Rejuvenate

<<Feature>>

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# Introduction

## Document Purpose

The Feature Implementation Specification (FIS) specifies the deployment of the logical functions of a feature to an electrical architecture. The FIS specifies all interactions between the ECUs of the electrical architecture required for the feature including the technical signals and the interfaces. It also gives interface and integration requirements, which are specific to the feature for the electrical architecture.

To get more information about the concept of feature, function and component level abstraction refer to the [Ford RE Wiki](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Engineering+for+SW+Enabled+Features).

## Document Scope

This FIS describes the deployment of the feature <Feature> to the following electrical architecture(s):

| **Electrical Architecture Name** | **Owner** | **Reference** |
| --- | --- | --- |
| e.g. CGEA1.3 |  | <Add VSEM Link> |
|  |  |  |

Table 1‑1: Electrical Architecture(s) referenced in this document

## Document Audience

The FIS is authored by - . All Stakeholders, i.e., all people who have a valid interest in the feature implementation should read and, if possible, review the FIS. It needs to be guaranteed, that all stakeholders have access to the currently valid version of the FIS.

### Stakeholder List

For the latest list of the function stakeholders and their roles & responsibilities refer to <[Rejuvenate Stakeholder VSEM Link](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=jAjBC4Cjx3NrTDAAAAAAAAAAAAA&servername=Production_Server)>.

## Document Organization

### Document Context

Refer to the [Specification Structure page](http://wiki.ford.com/display/RequirementsEngineering/Specification+templates) in the [Ford RE Wiki](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Engineering+for+SW+Enabled+Features) to understand how the FIS relates to other Ford Requirements Documents and Specifications.

### Document Structure

The structure of this document is explained below:

**Section 1** – Introduction – Giving an explanation how to use this document including responsibilities and the scope of the document. Additionally it contains the revision history and a list of unsettled but known issues that have to be consolidated in future versions. It explains the terminology and gives a clarification of the definitions, concepts and abbreviations used in the document.

**Section 2** – Feature Implementation Description – Giving an overview of the platform and listing assumptions, constraints or dependencies

**Section 3** – Feature Implementation Architecture – Describing 3 Architecture Views:

* Functional Architecture – Showing the logical architecture of functions
* Physical Architecture – Showing the physical architecture (first of all the E/E Architecture), which the Logical Functions get allocated to.
* Software Architecture – Showing the software architecture relevant for the feature (for features with in-house development only)
* Function Deployment – Presenting the allocation of logical functions and signals to the electrical and other components

**Section 4** – Deployment Specific Modeling –Modeling techniques providing additional detail on e.g. interface behavior

**Section 5** – Deployment Specific Requirements – Deployment specific requirements for ECUs, Network Communication, and Process

**Section 6** – List of Open Concerns

**Section 7** – Revision History

**Section 8** – Appendix - Presenting additional data mainly in a tabular form, e.g., a data dictionary

## Document Conventions

### Requirements Templates

Refer to “[How to use the Specification Templates](http://wiki.ford.com/display/RequirementsEngineering/How+to+use+the+Specification+Templates?src=contextnavpagetreemode)” on how to use the specification templates and the VBA macros to create/edit the requirements in the specifications.

The VBA macro enable the import of the specification to VSEM (refer to ["How to import specifications into VSEM as separate requirements"](http://wiki.ford.com/pages/viewpage.action?pageId=104991616&src=contextnavpagetreemode)).

#### Identification of requirements

The unique requirement ID given in the headline of any requirement follows the requirement throughout the development process. The requirement ID format follows a well-defined syntax.

All identifiers in an FIS shall be composed of 4 parts:

* A leading prefix, which indicates the type of requirement (R=Requirement, UC=Use Case, SC=Scenario, …)
* A prefix, which indicates the abstraction level (F=Feature, FNC=Function, CMP = component).
* Followed by a name, indicating the scope, which the requirement belongs to (e.g. feature or function name )
* Ending with the actual requirement number

*Example:*

*R\_CMP\_LockArbitrator\_00004* This is the fourth requirement on component level for the function Lock Arbitrator.

#### Requirements Attributes

Additionally attributes can be added to each requirement. This helps to classify requirements. A [list of available attributes](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes?src=contextnavpagetreemode) is given in the RE Wiki.

## References

### Ford Documents

The list of all Ford internal documents, which are directly related.

### External Documents and Publications

The list of external documents could include books, reports and online sources.

## Glossary

### Definitions

*No glossary items found.*

### Abbreviations

*No acronyms specified.*

# Feature Implementation Overview

## Description

## Input Requirements/Documents

|  |  |  |  |
| --- | --- | --- | --- |
| **Reference**  (Reference as listed in ch. “References”) | **Section/Requirement** | **Description** | **Derived Requirement**  (optional – reference to requirement in ch. “Feature Implementation Requirements”) |
| **Feature/Function Requirements** | | | |
|  | <Example:  id + title of relevant Function Spec> | <Example: “Function requirements of Logical Function …”> | <Note: If you reference a requirement in this column, then that requirement should have a trace link in its [“Source”/”Source Req.” attribute](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) field pointing back to the input requirement (or to a requirement inside the input document) given in this table row> |
|  |  |  |  |
| **Ford Engineering Standards** | | | |
|  | <Example: some SDS (requirement)> |  |  |
|  |  |  |  |
| **Legal Regulations** | | | |
|  |  |  |  |
| **Industry Standards** | | | |
|  |  |  |  |
| **Other Sources** | | | |
|  |  |  |  |
|  |  |  |  |

Table 2: Input Requirements/Documents

## Lessons Learned

No lessons learned specified.

## Assumptions

No Assumptions specified.

