



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

**Feature – Rejuvenate**

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

Version 1.0

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## Revision History

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# 1 Architectural Design

## 1.1 Overview

The Rejuvenate feature provides environment for customer to relax and recharge whenever they need by providing immersive sights, sounds, and scents. The feature will also encompass massage seating and orchestrated climate to further the immersion and relaxation. When the customer exits their vehicle, they should do so feeling refreshed and energized – ready to greet the next part of their day with a renewed purpose.

## 1.2 RJV-CLD-REQ-413904/A-RJV Server

Rejuvenate Server (RJVServer) shall pass commands to Rejuvenate clients to activate required features as per set parameters .

## 1.3 RJV-CLD-REQ-413905/A-RJV Client1

Rejuvenate Client1 (RJVClient1) shall take commands from RJVServer to set parameters for climate, EM register, heated seats, cooled seats experience as required to provide rejuvenate experience as selected by customer. RJVClient1 also provides RJVServer the status of rejuvenate climate logic and if it is overridden.

## 1.4 RJV-CLD-REQ-437967/A-RJV Client2

Rejuvenate Client2 (RJVClient2) shall take commands from RJVServer to set parameters for lighting experience as required to provide rejuvenate experience as selected by customer.

## 1.5 RJV-CLD-REQ-437968/A-RJV Client3

Rejuvenate Client3 (RJVClient3) shall take commands from RJVServer to set parameters for seat position as required to provide rejuvenate experience as selected by customer.

## 1.6 RJV-CLD-REQ-437969/A-RJV Client4

Seat Position: Rejuvenate Client4 (RJVClient4) shall provide personalization profile to save seat position for rejuvenate experience. It also saves pre-rejuvenate seat position to recall after experience is ended or aborts.  
Door Status: Rejuvenate Client4 (RJVClient4) shall provide doors close/open, lock/unlock status through SOA based Enclosure Service.

## 1.7 RJV-CLD-REQ-437970/A-RJV Client5

Rejuvenate Client5 (RJVClient5) shall take commands from RJVServer to set parameters for steering column movement as required to provide rejuvenate experience as selected by customer.

## 1.8 RJV-CLD-REQ-437971/A-RJV Client6

Rejuvenate Client6 (RJVClient6) shall take commands from RJVServer to set parameters for seat message operation as required to provide rejuvenate experience as selected by customer.

## 1.9 DST-CLD-REQ-376671/A-Digital Scent Client

The Digital Scent Client is responsible to provide the user HMI, to store and apply user settings using the Enhanced Memory feature, to receive OTA updates and to store scent data tables, to conditionally transmit selected subsets of scent data tables to the Digital Scent Server, to prioritize scenting requests from scent related features, to transmit scenting commands to the Digital Scent Server, to receive status information from the Digital Scent Server.



## 1.10 VS-CLD-REQ-025445/B-Ambient Lighting / Vehicle Settings Client (TcSE ROIN-159910-1)

Responsibility : The Ambient Lighting Settings Client makes requests to the external vehicle settings function to change Ambient lighting color or intensity as requested by the user.

## 1.11 AUMGNTv2-CLD-REQ-410571/A-Audio Resource Server

The Audio Resource Server object acts as the overall audio manager which is responsible for the interfaces between the requesters for the audio system (ie source clients/resource clients).

The Audio Resource Server is the audio prioritizer for audio requests.

The Audio Resource Server is responsible for providing the status of the audio sources to the source clients and status of the infotainment system.

The Audio Resource Server can stream audio to the Audio I/O controller for applicable sources

The Audio Resource Server mutes/unmutes its audio output signal as necessary for source changes.

## 1.12 Physical Mapping of Classes

The table below shows how the logical classes that make up the Rejuvenate feature may be mapped into physical modules.

Logical Class	Physical Module (ECU)
RJVServer	APIM PDC
RJVClient1	RCCM
RJVClient2	BCM
RJVClient3	DSM
RJVClient4	ECG
RJVClient5	PSM
RJVClient6	SCMG
RJVClientX	RJVClient 1 through 6
DigitalScentClient	APIM PDC
AmbientLightingClient	APIM PDC
AudioResourceServer	APIM PDC

## 1.13 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.

Logical Name	CAN Signal Name
RActv_St	RjvntActv_D_Stat
RThemSel_St	RjvntThemSel_D_Stat
RPhs_St	RjvntPhs_D_Stat
RSeatHeat_Rq	RjvntSeatHeat_B_Rq
RSeatCool_Rq	RjvntSeatCool_B_Rq
RClimt_St	RjvntClimt_B_Stat
RSeatMassage_Rq	SeatFnDrv_D_Rq
LightAmbColor_No_Rq	LightAmbColor_No_Rq
LightAmbIntsty_No_Rq	LightAmbIntsty_No_Rq
LghtAmbRqSrc_B_Stat	LghtAmbRqSrc_B_Stat



CabinScentMode_St	CabnScentMde_D_Stat
CabinScentIntensity_St	CabnScentIntns_D_Stat
CabinScentChannel_St	CabnScentChnl_D_Stat
RClimtOvrrd_St	RjvntClimtOvrrd_D_Stat
RSeatOvrrd_St	RjvntSeatOvrrd_D_Stat
RClimtOvrdTyp_St	RjvntClimtOvrdTyp_D_Stat
GearPosition_St	TrnRng_D_Rq
Ignition_Status	Ignition_Status

## 1.14 RJV-IIR-REQ-413906/A-RJV Server\_Tx

### 1.14.1 MD-REQ-437972/A-RActv\_St

Message Type: Status

This signal shall be sent by the RJVServer to provide feature status

Name	Literals	Value	Description
RActv_St	-	-	Feature status
	Inactive	0x0	
	Active	0x1	
	Not Used	0x2	
	Faulty	0x3	

### 1.14.2 MD-REQ-437973/A-RThemSel\_St

Message Type: Status

This signal shall be sent by the RJVServer to provide theme selected status

Name	Literals	Value	Description
RThemSel_St	-	-	Theme selected status
	Null	0x0	
	Theme1	0x1	
	Theme2	0x2	
	Theme3	0x3	
	Theme4	0x4	
	Theme5	0x5	
	Theme6	0x6	
	Theme7	0x7	
	Theme8	0x8	
	Theme9	0x9	
	Theme10	0xA	
	Theme11	0xB	
	Theme12	0xC	
	Theme13	0xD	
	Theme14	0xE	
	Theme15	0xF	

**1.14.3 MD-REQ-437974/A-RPhs\_St**

Message Type: Status

This signal shall be sent by the RJVServer to provide feature phase status

Name	Literals	Value	Description
RPhs_St	-	-	Feature status
	Inactive	0x0	
	Relax	0x1	
	Invigorate	0x2	
	Exit	0x3	
	Abort	0x4	
	Not used	0x5 –	

**1.14.4 MD-REQ-437975/A-RSeatHeat\_Rq**

Message Type: Request

This signal shall be sent by the RJVServer to request heated seat On/Off

Name	Literals	Value	Description
RSeatHeat_Rq	-	-	Feature status
	Off	0x0	
	On	0x1	

**1.14.5 MD-REQ-437977/A-RSeatCool\_Rq**

Message Type: Request

This signal shall be sent by the RJVServer to request cooled seat On/Off

Name	Literals	Value	Description
RSeatCool_Rq	-	-	Feature status
	Off	0x0	
	On	0x1	

**1.14.6 MD-REQ-437978/A-RSeatMassage\_Rq**

Message Type: Request

This signal shall be sent by the RJVServer to request seat massage On/Off

Logical Signal Name	Literals	Value	Description
RSeatMassage_Rq	Inactive	0x0	
	LowerLumbar	0x1	
	MiddleLumbar	0x2	
	UpperLumbar	0x3	
	LowerBolster	0x4	
	UpperBolster	0x5	
	LumbarMassage	0x6	
	CushionMassage	0x7	

**1.14.7 MD-REQ-192189/B-LightAmbColor\_No\_Rq - Variant 2**

Message Type: Request





The Ambient Lighting Client uses this signal to request the color selection for ambient lighting from the Ambient Lighting Server.

Logical Signal Name	Literals	Value	Description
LightAmbColor_No_Rq – Variant 2	Inactive	0x00	
	Color ID1	0x01	
	Color ID2	0x02	
	Color ID3	0x03	
	Color ID4	0x04	
	Color ID5	0x05	
	Color ID6	0x06	
	Color ID7	0x07	
	Color ID8	0x08	
	Color ID9	0x09	
	Color ID10	0x0A	
	Color ID11	0x0B	
	Color ID12	0x0C	
	Color ID13	0x0D	
	Color ID14	0x0E	
	Color ID15	0x0F	
	Color ID16	0x10	
	Reserved	0x11 to 0xFF	

#### 1.14.8 MD-REQ-192190/B-LightAmbIntsty\_No\_Rq - Variant 2

Message Type: Request

This signal requests the selection of intensity for ambient lighting.

Logical Signal Name	Literals	Value	Description
LightAmbIntsty_No_Rq – Variant 2	Inactive / No Data Exits	0x00	
	0% Intensity / Ambient Lighting OFF	0x01	
	1% Intensity	0x02	
	2% Intensity	0x03	
	3% Intensity	0x04	
	cont.	...	
	100% Intensity	0x65	
	Ambient Lighting Turn ON	0x66	

#### 1.14.9 MD-REQ-426848/A-LghtAmbRqSrc\_B\_Stat

Message Type: Status

Signal from the Phoenix PDC Ambient Lighting Client module indicating if in manual or automatic mode

Logical Signal Name	Literals	Value	Description
LghtAmbRqSrc_B_Stat	Manual	0x0	
	Auto	0x1	

**1.14.10 MD-REQ-377212/A-CabinScentMode\_St**

Message Type: Status

Signal provides the scenting operation status of scent module.

Name	Literals	Value	Description
	-	-	
	AwakeNotScenting	0x0	
	AwakeScenting	0x1	

**1.14.11 MD-REQ-377213/A-CabinScentChannel\_St**

Message Type: Status

Signal provides the currently selected scent channel (scent cartridge) status in the scent module.

Name	Literals	Value	Description
	-	-	
	Off	0x0	
	Channel_1	0x1	
	Channel_2	0x2	
	Channel_3	0x3	
	Channel_4	0x4	
	Channel_5	0x5	
	Channel_6	0x6	
	Channel_7	0x7	

**1.14.12 MD-REQ-377214/A-CabinScentIntensity\_St**

Message Type: Status

Signal provides the current status of scent level intensity in the scent module.

