



Research & Vehicle Technology
“Infotainment Systems Product Development”

Feature – Rejuvenate

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

Version 1.2

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FORD CONFIDENTIAL



Revision History

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|--------------------|---|---|--|
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| | | | |
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| | STR-887367/B-Architectural Design | nmajjiga: added new class descriptions and signal | |
| | STR-887369/B-Physical Mapping of Classes | nmajjiga: added new class descriptions | |
| | STR-887370/B-Logical Signal Mapping | nmajjiga: added new signal | |
| | RJV-IIR-REQ-413906/B-RJV Server_Tx | nmajjiga: added new signal | |
| | MD-REQ-466740/A-RSeatSetSave_Rq | nmajjiga: new signal for save seat position change | |
| | STR-949988/B-General Requirements | nmajjiga: Added Requirement | |
| | RJV-REQ-438019/B-Preconditions for Rejuvenate Experience | nmajjiga: updated with vehicle stationary mode | |
| | RJV-REQ-466683/A-Vehicle Stationary Mode | nmajjiga: new requirement | |
| | RJV-REQ-442203/B-Configuration Settings | nmajjiga: updated feature configuration details | |
| | RJV-REQ-438021/B-Save/Recall Parameters | nmajjiga: updated audio requirements | |
| | RJV-REQ-438022/B-Orchestration Schedule | nmajjiga: update audio requirements | |
| | STR-887371/B-Functional Definition | nmajjiga: added new functional definition for data analytics | |
| | RJV-REQ-438030/B-Audio Selection | nmajjiga: updated requirement | |
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| | RJV-STR-956311/B-Activity Diagrams | nmajjiga: added new activity diagram | |
| | RJV-ACT-REQ-441934/B-Start Rejuvenate | nmajjiga: updated to separate audio sequence | |
| | RJV-ACT-REQ-466685/A-Start Rejuvenate_Audio Sequence | nmajjiga: updated audio sequence as per alignment with audio team | |
| | RJV-STR-956312/B-Sequence Diagrams | nmajjiga: added new sequence diagram | |
| | RJV-SD-REQ-441935/B-Start Rejuvenate | nmajjiga: updated to separate audio sequence | |
| | RJV-SD-REQ-466688/A-Start Rejuvenate_Audio Sequence | nmajjiga: updated audio sequence as per alignment with audio team | |
| | RJV-REQ-438033/B-End Rejuvenate Experience | nmajjiga: updated requirement | |
| | RJV-STR-956331/B-Activity Diagrams | nmajjiga: added new activity diagram | |
| | RJV-ACT-REQ-441936/B-End Rejuvenate | nmajjiga: updated to separate accepted phone call/high priority audio request sequence | |
| | RJV-ACT-REQ-466686/A-End Rejuvenate_Phone Call Accepted or Other High Priorty Audio Request | nmajjiga: updated accepted phone call/high priority audio request sequence as per alignment with audio team | |
| | RJV-STR-956332/B-Sequence Diagrams | nmajjiga: added new sequence diagram | |
| | RJV-SD-REQ-441937/B-End Rejuvenate | nmajjiga: updated to separate accepted phone call/high priority audio request sequence | |
| | RJV-SD-REQ-466689/A-End Rejuvenate_Phone Call Accepted or Other High Priorty Audio Request | nmajjiga: updated accepted phone call/high priority audio request sequence as per alignment with audio team | |
| | STR-949995/B-Requirements | nmajjiga: added new requirement | |
| | RJV-REQ-466742/A-Save Altered Seat Position | nmajjiga: new requirement for save seat position change | |



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| STR-949996/B-Use Cases | nmajjiga: added new use case |
| RJV-UC-REQ-466744/A-Save Altered Seat Position | nmajjiga: new use case for save seat position change |
| RJV-FUN-REQ-438070/B-Abort Experience | nmajjiga: added requirement |
| STR-949997/B-Requirements | nmajjiga: added requirement |
| RJV-REQ-438035/B-Abort Definition | nmajjiga: updated requirement |
| RJV-REQ-438036/B-Abort - Soft Button | nmajjiga: updated requirement |
| RJV-REQ-438037/B-Abort - Exit Precondition | nmajjiga: updated with vehicle stationary mode |
| RJV-REQ-442270/B-Abort - Accept Phone Call/Other high priority Audio requested | nmajjiga: updated requirement |
| RJV-REQ-470267/A-Abort - Climate System Unavailable For Rejuvenate | nmajjiga: new requirement |
| RJV-UC-REQ-442271/B-Abort - Accept Phone Call/Other high priority audio requested | nmajjiga: updated use case |
| RJV-ACT-REQ-441999/B-Abort Rejuvenate | nmajjiga: reference version B of End Rejuvenate |
| RJV-SD-REQ-442000/B-Abort Rejuvenate | nmajjiga: reference version B of End Rejuvenate |
| RJV-FUN-REQ-466751/A-Rejuvenate Data Analytics | nmajjiga: new functional definition for data analytics |
| STR-1007574/A-Requirements | nmajjiga: added new requirements |
| RJV-REQ-466745/A-Record and Store Data While Rejuvenate Active | nmajjiga: new requirement |
| RJV-REQ-466746/A-Record and Store Engine ON time and Data Logging Timer | nmajjiga: new requirement |
| RJV-REQ-466747/A-Record Feature Completed Instances | nmajjiga: new requirement |
| RJV-REQ-466748/A-Record Feature Preview Instances | nmajjiga: new requirement |
| RJV-REQ-466749/A-Record Feature Aborted Instances | nmajjiga: new requirement |
| RJV-REQ-466750/A-Record Alterations during Rejuvenate Experience | nmajjiga: new requirement |
| STR-887374/B-Appendix: Reference Documents | nmajjiga: updated reference documents |

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| STR-887370/C-Logical Signal Mapping | nmajjiga: added new signal for seat movement |
| RJV-IIR-REQ-413906/C-RJV Server_Tx | nmajjiga: added new signal for seat movement |
| MD-REQ-488637/A-RSeatMovement_Rq | nmajjiga: new signal for seat movement |
| RJV-REQ-438022/C-Orchestration Schedule | nmajjiga: modified requirement to remove version |
| STR-949989/B-Requirements | nmajjiga: added requirement for seat movement |
| RJV-REQ-488657/A-Seat Movement Selection | nmajjiga: new requirement for seat movement |
| STR-949990/B-Use Cases | nmajjiga: new usecase for seat movement |
| RJV-UC-REQ-488658/A-Seat Movement Selection | nmajjiga: new usecase for seat movement |
| RJV-STR-956355/B-Activity Diagrams | nmajjiga: added new activity diagram for seat movement |
| RJV-ACT-REQ-488659/A-Seat Movement Selection | nmajjiga: new activity diagram for seat movement |
| RJV-STR-956356/B-Sequence Diagrams | nmajjiga: added new sequence diagram for seat movement |
| RJV-SD-REQ-441930/B-Seat Massage Selection | nmajjiga: modified requirement to remove version |
| RJV-SD-REQ-488660/A-Seat Movement Selection | nmajjiga: new sequence diagram for seat movement |
| RJV-REQ-438032/C-Start Rejuvenate Experience | nmajjiga: updated requirement to add seat movement |
| RJV-ACT-REQ-466685/B-Start Rejuvenate_Audio Sequence | nmajjiga: added clarification about MSS feature |



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| RJV-SD-REQ-441935/C-Start Rejuvenate | nmajjiga: modified requirement to remove version |
| RJV-SD-REQ-466688/B-Start Rejuvenate_Audio Sequence | nmajjiga: added clarification about MSS feature |
| RJV-REQ-438033/C-End Rejuvenate Experience | nmajjiga: modified requirement to remove version |
| RJV-ACT-REQ-441936/C-End Rejuvenate | nmajjiga: removed MSSApplicationServer from diagram |
| RJV-ACT-REQ-466686/B-End Rejuvenate_Accepted Phone Call/Other High Priority Audio Request | nmajjiga: removed MSSApplicationServer from diagram |
| RJV-SD-REQ-441937/C-End Rejuvenate | nmajjiga: removed MSSApplicationServer from diagram |
| RJV-SD-REQ-466689/B-End Rejuvenate_Accepted Phone Call/Other High Priority Audio Request | nmajjiga: removed MSSApplicationServer from diagram |
| RJV-REQ-438034/B-Alter Rejuvenate Experience | nmajjiga: updated requirement to add seat movement |
| RJV-UC-REQ-438016/B-Alter Rejuvenate Experience | nmajjiga: updated usecase to add seat movement |
| RJV-REQ-438035/C-Abort Definition | nmajjiga: modified requirement to remove version |
| RJV-REQ-438037/C-Abort - Exit Precondition | nmajjiga: modified requirement to remove version |
| RJV-ACT-REQ-441999/C-Abort Rejuvenate | nmajjiga: updated to align with End Rejuvenate diagram |
| RJV-SD-REQ-442000/C-Abort Rejuvenate | nmajjiga: updated to align with End Rejuvenate diagram |



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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 MSS-CLD-REQ-410679/A-MSSApplicationServer

The 'MSSApplicationServer' object is responsible to co-ordinate and interface between the Audio Source Client(s), Input Client(s) and 'AudioResourceServer'. The 'MSSApplicationServer' is also responsible for controlling and updating the MSS Zone Manager objects when incoming service requests are received. The 'MSSApplicationServer' also transmits related status information to the Input client(s) (i.e. 'MSSOnboardClient', 'URC Client'). The 'MSSApplicationServer' shall interface with 'Passenger BT Phone Client' to handle the passenger BT phone calling and BT Media streaming. It also requests the 'Audio Resource Server' if the audio resources are needed.

1.13 AUDSET-CLD-REQ-014878/B-Audio Settings Client (TcSE ROIN-128956-1)

The Audio Settings Client is the interface of the Audio Settings function. It acts with other system parts that control the Audio Settings or need data from it.

1.14 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 |
| AudioSettingsClient | APIM PDC |
| MSSApplicationServer | APIM PDC |



1.15 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_St |
| GearPosition_St | TrnRng_D_Rq |
| Ignition_Status | Ignition_Status |
| RSeatSetSave_Rq | RjvntSeatSetSavDrv_B_Rq |
| RSeatMovement_Rq | RjvntSeatMov_B_Rq |

1.16 RJV-IIR-REQ-413906/C-RJV Server_Tx

1.16.1 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 | |

1.16.2 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 | |

1.16.3 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 – | |

1.16.4 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 | |

1.16.5 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 | |

**1.16.6 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 | |

1.16.7 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 | |

1.16.8 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 | |

1.16.9 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 | |

1.16.10 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 | |

1.16.11 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 | |

1.16.12 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 | |

1.16.13 MD-REQ-466740/A-RSeatSetSave_Rq

Message Type: Request

Signal requests the selection to save seat settings if changed.

| Name | Literals | Value | Description |
|------|----------|-------|-------------|
| | - | - | |
| | No | 0x0 | |
| | Yes | 0x1 | |

1.16.14 MD-REQ-488637/A-RSeatMovement_Rq

Message Type: Request

This signal shall be sent by the RJVServer to have seat movement On/Off

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

1.17 RJV-IIR-REQ-413908/A-RJV Server_Rx

1.17.1 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 | |

**1.17.2 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 | |

1.17.3 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 | |

1.17.4 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 | |

1.17.5 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 | |

1.17.6 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/B-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
4. Vehicle Stationary Mode is Active/On.

2.2 RJV-REQ-466683/A-Vehicle Stationary Mode

An internal signal shall be set by RJVServer to indicate Vehicle Stationary Mode is Active/On.
Rejuvenate screen on HMI will be available when the Vehicle Stationary Mode is Active/On.
In case if the Vehicle Stationary Mode shall become Inactive/Off the Rejuvenate experience shall be aborted.
Refer HMI specification document (X93_Rejuvenate).

2.3 RJV-REQ-442203/B-Configuration Settings

The EMRClient shall have a configurable parameter to determine whether the vehicle supports operation of EM Registers via HMI touchscreen.