# Feature Implementation Architecture

## Functional Architecture

### Description

Figure 3‑1: Functional Architecture

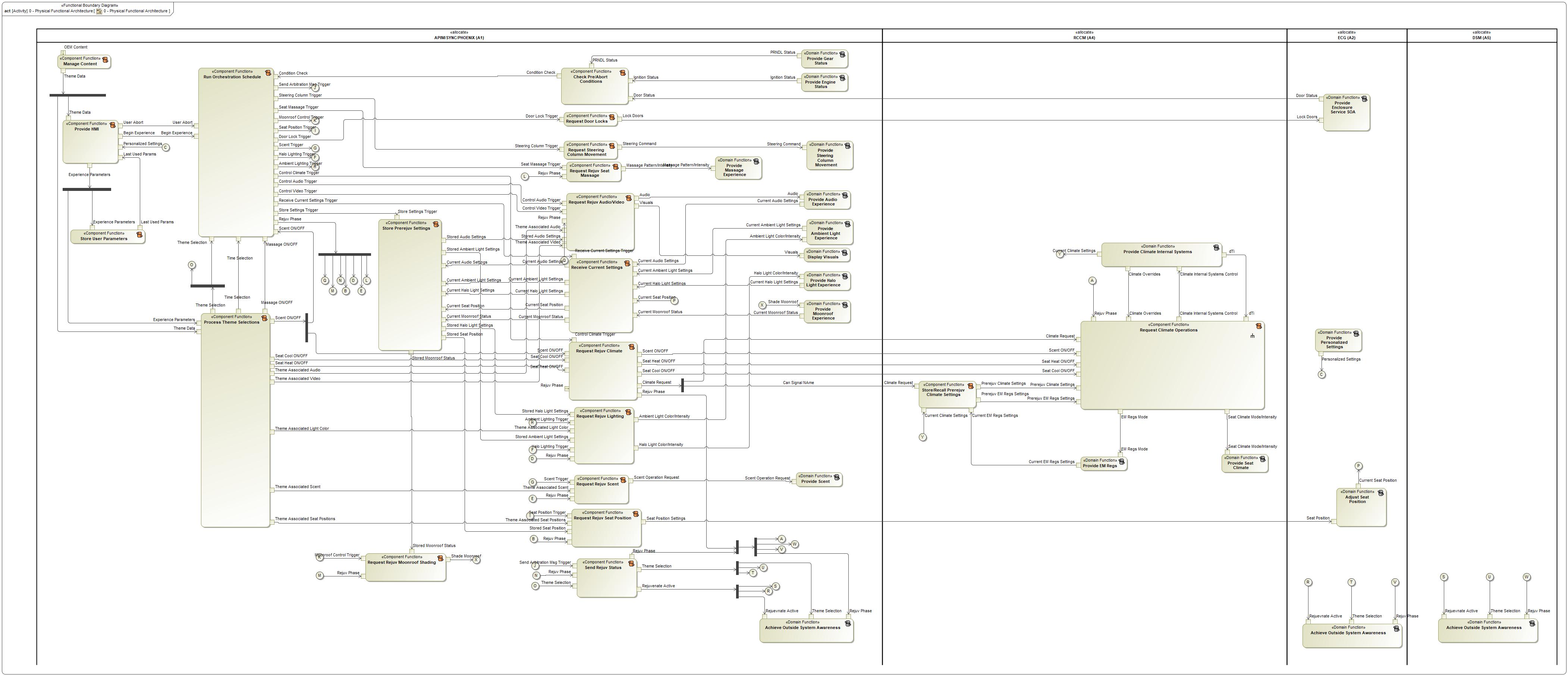


Figure 2: 0 - Physical Functional Architecture

### Function List

The following functions from the [Global Feature & Function List](https://www.vsemweb.ford.com:443/tc/launchapp?-attach=true&-s=226TCSession&-o=ZmZNi0JHx3NrTDAAAAAAAAAAAAA) are referenced in this Feature Implementation Specification:

| **Function ID** | Function Name | Function Description |
| --- | --- | --- |
|  | *(activity)* Store/Recall Prerejuv Climate Settings | *(activity)* This <<Subsystem Function>> is used by the Provide Rejuvenate Climate <<System Function>>, to store and later recall, the settings of the climate system as they were before the Rejuvenate feature was running. |
|  | *(activity)* Manage Content | *(activity)* This <<System Function>> manages the content related to the Rejuvenate themes. This content can be updated via OTA. |
|  | *(activity)* Request Rejuv Lighting | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s Halo Lighting and/or Ambient Lighting system(s)/feature(s). |
|  | *(activity)* Request Rejuv Seat Position | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s seat position movement |
|  | *(activity)* Provide Audio Experience | *(activity)* This <<Domain Function>> represents the functionality that the infotainment audio system provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Send Rejuv Status | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and sends a signal out to other systems/features that Rejuvenate is currently running. |
|  | *(activity)* Provide Scent | *(activity)* This <<Domain Function>> represents the functionality that the Digital Scent feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Request Door Locks | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s window and door functionality for locking doors and closing windows. |
|  | *(activity)* Request Rejuv Scent | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s Digital Scent system/feature. |
|  | *(activity)* Provide Seat Climate | *(activity)* This <<Domain Function>> represents the functionality that the Seat Climate feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Adjust Seat Position | *(activity)* This <<Domain Function>> represents the functionality that the seat position system/feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Store User Parameters | *(activity)* This <<System Function>> stores the user selected parameters for the Rejuvenate Feature. |
|  | *(activity)* Provide Steering Column Movement | *(activity)* This <<Domain Function>> represents the functionality that the steering column position system/feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Store Prerejuv Settings | *(activity)* This <<System Function>> stores the settings for various systems/features that Rejuvenate uses. These settings will be eventually called upon to return those systems/features to be as they were before the Rejuvenate feature was running. |
|  | *(activity)* Achieve Outside System Awareness | *(activity)* This <<Domain Function>> represents the other systems/features which need to be aware of the Rejuvenate feature being active at the time. |
|  | *(activity)* Provide Personalized Settings | *(activity)* This <<Domain Function>> represents the functionality that the Personal Portable Profiles or Enhanced Memory feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Provide Gear Status | *(activity)* This <<Domain Function>> represents the functionality that the transmission/gear selection system/feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will provide information that will be used in the Rejuvenate feature. |
|  | *(activity)* Process Theme Selections | *(activity)* This <<System Function>> relates the user’s selections to actual content/settings that Rejuvenate needs to push to other systems/features. |
|  | *(activity)* Provide Ambient Light Experience | *(activity)* This <<Domain Function>> represents the functionality that the Ambient Light system/feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Achieve Outside System Awareness | *(activity)* This <<Domain Function>> represents the other systems/features which need to be aware of the Rejuvenate feature being active at the time. |
|  | *(activity)* Check Pre/Abort Conditions | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and watches the signals related to preconditions and abort conditions for the Rejuvenate Feature. This shall send the signal denoting if it is OK to start the experience, and also if the experience needs to be aborted. |
|  | *(activity)* Request Climate Operations | *(activity)* This <<Subsystem Function>> is used by the Provide Rejuvenate Climate <<System Function>> and represents the logic that Rejuvenate is developing to provide the intended climate experience. |
|  | *(activity)* Request Steering Column Movement | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s steering column movement. |
|  | *(activity)* Provide EM Regs | *(activity)* This <<Domain Function>> represents the functionality that the EM Registers feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Request Rejuv Seat Massage | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s seat massage system/feature. |
|  | *(activity)* Provide Halo Light Experience | *(activity)* This <<Domain Function>> represents the functionality that the Halo Light system/feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Achieve Outside System Awareness | *(activity)* This <<Domain Function>> represents the other systems/features which need to be aware of the Rejuvenate feature being active at the time. |
|  | *(activity)* Provide Massage Experience | *(activity)* This <<Domain Function>> represents the functionality that the seat massage system/feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Provide HMI | *(activity)* This <<System Function>> provides the needed HMI for the Rejuvenate feature. |
|  | *(activity)* Run Orchestration Schedule | *(activity)* This <<System Function>> shall run the logic containing the schedule of events for the experience and send the related triggers out to other functions |
|  | *(activity)* Display Visuals | *(activity)* This <<Domain Function>> represents the functionality that the infotainment screens provide to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Request Rejuv Audio/Video | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s infotainment system/feature for video and audio. |
|  | *(activity)* Provide Moonroof Experience | *(activity)* This <<Domain Function>> represents the functionality that the PDLC SkyLite Digital Shade feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Provide Engine Status | *(activity)* This <<Domain Function>> represents the functionality that the engine control system provides to the vehicle, regardless of the Rejuvenate feature. This functionality will provide information that will be used in the Rejuvenate feature. |
|  | *(activity)* Provide Enclosure Service SOA | *(activity)* This <<Domain Function>> represents the functionality that the doors system/feature provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Receive Current Settings | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and receives the current settings from various other systems/features that Rejuvenate utilizes. |
|  | *(activity)* Request Rejuv Moonroof Shading | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the utilization of the vehicle’s PDLC SkyLite Digital Shade feature. |
|  | *(activity)* Provide Climate Internal Systems | *(activity)* This <<Domain Function>> represents the functionality that the Climate System provides to the vehicle, regardless of the Rejuvenate feature. This functionality will either be called upon by the Rejuvenate feature to perform an act, provide information that will be used in the Rejuvenate feature, or both. |
|  | *(activity)* Request Rejuv Climate | *(activity)* This <<Subsystem Function>> is used by the Communicate with other Systems <<System Function>> and requests the Rejuvenate Climate logic to be utilized. |

Table 3: List of Functions

### Signal List

|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |
| **implementation Signal** |  | Satisfies:  -2016855412.jpg Example Implementation Reqt  Source ECU:  Target ECU: |

## Physical Architecture

### E/E Architecture

#### E/E Architecture Variants

|  |  |  |
| --- | --- | --- |
| E/E Architecture Variant Name | Variant Description | Variant Condition (optional) |
| e.g “FNV2” |  | Example:   * VOpt\_NetworkTopology = FNV2   AND   * DATGen = 2.0 |
| e.g. “CGEA Low Content” |  | Example:   * (VOpt\_NetworkTopology = CGEA13   OR  VOpt\_NetworkTopology = CGEA11)  AND   * VOpt\_ABS = None   AND   * VOpt\_PTModule = ECM |
|  |  |  |