Name	Literals	Value	Description
	-	-	
	NotDetermined	0x0	
	Off	0x1	
	NotUsed_1	0x2	
	Low	0x3	
	NotUsed_2	0x4	
	Medium	0x5	
	NotUsed_3	0x6	
	High	0x7	

**1.15 RJV-IIR-REQ-413908/A-RJV Server\_Rx**

**1.15.1 MD-REQ-437980/A-RClimt\_St**

Message Type: Status

This is feature climate status signal received by RJVServer

Name	Literals	Value	Description
RClimt_St	-	-	Feature climate status
	Off	0x0	
	On	0x1	

**1.15.2 MD-REQ-437981/A-RClimtOvrrd\_St**

Message Type: Status

This is feature climate overridden status signal received by RJVServer

Name	Literals	Value	Description
RClimtOvrrd_St	-	-	Feature climate overridden status
	Active	0x0	
	Overridden	0x1	
	Not used	0x2	
	Faulty	0x3	

**1.15.3 MD-REQ-437982/A-RSeatOvrrd\_St**

Message Type: Status

This is feature seat climate overridden status signal received by RJVServer

Name	Literals	Value	Description
RSeatOvrrd_St	-	-	Feature seat climate overridden status
	Active	0x0	
	Overridden	0x1	
	Not used	0x2	
	Faulty	0x3	

**1.15.4 MD-REQ-437983/A-RClimtOvrrd\_St**

Message Type: Status

This is feature climate overridden type signal received by RJVServer

Name	Literals	Value	Description
RClimtOvrdTyp_St	-	-	Feature climate overridden type
	NoOverrides	0x0	
	Climate Power Off	0x1	
	Blower Changes	0x2	
	Auto Selected	0x3	
	Temperature Changes	0x4	
	Mode Changes	0x5	
	Recirc Changes	0x6	
	Seat Climate Changes	0x7	
	EM Register Changes	0x8	



	Not used	0x9 –	
	Faulty	0xF	

### 1.15.5 MD-REQ-403324/A-GearPosition\_St

Message Type: Status

This signal is used to indicate the gear position status

Name	Literals	Value	Description
GearPosition_St	-	-	Status of the vehicle Gear Position
	Park	0x0	
	Reverse	0x1	
	Neutral	0x2	
	Drive	0x3	
	Sport_DriveSport_Mposition	0x4	
	Low	0x5	
	Range1_M1_L1	0x6	
	Range2_M2_L2	0x7	
	Range3_M3_L3	0x8	
	Range4	0x9	
	Range5	0xA	
	Range6	0xB	
	NotUsed_1	0xC	
	NotUsed_2	0xD	
	Unknown_Position	0xE	
	Fault	0xF	

### 1.15.6 MD-REQ-273750/A-Ignition\_Status

Message Type: Status

Signal sent to the infotainment system indicating the ignition status of the vehicle

Logical Signal Name	Literals	Value	Description
Ignition_Status	Unknown	0x0	
	OFF	0x1	
	Accessory	0x2	
	Run	0x4	
	Start	0x8	
	Invalid	0xF	



## 2 General Requirements

### 2.1 RJV-REQ-438019/A-Preconditions for Rejuvenate Experience

For RJVServer to process this feature signals and for HMI to provide Rejuvenate screens following preconditions should be met:

1. Vehicle engine is Active, which is determined by Ignition\_Status = 0x4 (Run) or 0x8 (Start) or 0x2 (Acc)  
Note: Acc mode applies only for Electric Vehicles
2. Vehicle is in park position, GearPosition\_St = 0x0 (Park)
3. All doors closed, RJVClient4 shall provide information via SOA (Encloser Services API) to indicate status of the doors and RJVServer shall identify doors have been closed

### 2.2 RJV-REQ-442203/A-Configuration Settings

Fuel type configuration needs to be checked to determine engine running conditions. When Fuel Type parameter in DID DE04 is set to 0x2 (BEV), Engine status shall be set to Active for Ignition Status = 0x2 (Acc) as well. Refer to Part-2 spec for config parameter details.

### 2.3 RJV-REQ-438020/A-HMI requirements for feature

HMI display for this feature is available only when all the 3 preconditions are met.

Further details of how to navigate to the screen, look/placement/accessing of buttons and timing requirements for button presses is covered in HMI specification document (X93\_Rejuvenate).

**Note:** In case of discrepancy in the HMI requirements defined in this spec and HMI specification document the HMI specification document shall take precedence.

### 2.4 VS-SR-REQ-426847/A-LghtAmbRqSrc\_B\_Stat signal usage

The Ambient Lighting Client shall not be set "LghtAmbRqSrc\_B\_Stat = Auto" unless explicitly called out in a feature SPSS spec (ex Rejuvenate SPSS). All other times the Ambient Lighting Client shall have LghtAmbRqSrc\_B\_Stat set to Manual. Reference the feature SPSS spec for when "Auto" would be set and when "Manual" would be set.

This requirement is only for the Phoenix PDC Module. At the time this spec was written this was not for other modules that might be the Ambient Lighting Client (ex RACM).

### 2.5 RJV-REQ-438021/A-Save/Recall Parameters

#### **Driver Seat Positions**

Upon entering the "Entry Phase" the RJVClient3 shall read and store the current value for each of the below driver seat positions and recall them Upon entering the "Abort Sequence" or "Exit Phase":

- position (forward/back) on track
- position (up/down) on track
- cushion track fore/aft
- cushion track up/down
- cushion track tilt
- cushion extension left
- cushion extension right
- back recline
- back upper pivot
- back lumbar (mechanical or bladders)
- head rest fore/aft
- head rest up/down
- cushion bolster bladders
- back bolster bladders
- calf raise (up-down)

#### **Audio Parameters**



Upon entering the "Entry Phase", the AudioResourceServer shall read and store the appropriate settings for Audio, including but not limited to audio input, audio volume, treble, bass, balance, fade, etc; and recall them upon entering the "Abort Sequence" or "Exit Phase".

TBD

#### **Climate Parameters**

Upon entering the "Entry Phase", the RJVClient1 shall read and store the current settings for climate, including but not limited to set temperature, blower mode, blower speed, etc; and recall them upon entering the "Abort Sequence" or "Exit Phase".

#### **EM Register Parameters**

Upon entering the "Entry Phase", the RJVClient1 shall read and store the current settings for the EM Registers including but not limited to set position, etc; and recall them upon entering the "Abort Sequence" or "Exit Phase".

#### **Ambient Light Parameters**

Upon entering the "Entry Phase", the RJVClient2 shall read and store the current settings for the Ambient lighting system including but not limited to set color, intensity; and recall them upon entering the "Abort Sequence" or "Exit Phase".

## **2.6 RJV-REQ-438022/A-Orchestration Schedule**

RJVServer shall run a schedule of orchestration which triggers all actions to happen at the appropriate time.

The actions include, but are not limited to:

storing/recalling settings, commanding values for settings, dictating when to display/output imagery/audio.

This schedule is represented in "phases" such as: Entry, Relax, Transition, Invigorate, Exit

#### **Entry Phase**

After the user has selected to begin the rejuvenate experience, the rejuvenate feature shall be in the "Entry Phase".

The aim is to prepare the cabin of the vehicle for the rejuvenate experience as defined in "Orchestration with Theme Matrix" document.

During this phase following activities happen:

Current values of different parameters are stored. Refer to Save/Recall parameters section (RJV-REQ-438021/A-Save/Recall Parameters) for details.

The RJVClient3 shall command the doors to be locked.

The RJVClient5 shall command that the steering wheel/column are stowed or pushed away from the user.

The AudioResourceServer shall play the desired audio.

The RJVServer shall display the desired imagery on the main and secondary screen.

The RJVClient2 shall provide the desired Ambient Light experience.

#### **Transition from Entry Phase to Relax Phase**

Rejuvenate feature shall transition from "Entry Phase" to "Relax Phase" once the following actions have been completed:

- the "entry display" image/video has been displayed and allowed to play for its duration
- the "entry lighting" light color and intensity have been output via ambient lighting
- the "entry audio" has been output via the vehicle's audio system and allowed to play for its duration

#### **Relax Phase**

Upon entering the "Relax Phase" RJVServer shall transmit signal RPhs\_St = 0x1 (Relax).

The aim of the "Relax Phase" is to make the user feel relaxed.

During this phase rejuvenate feature shall perform following schedule program of activities as defined in "Orchestration with Theme Matrix" document for "Relax Phase":

The RJVClient3 shall adjust the Driver Seat Position. The user can adjust seat position via manual controls as well.

The RJVClient1 shall provide the desired seat climate, climate and EM Registers experience.

The RJVClient6 shall provide the desired seat massage experience.

The AudioResourceServer shall play the desired audio.

The RJVServer shall display the desired imagery on the main and secondary screen.

The RJVServer shall provide the desired Ambient Light experience.

#### **Transition from Relax Phase to Transition Phase**

Rejuvenate feature shall switch from "Relax Phase" to "Transition Phase" once the "Relax Phase" has been allowed to run through its scheduled program which has been defined in "Orchestration with Theme Matrix" document.

#### **Transition Phase**

The aim of the "Transition Phase" is to alert the user to the upcoming changes which will be part of the "Invigorate Phase".

During this phase rejuvenate feature shall perform following schedule program of activities as defined in "Orchestration with Theme Matrix" document for "Transition Phase":

The RJVClient3 shall adjust the Driver Seat Position.



The RJVClient6 shall make adjustments to the seat massage settings.

The AudioResourceServer shall play the desired audio.

The RJVServer shall display the desired imagery on the main and secondary screen.

The RJVServer shall provide the desired Ambient Light experience.

#### **Transition from Transition Phase to Invigorate Phase**

Rejuvenate feature shall switch from "Transition Phase" to "Invigorate Phase" once the "Transition Phase" has been allowed to run through its scheduled program which has been defined in "Orchestration with Theme Matrix" document.

#### **Invigorate Phase**

Upon entering the "Invigorate Phase" RJVServer shall transmit signal RPhs\_St = 0x2 (Invigorate).

The aim of this phase is to make the user feel Invigorated.

During this phase rejuvenate feature shall perform following schedule program of activities as defined in "Orchestration with Theme Matrix" document for "Invigorate Phase":

The RJVClient3 shall adjust the Driver Seat Position. The user can adjust seat position via manual controls as well.

The RJVClient1 shall provide the desired seat climate, climate and EM Registers experience.

The RJVClient6 shall provide the desired Seat Massage experience.

The AudioResourceServer shall play the desired audio.

The RJVServer shall display the desired imagery on the main and secondary screen.

The RJVServer shall provide the desired Ambient Light experience.

#### **Transition from Invigorate Phase to Exit Phase**

Rejuvenate feature shall switch from "Invigorate Phase" to "Exit Phase" once the "Invigorate Phase" has been allowed to run through its scheduled program which has been defined in "Orchestration with Theme Matrix" document.

#### **Exit Phase**

Upon entering the "Exit Phase" RJVServer shall transmit signals RPhs\_St = 0x3 (Exit) and RActv\_St = 0x0 (Inactive).

The aim of this phase is to return the cabin of the vehicle to the conditions that it was in before the rejuvenate experience as defined in "Orchestration with Theme Matrix" document.

