type: none"><li>a. Client highlighted the touched drive mode as the selected drive mode</li><li>b. Client via the CAN signal "SDM Driver Selected Drive Mode" the selected drive mode to SDM Main Arbitration</li></ul> Center stack waits confirmation from SDM Main Arbitration
<b>Post-conditions</b>	Server confirms the selection Client highlights the drive mode according to the CAN signals "Drive Mode Request" and "Drive Mode Request Status"
<b>List of Exception Use Cases</b>	<ul style="list-style-type: none"><li>i) Server does not send a feedback<ul style="list-style-type: none"><li>a. Client removes the highlight from selected drive mode</li></ul></li></ul>
<b>Interfaces</b>	Client Hmi interface

##### 4.1.1.3 SDM-UC-REQ-334794/A-Close Selection Screen

<b>Actors</b>	User
<b>Pre-conditions</b>	Ignition is On. Client displays the SDM selection screen with the available drive modes.



<b>Scenario Description</b>	User selects another feature in Client HMI screen. Client send feature screen state to the server through LSdmStDis signal.
<b>Post-conditions</b>	LSdmStDis signal status is 0x0 (Inactive)
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	

#### 4.1.1.4 SDM-UC-REQ-334795/A-Client Warning Display

<b>Actors</b>	SDM Main Arbitration
<b>Pre-conditions</b>	The ignition is on.
<b>Scenario Description</b>	SDM Server detects a condition that shall be communicated to the driver SDM Server requests SDM Client to display a SDM Warning
<b>Post-conditions</b>	SDM Client HMI displays the requested SDM Warning
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	SDM Client HMI

#### 4.1.1.5 SDM-UC-REQ-334796/A-Server Warning Arbitration

<b>Actors</b>	SDM Server
<b>Pre-conditions</b>	The ignition is on.
<b>Scenario Description</b>	SDM Client HMI is displaying a SDM Warning User acknowledges the warning pressing OK / Cancel
<b>Post-conditions</b>	SDM Client HMI displays close the SDM Warning SDM Client communicates SDM Main Arbitration the warning is closed via "SDM Display Message Text Reset"
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	SDM Client HMI