##### E/E Architecture “Architecture Variant 1”: Physical Architecture

This E/E Architecture variant … <add some explanatory text here>

Figure 1: Physical Architecture

Figure 3‑4 E/E Architecture (Network Topology Style)

##### E/E Architecture “Architecture Variant 2”

#### E/E Components

|  |  |
| --- | --- |
| Component Name | **Description** |
| Scent Module (A9) |  |
| (A12) |  |
| AHU/Amplifier (A8) |  |
| Center Screen |  |
| Sttering Wheel |  |
| ECG (A2) |  |
| Cloud (A13) |  |
| Dr Seat Massage |  |
| Doors |  |
| Standar Climate |  |
| Seat Heat/Cool |  |
| Speakers |  |
| Ambient Lights |  |
| Secondary Screen (Horizon) |  |
| OEM Server (A14) |  |
| MCSM (A6) |  |
| OZM (A15) |  |
| EM Registers |  |
| APIM/SYNC/PHOENIX (A1) |  |
| Moonroof |  |
| Seat Position |  |
| DSM (A5) |  |
| User (B1) |  |
| Door Control Unit (A10) |  |
| Digital Scent |  |
| TCU (A11) |  |
| Halo Lights |  |
| RCCM (A4) |  |
| PSM (A7) |  |
| BCM (A3) |  |

Table 3‑4: Electrical Components

#### E/E Connections

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Connection Name | **Connection Type** | **Protocol**  Only if ‘Connection Type’ is “Network”/”RF-Digital” | **Description** | **Allocated Messages**  Only if ‘Connection Type’ is “Network”/”RF-Digital” | **Connected Nodes** |
| <Give a Connection Name>  *#Hint:*   * *For ‘Connection Type’ “Network” check with Netcom for naming conventions for busses/networks* * *For other ‘Connection Types’  use PSF naming convention of the* [*EDAS signal database in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server)*. You may directly link* to the VSEM entry. Refer to the “Event Notification Signal” example below”. | Choose an item. | Choose an item. | <Provide a brief description> | <Give a list of relevant messages >  *#Hint:*  *The message name should be linked.*  *E.g.*   * *for CAN signals to the VSEM CMDB (refer e.g. to* [*CGEA 1.3*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=n0SJN9h0x3NrTDAAAAAAAAAAAAA&servername=Production_Server) *or* [*FNV2*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=jXfpx2PHx3NrTDAAAAAAAAAAAAA&servername=Production_Server)*).* * *for SOA Service API data elements to the SOA Service API or MQTT/FTCP message in the corresponding central repository (e.g.* [*Central SW Service Catalog*](http://wiki.ford.com/display/CS/Service+Catalog)*)*   *If a message is not yet managed in VSEM or any other central repository, add a link to the section “****Error! Reference source not found.****” in the* ***Error! Reference source not found.****. In the subsections of that data dictionary chapter you may add a definition of your message.* | <Give a list of relevant nodes> |
|  |  |  |  |  | … |
|  |  |  |  |  | … |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Table 3‑5: E/E Connections

#### Signal List

### Software Component Architecture

#### Description

This Software Component Architecture … <add some explanatory text here>

Figure 3‑5: AUTOSAR compliant SW Component Architecture

## Function Deployment

### Deployment Variants

|  |  |  |
| --- | --- | --- |
| **Deployment Variant Name** | Variant Description | Variant Condition (optional) |
| “Variant 1” (e.g. for CGEA1-3) | Some explanatory text characterizing the variant |  |
| “Variant 2” (e.g. for FNV) |  |  |
|  |  |  |
|  |  |  |

#### Deployment “Variant 1”

This deployment variant … <add some explanatory text here>

Table 3‑6: Sample Deployment Diagram

### Function Allocation

| Component | Technology Function Name | Logical Function Name |
| --- | --- | --- |
|
| Component 1 | Impl. Function (or MBSE Technology Function) 1 | (Atomic) Logical Function 1 |
| Impl. Function (or MBSE Technology Function) 2a | (Atomic) Logical Function 2 |
| Impl. Function (or MBSE Technology Function) 2b |
| Impl. Function (or MBSE Technology Function) 3 | n/a  *#Hint: Some Technology Functions might not be derived from logical functions. This can occur in an MBSE context if the technology (=Technology) function is decomposed from another technology function* |
| Component 2 | Impl. Function (or MBSE Technology Function) 4 | (Atomic) Logical Function 3 |
| Impl. Function (or MBSE Technology Function) 5 | (Atomic) Logical Function 4 |
| Impl. Function (or MBSE Technology Function) 6 | (Atomic) Logical Function 5 |
| Standar Climate |  |
| Halo Lights |  |
| Vehicle |  |
| Dr Seat Massage |  |
| DSM (A5) |  |
| Doors |  |
| Seat Position |  |
| Digital Scent |  |
| Ambient Light (Y5) |  |
| Secondary Screen (Horizon) |  |
| Digital Scent Client |  |
| Store Pre-Rejuv Settings (R2) |  |
| Center Screen |  |
| OZM (A15) |  |
| Moonroof |  |
| APIM/SYNC/PHOENIX (A1) | Manage Content | *No logical function allocated* |
| Provide HMI | *No logical function allocated* |
| Run Orchestration Schedule | *No logical function allocated* |
| Store User Parameters | *No logical function allocated* |
| Store Prerejuv Settings | *No logical function allocated* |
| Process Theme Selections | *No logical function allocated* |
| Receive Current Settings | *No logical function allocated* |
| Request Rejuv Audio/Video | *No logical function allocated* |
| Request Rejuv Climate | *No logical function allocated* |
| Request Rejuv Lighting | *No logical function allocated* |
| Request Rejuv Scent | *No logical function allocated* |
| Request Door Locks | *No logical function allocated* |
| Request Rejuv Seat Position | *No logical function allocated* |
| Request Rejuv Moonroof Shading | *No logical function allocated* |
| Request Rejuv Seat Massage | *No logical function allocated* |
| Request Steering Column Movement | *No logical function allocated* |
| Send Rejuv Status | *No logical function allocated* |
| Check Pre/Abort Conditions | *No logical function allocated* |
|  |
| Seat Massage HMI (Y2) |  |
| Rejuv Seat Memory |  |
| Enclosure Service (SoA)(S4) |  |
| Seat Service (SoA) (S1) |  |
| OEM Server (A14) |  |
| Halo Light HMI |  |
| URC Logic |  |
| Sttering Wheel |  |
| Rejuvenate Content |  |
| Speakers |  |
| PSDS HMI |  |
| MSS Logic |  |
| Ambient Light HMI (Y6) |  |
| Seat Heat/Cool |  |
| PSM (A7) |  |
| (A12) |  |
| Cloud (A13) |  |
| BCM (A3) |  |
| TCU (A11) |  |
| RCCM (A4) | Store/Recall Prerejuv Climate Settings | *No logical function allocated* |
| Request Climate Operations | *No logical function allocated* |
|  |
| Manage/Update Content (R3) |  |
| Lighting Service (SoA)(S3) |  |
| Ambient Lights |  |
| AHU/Amplifier (A8) |  |
| Door Control Unit (A10) |  |
| MCSM (A6) |  |
| Video/Audio Control (Y1) |  |
| EM Registers |  |
| Personalization Service (SoA)(S2) |  |
| Control Climate (R4) |  |
| Ignition (Y3) |  |
| Park Status (Y4) |  |
| User (B1) |  |
| Stowable Steering Logic/HMI |  |
| ECG (A2) |  |
| Scent Module (A9) |  |
| Activate/Alter/Abort Experience (R1) |  |