During this phase following activities happen:

The stored values of different parameters are recalled. Refer to Save/Recall parameters section (RJV-REQ-438021/A-Save/Recall Parameters) for details

The RJVClient5 shall recall the steering wheel position.

The AudioResourceServer shall play the desired audio.

The RJVServer shall display the desired imagery on the main and secondary screen.

The RJVClient2 shall provide the desired Ambient Light experience.



### 3 Functional Definition

#### 3.1 RJV-FUN-REQ-413910/A-Update Theme

##### 3.1.1 Requirements

###### 3.1.1.1 RJV-REQ-438023/A-Update Theme

Rejuvenate theme content can be modified via OTA. When available and command is sent to vehicle and if vehicle has active cellular data connection the rejuvenate feature shall be able to receive an OTA package that can replace the existing content of a theme with different and/or updated content.

##### 3.1.2 Use Cases

###### 3.1.2.1 RJV-UC-REQ-438005/A-Update Theme

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. The vehicle has a cellular or wifi connection and is ready for OTA.
<b>Scenario Description</b>	OEM will push theme content out to the vehicle.
<b>Post-conditions</b>	The pushed content package will replace the stored content in the appropriate locations.  The next time that the user enters the rejuvenate HMI, the theme changes will be reflected.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

#### 3.2 RJV-FUN-REQ-438064/A-Settings Selection

##### 3.2.1 Requirements

###### 3.2.1.1 RJV-REQ-438024/A-Theme Selection

RJVServer shall allow user to select the theme for rejuvenate experience from available options by pressing "Theme" button on HMI before starting rejuvenate experience.

Once the theme is selected RJVServer shall transmit signal RThemSel\_St = 0x1 through 0xF associated to the selected theme.

For any given theme RJVServer shall set associated Audio, Video, Scent, Ambient lighting/brightness.

###### 3.2.1.2 RJV-REQ-438025/A-Time Selection

RJVServer shall allow user to select the time for rejuvenate experience from available options by pressing "Time" button on HMI before starting rejuvenate experience.

Once rejuvenate experience starts it will run through all the phases for selected time.





### 3.2.1.3 RJV-REQ-438026/A-Heated Seat Selection

RJVServer shall allow user to select if heated seat is turned On or Off by pressing “Heated Seat” button on HMI before starting rejuvenate experience or alter selection while rejuvenate session is in progress.

RJVServer shall transmit signal:

RSeatHeat\_Rq = 0x1 (On) if user toggles “Heated Seat” button to ON

RSeatHeat\_Rq = 0x0 (Off) if user toggles “Heated Seat” button to OFF

Upon receiving this signal RJVClient1 shall set the climate parameters accordingly.

If selection is made while rejuvenate session is in progress, RJVClient1 shall make changes as needed for rest of the experience.

### 3.2.1.4 RJV-REQ-438027/A-Cooled Seat Selection

RJVServer shall allow user to select if cooled seat is turned On or Off by pressing “Cooled Seat” button on HMI before starting rejuvenate experience or alter selection while rejuvenate session is in progress.

RJVServer shall transmit signal:

RSeatCool\_Rq = 0x1 (On) if user toggles “Cooled Seat” button to ON

RSeatCool\_Rq = 0x0 (Off) if user toggles “Cooled Seat” button to OFF

Upon receiving this signal RJVClient1 shall set the climate parameters accordingly.

If selection is made while rejuvenate session is in progress, RJVClient1 shall make changes as needed for rest of the experience.

### 3.2.1.5 RJV-REQ-438028/A-Digital Scent Selection

RJVServer shall allow user to select if digital scent is turned On or Off by pressing “Digital Scent” button on HMI before starting rejuvenate experience or alter selection while rejuvenate session is in progress.

RJVServer shall send internal signal to DigitalScentClient:

Rejuvenate Status = 0x1 (Feature Active) if user toggles “Digital Scent” button to ON and rejuvenate is active

Rejuvenate Status = 0x0 (Feature Not Active) if user toggles “Digital Scent” button to OFF

### 3.2.1.6 RJV-REQ-438029/A-Seat Massage Selection

RJVServer shall allow user to select if seat massage is turned On or Off by pressing “Seat Massage” button on HMI before starting rejuvenate experience or alter selection while rejuvenate session is in progress.

RJVServer shall transmit signal:

RSeatMassage\_Rq = 0x7 (CushionMassage) if user toggles “Seat Massage” button to ON

RSeatMassage\_Rq = 0x2 (MiddleLumbar) if user toggles “Seat Massage” button to OFF

Upon receiving this signal RJVClient6 shall set the seat massage parameters accordingly.

If selection is made while rejuvenate session is in progress, RJVClient6 shall make changes as needed for rest of the experience.

### 3.2.1.7 RJV-REQ-438030/A-Audio Selection

RJVServer shall allow user to select if Audio is turned On or Off by pressing “Audio” button on HMI before starting rejuvenate experience or alter selection while rejuvenate session is in progress.

RJVServer shall send internal signal to AudioResourceServer:

Rejuvenate Audio = On If user toggles “Audio” button ON

Rejuvenate Audio = No Audio If user toggles “Audio” button OFF

Upon receiving this signal AudioResourceServer shall set Audio On or Not accordingly.

If selection is made while rejuvenate session is in progress, AudioResourceServer shall make changes as needed for rest of the experience.

TBD

### 3.2.1.8 RJV-REQ-438031/A-Do Not Disturb Selection

RJVServer shall allow user to select if Do Not Disturb is turned On or Off by pressing “Do Not Disturb” button on HMI before starting rejuvenate experience or alter selection while rejuvenate session is in progress.

RJVServer shall send internal signal to AudioResourceServer:

Rejuvenate DND = On If user toggles “Do Not Disturb” button ON

Rejuvenate DND = Off If user toggles “Do Not Disturb” button OFF

Upon receiving this signal AudioResourceServer shall set Do Not Disturb On or Not accordingly.

If selection is made while rejuvenate session is in progress, AudioResourceServer shall make changes as needed for rest of the experience.



TBD

### 3.2.2 Use Cases

#### 3.2.2.1 RJV-UC-REQ-438006/A-Theme selection

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. All doors are closed. Vehicle engine is Active. Vehicle is in park position.
<b>Scenario Description</b>	User selects required theme on HMI.
<b>Post-conditions</b>	When rejuvenate experience starts the selected theme is displayed.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

#### 3.2.2.2 RJV-UC-REQ-438007/A-Time selection

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position.
<b>Scenario Description</b>	User selects required time on HMI.
<b>Post-conditions</b>	When rejuvenate experience starts it will be available for selected time.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

#### 3.2.2.3 RJV-UC-REQ-438008/A-Heated Seat Selection

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. All doors are closed.



	Vehicle engine is active. Vehicle is in park position.
<b>Scenario Description</b>	User makes required selection for heated seat on HMI.
<b>Post-conditions</b>	User experiences rejuvenate as per the heated seat selection.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

#### 3.2.2.4 RJV-UC-REQ-438009/A-Cooled Seat Selection

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position.
<b>Scenario Description</b>	User makes required selection for cooled seat on HMI.
<b>Post-conditions</b>	User experiences rejuvenate as per the cooled seat selection.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

#### 3.2.2.5 RJV-UC-REQ-438010/A-Digital Scent Selection

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position.
<b>Scenario Description</b>	User makes required selection for scent on HMI.
<b>Post-conditions</b>	User experiences rejuvenate with or without scent as per selection.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

**3.2.2.6 RJV-UC-REQ-438011/A-Seat Massage Selection**

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position.
<b>Scenario Description</b>	User makes required selection for seat massage on HMI.
<b>Post-conditions</b>	User experiences rejuvenate as per the seat massage selection.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

**3.2.2.7 RJV-UC-REQ-438012/A-Audio Selection**

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position.
<b>Scenario Description</b>	User makes required selection for Audio on HMI.
<b>Post-conditions</b>	User experiences rejuvenate with or without Audio as per selection.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

**3.2.2.8 RJV-UC-REQ-438013/A-Do Not Disturb Selection**

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position.

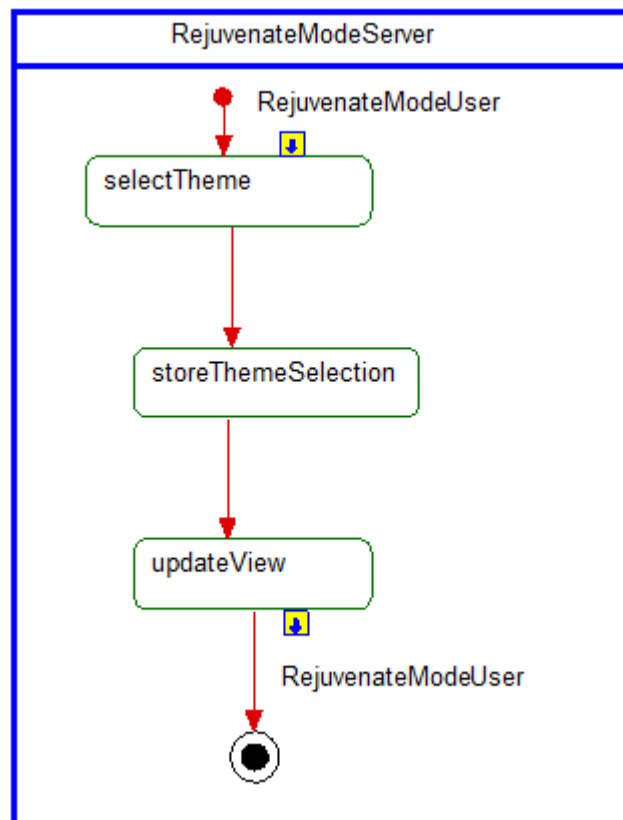


<b>Scenario Description</b>	User makes required selection for Do Not Disturb on HMI.
<b>Post-conditions</b>	User experiences rejuvenate as per the Do Not Disturb selection.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