- If the parameter indicates the vehicle supports EM Registers via HMI touchscreen, then all the functionality and signals defined in this SPSS shall be supported.
- If the parameter indicates the vehicle does not support EM Registers via HMI touchscreen, then none of the functionality defined in this SPSS shall be supported.

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 Infotainment Diagnostics Specification for config parameter details.

2.4 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.

2.5 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).

2.6 RJV-REQ-438021/B-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 RJVServer shall read and store the appropriate settings for Audio, including but not limited to audio input, 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".

2.7 RJV-REQ-438022/C-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-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 desired audio shall be played.

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 desired audio shall be played.
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 desired audio shall be played.

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 desired audio shall be played.
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-Save/Recall Parameters) for details

The RJVClient5 shall recall the steering wheel position.
The preview audio shall be played when "Exit Phase" completes until user exits to home screen.
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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. The vehicle has a cellular or wifi connection and is ready for OTA. |
| Scenario Description | OEM will push theme content out to the vehicle. |
| Post-conditions | 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. |
| List of Exception Use Cases | |
| Interfaces | 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/B-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 set:

AudioStreaming; If user selected “Audio” button ON

NoAudioStreaming; If user selected “Audio” button OFF

If selection is made while rejuvenate session is in progress, the changes shall be made for rest of the experience.

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



3.2.1.9 RJV-REQ-488657/A-Seat Movement Selection

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

RJVServer shall transmit signal:

RSeatMovement_Rq = 0x1 (On) if user toggles "Seat Movement" button to ON

RSeatMovement_Rq = 0x0 (Off) if user toggles "Seat Movement" button to OFF

Upon receiving this signal RJVClient3 shall set the seat movement parameters accordingly.

If selection is made while rejuvenate session is in progress, RJVClient3 shall make changes as needed for rest of the experience.

3.2.2 Use Cases

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User selects required theme on HMI. |
| Post-conditions | When rejuvenate experience starts the selected theme is displayed. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User selects required time on HMI. |
| Post-conditions | When rejuvenate experience starts it will be available for selected time. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User makes required selection for heated seat on HMI. |
| Post-conditions | User experiences rejuvenate as per the heated seat selection. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User makes required selection for cooled seat on HMI. |
| Post-conditions | User experiences rejuvenate as per the cooled seat selection. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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

| | |
|-----------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |



| | |
|------------------------------------|---|
| Scenario Description | User makes required selection for scent on HMI. |
| Post-conditions | User experiences rejuvenate with or without scent as per selection. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User makes required selection for seat massage on HMI. |
| Post-conditions | User experiences rejuvenate as per the seat massage selection. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User makes required selection for Audio on HMI. |
| Post-conditions | User experiences rejuvenate with or without Audio as per selection. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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



| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User makes required selection for Do Not Disturb on HMI. |
| Post-conditions | User experiences rejuvenate as per the Do Not Disturb selection. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

3.2.2.9 RJV-UC-REQ-488658/A-Seat Movement Selection

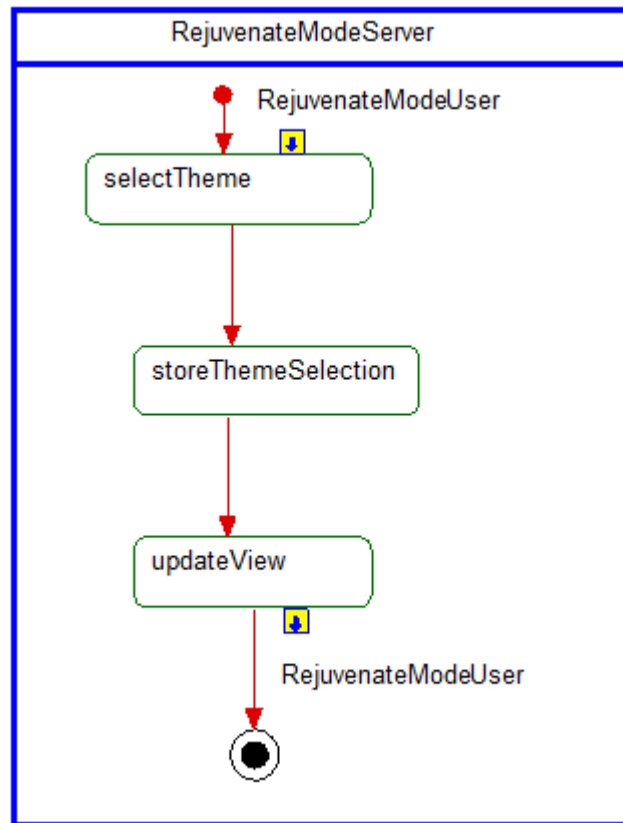
| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. All doors are closed. Vehicle engine is active. Vehicle is in park position. |
| Scenario Description | User makes required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