Table 3‑7: Function Allocation Table (Basic)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Component | | Technology Function Name | TSR | |
| Name | ASIL |  | ID | ASIL |
| Component 1 |  | Impl. Function 1 | Req 1-1: “Some req name” |  |
|  |  |
| … |  |
|  |  |
| Req 1-n: “Another req name” |  |
| Impl. Function 2a | Req 2a-1 |  |
| … |  |
| Req 2a-n |  |
| Impl. Function 2b | Req 2b-1 |  |
| … |  |
| Req 2b-n |  |
| Impl. Function 6 | Req 6-1 |  |
| … |  |
| Req 6-n |  |
| n/a  *#Hint: TSRs may be directly allocated to components. This is necessary for requirements such as ASIL hardware metric values and safety measures that don’t relate to functions (ex. thermal shielding or something like a fan cover to prevent access to moving parts).* | Req x |  |
| Component 2 |  | Impl. Function 3 | Req 3-1 |  |
| … |  |
| Req 3-n |  |
| Impl. Function 4 | Req 4-1 |  |
| … |  |
|  |  |
| Req 4-n |  |
| Impl. Function 5 | Req 5-1 |  |
| … |  |
| Req 5-n |  |
| Standar Climate |  |  |  |
| Halo Lights |  |  |  |
| Vehicle |  |  |  |
| Dr Seat Massage |  |  |  |
| DSM (A5) |  |  |  |
| Doors |  |  |  |
| Seat Position |  |  |  |
| Digital Scent |  |  |  |
| Ambient Light (Y5) |  |  |  |
| Secondary Screen (Horizon) |  |  |  |
| Digital Scent Client |  |  |  |
| Store Pre-Rejuv Settings (R2) |  |  |  |
| Center Screen |  |  |  |
| OZM (A15) |  |  |  |
| Moonroof |  |  |  |
| APIM/SYNC/PHOENIX (A1) |  | Manage Content | *No requirements satisfied by tech. fx.* |  |
|  | Provide HMI | *No requirements satisfied by tech. fx.* |  |
|  | Run Orchestration Schedule | *No requirements satisfied by tech. fx.* |  |
|  | Store User Parameters | *No requirements satisfied by tech. fx.* |  |
|  | Store Prerejuv Settings | *No requirements satisfied by tech. fx.* |  |
|  | Process Theme Selections | *No requirements satisfied by tech. fx.* |  |
|  | Receive Current Settings | *No requirements satisfied by tech. fx.* |  |
|  | Request Rejuv Audio/Video | *No requirements satisfied by tech. fx.* |  |
|  | Request Rejuv Climate | *No requirements satisfied by tech. fx.* |  |
|  | Request Rejuv Lighting | *No requirements satisfied by tech. fx.* |  |
|  | Request Rejuv Scent | *No requirements satisfied by tech. fx.* |  |
|  | Request Door Locks | *No requirements satisfied by tech. fx.* |  |
|  | Request Rejuv Seat Position | *No requirements satisfied by tech. fx.* |  |
|  | Request Rejuv Moonroof Shading | *No requirements satisfied by tech. fx.* |  |
|  | Request Rejuv Seat Massage | *No requirements satisfied by tech. fx.* |  |
|  | Request Steering Column Movement | *No requirements satisfied by tech. fx.* |  |
|  | Send Rejuv Status | *No requirements satisfied by tech. fx.* |  |
|  | Check Pre/Abort Conditions | *No requirements satisfied by tech. fx.* |  |
|  |  |  |
| Seat Massage HMI (Y2) |  |  |  |
| Rejuv Seat Memory |  |  |  |
| Enclosure Service (SoA)(S4) |  |  |  |
| Seat Service (SoA) (S1) |  |  |  |
| OEM Server (A14) |  |  |  |
| Halo Light HMI |  |  |  |
| URC Logic |  |  |  |
| Sttering Wheel |  |  |  |
| Rejuvenate Content |  |  |  |
| Speakers |  |  |  |
| PSDS HMI |  |  |  |
| MSS Logic |  |  |  |
| Ambient Light HMI (Y6) |  |  |  |
| Seat Heat/Cool |  |  |  |
| PSM (A7) |  |  |  |
| (A12) |  |  |  |
| Cloud (A13) |  |  |  |
| BCM (A3) |  |  |  |
| TCU (A11) |  |  |  |
| RCCM (A4) |  | Store/Recall Prerejuv Climate Settings | *No requirements satisfied by tech. fx.* |  |
|  | Request Climate Operations | *No requirements satisfied by tech. fx.* |  |
|  |  |  |
| Manage/Update Content (R3) |  |  |  |
| Lighting Service (SoA)(S3) |  |  |  |
| Ambient Lights |  |  |  |
| AHU/Amplifier (A8) |  |  |  |
| Door Control Unit (A10) |  |  |  |
| MCSM (A6) |  |  |  |
| Video/Audio Control (Y1) |  |  |  |
| EM Registers |  |  |  |
| Personalization Service (SoA)(S2) |  |  |  |
| Control Climate (R4) |  |  |  |
| Ignition (Y3) |  |  |  |
| Park Status (Y4) |  |  |  |
| User (B1) |  |  |  |
| Stowable Steering Logic/HMI |  |  |  |
| ECG (A2) |  |  |  |
| Scent Module (A9) |  |  |  |
| Activate/Alter/Abort Experience (R1) |  |  |  |

Table 3‑8: Function Allocation Table (Functional Safety Extension)

# Feature Implementation Modeling

## Component Interaction Diagrams

### Scenario: “System Startup / Shutdown”

### Scenario: “Normal Operation”

No “Feature Scenario Diagram” found

See Section **Error! Reference source not found.** for State Machine Diagram illustrating operation.

## Component Interface Behavior Diagrams

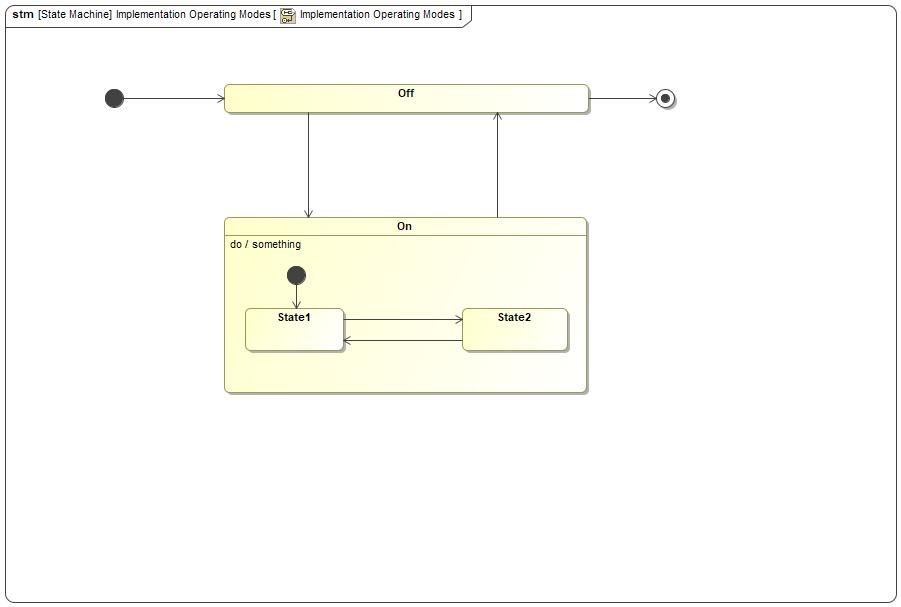


Figure 2: Implementation Operating Modes

|  |  |  |
| --- | --- | --- |
| **State** | **Description** | **Requirements Reference** (optional) |
| Off |  |  |
| On | Do behavior: something |  |
| State1 |  |  |
| State2 |  |  |

Table 9: Operation Modes and States on Implementation Operating Modes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Transition ID** | **Source** | **Destination** | **Description** | **Requirements Reference**  (optional) |
| T1 | State1 | State2 |  |  |
| T2 | State2 | State1 |  |  |
| T3 | Off | a |  |  |
| T4 | Off | On |  |  |
| T5 |  |  |  |  |
| T6 |  |  |  |  |
| T7 | On | Off |  |  |