### 3.2.3 White Box Views

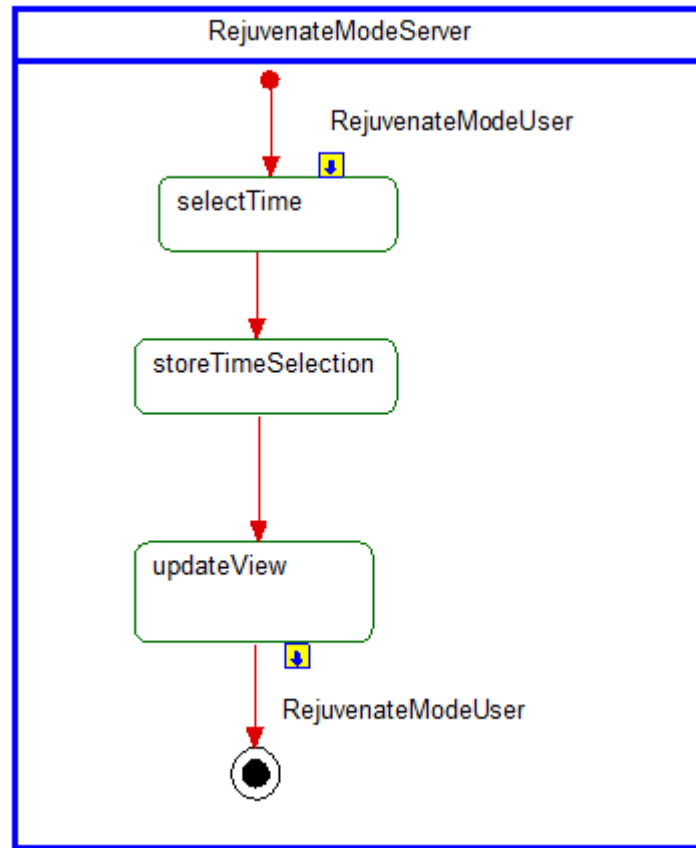
#### 3.2.3.1 Activity Diagrams

##### 3.2.3.1.1 RJV-ACT-REQ-441918/A-Theme Selection

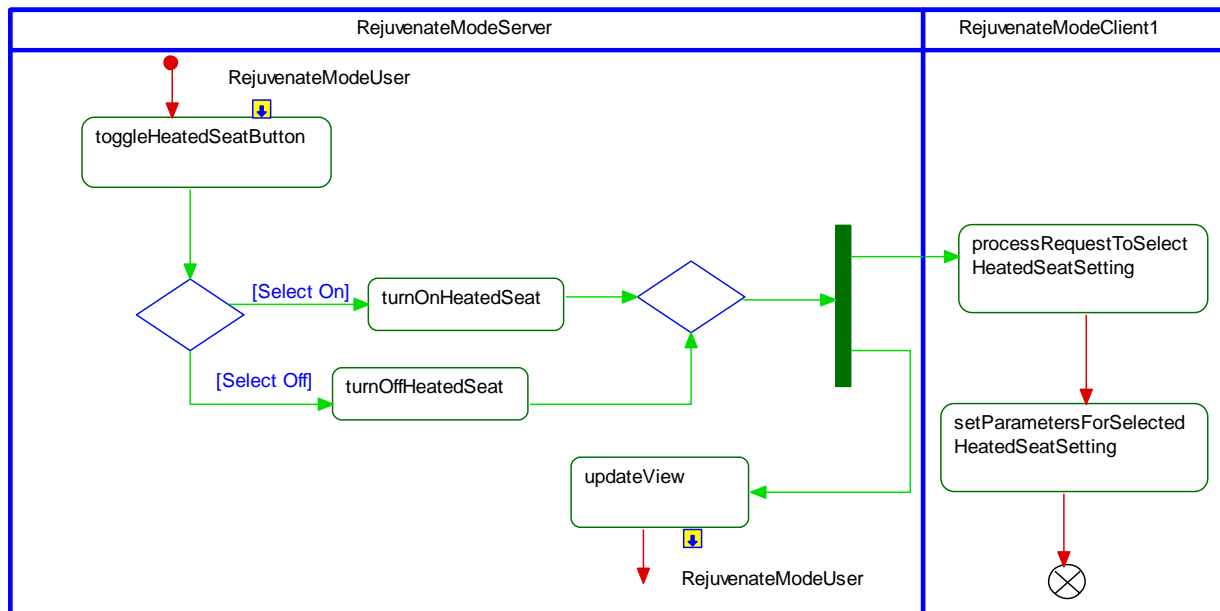




## 3.2.3.1.2 RJV-ACT-REQ-441921/A-Time Selection

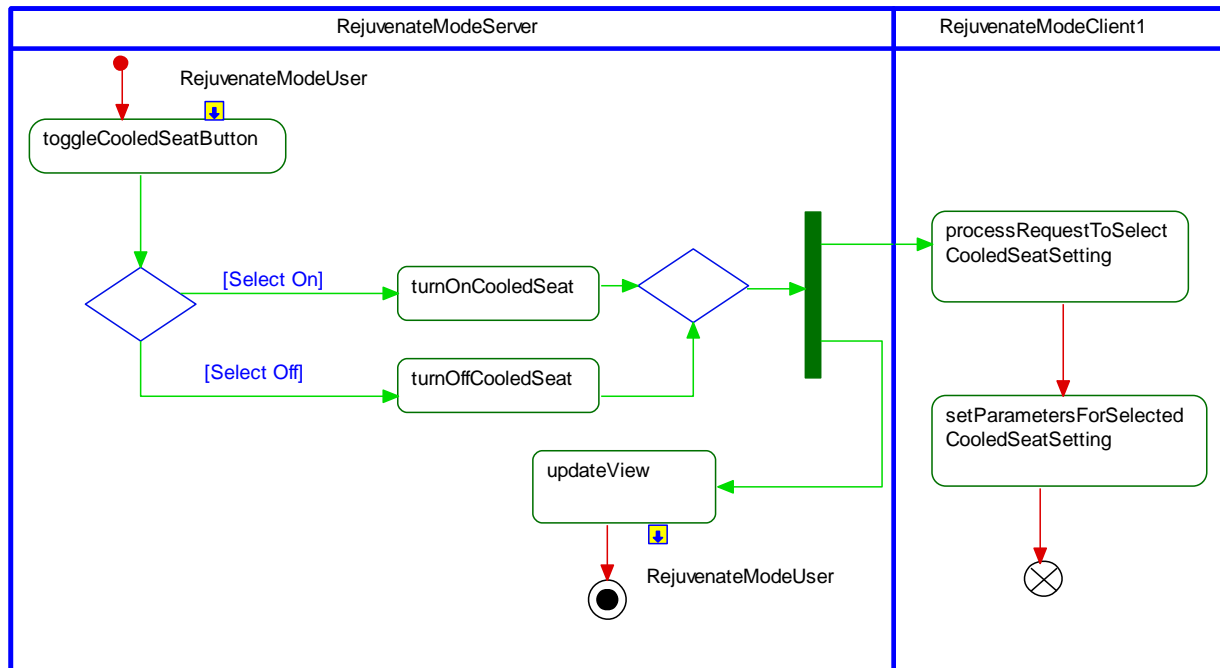


## 3.2.3.1.3 RJV-ACT-REQ-441923/A-Heated Seat Selection

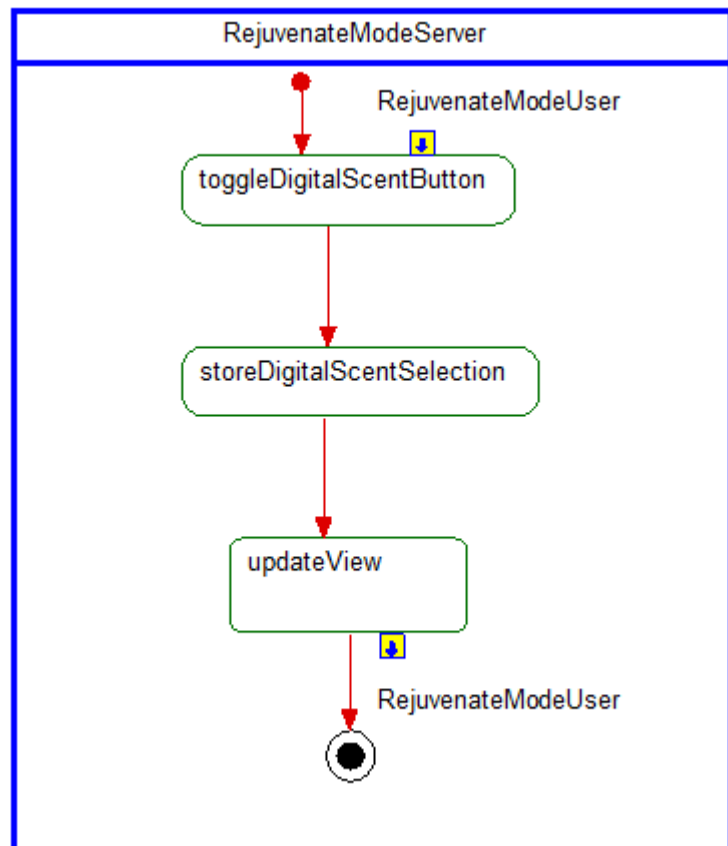




## 3.2.3.1.4 RJV-ACT-REQ-441925/A-Cooled Seat Selection

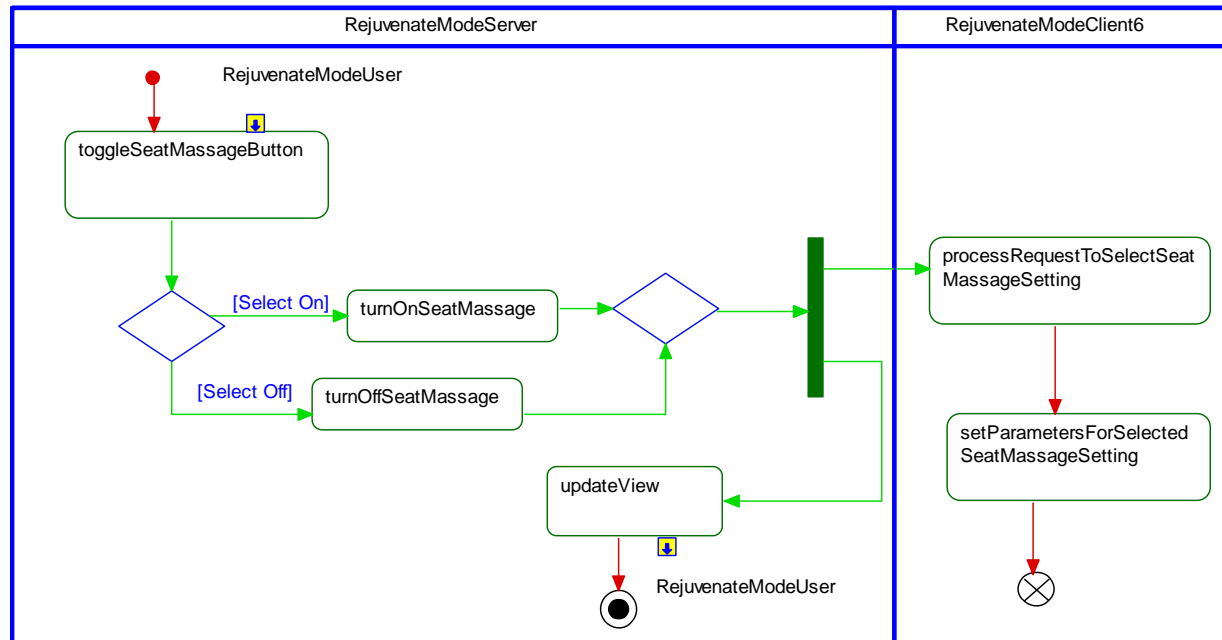


## 3.2.3.1.5 RJV-ACT-REQ-441927/A-Digital Scent Selection

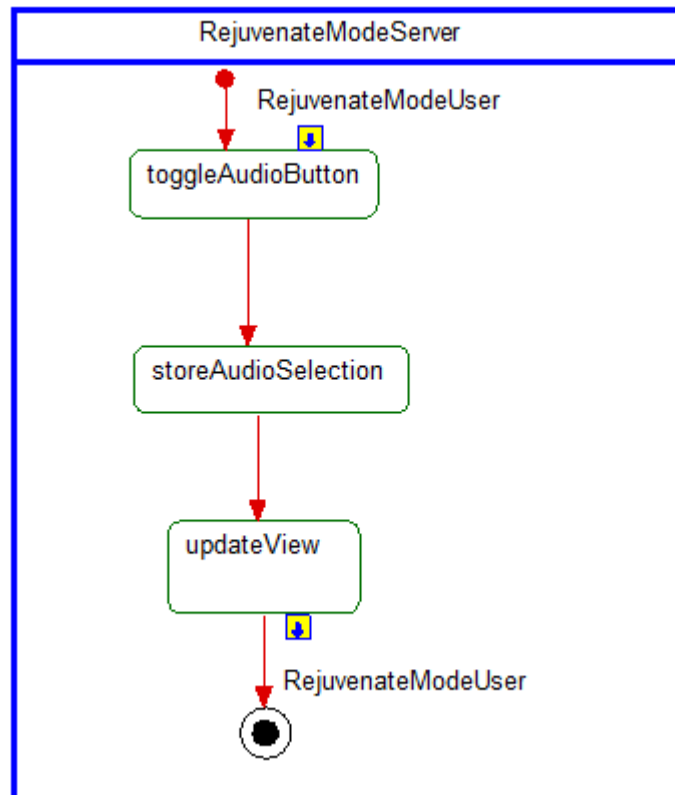