3.2.3 White Box Views

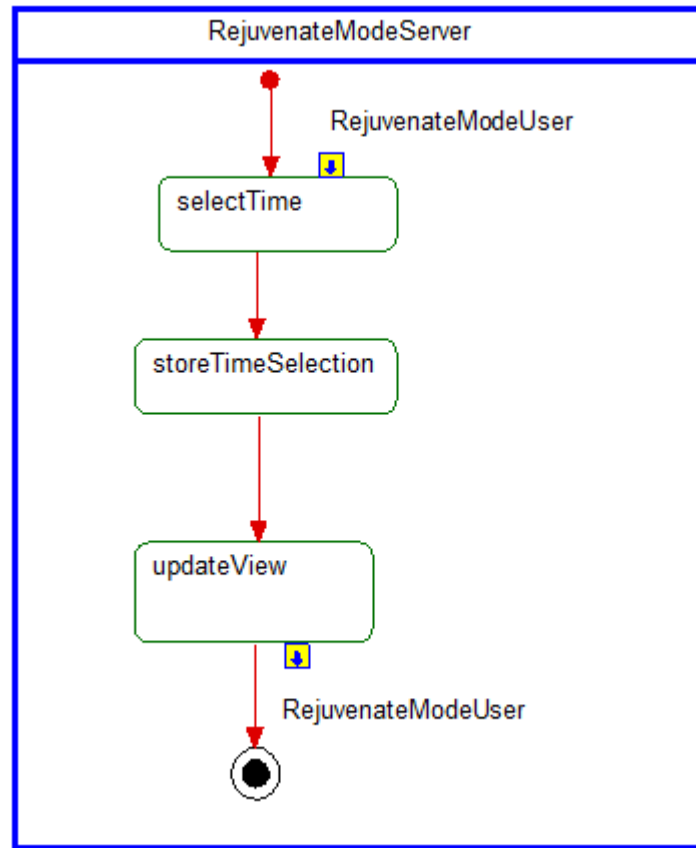
3.2.3.1 Activity Diagrams

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

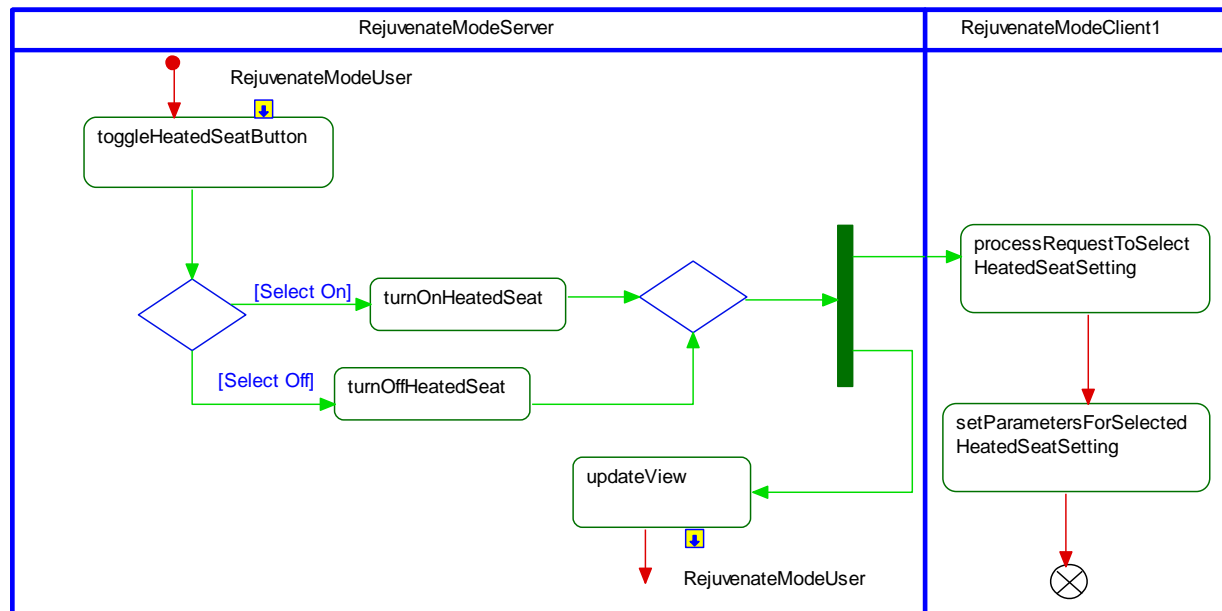




3.2.3.1.2 RJV-ACT-REQ-441921/A-Time Selection

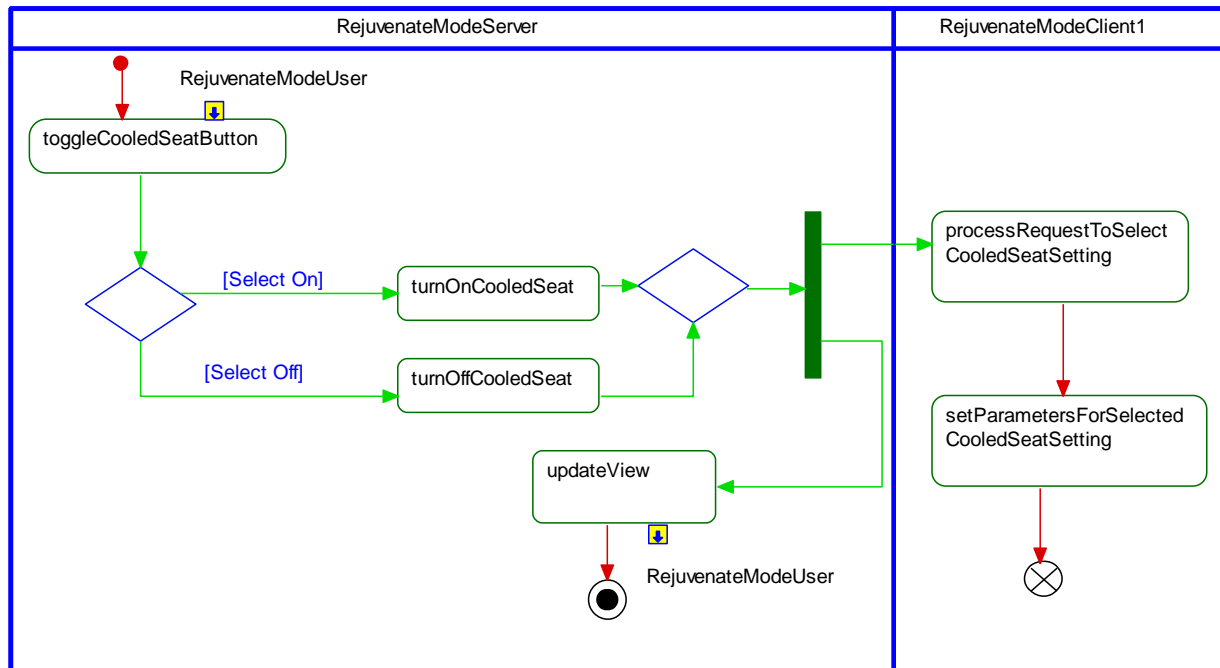


3.2.3.1.3 RJV-ACT-REQ-441923/A-Heated Seat Selection

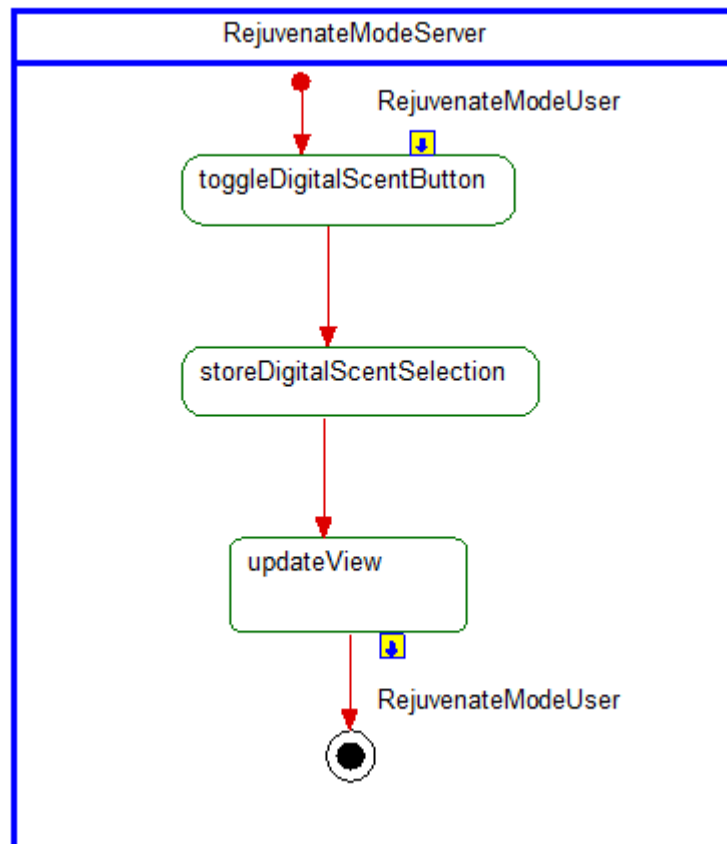




3.2.3.1.4 RJV-ACT-REQ-441925/A-Cooled Seat Selection

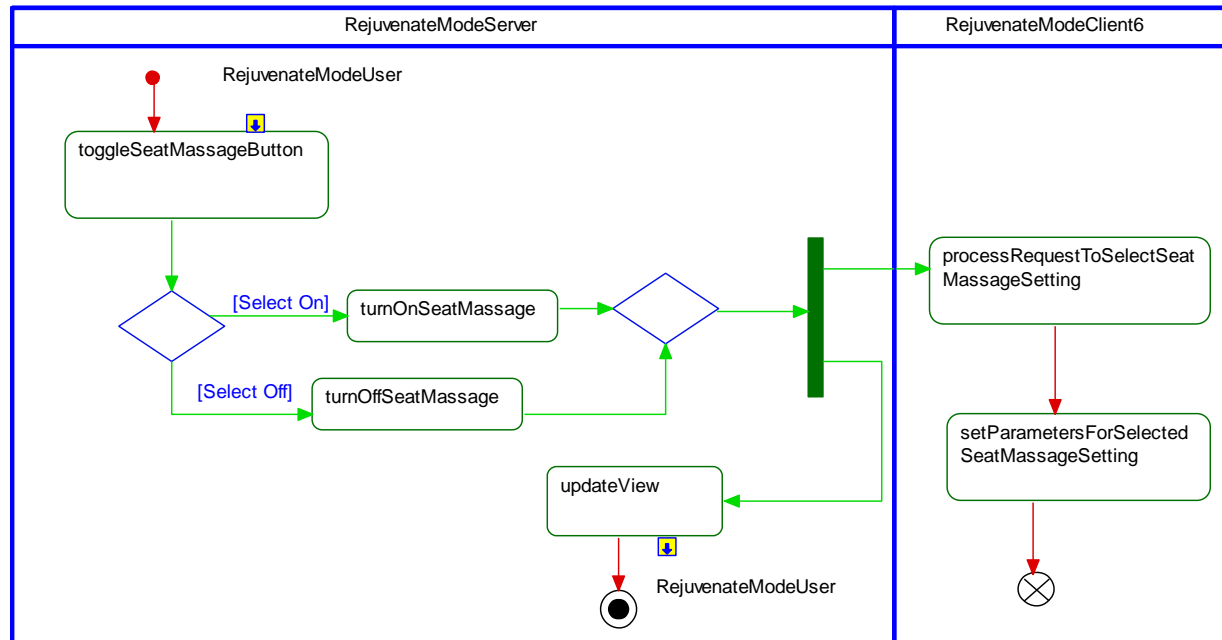


3.2.3.1.5 RJV-ACT-REQ-441927/A-Digital Scent Selection

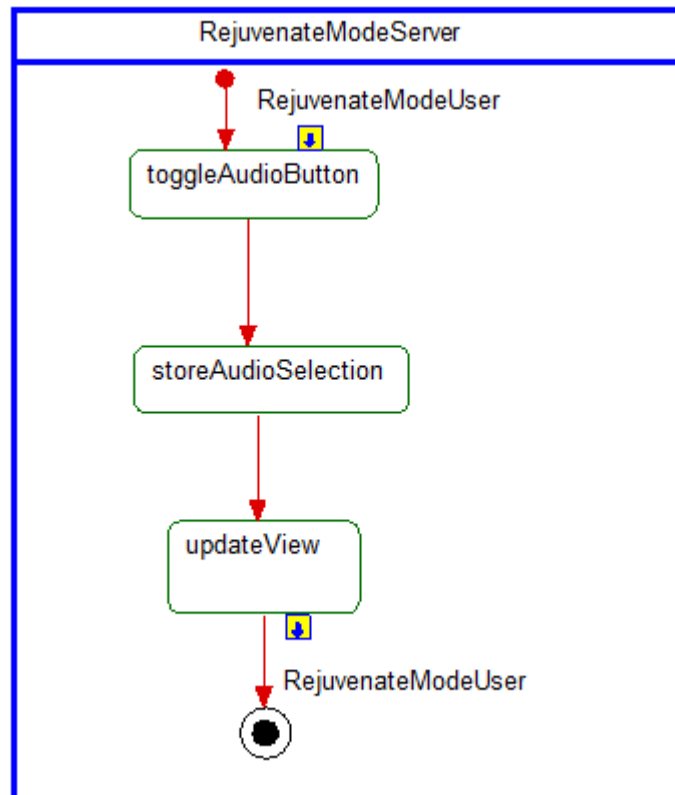




3.2.3.1.6 RJV-ACT-REQ-441929/A-Seat Massage Selection

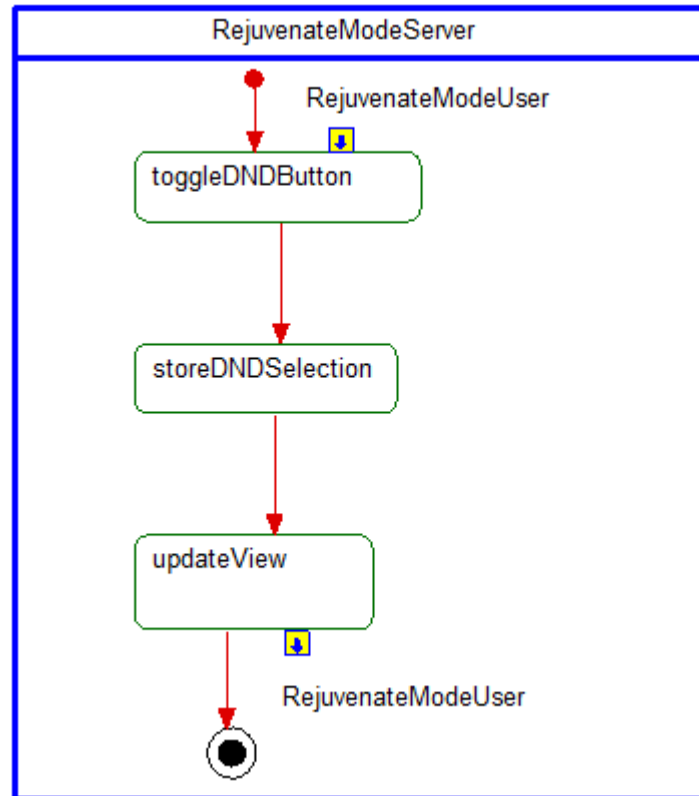


3.2.3.1.7 RJV-ACT-REQ-441837/A-Audio Selection

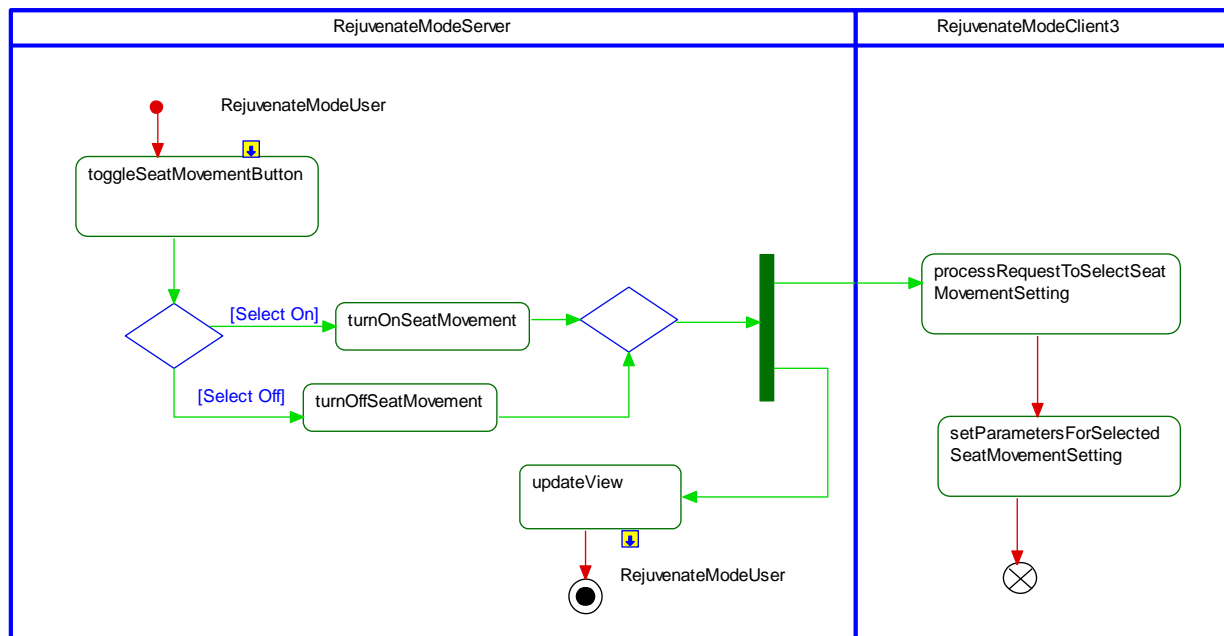




3.2.3.1.8 RJV-ACT-REQ-441931/A-Do Not Distrub Selection



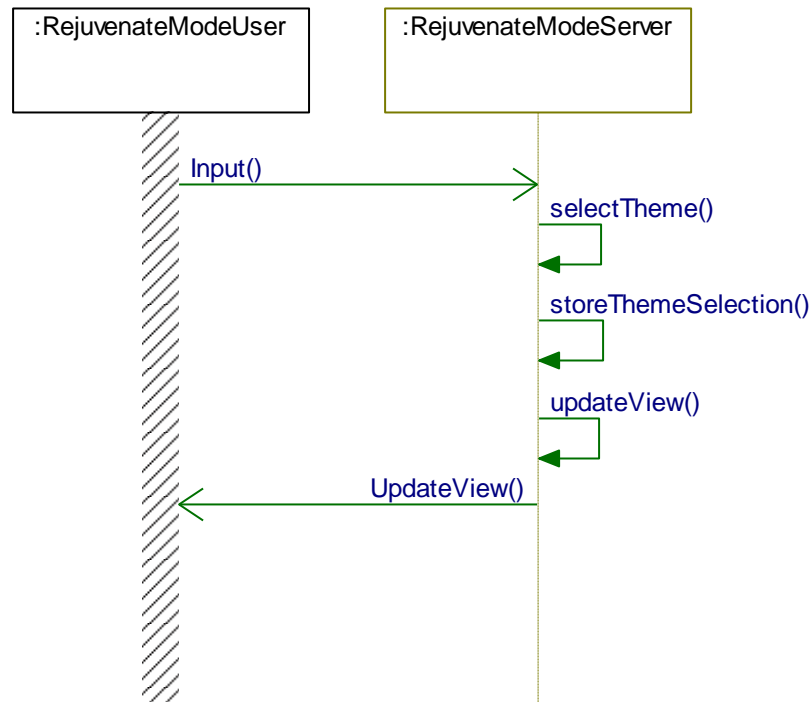
3.2.3.1.9 RJV-ACT-REQ-488659/A-Seat Movement Selection