Table 10: Transitions between Operation Modes and States on Implementation Operating Modes

# Feature Implementation Requirements

## Functional Safety

### ASIL Decomposition of Technical Safety Requirements

<Place the input TSR here above the decomposition table>

| **Input TSR** | <Provide the ID of the TSR which shall be decomposed. That TSR is given above> | |
| --- | --- | --- |
| **Decomposition Rationale** | <Give a reason why the decomposition was performed> | |
| **Method for Decomposition** | Choose a Method | |
| **TSR 1 after Decomposition** | **TSR ID** | <Provide the ID of the decomposed TSR> |
| **TSR Title** | <Provide the title of the decomposed TSR> |
| **ASIL** |  |
| **Rationale** | <Provide a reason and thought behind that particular requirement. Should include how the requirement is able to independently fulfill the needs of the parent requirement> |
| **Satisfied by** | <Provide an Technology Function, physical signal, or physical component satisfying the requirement. This element shall be independent of the element satisfied by the other half of the ASIL decomposition.> |
| **TSR 2 after Decomposition** | **TSR ID** | <Provide the ID of the decomposed TSR> |
| **TSR Title** | <Provide the title of the decomposed TSR> |
| **ASIL** |  |
| **Rationale** | <Provide a reason and thought behind that particular requirement. Should include how the requirement is able to independently fulfill the needs of the parent requirement> |
| **Satisfied by** | <Provide an Technology Function, physical signal, or physical component satisfying the requirement. This element shall be independent of the element satisfied by the other half of the ASIL decomposition.> |
| **TSR for Independence**  *Note: should consider commonly used input, output and processing*  *Note: additional row should be added if additional* *requirements for Independence are necessary* | **TSR ID** |  |
| **TSR Title** |  |
| **ASIL** |  |
| **Rationale** |  |

Table 5‑1: ASIL Decomposition Table

## Requirements on Components

### RCCM (A4)

RCCM (A4)

#### Technology Function -14790951.jpg **Store/Recall Prerejuv Climate Settings**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Climate Request | Climate Request | | | Activate/Deactivate/Recall |  |  |
| Review in model  Current EM Regs Settings | Current EM Regs Settings | | | EM Registers Settings |  |  |
| Review in model  Current Climate Settings | Current Climate Settings | | | Climate Settings |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Store/Recall Prerejuv Climate Settings

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Prerejuv Climate Settings | Prerejuv Climate Settings | | | Climate Settings |  |  |
| Review in model  Prerejuv EM Regs Settings | Prerejuv EM Regs Settings | | | EM Registers Settings |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Store/Recall Prerejuv Climate Settings

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑4: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑5: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑6: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -14790951.jpg **Request Climate Operations**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  dTi | dTi | | | dTi |  |  |
| Review in model  Climate Request | Climate Request | | | Activate/Deactivate/Recall |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | |  |  |  |
| Review in model  Seat Heat ON/OFF | Seat Heat ON/OFF | | | On/Off |  |  |
| Review in model  Seat Cool ON/OFF | Seat Cool ON/OFF | | | On/Off |  |  |
| Review in model  Scent ON/OFF | Scent ON/OFF | | | On/Off |  |  |
| Review in model  Climate Overrides | Climate Overrides | | | Climate Overrides |  |  |
| Review in model  Prerejuv Climate Settings | Prerejuv Climate Settings | | | Climate Settings |  |  |
| Review in model  Prerejuv EM Regs Settings | Prerejuv EM Regs Settings | | | EM Registers Settings |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑7: Input Signal mappings of Function Request Climate Operations

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Seat Climate Mode/Intensity | Seat Climate Mode/Intensity | | | Seat Climate |  |  |
| Review in model  EM Regs Mode | EM Regs Mode | | | EM Registers Settings |  |  |
| Review in model  Climate Internal Systems Control | Climate Internal Systems Control | | | Climate Settings |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑8: Output Signal mappings of Function Request Climate Operations

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑9: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑10: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑11: Inherited Requirements

###### Component Specific Requirements

### APIM/SYNC/PHOENIX (A1)

APIM/SYNC/PHOENIX (A1)

#### Technology Function -1970157534.jpg **Manage Content**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  OEM Content | OEM Content | | | OEM Content |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑12: Input Signal mappings of Function Manage Content

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Theme Data | Theme Data | | | Theme Data |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑13: Output Signal mappings of Function Manage Content

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑14: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑15: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑16: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1970157534.jpg **Provide HMI**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Theme Data | Theme Data | | | Theme Data |  |  |
| Review in model  Last Used Params | Last Used Params | | | Rejuvenate Settings |  |  |
| Review in model  Personalized Settings | Personalized Settings | | | Rejuvenate Settings |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑17: Input Signal mappings of Function Provide HMI

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  User Abort | User Abort | | | Simple Yes/No |  |  |
| Review in model  Experience Parameters | Experience Parameters | | | Rejuvenate Settings |  |  |
| Review in model  Begin Experience | Begin Experience | | | Activate/Deactivate/Recall |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑18: Output Signal mappings of Function Provide HMI

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑19: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑20: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑21: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1970157534.jpg **Run Orchestration Schedule**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Condition Check | Condition Check | | | OK/not OK |  |  |
| Review in model  Time Selection | Time Selection | | | Time Selection |  |  |
| Review in model  Massage ON/OFF | Massage ON/OFF | | | On/Off |  |  |
| Review in model  Scent ON/OFF | Scent ON/OFF | | | On/Off |  |  |
| Review in model  Theme Selection | Theme Selection | | | Theme Selection |  |  |
| Review in model  User Abort | User Abort | | | Simple Yes/No |  |  |
| Review in model  Begin Experience | Begin Experience | | | Activate/Deactivate/Recall |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑22: Input Signal mappings of Function Run Orchestration Schedule

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| Review in model  Store Settings Trigger | Store Settings Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Receive Current Settings Trigger | Receive Current Settings Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Control Video Trigger | Control Video Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Control Audio Trigger | Control Audio Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Control Climate Trigger | Control Climate Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Ambient Lighting Trigger | Ambient Lighting Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Halo Lighting Trigger | Halo Lighting Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Scent Trigger | Scent Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Seat Position Trigger | Seat Position Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Moonroof Control Trigger | Moonroof Control Trigger | | | Moonroof Control |  |  |
| Review in model  Seat Massage Trigger | Seat Massage Trigger | | | Massage |  |  |
| Review in model  Steering Column Trigger | Steering Column Trigger | | | Steering Command |  |  |
| Review in model  Send Arbitration Msg Trigger | Send Arbitration Msg Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Door Lock Trigger | Door Lock Trigger | | | Activate/Deactivate/Recall |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑23: Output Signal mappings of Function Run Orchestration Schedule

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑24: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑25: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑26: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1970157534.jpg **Store User Parameters**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Experience Parameters | Experience Parameters | | | Rejuvenate Settings |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑27: Input Signal mappings of Function Store User Parameters

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Last Used Params | Last Used Params | | | Rejuvenate Settings |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑28: Output Signal mappings of Function Store User Parameters

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑29: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑30: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑31: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1970157534.jpg **Store Prerejuv Settings**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Store Settings Trigger | Store Settings Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Current Moonroof Status | Current Moonroof Status | | | Moonroof Control |  |  |
| Review in model  Current Halo Light Settings | Current Halo Light Settings | | | Halo Light Control |  |  |
| Review in model  Current Ambient Light Settings | Current Ambient Light Settings | | | Ambient Light Control |  |  |
| Review in model  Current Audio Settings | Current Audio Settings | | | Audio Settings |  |  |
| Review in model  Current Seat Position | Current Seat Position | | | Seat Position |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑32: Input Signal mappings of Function Store Prerejuv Settings