## 3.2.3.1.6 RJV-ACT-REQ-441929/A-Seat Massage Selection

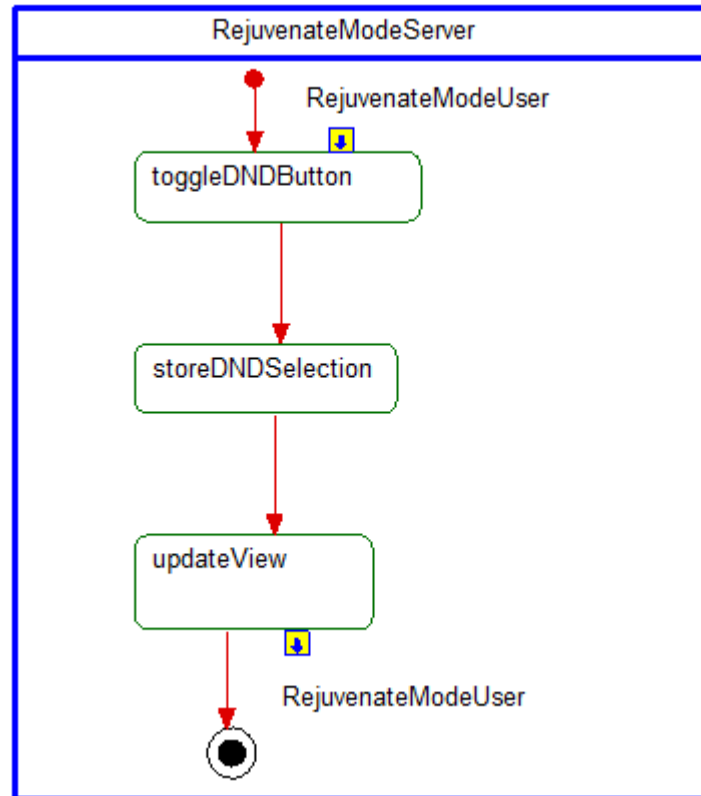


## 3.2.3.1.7 RJV-ACT-REQ-441837/A-Audio Selection



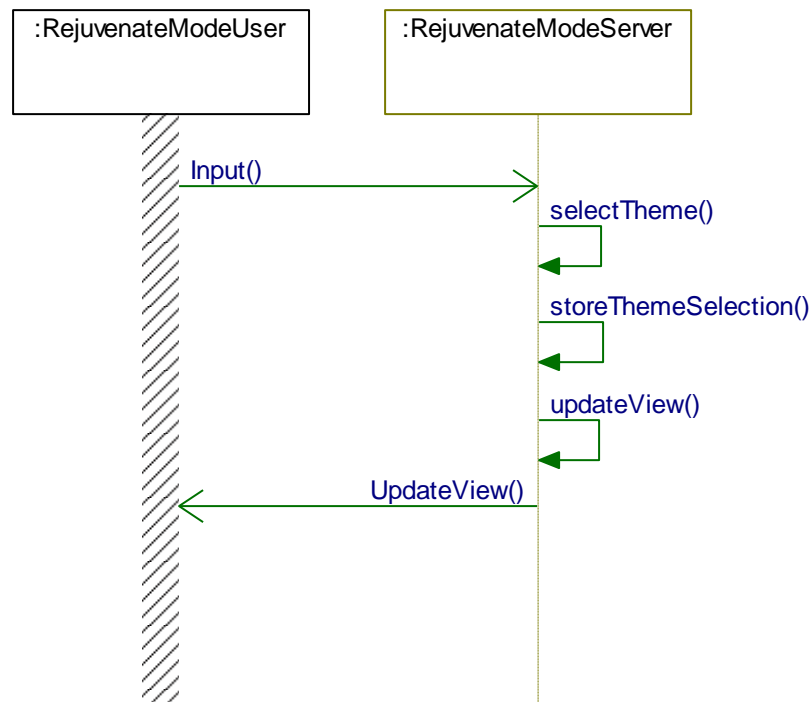


### 3.2.3.1.8 RJV-ACT-REQ-441931/A-Do Not Distrub Selection



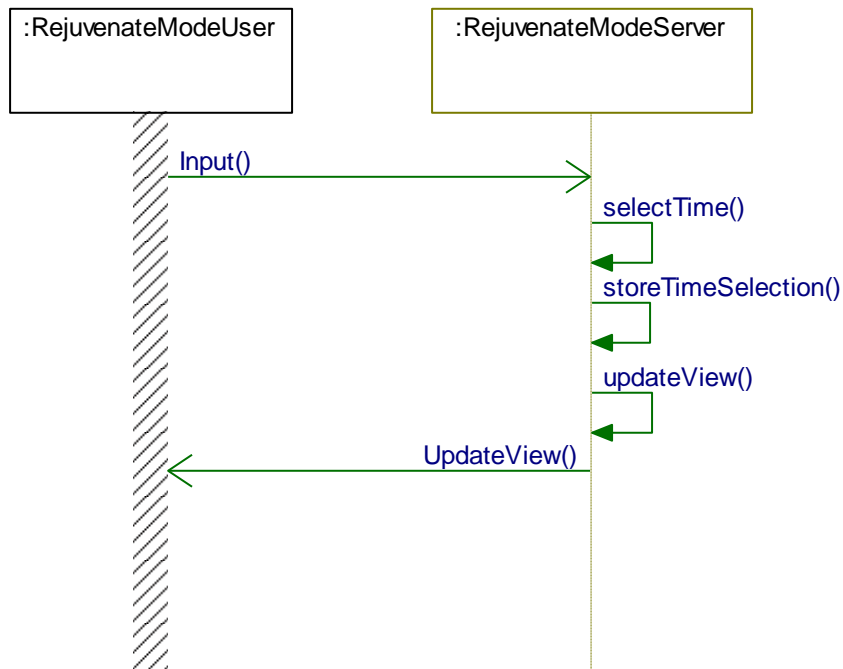
### 3.2.3.2 Sequence Diagrams

#### 3.2.3.2.1 RJV-SD-REQ-441920/A-Theme Selection



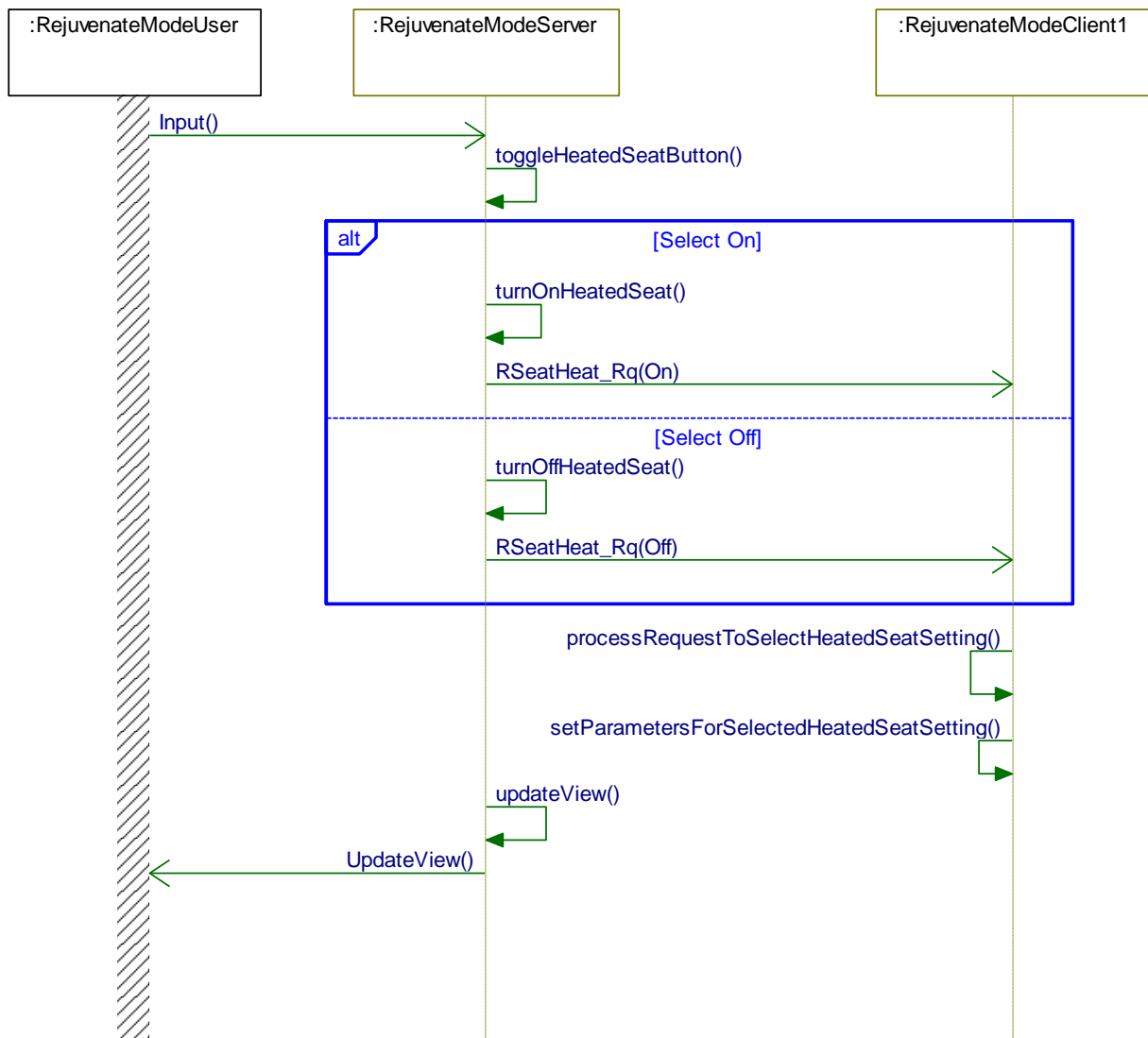


## 3.2.3.2.2 RJV-SD-REQ-441922/A-Time Selection



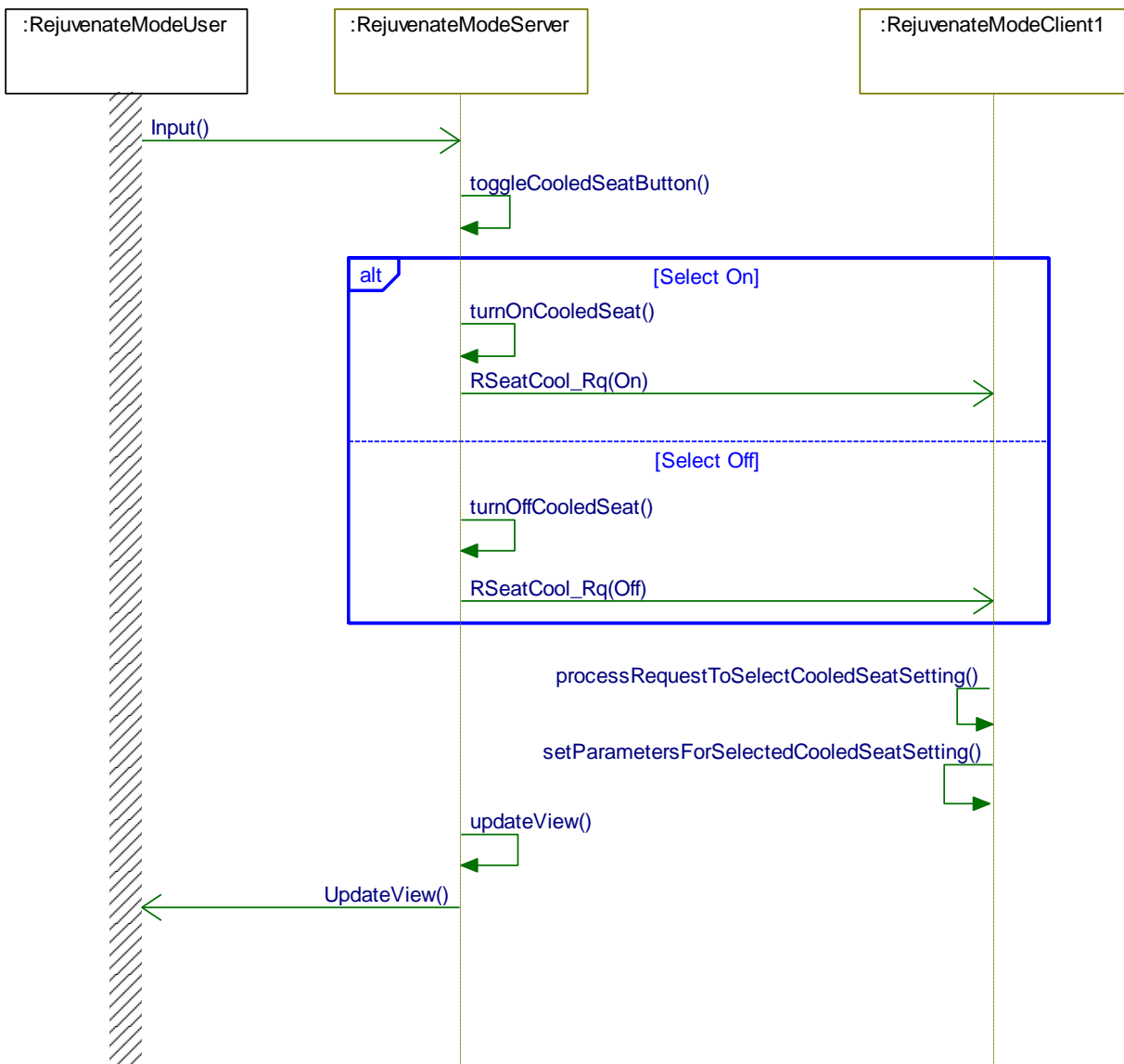


## 3.2.3.2.3 RJV-SD-REQ-441924/A-Heated Seat Selection



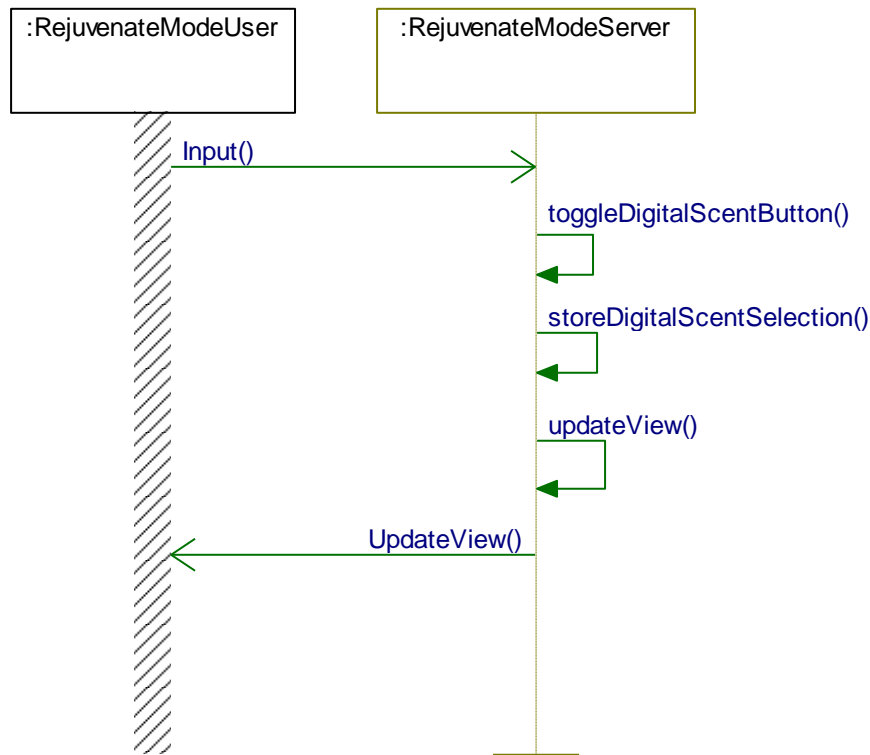