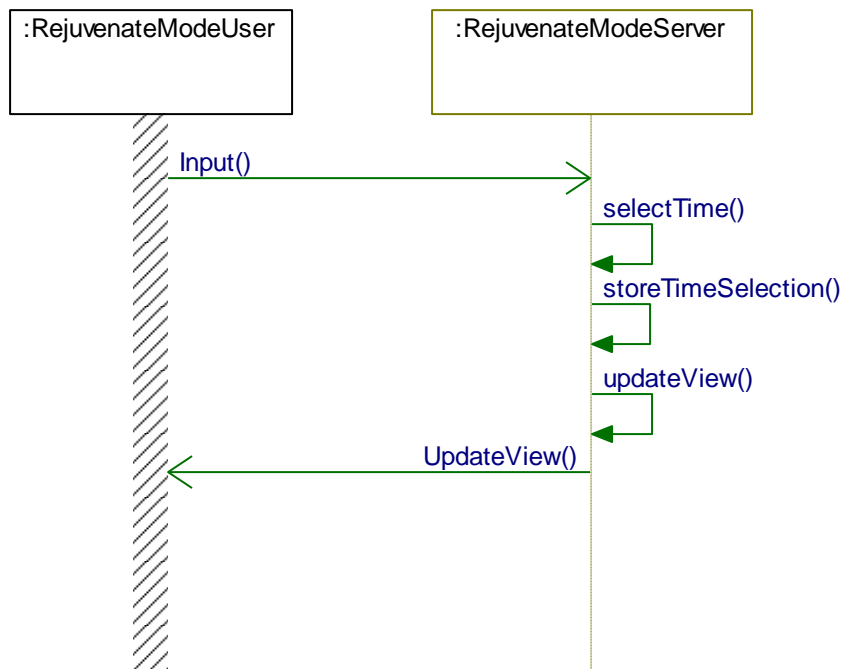


3.2.3.2 Sequence Diagrams

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

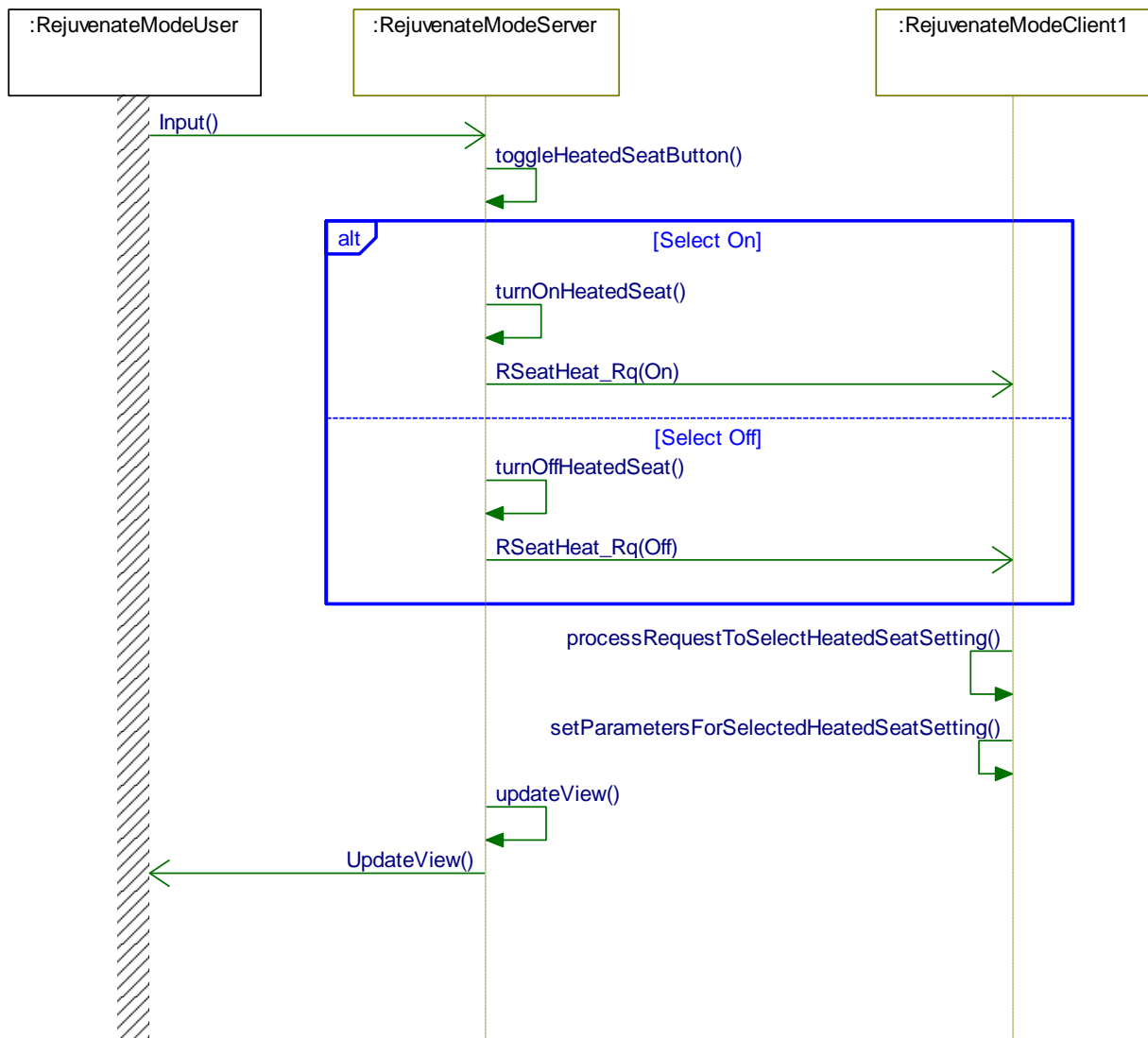


3.2.3.2.2 RJV-SD-REQ-441922/A-Time Selection



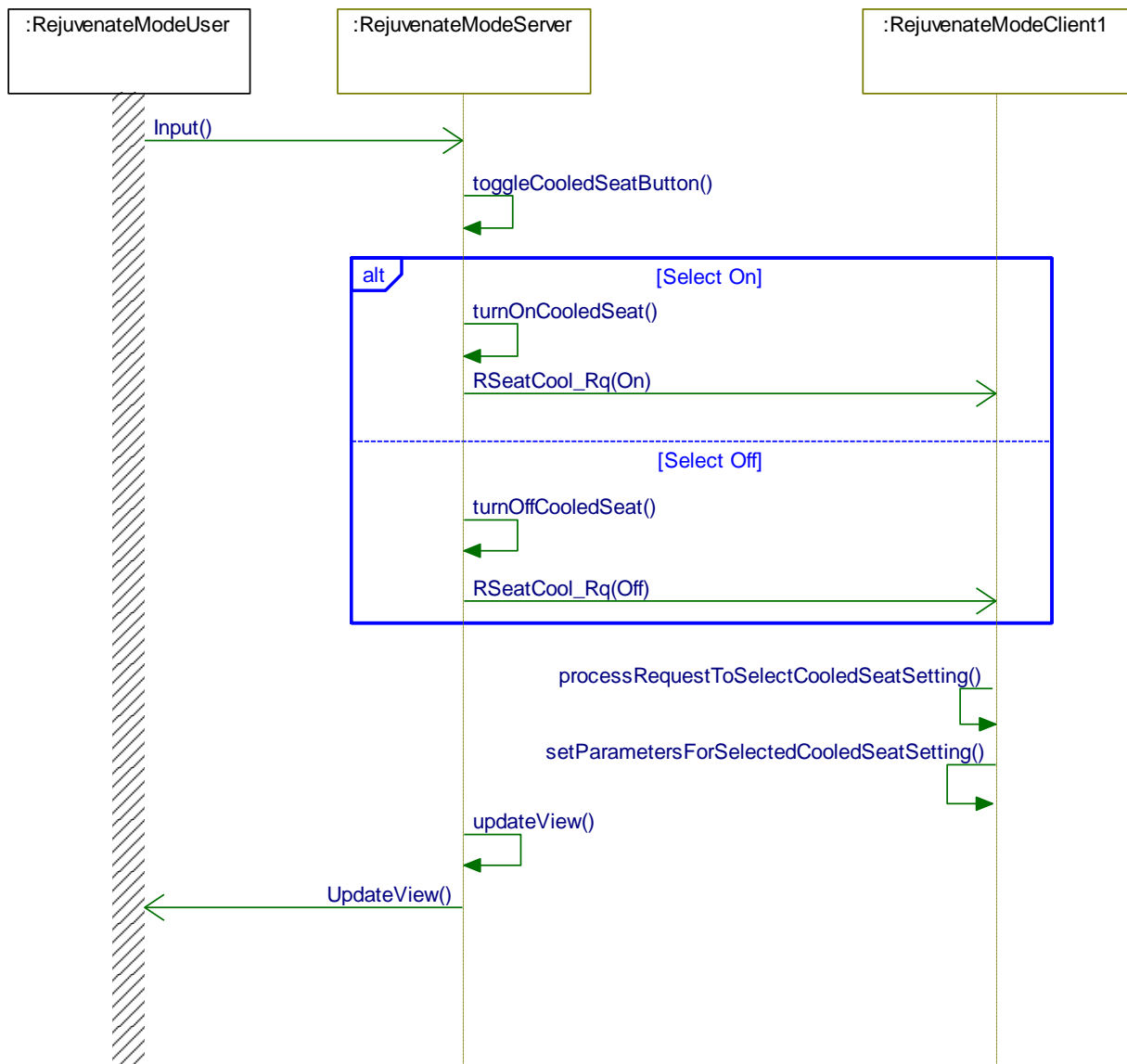


3.2.3.2.3 RJV-SD-REQ-441924/A-Heated Seat Selection



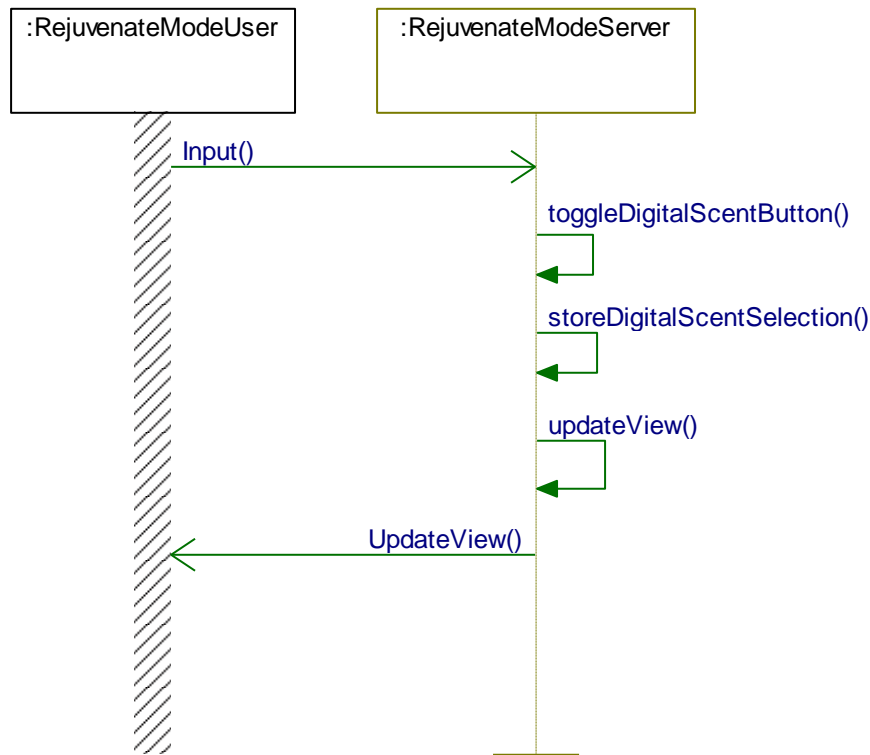


3.2.3.2.4 RJV-SD-REQ-441926/A-Cooled Seat Selection





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



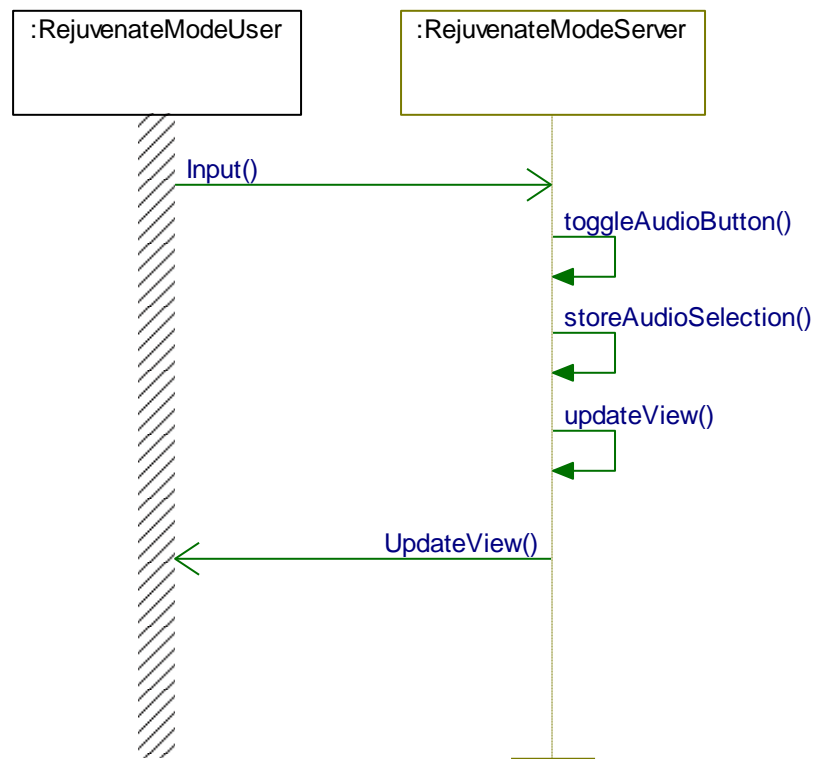


3.2.3.2.6 RJV-SD-REQ-441930/B-Seat Massage Selection

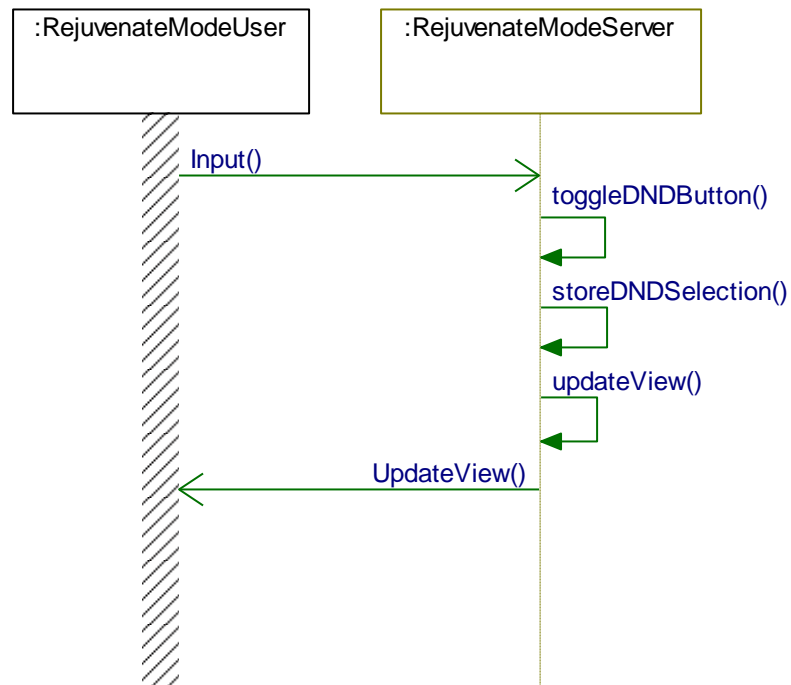




3.2.3.2.7 RJV-SD-REQ-441838/A-Audio Selection

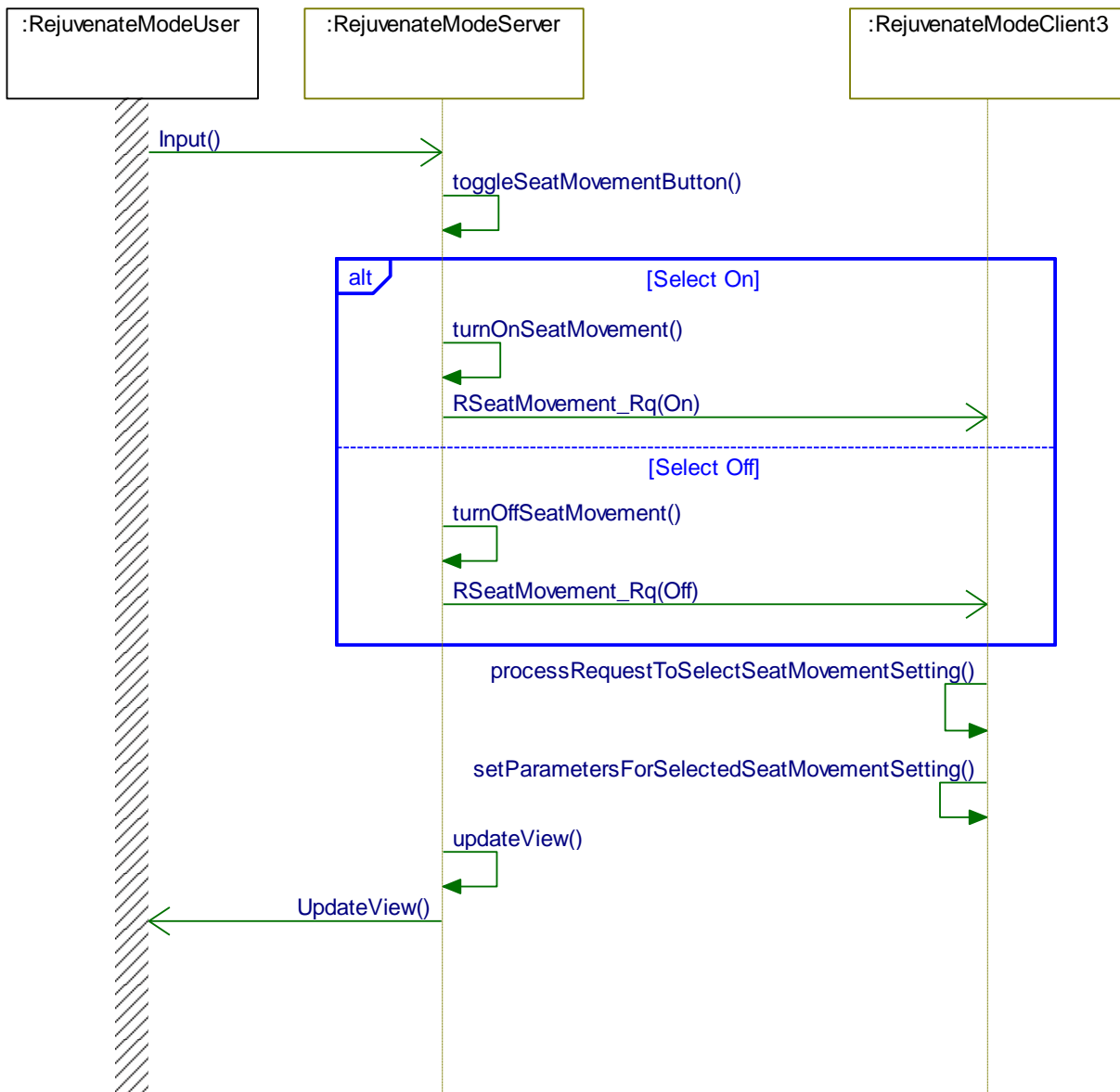


3.2.3.2.8 RJV-SD-REQ-441933/A-Do Not Distrub Selection





3.2.3.2.9 RJV-SD-REQ-488660/A-Seat Movement Selection



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

3.3.1 Requirements

3.3.1.1 RJV-REQ-438032/C-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
Seat movement

Once user enters Rejuvenate preview screen RJVServer shall:

Request current Audio Source from AudioResourceServer to store as pre-rejuvenate parameter and send internal signal to AudioResourceServer and MSSApplicationServer (if MSS feature supported) to set Audio Source type to Rejuvenate Audio and to set the vehicleAudioMode to Cabin.

If AudioResourceServer responds back that Audio Source Status is Not Granted then RJVServer shall not allow user to Start Rejuvenate experience.

Request AudioSettingsClient to get current values of Bass, Mid Range, Treble, Balance, Fade to store as pre-rejuvenate parameters and send internal signal to AudioSettingsClient to set required values of Bass, Mid Range, Treble, Balance, Fade as per theme selected.