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Stored Moonroof Status | Stored Moonroof Status | | | Moonroof Control |  |  |
| Review in model  Stored Halo Light Settings | Stored Halo Light Settings | | | Halo Light Control |  |  |
| Review in model  Stored Ambient Light Settings | Stored Ambient Light Settings | | | Ambient Light Control |  |  |
| Review in model  Stored Audio Settings | Stored Audio Settings | | | Audio Settings |  |  |
| Review in model  Stored Seat Position | Stored Seat Position | | | Seat Position |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑33: Output Signal mappings of Function Store Prerejuv Settings

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑34: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑35: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑36: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1970157534.jpg **Process Theme Selections**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Experience Parameters | Experience Parameters | | | Rejuvenate Settings |  |  |
| Review in model  Theme Data | Theme Data | | | Theme Data |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑37: Input Signal mappings of Function Process Theme Selections

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Time Selection | Time Selection | | | Time Selection |  |  |
| Review in model  Theme Selection | Theme Selection | | | Theme Selection |  |  |
| Review in model  Theme Associated Light Color | Theme Associated Light Color | | | Ambient Light Control |  |  |
| Review in model  Theme Associated Scent | Theme Associated Scent | | | Scent |  |  |
| Review in model  Theme Associated Video | Theme Associated Video | | | Media |  |  |
| Review in model  Theme Associated Audio | Theme Associated Audio | | | Media |  |  |
| Review in model  Scent ON/OFF | Scent ON/OFF | | | On/Off |  |  |
| Review in model  Seat Heat ON/OFF | Seat Heat ON/OFF | | | On/Off |  |  |
| Review in model  Seat Cool ON/OFF | Seat Cool ON/OFF | | | On/Off |  |  |
| Review in model  Massage ON/OFF | Massage ON/OFF | | | On/Off |  |  |
| Review in model  Theme Associated Seat Positions | Theme Associated Seat Positions | | | Seat Position |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑38: Output Signal mappings of Function Process Theme Selections

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑39: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑40: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑41: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 990492591.jpg **Receive Current Settings**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Current Audio Settings | Current Audio Settings | | | Audio Settings |  |  |
| Review in model  Current Ambient Light Settings | Current Ambient Light Settings | | | Ambient Light Control |  |  |
| Review in model  Current Halo Light Settings | Current Halo Light Settings | | | Halo Light Control |  |  |
| Review in model  Current Moonroof Status | Current Moonroof Status | | | Moonroof Control |  |  |
| Review in model  Current Seat Position | Current Seat Position | | | Seat Position |  |  |
| Review in model  Receive Current Settings Trigger | Receive Current Settings Trigger | | | Activate/Deactivate/Recall |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑42: Input Signal mappings of Function Receive Current Settings

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Current Ambient Light Settings | Current Ambient Light Settings | | | Ambient Light Control |  |  |
| Review in model  Current Halo Light Settings | Current Halo Light Settings | | | Halo Light Control |  |  |
| Review in model  Current Audio Settings | Current Audio Settings | | | Audio Settings |  |  |
| Review in model  Current Moonroof Status | Current Moonroof Status | | | Moonroof Control |  |  |
| Review in model  Current Seat Position | Current Seat Position | | | Seat Position |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑43: Output Signal mappings of Function Receive Current Settings

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑44: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑45: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑46: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 990492591.jpg **Request Rejuv Audio/Video**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Control Audio Trigger | Control Audio Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Theme Associated Audio | Theme Associated Audio | | | Media |  |  |
| Review in model  Stored Audio Settings | Stored Audio Settings | | | Audio Settings |  |  |
| Review in model  Theme Associated Video | Theme Associated Video | | | Media |  |  |
| Review in model  Control Video Trigger | Control Video Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑47: Input Signal mappings of Function Request Rejuv Audio/Video

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Audio | Audio | | | Audio Control |  |  |
| Review in model  Visuals | Visuals | | | Video Control |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑48: Output Signal mappings of Function Request Rejuv Audio/Video

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑49: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑50: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑51: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 990492591.jpg **Request Rejuv Climate**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Seat Heat ON/OFF | Seat Heat ON/OFF | | | On/Off |  |  |
| Review in model  Seat Cool ON/OFF | Seat Cool ON/OFF | | | On/Off |  |  |
| Review in model  Control Climate Trigger | Control Climate Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| Review in model  Scent ON/OFF | Scent ON/OFF | | | On/Off |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑52: Input Signal mappings of Function Request Rejuv Climate

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Climate Request | Climate Request | | | Activate/Deactivate/Recall |  |  |
| Review in model  Seat Heat ON/OFF | Seat Heat ON/OFF | | | On/Off |  |  |
| Review in model  Seat Cool ON/OFF | Seat Cool ON/OFF | | | On/Off |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| Review in model  Scent ON/OFF | Scent ON/OFF | | | On/Off |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑53: Output Signal mappings of Function Request Rejuv Climate

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑54: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑55: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑56: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 990492591.jpg **Request Rejuv Lighting**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Ambient Lighting Trigger | Ambient Lighting Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Theme Associated Light Color | Theme Associated Light Color | | | Ambient Light Control |  |  |
| Review in model  Stored Halo Light Settings | Stored Halo Light Settings | | | Halo Light Control |  |  |
| Review in model  Stored Ambient Light Settings | Stored Ambient Light Settings | | | Ambient Light Control |  |  |
| Review in model  Halo Lighting Trigger | Halo Lighting Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑57: Input Signal mappings of Function Request Rejuv Lighting

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Halo Light Color/Intensity | Halo Light Color/Intensity | | | Halo Light Control |  |  |
| Review in model  Ambient Light Color/Intensity | Ambient Light Color/Intensity | | | Ambient Light Control |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑58: Output Signal mappings of Function Request Rejuv Lighting

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑59: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑60: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑61: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 990492591.jpg **Request Rejuv Scent**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Scent Trigger | Scent Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Theme Associated Scent | Theme Associated Scent | | | Scent |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑62: Input Signal mappings of Function Request Rejuv Scent

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Scent Operation Request | Scent Operation Request | | | Scent Operation |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑63: Output Signal mappings of Function Request Rejuv Scent

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑64: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑65: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑66: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -988297171.jpg **Request Door Locks**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Door Lock Trigger | Door Lock Trigger | | | Activate/Deactivate/Recall |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑67: Input Signal mappings of Function Request Door Locks

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Lock Doors | Lock Doors | | | Lock Doors |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑68: Output Signal mappings of Function Request Door Locks

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑69: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑70: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑71: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -988297171.jpg **Request Rejuv Seat Position**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Seat Position Trigger | Seat Position Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Stored Seat Position | Stored Seat Position | | | Seat Position |  |  |
| Review in model |  | | | Seat Position |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑72: Input Signal mappings of Function Request Rejuv Seat Position

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Seat Position Settings | Seat Position Settings | | | Seat Position |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑73: Output Signal mappings of Function Request Rejuv Seat Position

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑74: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑75: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑76: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -988297171.jpg **Request Rejuv Moonroof Shading**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Moonroof Control Trigger | Moonroof Control Trigger | | |  |  |  |
| Review in model  Stored Moonroof Status | Stored Moonroof Status | | | Moonroof Control |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑77: Input Signal mappings of Function Request Rejuv Moonroof Shading

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Shade Moonroof | Shade Moonroof | | | Moonroof Control |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑78: Output Signal mappings of Function Request Rejuv Moonroof Shading

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑79: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑80: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑81: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -988297171.jpg **Request Rejuv Seat Massage**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Seat Massage Trigger | Seat Massage Trigger | | | Massage |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑82: Input Signal mappings of Function Request Rejuv Seat Massage

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Massage Pattern/Intensity | Massage Pattern/Intensity | | | Massage |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑83: Output Signal mappings of Function Request Rejuv Seat Massage

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑84: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑85: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑86: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -988297171.jpg **Request Steering Column Movement**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Steering Column Trigger | Steering Column Trigger | | | Steering Command |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑87: Input Signal mappings of Function Request Steering Column Movement

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Steering Command | Steering Command | | | Steering Command |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑88: Output Signal mappings of Function Request Steering Column Movement