## 3.2.3.2.4 RJV-SD-REQ-441926/A-Cooled Seat Selection





## 3.2.3.2.5 RJV-SD-REQ-441928/A-Digital Scent Selection



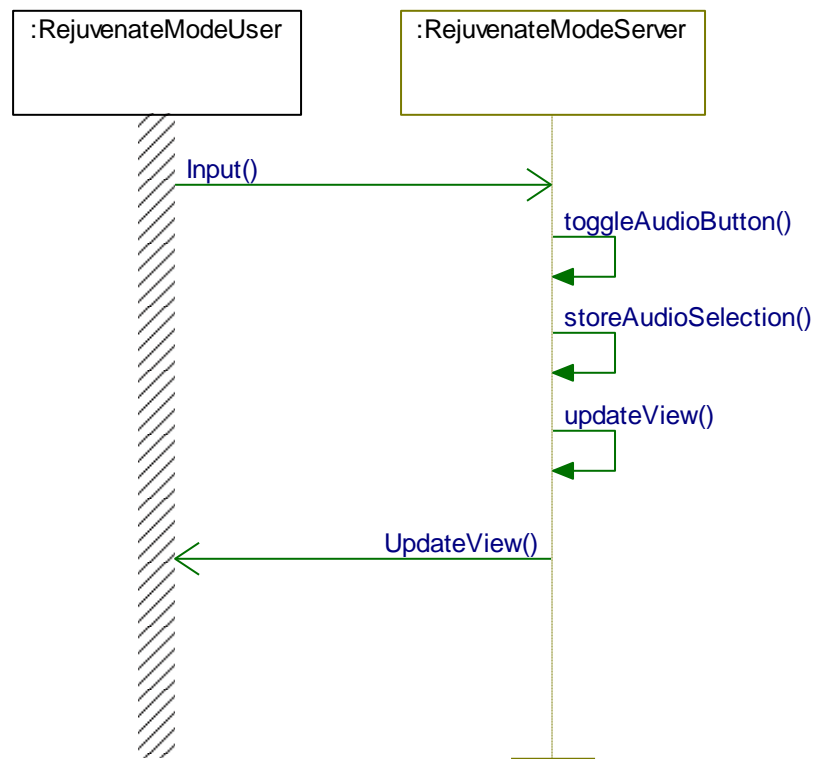


## 3.2.3.2.6 RJV-SD-REQ-441930/A-Seat Massage Selection

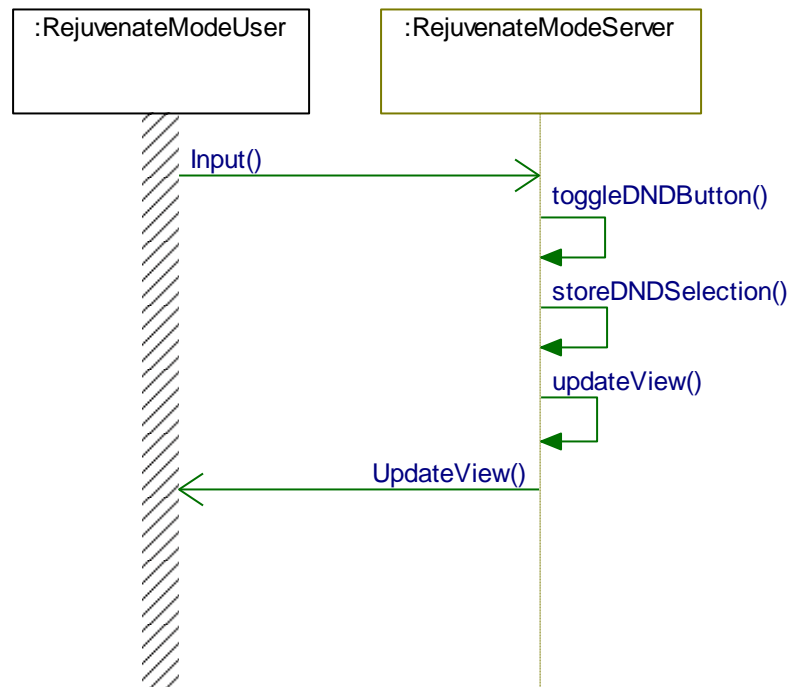




## 3.2.3.2.7 RJV-SD-REQ-441838/A-Audio Selection



## 3.2.3.2.8 RJV-SD-REQ-441933/A-Do Not Distrub Selection





### 3.3 RJV-FUN-REQ-438067/A-Start Rejuvenate Experience

#### 3.3.1 Requirements

##### 3.3.1.1 RJV-REQ-438032/A-Start Rejuvenate Experience

If preconditions are met RJVServer shall allow user to start rejuvenate experience by pressing “Start experience” button on HMI.