If user prefers not to start Rejuvenate experience and exits Rejuvenate preview screen it shall follow the sequence of Exit Rejuvenate for Audio alone (refer RJV-FUN-REQ-438068-End Rejuvenate Experience).

After user presses "start experience" on HMI, RJVServer shall transmit signal RActv_St = 0x1 (Active).

Upon receiving RActv_St = 0x1 (Active), RJVClient1 shall transmit signal RClimt_St = 0x1 (On) to indicate that climate strategy can initiate.

Upon receiving RClimt_St = 0x1 (On), RJVServer shall transmit signals:

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

"AudioStreaming" if Audio was requested to be turned On

"NoAudioStreaming" if Audio was requested to be turned Off

Incase if RJVClient1 transmits RClimat_St = 0x0 (Off) when RActv_St = 0x1 (Active) after "start experience" button pressed, the rejuvenate experience shall not begin and "Unable to launce Rejuvenate at this time, please try again" message is displayed on HMI.

Incase if RJVClient1 transmits RClimat_St = 0x0 (Off) while rejuvenate experience is on it shall abort the experience.

At the beginning of rejuvenate experience (Entry Phase) vehicle parameters are saved as defined in Save/Recall Parameters section (RJV-REQ-43802-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.

For Rejuvenate Audio following signals shall be used:

SetBass

SetMidRange

SetTreble

SetBalance



SetFade

AudioStatus_St(SourceType = Aux_Media, Status = Granted, VehicleAudioMode = Cabin)

AudioStreaming/NoAudioStreaming depending Audio Selected/Not Selected.