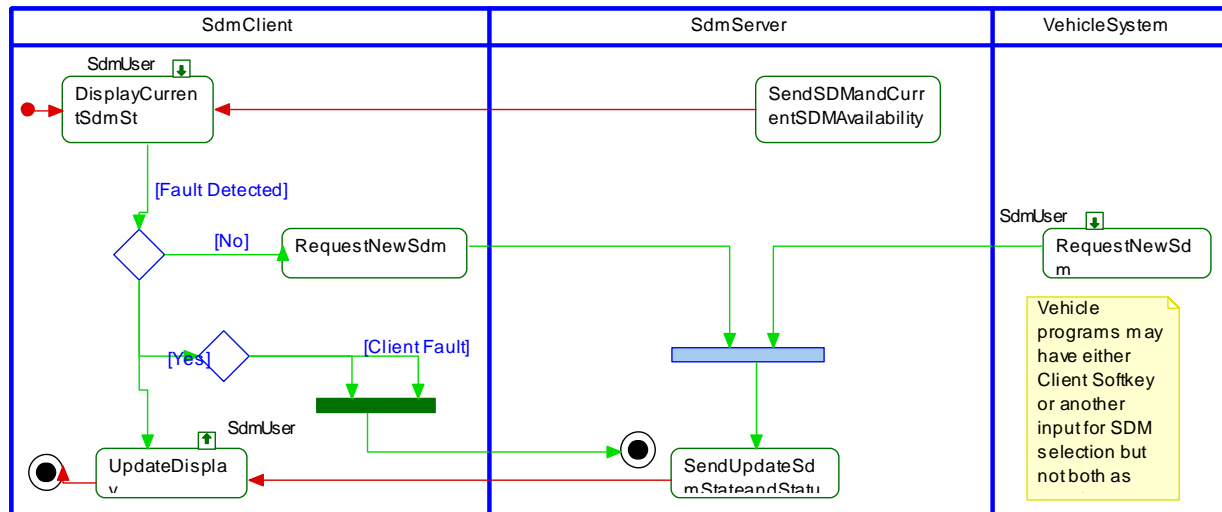




## 4.1.2 White Box Views

## 4.1.2.1 Activity Diagrams

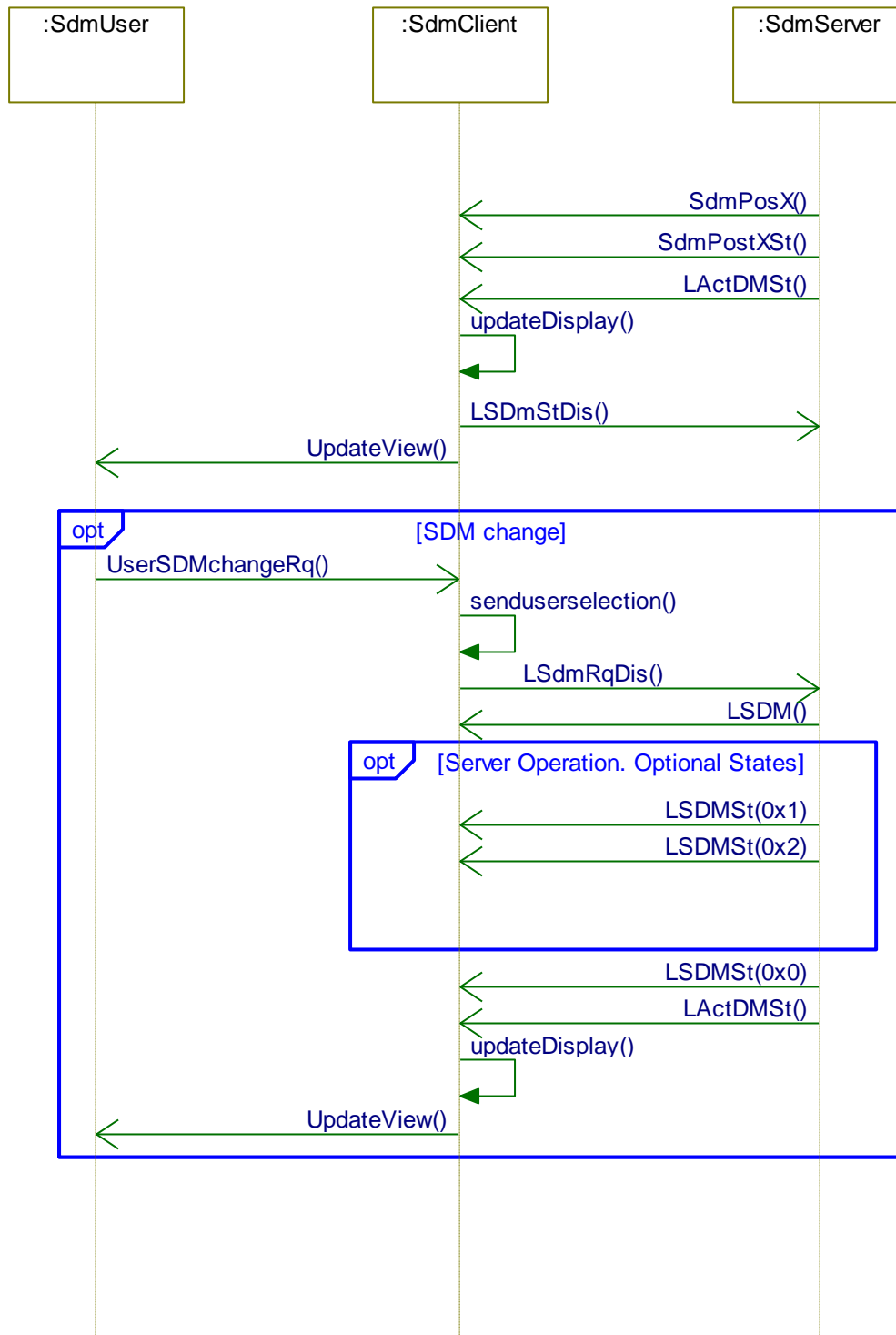
## 4.1.2.1.1 SDM-ACT-REQ-334813/A-SDM Activity Diagram





## 4.1.2.2 Sequence Diagrams

## 4.1.2.2.1 SDM-SD-REQ-334815/A-SDM Operation SD





## 5 Appendix: Reference Documents

APIM Feature Based Messaging Protocol