User can make selections or keep default value for the following settings before pressing “Start Experience” button:

Theme

Time

Heated seat

Cooled seat

Digital scent

Seat massage

Audio

Do Not Disturb

After user presses “start experience” on HMI RJVServer shall transmit signals:

RActv\_St = 0x1 (Active)

LghtAmbRqSrc\_B\_Stat = 0x1 (Auto)

Rejuvenate Status = 0x1 (Feature Active) internal signal to DigitalScentClient if digital scent was requested to be turned On

Rejuvenate Status = 0x0 (Feature Not Active) internal signal to DigitalScentClient if digital scent was requested to be turned Off

At the beginning of rejuvenate experience (Entry Phase) vehicle parameters are saved as defined in Save/Recall Parameters section (RJV-REQ-438021/A-Save/Recall Parameters).

Once Rejuvenate is active and Digital Scent settings is ON following signals will be used to control the Digital Scent feature:

CabinScentMode\_St

CabinScentIntensity\_St

CabinScentChannel\_St

See “Orchestration with Theme Matrix” document for details.

Once Rejuvenate is active following signals will be used for Ambient Lighting:

LightAmbIntsty\_No\_Rq

LightAmbColor\_No\_Rq

See “Orchestration with Theme Matrix” document for details.

#### 3.3.2 Use Cases

##### 3.3.2.1 RJV-UC-REQ-438014/A-Start Rejuvenate Experience

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position.
<b>Scenario Description</b>	User presses “Start Experience” soft button on the HMI.



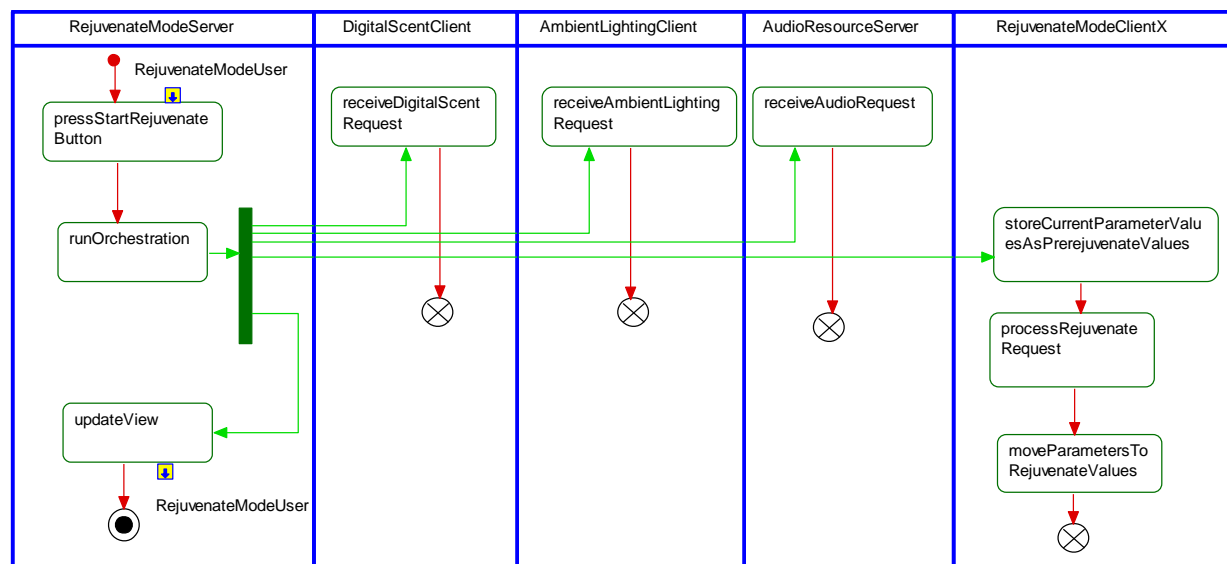


<b>Post-conditions</b>	Rejuvenate feature locks doors.  Rejuvenate experience begins.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

### 3.3.3 White Box Views

#### 3.3.3.1 Activity Diagrams

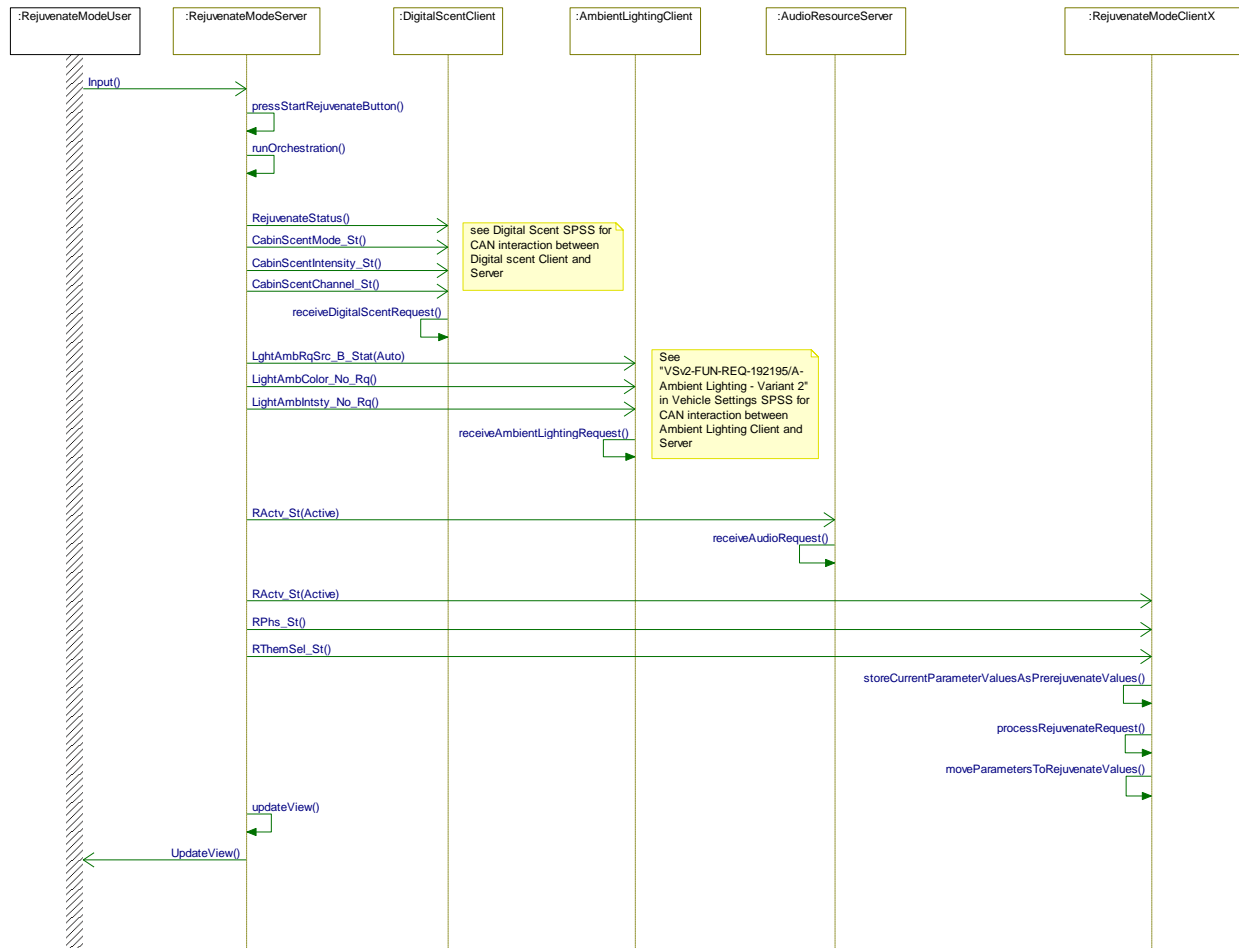
##### 3.3.3.1.1 RJV-ACT-REQ-441934/A-Start Rejuvenate





### 3.3.3.2 Sequence Diagrams

#### 3.3.3.2.1 RJV-SD-REQ-441935/A-Start Rejuvenate



### 3.4 RJV-FUN-REQ-438068/A-End Rejuvenate Experience

#### 3.4.1 Requirements

##### 3.4.1.1 RJV-REQ-438033/A-End Rejuvenate Experience

After rejuvenate time expires the rejuvenate experience shall be ended. RJVServer shall send signals:

RActv\_St = 0x0 (In-Active)

LghtAmbRqSrc\_B\_Stat = 0x0 (Manual)

Rejuvenate Status = 0x0 (Feature Not Active) internal signal to DigitalScentClient

Once the rejuvenate experience ends, the cabin of the vehicle shall go to the conditions that it was in before the rejuvenate experience. Refer section Save/Recall Parameters for details.

#### 3.4.2 Use Cases

##### 3.4.2.1 RJV-UC-REQ-438015/A-End Rejuvenate Experience

Actors	User, RJVServer
Pre-conditions	Infotainment system is powered ON. RJVServer is active. RJVServer screen is ON.