3.3.2 Use Cases

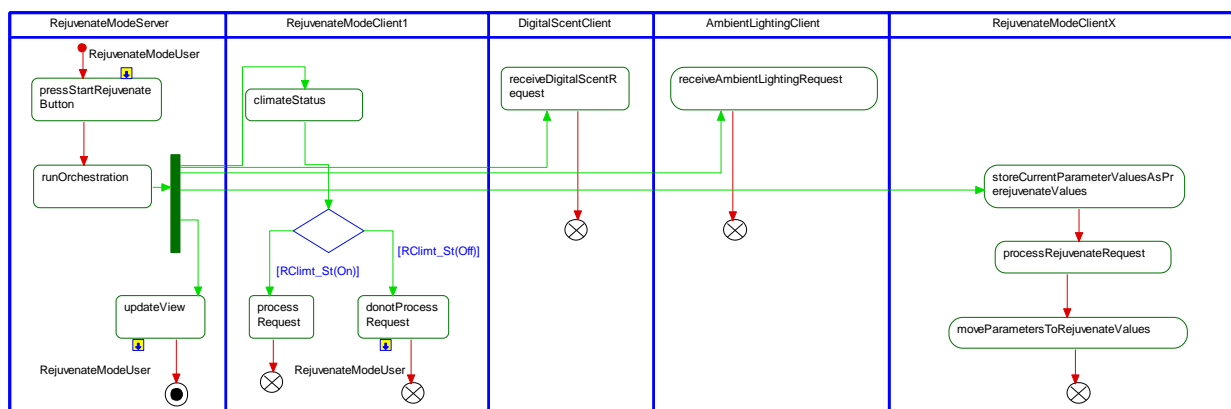
3.3.2.1 RJV-UC-REQ-438014/A-Start Rejuvenate Experience

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | 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. |
| Scenario Description | User presses “Start Experience” soft button on the HMI. |
| Post-conditions | Rejuvenate feature locks doors. Rejuvenate experience begins. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

3.3.3 White Box Views

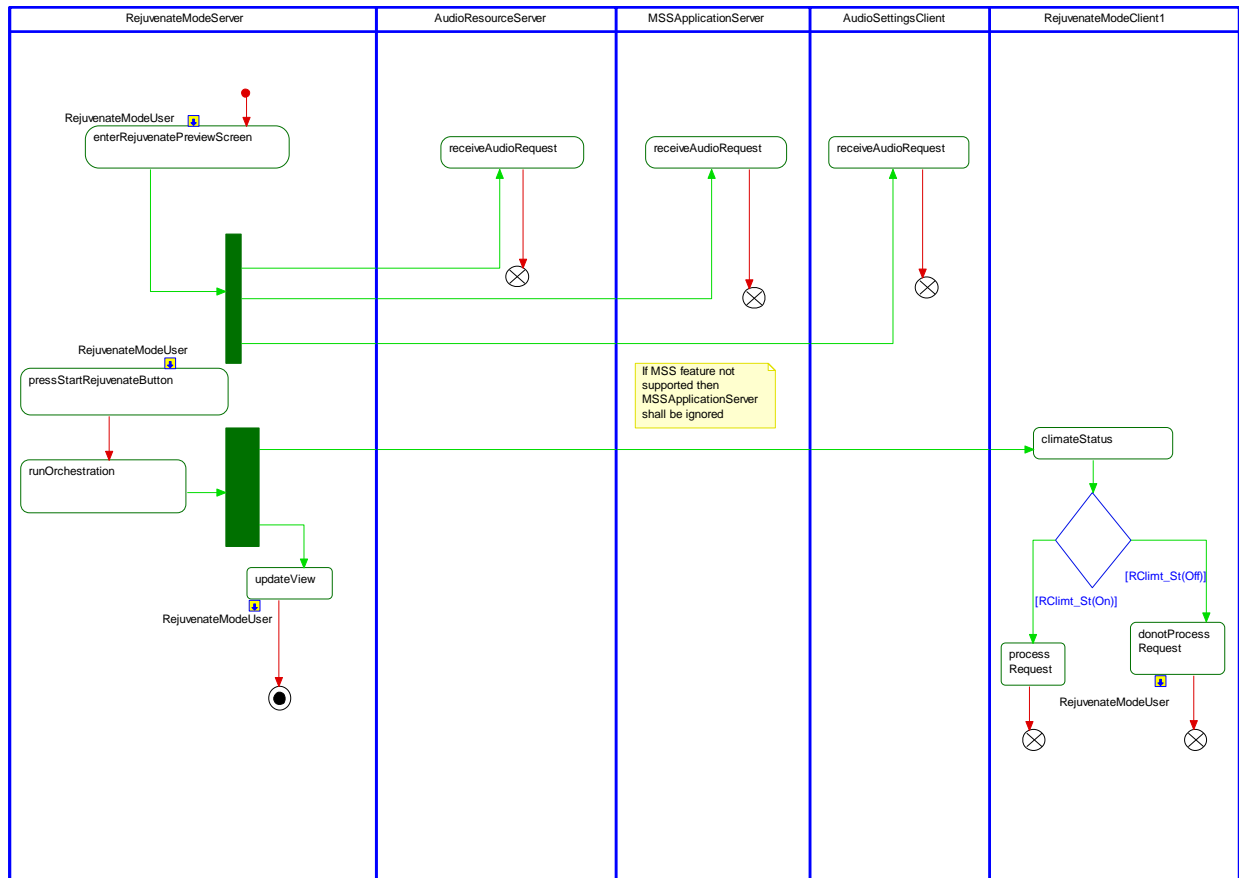
3.3.3.1 Activity Diagrams

3.3.3.1.1 RJV-ACT-REQ-441934/B-Start Rejuvenate





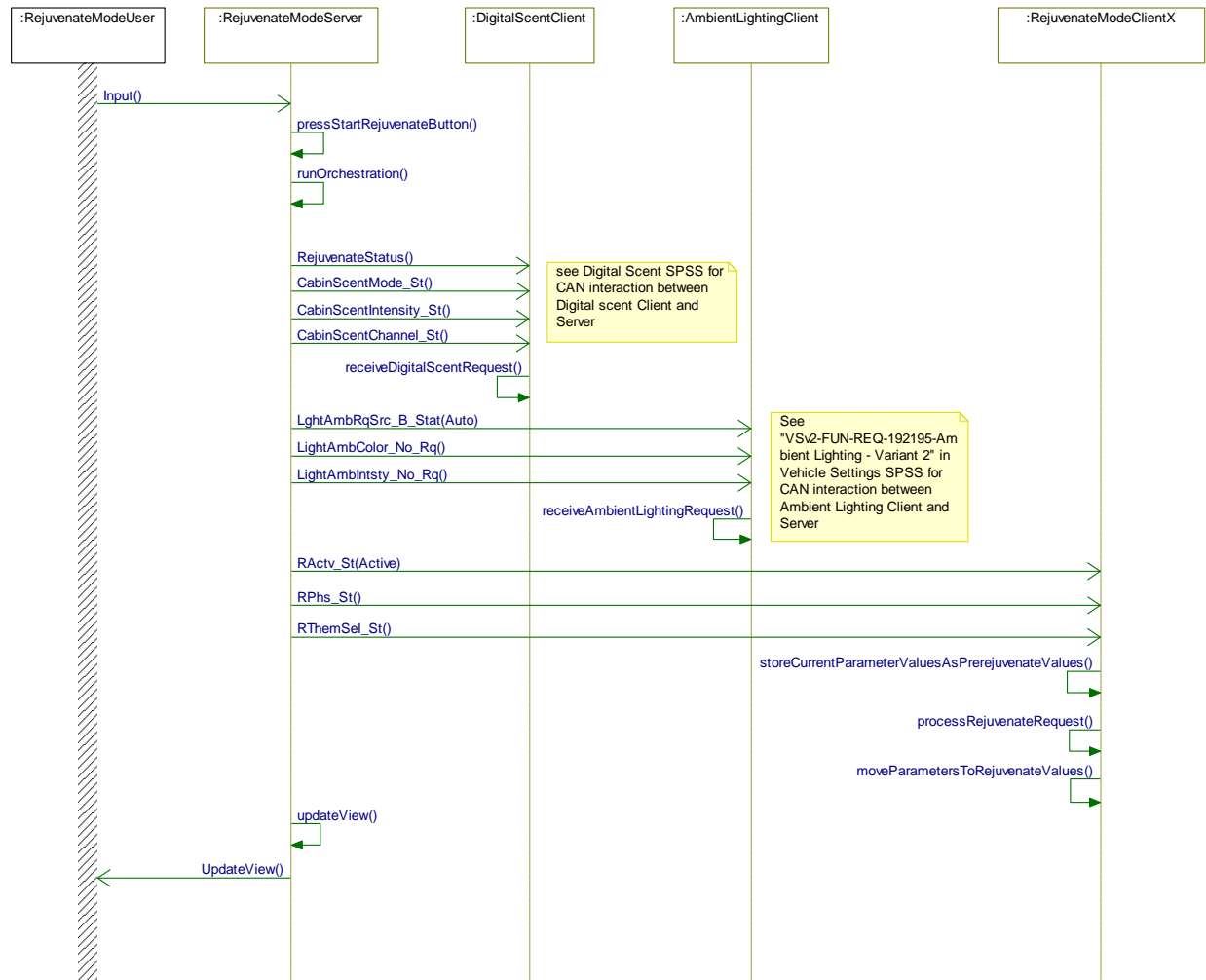
3.3.3.1.2 RJV-ACT-REQ-466685/B-Start Rejuvenate_Audio Sequence





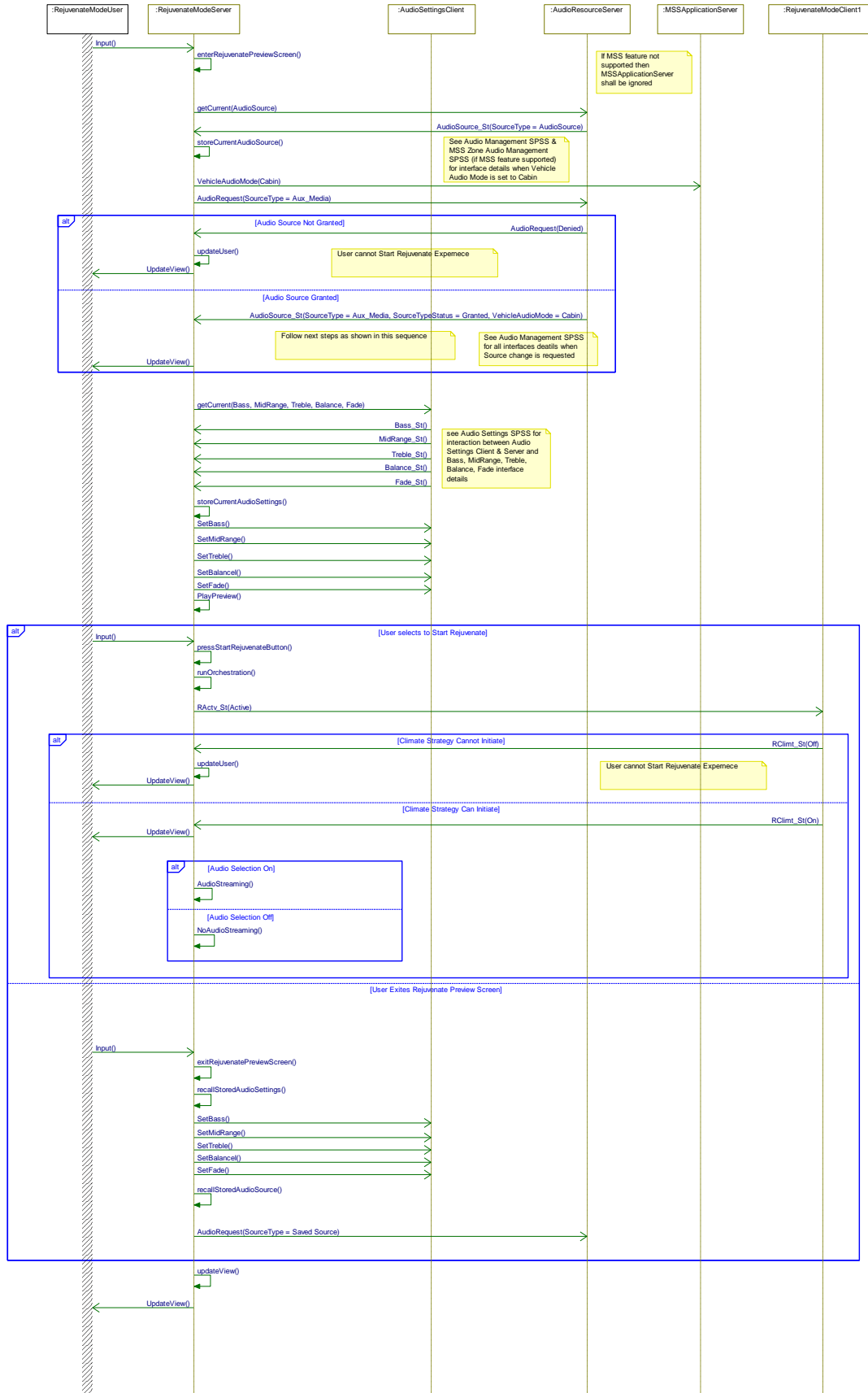
3.3.3.2 Sequence Diagrams

3.3.3.2.1 RJV-SD-REQ-441935/C-Start Rejuvenate





3.3.3.2.2 RJV-SD-REQ-466688/B-Start Rejuvenate_Audio Sequence





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

3.4.1 Requirements

3.4.1.1 RJV-REQ-438033/C-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

When Rejuvenate ends HMI shall go back to Rejuvenate preview screen and preview audio/video shall play.