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑89: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑90: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑91: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -988297171.jpg **Send Rejuv Status**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Send Arbitration Msg Trigger | Send Arbitration Msg Trigger | | | Activate/Deactivate/Recall |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| Review in model  Theme Selection | Theme Selection | | | Theme Selection |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑92: Input Signal mappings of Function Send Rejuv Status

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Rejuvenate Active | Rejuvenate Active | | | Simple Yes/No |  |  |
| Review in model  Rejuv Phase | Rejuv Phase | | | Phase |  |  |
| Review in model  Theme Selection | Theme Selection | | | Theme Selection |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑93: Output Signal mappings of Function Send Rejuv Status

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑94: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑95: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑96: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -988297171.jpg **Check Pre/Abort Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Door Status | Door Status | | | Door status |  |  |
| Review in model  PRNDL Status | PRNDL Status | | | Gear shifter status |  |  |
| Review in model  Ignition Status | Ignition Status | | | Ignition status |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑97: Input Signal mappings of Function Check Pre/Abort Conditions

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Abort Trigger | Abort Trigger | | | OK/not OK |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0c | End of Requirement | | | |

Table 5‑98: Output Signal mappings of Function Check Pre/Abort Conditions

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “***Error! Reference source not found.***” name bookmark in the Data Dictionary | Name should be a Word reference to the “**Error! Reference source not found.**” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the ***Error! Reference source not found.***section | Choose an item. | Depends on Method selection. For Method 2 a DID including start bit and length could be given. For Central Car Config a signal could be referenced |
|  |  |  |  |  |

Table 5‑99: Parameter mappings of Function “MyLogicalFunctionA\_Component1”

###### Interface Requirements

##### Function Requirements

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Modification** | **Requirement ID**  (of Technology Function) | **Comment** |
| REQ\_abc |  | Removed | -- |  |
| REQ\_def |  | Replaced | REQ\_xyz |  |
| -- |  | Added | REQ\_123 |  |

Table 5‑100: Component Specific Requirements

|  |  |  |
| --- | --- | --- |
| **Requirement ID**  (of Logical Function) | **Requirement Title** | **Comment** |
|  |  |  |
|  |  |  |
| … |  |  |

Table 5‑101: Inherited Requirements

###### Component Specific Requirements

### DSM (A5)

DSM (A5)

### ECG (A2)

ECG (A2)

## Requirements on Connections

### Networks

#### “CAN Bus xxx”

##### Protocol Requirements

##### Electrical Requirements

#### “LIN Bus xxx”

##### Protocol Requirements

###### Schedule Table

##### Electrical Requirements

#### “Ethernet xxx”

### HW I/Os

#### “HW I/O xxx”

## Requirements on Development Process

# Open Concerns

| ID | Concern Description | e-Tracker Reference | Status | Solution |
| --- | --- | --- | --- | --- |
| 1 | FIS output template not mature, not accurately pulling info from the model |  | Open | Need model and template maturity |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Table 6‑1: Open Concerns

# Revision History

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Revision | Date | Description | Approved by | Responsible |
| 0 | 2021-03-05 | Initial version – output template is not mature yet, advisable to ignore this version of the document. |  | harkle1 |
|  |  |  |  |  |