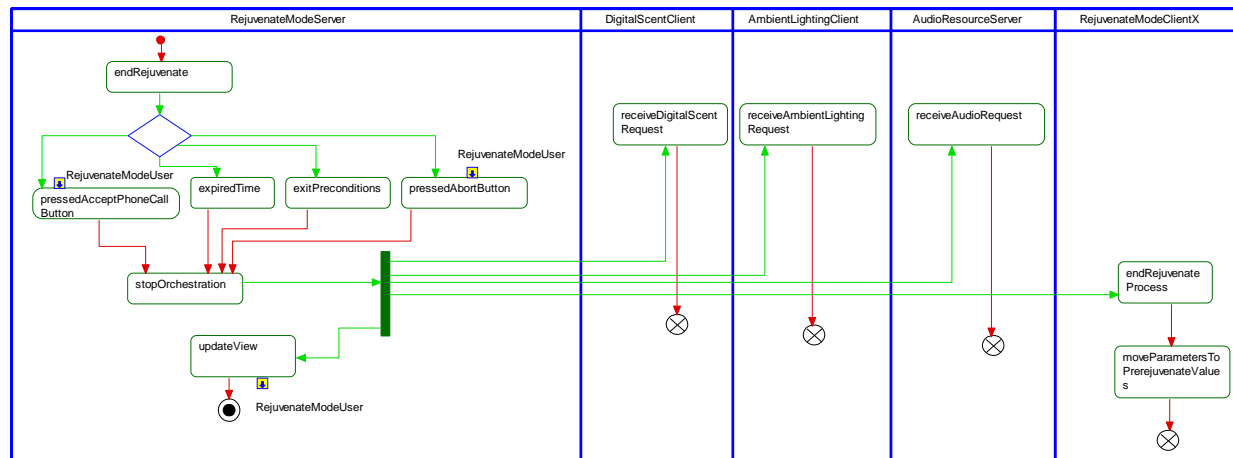


	Rejuvenate experience is ON.
<b>Scenario Description</b>	The time selected for rejuvenate experience elapsed and all the phases of orchestration is complete as selected.
<b>Post-conditions</b>	Rejuvenate returns the Audio settings and the HMI/screen content to its previous conditions.  The user has completed the experience and is returned to the same conditions (seat settings, light settings, etc) as they were in, previous to the experience.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

### 3.4.3 White Box Views

#### 3.4.3.1 Activity Diagrams

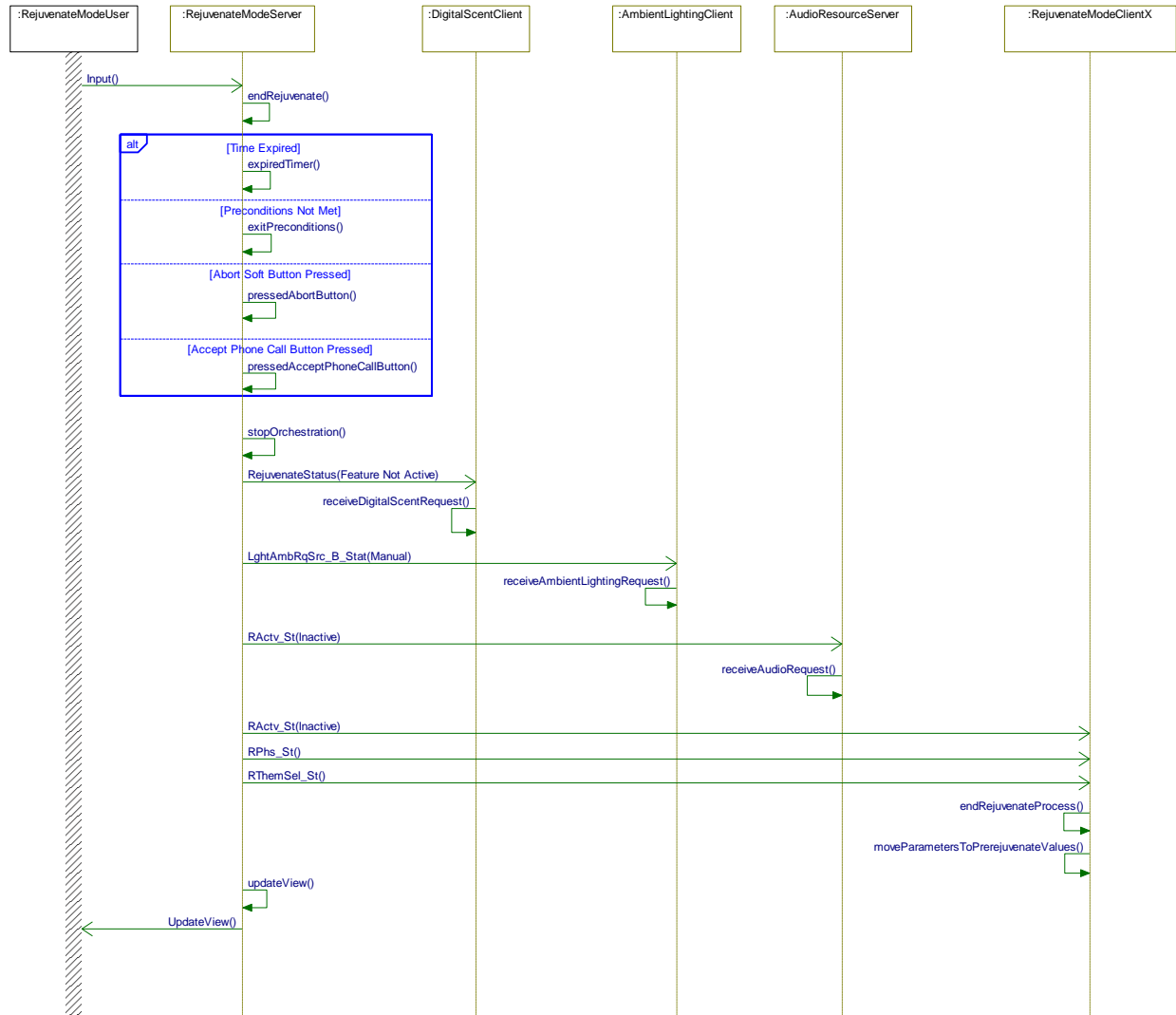
##### 3.4.3.1.1 RJV-ACT-REQ-441936/A-End Rejuvenate





### 3.4.3.2 Sequence Diagrams

#### 3.4.3.2.1 RJV-SD-REQ-441937/A-End Rejuvenate



### 3.5 RJV-FUN-REQ-438069/A-Alter Rejuvenate Experience

#### 3.5.1 Requirements

##### 3.5.1.1 RJV-REQ-438034/A-Alter Rejuvenate Experience

While rejuvenate experience is underway RJVServer shall allow user to alter any of the following settings:

Heated seats

Cooled seats

Digital scent

Seat massage

Audio

Do Not Disturb

Upon changing the setting the experience will alter and remain at new selection for reminder of the time.



### 3.5.2 Use Cases

#### 3.5.2.1 RJV-UC-REQ-438016/A-Alter Rejuvenate Experience

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON.
<b>Scenario Description</b>	The user selects to toggle one of the rejuvenate settings (heated seats on/off, cooled seats on/off, massage on/off, digital scent on/off, audio On/Off, do not disturb On/Off) on the HMI screen.
<b>Post-conditions</b>	The changed settings/features will be reflected throughout the rest of the experience.  The changed setting/feature preferences will be remembered upon next entry into the Rejuvenate HMI.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

### 3.6 RJV-FUN-REQ-438070/A-Abort Experience

#### 3.6.1 Requirements

##### 3.6.1.1 RJV-REQ-438035/A-Abort Definition

When rejuvenate experience is aborted either by pressing soft button or exiting pre-condition or accepting phone call via HMI, the expectation is to return the cabin of the vehicle to the conditions that it was in before the Rejuvenate Experience as quickly as possible. Refer section Save/Recall Parameters (RJV-REQ-438021/A-Save/Recall Parameters) for details.

The main activities of the "Abort Sequence" are:

1. To turn off associated audio/video/lighting associated with the Rejuvenate experience.
2. To recall the settings/parameters for all items which were stored at the beginning of the experience.

Upon detecting that rejuvenate shall be aborted RJVServer shall transmit signals:

RActv\_St = 0x0 (In-Active)

LghtAmbRqSrc\_B\_Stat = 0x0 (Manual)

Rejuvenate Status = 0x0 (Feature Not Active), internal signal to DigitalScentClient

##### 3.6.1.2 RJV-REQ-438036/A-Abort - Soft Button

When user presses "Abort" button on HMI during any time of rejuvenate experience. RJVServer shall send RPhs\_St = 0x4 (Abort) and abort the sequence and vehicle cabin shall go back to pre-rejuvenate conditions.

##### 3.6.1.3 RJV-REQ-438037/A-Abort - Exit Precondition

When any of the following events occur:

GearPosition\_St  $\neq$  0x0 (Park); vehicle gear out of park

Vehicle engine  $\neq$  Active; Turns engine off ( Refer RJV-REQ-438019/A-Preconditions for Rejuvenate Experience for vehicle engine = Active condition).

Doors open; RJVClient4 shall provide information via SOA (Encloser Services API) to indicate status of the doors and RJVServer shall identify doors have been opened

The rejuvenate experience shall abort immediately and vehicle cabin shall go back to pre-rejuvenate conditions.

**3.6.1.4 RJV-REQ-442270/A-Abort - Accept Phone Call**

If user accepts Phone Call via HMI it shall abort the rejuvenate experience. RJVServer shall send RPhs\_St = 0x4 (Abort) and abort the sequence and vehicle cabin shall go back to pre-rejuvenate conditions.

**3.6.2 Use Cases****3.6.2.1 RJV-UC-REQ-438017/A-Abort - Soft Button**

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON.
<b>Scenario Description</b>	User presses "End Experience" soft button on the HMI.
<b>Post-conditions</b>	Rejuvenate experience has been ended prematurely.  The user is returned to the same conditions (seat settings, light settings, etc) as they were in, before the experience.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

**3.6.2.2 RJV-UC-REQ-438018/A-Abort - Exit Precondition**

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON.
<b>Scenario Description</b>	User does one or more of the following due to which vehicle doesn't meet preconditions for rejuvenate experience: Opens doors Puts vehicle gear out of park Turns engine off
<b>Post-conditions</b>	Rejuvenate experience has been ended prematurely.  The user is returned to the same conditions (seat settings, light settings, etc) as they were in, before the experience.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

**3.6.2.3 RJV-UC-REQ-442271/A-Abort - Accept Phone Call**

<b>Actors</b>	User, RJVServer
<b>Pre-conditions</b>	Infotainment system is powered ON. RJVServer is active. RJVServer screen is ON. Rejuvenate experience is ON.
<b>Scenario Description</b>	User presses "Accept Phone Call" button on the HMI when phone call received.
<b>Post-conditions</b>	Rejuvenate experience has been ended prematurely.  The user is returned to the same conditions (seat settings, light settings, etc) as they were in, before the experience.
<b>List of Exception Use Cases</b>	
<b>Interfaces</b>	HMI, CAN

**3.6.3 White Box Views****3.6.3.1 Activity Diagrams****3.6.3.1.1 RJV-ACT-REQ-441999/A-Abort Rejuvenate**

Refer End Rejuvenate Activity Diagram (**RJV-ACT-REQ-441936/A-End Rejuvenate**)

**3.6.3.2 Sequence Diagrams****3.6.3.2.1 RJV-SD-REQ-442000/A-Abort Rejuvenate**

Refer End Rejuvenate Sequence Diagram (**RJV-SD-REQ-441937/A-End Rejuvenate**)



## 4 Appendix: Reference Documents

Reference #	Document Title
1	Orchestration with Theme Matrix document
2	
3	
4	
5	
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