When user exits preview screen:

RJVServer shall send internal signal to AudioSettingsClient to restore Bass, Mid Range, Treble, Balance, Fade to pre-rejuvenate values.

RJVServer shall send internal signal to AudioResourceServer to restore Audio Source type to pre-rejuvenate value.

Once the rejuvenate experience ends, the cabin of the vehicle except audio/video shall go to the conditions that it was in before the rejuvenate experience, audio/video shall go back to pre-rejuvenate condition only when user exits preview screen. Refer section Save/Recall Parameters for details (RJV-REQ-438021-Save/Recall Parameters).

3.4.2 Use Cases

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

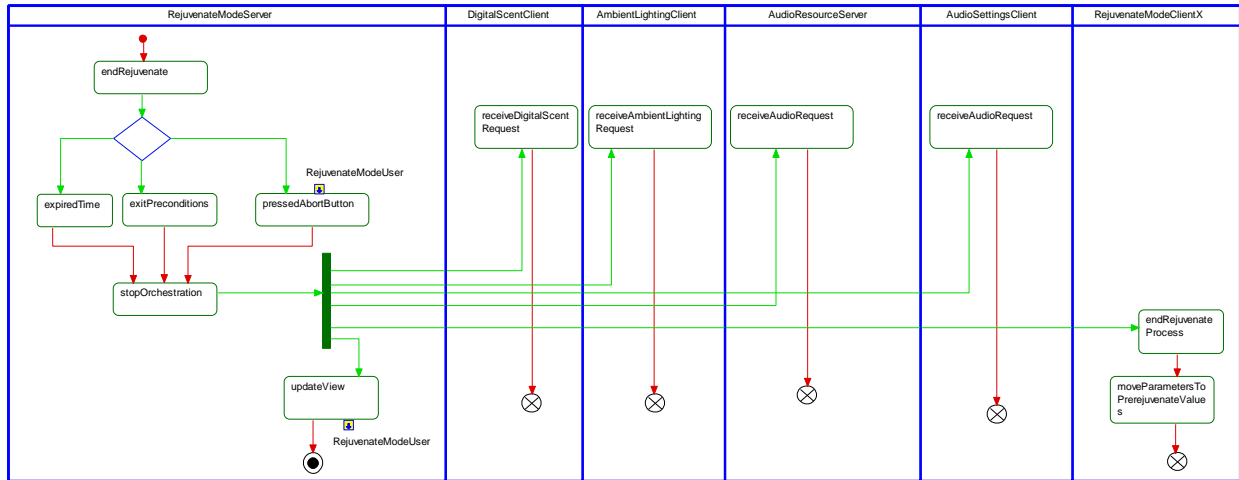
| | |
|------------------------------------|--|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. RJVServer screen is ON. Rejuvenate experience is ON. |
| Scenario Description | The time selected for rejuvenate experience elapsed and all the phases of orchestration is complete as selected. |
| Post-conditions | 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. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |



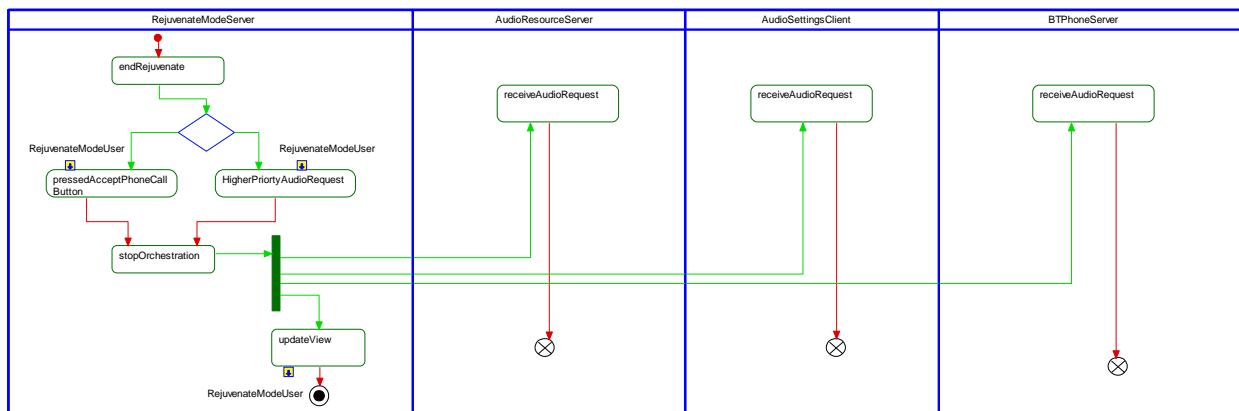
3.4.3 White Box Views

3.4.3.1 Activity Diagrams

3.4.3.1.1 RJV-ACT-REQ-441936/C-End Rejuvenate



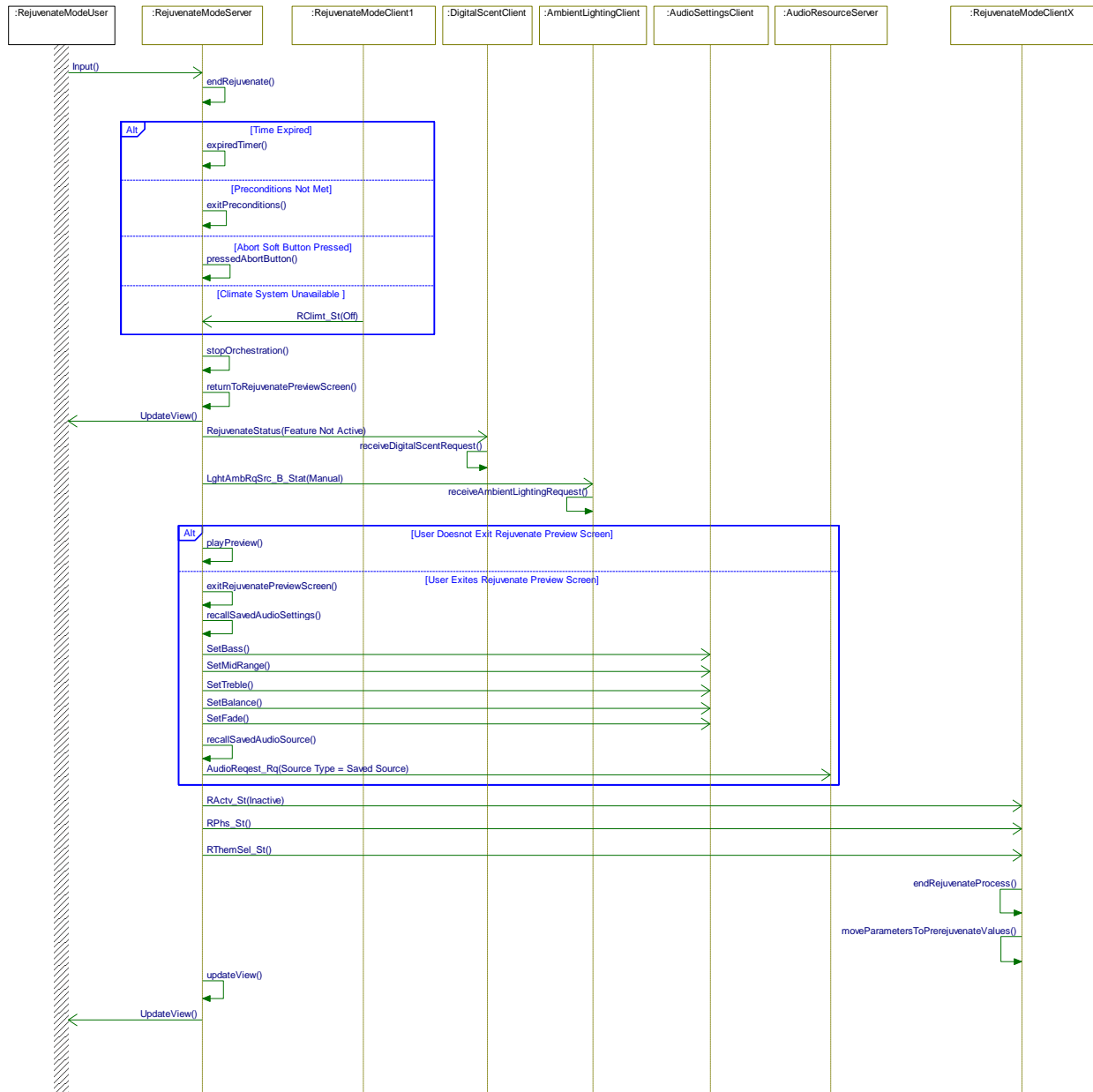
3.4.3.1.2 RJV-ACT-REQ-466686/B-End Rejuvenate_Accepted Phone Call/Other High Priority Audio Request



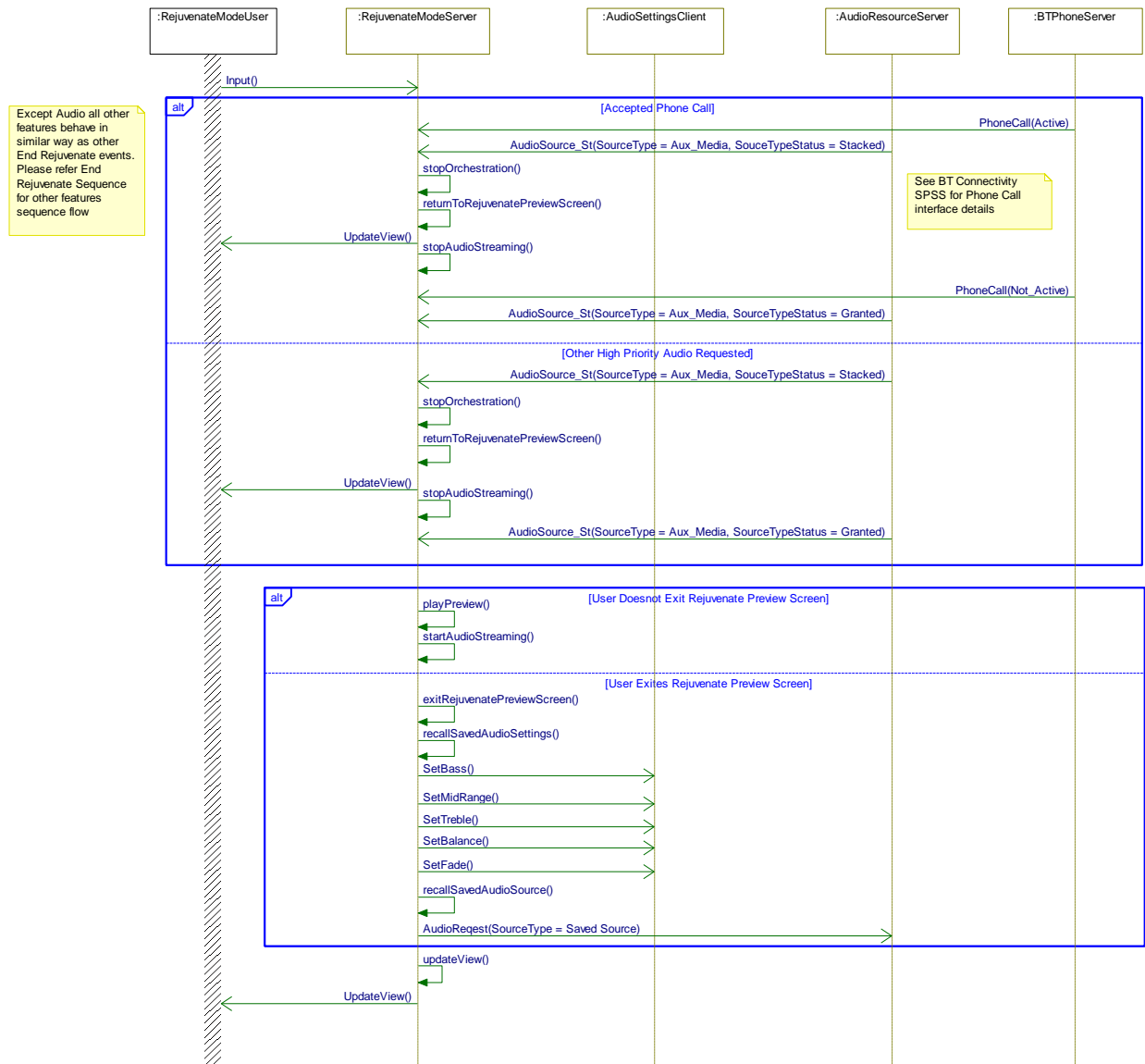


3.4.3.2 Sequence Diagrams

3.4.3.2.1 RJV-SD-REQ-441937/C-End Rejuvenate



3.4.3.2.2 RJV-SD-REQ-466689/B-End Rejuvenate_Accepted Phone Call/Other High Priority Audio Request



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

3.5.1 Requirements

3.5.1.1 RJV-REQ-438034/B-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

Seat movement

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

3.5.1.2 RJV-REQ-466742/A-Save Altered Seat Position

While Rejuvenate experience is underway user can change the seat position manually.