## Template Revisions

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version | Rev. | Date | Description | Responsible |
| 0 | 2 | 2015-08-05 | * TOC corrected * Document Properties adapted to match needs of VBA macros | Awegman1 |
| 1 | 0 | 2015-11-16 | * Revision History moved to chapter 7 * Table-Styles removed | Awegman1 |
| 1 | 1 | 2016-03-02 | * Rework according to PCL example | Jbaden1 |
| 1 | 2 | 2016-03-22 | * V1.3: Footer formating corrected (Issue 19) * “Constraints” chapter renamed to “Input Requirements” (Issue 20) | Jbaden1 |
| 1 | 3 | 2016-04-20 | * Broken Wiki links repaired | Jbaden1 |
| 2 | 0 | 2016-05-23 | * Prepared for Specification\_Macros.dotm v2.0 * Additional explanations added to ch. 2.2 “Input Requirements” (ARL and SDS requirements often go here) | Jbaden1 |
| 2 | 1 | 2016-07-08 | * Template version added to footer | Jbaden1 |
| 2 | 2 | 2016-07-15 | * Sample SysML diagrams added * Data Dictionary reworked * Alignment with relevant sections in SRD templated | Jbaden1 |
| 3 | 0 | 2016-09-05 | * Lessons learned from IPRB incorporated | Jbaden1 |
| 4 | 0 | 2016-09-27 | * Alignment with QPIP Feature Function Ownership workstream. Platform Spec renamed to Feature Implementation Spec | Jbaden1 |
| 4 | 1 | 2016-11-04 | * Chapters “Purpose” and “Scope” reworked. | Jbaden1 |
| 4 | 1 | 2016-11-10 | * Subsection for “Logical Service Interfaces” added. | Jbaden1 |
| 5 | 0 | 2017-01-13 | * Meta data updated for specification macros, version 3.1 * SW Unit chapter removed for the time being * Green boxes added for user hints | Jbaden1 |
| 5 | 1 | 2017-01-18 | * Minor editorial changes (e.g. hyperlinks highlighted in comments) | Jbaden1 |
| 5 | 1b | 2017-01-20 | * Some editorial corrections * Substructure of old Network Communication (now Connections) moved to Requirements on Connections | Jbaden1 |
| 6 | 0 | 2018-07-24 | * CR53: * Add new cover sheet * Add disclaimer section * Add the following meta-data to the doc properties for the the new cover sheet   + DocGis1ItemNumber   + DocGis2Classification   + DocType   + DocStatus   + DocIssueDate   + DocReleaseDate * CR63: Update FuSa sharepoint references in templates | Jbaden1 |
| 6 | 0 | 2018-08-06 | * CR81: Incorporate lessons learned from System Service Spec pilot (Vehicle Speed) into AFS and FIS | Jbaden1 |
| 6 | 0 | 2018-09-28 | * Broken links to RE Wiki repaired | Jbaden1 |
| 6 | 0 | 2018-10-31 | * Minor corrections on cover sheet and in footer to be more GIS compliant and VSEM aligned * “Overview” and “Description” exchanged in headings (following common sense) | Jbaden1 |
| 6 | 0 | 2018-11-30 | * Update of Functional Safety sections after review by Functional Safety Team * Initial support for variant handling | Jbaden1 |
| 6 | 0 | 2018-12-01 | * Variant condition fields added consistently * Links updated | Jbaden1 |
| 6 | 0 | 2018-12-11 | * Variant condition fields removed from mapping/allocation tables * Mapping tables simplified * Explanatory text for “Variants” sections revised | Jbaden1 |
| 6 | 0a | 2019-01-04 | * Chapter heading “Inherited Function Requirements” removed. Corresponding table renamed to “Requirements not cascaded”. * E/E Connection table got another column for allocated messages * Naming conventions for Implemented Functions corrected (FncName\_CmpName instead of FncName\_on\_CmpName) * Editorial corrections on the cover sheet * Explanatory text added to “Ethernet” section in chapter “Requirements on Connections” * AIS templates updated. Linked to Wiki page | Jbaden1 |
| 6 | 0a | 2019-01-04 | * Minor restructuring in FuSa chapter – after aligning with ECU Functional Spec * Bugfix: table 13 renamed from FTTI table to FHT table, includes a bug fix: each FSR is allocated to only one ECU/component | Jbaden1 |
| 6 | 0b | 2019-02-04 | * Change: Chapter “Interface Requirements” added to “Implemented Function xxx” section (to have a single chapter for to collect subscriber/publisher interface and mapping requirements which to not conform to the corresponding Data Dictionary objects) * Change: “CAN Interface” subsection renamed to “AIS Interfaces” again. Although several Subscriber/Publisher interface attributes are probably CAN bus specific, other attributes seem to be well suited for other networks than CAN. * Change: Chapter “ECU Specific Requirements” renamed to “Component Specific Requirements” in chapter “Implemented Function xxx”. Table “Requirements not cascaded” renamed to “Component Specific Requirements” and refined to describe changes from Logical Function requirements set more formally. This is also to help during VSEM import to identify those requirements of the Logical Function which cannot be simply carried over to the ECU. * Change: Explanatory text in section “Implemented Function xxx” improved. | Jbaden1 |
| 6 | 0c | 2019-02-05 | * Change: Layout of AIS Interfaces in Data Dictionary reworked to enable Excel Import | Jbaden1 |
| 6 | 0c | 2019-02-20 | * Bugfix: In AIS Interfaces none-picklist fields formatted as invisible | Jbaden1 |
| 6 | 1a | 2019-02-05 | Functional Safety related changes:   * Table “Architectural Redundancy Summary” updated * Section “Functional Flows for FTTI ‘xyz’” added to chapter “Component Interaction Diagrams” * Fault Tolerant Time Summary section added to Functional Safety chapter * Chapter “HW Metrics” added | Jbaden1 |
| 6 | 1a | 2019-04-02 | Headings of “Architectural Redundancy Summary” table clarified | Jbaden1 |
| 6 | 1a | 2019-04-10 | * ASIL Decomposition table moved from Function Spec into the Feature Implementation Spec (ASIL Decomposition of Technical Safety Requirements) * 2 alternative versions of the Function Allocation Table (Standard variant vs. Functional Safety variant) placed next to each other. | Jbaden1 |
| 6 | 1a | 2019-05-31 | * Function Allocation Table split into a base (non FuSa) part and a FuSa part to allow a more flexible mapping of MBSE functions (Logical and Technology) to RE functions (Atomic Logical and Implemented). | Jbaden1 |
| 6 | 1a | 2019-05-31 | * “Input Requirement” section reworked (symmetrically to all other templates). * Sections “Functional Flows for FTTI xyz” and “Fault Tolerant Time Summary” removed, because guidance is not available yet. * “Reference” and “Glossary” section moved back to introduction, i.e., to the very beginning of the document (such that also section 2 can already rely on it). * Some mostly editorial changes per request from FuSa team. | Jbaden1 |
| 6 | 1a | 2019-07-02 | * "Important" box added on cover sheet which points to the macros * “Input Requirements” section renamed to Input Information (after discussion with FuSa team) | Jbaden1 |
| 6 | 1a | 2019-07-17 | * Chapter “Message List” removed from CAN and LIN specific chapters of section “Requirements on Connections” | Jbaden1 |
| 6 | 1a | 2019-10-08 | * Chapter “ASIL Decomposition of Technical Safety Requirements”: Input TSRs are specified in the chapter right above the decomposition table. | Jbaden1 |
| 6 | 1a | 2019-10-09 | * Chapter “Service Oriented Communication” moved to section “Messages” in the Data Dictionary. Details from Central SW Wiki about FNV2 SOA added | Jbaden1 |
| 6 | 1a | 2019-10-25 | * Minor updates for HW IOs/Signals * Subsection “Functional Safety” removed from chapter “Feature Implementation Modeling”. Per requrest from FuSa team since no guidance is available how to model e.g. FHT timing diagram. | Jbaden1 |
| 6 | 1a | 2019-05-11 | * Copyright notice shortened and moved to cover sheet and added to footer (to be compliant [with Ford copyright guidelines](http://www.fgti.ford.com/client/NewFGTI/CopyrightNotice.html)) * Term “Disclaimer” no longer used for what is actually only a copyright notice | Jbaden1 |
| 6 | 1a | 2019-22-11 | * Some minor modifications for the SOA APIs/MQTT Messages in the section “Messages” of the Data Dictionary (section references Service Contracts via the API name) * Some minor updates of the Input/Output mapping tables in section “Requirements on Components” for mappings to SOA APIs and EDAS signals. | Jbaden1 |
| 6 | 1a | 2019-12-05 | * Upstream Documents section added to “Input Requirements/Documents” table * Custom style table formatting removed | Jbaden1 |
| 6 | 1a | 2020-01-07 | * Some fine tuning for naming conventions of E/E components and connections. * List of HW I/O signal types reduced to RF-A, RF-D, D, A, Networked and PWM. * Protocol column added to the E/E connection table | Jbaden1 |
| 6 | 1a | 2020-01-07 | * “HW Metric” and “Architecture Redundancy Summary” sections removed per request from the Functional Architecture Team (based on Governance Board decision [FSTGB-97](mailto:TrackLite%20%23%20FSTGB-97:%20https://www.tracklite.ford.com/prweb/PRAuth/TrackLiteSSO?pyActivity=@baseclass.RedirectAndRunWraper&ThreadName=WorkLinkThread&bPurgeTargetThread=true&AccessGroupName=FSTGB:ProjectAdministrators&Location=pyActivity%3DWork-.Open%26Action%3DReview%26HarnessPurpose%3DReview%26InsHandle%3DFORD-FSTGB-WORK+FSTGB-97)) * “Functional Safety” chapter moved to “Feature Implementation Requirements” section. “Function Allocation” chapter seemed no longer appropriate. | Jbaden1 |
| 6 | 1a | 2020-01-07 | * Ordering of fields in AIS interfaces tables modified to conform with the Macro Template and the Importer Sheet * Page Header: no longer in bold letters | Jbaden1 |
| 6 | 1a | 2020-03-09 | * Missing doc property “LatestSigMappingID” and “LatestAisInterfaceID” added * doc property “CopyrightDate” re-formatted to text and copyright date field in footer corrected * Version numbering re-initialized as 0.1 * Init value of version/revision date set to “yyyy/mm/dd” instead of “yyyy-mm-dd” to be in line with the “Edit Document Property” dialog * Type of “Latest….ID” doc properties changed from Text to Number | Jbaden1 |
| 6 | 1a | 2020-03-11 | * “Mapping” table removed from template. Has been migrated to macro. | Jbaden1 |
| 6 | 1a | 2020-03-13 | * Separate chapter “Technical Safety Requirements” removed. Content already covered by Allocation Table in chapter Function Allocation. * “Implemented Function” replaced by term “Technology Function” | Jbaden1 |

# Appendix

## Data Dictionary

### Logical Signals

|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |

### Logical Parameters

### Technical Signals

|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |

#### GSDB Signals

#### HW I/Os

#### Diagnostic Interfaces

##### DTCs

<Some Description of the DTC.

Refer to VSEM document “[Diagnostic Fault Coverage and DTC Numbers](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=yAUtrNhnx3NrTDAAAAAAAAAAAAA&servername=Production_Server)

[Design Consideration](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=yAUtrNhnx3NrTDAAAAAAAAAAAAA&servername=Production_Server)”, what to fill into the attributes below>

|  |  |
| --- | --- |
| **Test Period Time** |  |
| **Test Run Criteria,** |  |
| **Enable Criteria (EC)** |  |
| **Applicable** |  |
| **FailureTypeBytes** |  |
| **Test Period Time** |  |
| **Test Run Criteria,** |  |

##### DIDs

### Technical Parameters

### Mappings

### Technical Interfaces

#### AIS Interfaces

##### Publisher Interfaces

##### Subscriber Interfaces

#### AUTOSAR Ports

### Messages/APIs

#### CAN Bus “<Bus Name>”

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CAN ID** | **Transmission Mode** | **Period** | **Signal Names** | **Transmitter(s)** | **Receiver(s)** |
|  |  |  |  |  |  |
|  |
|  |
|  |

#### LIN Bus “<Bus Name>”

#### AUTOSAR Interfaces

#### SOA Service Contracts

<Service contract purpose/behavior>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Messaging Pattern | Frequency  (For Data Broadcast Only) | Message Data Element(s)  (Must Match GPB) or applicable CAN signal | Description of Data Element(s) | Topic Name |
| Choose an item. |  | GBP Data element / CAN Signal name 1 | Detailed encoding of data element 1 |  |
| … |  |  |
| GBP Data element / CAN Signal name 1 | Detailed encoding of data element 3 |  |

### Encoding Types

Document ends here.