At end of the relax phase and at end of the invigorate phase there will be message pop-up for user to save the seat settings so that it will be remembered as desired position for next time during that phase.

If user selects to save the changes, RJVServer shall transmit signal RSeatSetSave_Rq = 0x1 (Yes) to RJVClient3. RJVClient3 shall then save the seat settings.

If user selects to not to save the changes, RJVServer shall transmit signal RSeatSetSave_Rq = 0x0 (No) to RJVClient3. RJVClient3 shall not save the seat settings.

3.5.2 Use Cases

3.5.2.1 RJV-UC-REQ-438016/B-Alter Rejuvenate Experience

| | |
|------------------------------------|--|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON. |
| Scenario Description | 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, seat movement On/Off) on the HMI screen. |
| Post-conditions | 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. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

3.5.2.2 RJV-UC-REQ-466744/A-Save Altered Seat Position

| | |
|-----------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON. |
| Scenario Description | The user changes the seat settings. At end of the relax phase and at end of the invigorate phase RJVServer shall display options to save the seat settings. User can select to save the changes or discard the changes. |



| | |
|------------------------------------|--|
| Post-conditions | If user selects to save the changes that will be reflected next time experience is On. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

3.6 RJV-FUN-REQ-438070/B-Abort Experience

3.6.1 Requirements

3.6.1.1 RJV-REQ-438035/C-Abort Definition

When rejuvenate experience is aborted either by pressing soft button or exiting pre-condition or accepting phone call via HMI/other high priority audio (ex. VR session) requested or if climate system becomes unavailable for rejuvenate, 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-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

When Rejuvenate aborts HMI shall go back to Rejuvenate preview screen.

If aborted by:

pressing soft button or exiting pre-conditions, preview audio/video shall play until preview screen is exited.

Or

accepting phone call via HMI/other high priority audio requested, preview audio/video shall play after event ended and if preview screen is not exited, incase preview screen is exited then audio shall go back to pre-rejuvenate settings.

3.6.1.2 RJV-REQ-438036/B-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.

3.6.1.3 RJV-REQ-438037/C-Abort - Exit Precondition

When any of the following events occur:

1. GearPosition_St \neq 0x0 (Park); vehicle gear out of park
2. Vehicle engine \neq Active; Turns engine off (Refer RJV-REQ-438019-Preconditions for Rejuvenate Experience for vehicle engine = Active condition).
3. 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
4. Vehicle Stationary Mode is Inactive/Off; RJVServer internal signal Vehicle Stationary Mode changes from Active/On to Inactive/Off

The rejuvenate experience shall abort immediately.

**3.6.1.4 RJV-REQ-442270/B-Abort - Accepted Phone Call/Other High Priority Audio Requested**

If user accepts Phone Call via HMI or if any other high priority (ex. VR session) audio is requested, it shall abort the rejuvenate experience. RJVServer shall send RPhs_St = 0x4 (Abort) and abort the sequence.

3.6.1.5 RJV-REQ-470267/A-Abort - Climate System Unavailable For Rejuvenate

If for any reason Climate system cannot support rejuvenate and RJVClient1 transmits signal RClimt_St = 0x0 (Off), it shall abort the rejuvenate experience. RJVServer shall send RPhs_St = 0x4 (Abort) and abort the sequence.

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON. |
| Scenario Description | User presses "End Experience" soft button on the HMI. |
| Post-conditions | 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. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

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

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON. |
| Scenario Description | 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 |
| Post-conditions | 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. |
| List of Exception Use Cases | |



| | |
|-------------------|----------|
| Interfaces | HMI, CAN |
|-------------------|----------|

3.6.2.3 RJV-UC-REQ-442271/B-Abort - Accepted Phone Call/Other High Priority Audio Requested

| | |
|------------------------------------|---|
| Actors | User, RJVServer |
| Pre-conditions | Infotainment system is powered ON. RJVServer is active. RJVServer_screen is ON. Rejuvenate experience is ON. |
| Scenario Description | User presses "Accept Phone Call" button on the HMI when phone call received or other high priority audio requested. |
| Post-conditions | 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. |
| List of Exception Use Cases | |
| Interfaces | HMI, CAN |

3.6.3 White Box Views

3.6.3.1 Activity Diagrams

3.6.3.1.1 RJV-ACT-REQ-441999/C-Abort Rejuvenate

Refer End Rejuvenate Activity Diagram (**RJV-ACT-REQ-441936-End Rejuvenate**) and End Rejuvenate_Accepted Phone Call/Other High Priority Audio Request Activity Diagram (**RJV-ACT-REQ-466686-End Rejuvenate**)

3.6.3.2 Sequence Diagrams

3.6.3.2.1 RJV-SD-REQ-442000/C-Abort Rejuvenate

Refer End Rejuvenate Sequence Diagram (**RJV-SD-REQ-441937-End Rejuvenate**) and End Rejuvenate_Accepted Phone Call/Other High Priority Audio Request Sequence Diagram (**RJV-SD-REQ-466689-End Rejuvenate**)

3.7 RJV-FUN-REQ-466751/A-Rejuvenate Data Analytics

3.7.1 Requirements

3.7.1.1 RJV-REQ-466745/A-Record and Store Data While Rejuvenate Active

RJVServer shall provide data analytic services in support of the Rejuvenate feature. Services shall include monitoring and data recording of the subsequent signals or internal values to RJVServer software as defined here for further processing and analysis by the Rejuvenate Dashboard/API.



Upon activation of Rejuvenate feature which shall be detected when RActv_St signal transitions from Inactive to Active, RJVServer shall record and store the following data elements independently and in association with their accompanying UTC timestamp :

1. Rejuvenate settings:

- Rejuvenate Theme as per RThemSel_St value
- Heated Seat Status – ON or OFF as per RSeatHeat_Rq = 0x1 (On) or 0x0 (OFF)
- Cooled Seat Status – ON or OFF as per RSeatCool_Rq = 0x1 (On) or 0x0 (OFF)
- Massage Setting Status – ON or OFF as per RSeatMassage_Rq = 0x7 (CushionMassage) for ON or 0x2 (MiddleLumbar) for OFF
- Cabin Scent Status – ON or OFF as per Rejuvenate Status = 0x1 (Feature Active) or 0x0 (Feature Not Active)
- Meditation Audio Setting – ON or OFF
- Selected Length of Rejuvenation Experience

2. Other Data:

- UTC time from LocationServices_1 message
- Date from LocationServices_1 message
- Vehicle Location from LocationServices_1 message
- Vehicle Cabin Temperature as in CabnAmb_Te_ActlAft
- Outdoor Temperature transmitted as in Outside_Air_Temp_Stat
- Cabin Mode Status as in CabinScentMode_St
- Cabin Scent Intensity as in CabinScentIntensity_St
- Cabin Scent Selection as in CabinScentChannel_St
- Ambient Light Level Litval

3.7.1.2 RJV-REQ-466746/A-Record and Store Engine ON time and Data Logging Timer

RJVServer shall record and store the event instance when CAN signal Eng_D_Stat changes state from OFF to ON. RJVServer shall accompany this instance by recording a UTC timestamp of the event.

RJVServer shall maintain a log of total duration between the vehicle's engine ON status and when a user activates the feature Rejuvenate. A change in CAN signal Eng_D_Stat from the state OFF to ON shall indicate the start of a data logging timer; CAN signal RjvntActv_D transitioning from the state INACTIVE to ACTIVE shall indicate the end of such timer. The total duration shall be stored by RJVServer. In the event the user does not use activate Rejuvenate before turning the vehicle off where Eng_D_Stat transitions from ON to OFF, RJVServer shall end the timer and not log any duration.

3.7.1.3 RJV-REQ-466747/A-Record Feature Completed Instances

RJVServer shall maintain a running tally of total completed instances of the feature Rejuvenate. A single instance of Rejuvenate shall be defined as an activation of the feature where the CAN signal RActv_St transitions from the INACTIVE to ACTIVE state and is not aborted.

3.7.1.4 RJV-REQ-466748/A-Record Feature Preview Instances

RJVServer shall maintain and store a running tally of total uses of the feature's preview function. Every instance of a user selecting a Rejuvenate theme's preview and playing it shall increase the tally by one. RJVServer shall identified theme selection as per CAN signal RThemSel_St. RJVServer shall record and store separately a tally for each available theme.



3.7.1.5 RJV-REQ-466749/A-Record Feature Aborted Instances

RJVServer shall maintain a running tally of total aborted instances of the feature Rejuvenate. An aborted instance of Rejuvenate shall be defined as an activation of the feature where the CAN signal RActv_St transitions from the INACTIVE to ACTIVE state but Rejuvenate does not complete all phases or is ended prematurely.

RJVServer shall maintain a log of duration for when users activate Rejuvenate and the feature undergoes an abortion or premature exit of the experience. Whenever a premature exit of Rejuvenate occurs, RJVServer shall record the activity or trigger that causes the premature exit and store this instance along with total duration before abortion.

Please refer section RJV-FUN-REQ-438070-Abort Experience for abort or premature exit triggers.

3.7.1.6 RJV-REQ-466750/A-Record Alterations during Rejuvenate Experience

RJVServer shall monitor the vehicle for customer-initiated setting changes during Rejuvenate's user experience. The following data elements shall be monitored and changes in state or value shall be recorded with an accompanying timestamp:

- Any Climate Setting Changes – YES or NO - RClimtOvrdTyp_St
- Climate Related Setting Changed (Which Climate Setting Changed related to Rejuvenate) - RClimtOvrrd_St, RSeatOvrrd_St
- Driver Climate Temperature Setting (User Selected Temperature) - Drv_Set_Temp
- Driver Seat Temperature Setting (COOL SETTING 1,2,3 or HEATED SETTING 1,2,3) - LHS_Cond_Seat_Status
- Driver AC Blower Setting (INCREASE BLOWER SPEED or DECREASE BLOWER SPEED) - Frt_Btn_Status_1st, Frt_Btn_Status_2nd



4 Appendix: Reference Documents

| Reference # | Document Title |
|-------------|--|
| 1 | Orchestration with Theme Matrix document |
| 2 | Audio Management Variant 2 SPSS |
| 3 | MSS Zone Audio Management APIM_AOS SPSS |
| 4 | Audio Settings PAC-AHU variant 2 SPSS |
| 5 | Bluetooth Connectivity APIM_AOS SPSS |
| 6 | Infotainment Diagnostics Specification |
| 7 | X93_Rejuvenate |
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