Driver Focused Mode

<<Feature>>

(F001212)

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|  |  |  |  |
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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):

*No Electrical Architecture found.*

| **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 <Put VSEM Link here>.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **CDSID** | **Contact Info** | **Role** | **Stakeholder Group** |
| Erika Moktezuma |  |  | Modeling Team Member | Systems Engineer |
| Daniel Garcia |  |  | Modeling Team Member | Systems Engineer |
| Halim Wijaya |  |  | Modeling Team Member | Systems Engineer |
| Mohamed Baghdadi |  |  | Model Architect | Systems Engineer |
| Mitali Chakrabarti |  |  | Modeling Team Member | Project Lead |

## 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.

| **Reference** | **Title** | **Doc. ID** | **Revision** | **Document Location** |
| --- | --- | --- | --- | --- |
| Ford GIS Standard | Ford GIS Standard |  |  |  |

Table 1‑2: Ford internal Documents

### External Documents and Publications

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

| **Reference** | **Document / Publication** |
| --- | --- |
| IEEE Std 1012-2004 IEEE Standard for Software Verification and Validation |  |
| ISO/IEC 19500-2:2003 |  |
| UML Testing Profile (UTP), v1.2 |  |
| Wikipedia |  |

Table 1‑3: External documents and publications

## Glossary

### Definitions

*No glossary items found.*

### Abbreviations

| **Abbr.** | **Stands for** | **Description** |
| --- | --- | --- |
| APIM | Accessory Protocol Interface Module (SYNC) SYNC processor, separate from the head unit (Audio control Module) |  |
| CAN | Controller Area Network |  |
| DFM | Driver Focused Mode; An approach to direct airflow to the driver by shutting off front passenger side duct in the HVAC system on the vehicle. |  |
| EATC | Electronic Automatic Temperature Control |  |
| ECG | Enhanced Communication Gateway |  |
| EVAP | Evaporative Emission |  |
| FCIM | Front Control Interface Module |  |
| HVAC | Heating, Ventilation, and Air Conditioning |  |
| OAT | Outside Ambient Temperature |  |
| PCM | Powertrain Control Module |  |
| PEPC | Programmable Electrical Pre-Conditioning |  |
| RCCM | Remote Climate Control Module |  |
| RCM | Restraint Control Module |  |

Table 1‑5: Abbreviations used in this document.

# Feature Implementation Overview

## Description

F001212 Driver Focused Mode

Driver Focused Mode (DFM) is a feature that can be activated via customer input or the system automatically if the front passenger seat is unoccupied and minimize air flow to a front passenger seat. This is an approach to direct airflow to the driver by shutting off ducts, registers, and auxiliary units of the front passenger sides of the vehicle when it is unoccupied.

## 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** | | | |
|  | Compliance with FMVSS101 | The DFM feature shall comply with FMVSS101. |  |
|  |  |  |  |
| **Industry Standards** | | | |
|  | ISO 26262 | The system should be developed according to Ford's implementation of Functional Safety. |  |
|  |  |  |  |
| **Other Sources** | | | |
|  | HVAC Air Distribution | The DFM feature shall comply with the Climate HVAC Airflow Distribution, CC-0016 |  |
|  | Electronic Control Panel | The DFM feature shall comply with the Electronic Control Panel Functional Specification, FSFR3T-18C612-AG |  |
|  | CCM & ECP | The DFM feature shall comply with the Global Electrical Design Specification for Climate Control Modules and Electronic Control Panel, DSGB5T-18C612-B |  |
|  |  |  |  |
|  | User Experience - NVH | Optimized cooling/heating shall maintain a comfortable noise level for 80% of the users. |  |
|  | Energy Consumption | The cooling/heating functionality shall be provided only to the occupants present in the vehicle. |  |
|  | User Experience - Cabin Comfort | The vehicle shall provide the occupants a consistent comfort level in cabin during a drive cycle, whether the optimized cooling/heating functionality is active or not. |  |
|  |  |  |  |

Table 6: Input Requirements/Documents

## Lessons Learned

No lessons learned specified.

## Assumptions

No Assumptions specified.

# Feature Implementation Architecture

## Functional Architecture

### Description



Figure 3‑1: 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** |
| <Add VSEM ID> |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Table 3‑1: List of Functions

### Signal List

|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |
| **BlowerCmd** | Logical signal of the command DFM sends to the blower control for air flow adjustment | Satisfies:  *No reqs. satisfied* |
| **UserInputs** |  | Satisfies:  *No reqs. satisfied* |
| **AmbTemp** | Logical signal of environment temperature (in °F) as input for DFM to determine whether or not to activate | Satisfies:  *No reqs. satisfied* |
| **FrntPsngrOccupancyStatus** |  | Satisfies:  *No reqs. satisfied* |
| **VehStatus** |  | Satisfies:  *No reqs. satisfied* |
| **DFMFeedback** | Logical signal of the command DFM sends HMI system to notify users about DFM status | Satisfies:  *No reqs. satisfied* |
| **VentCmd** | Logical signal of the command DFM sends to the DFM shutoff vent door controller to adjust air flow | Satisfies:  *No reqs. satisfied* |

## Physical Architecture

### E/E Architecture

#### E/E Architecture Variants

*No E/E Architecture Variant found.*

|  |  |  |
| --- | --- | --- |
| 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 2

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

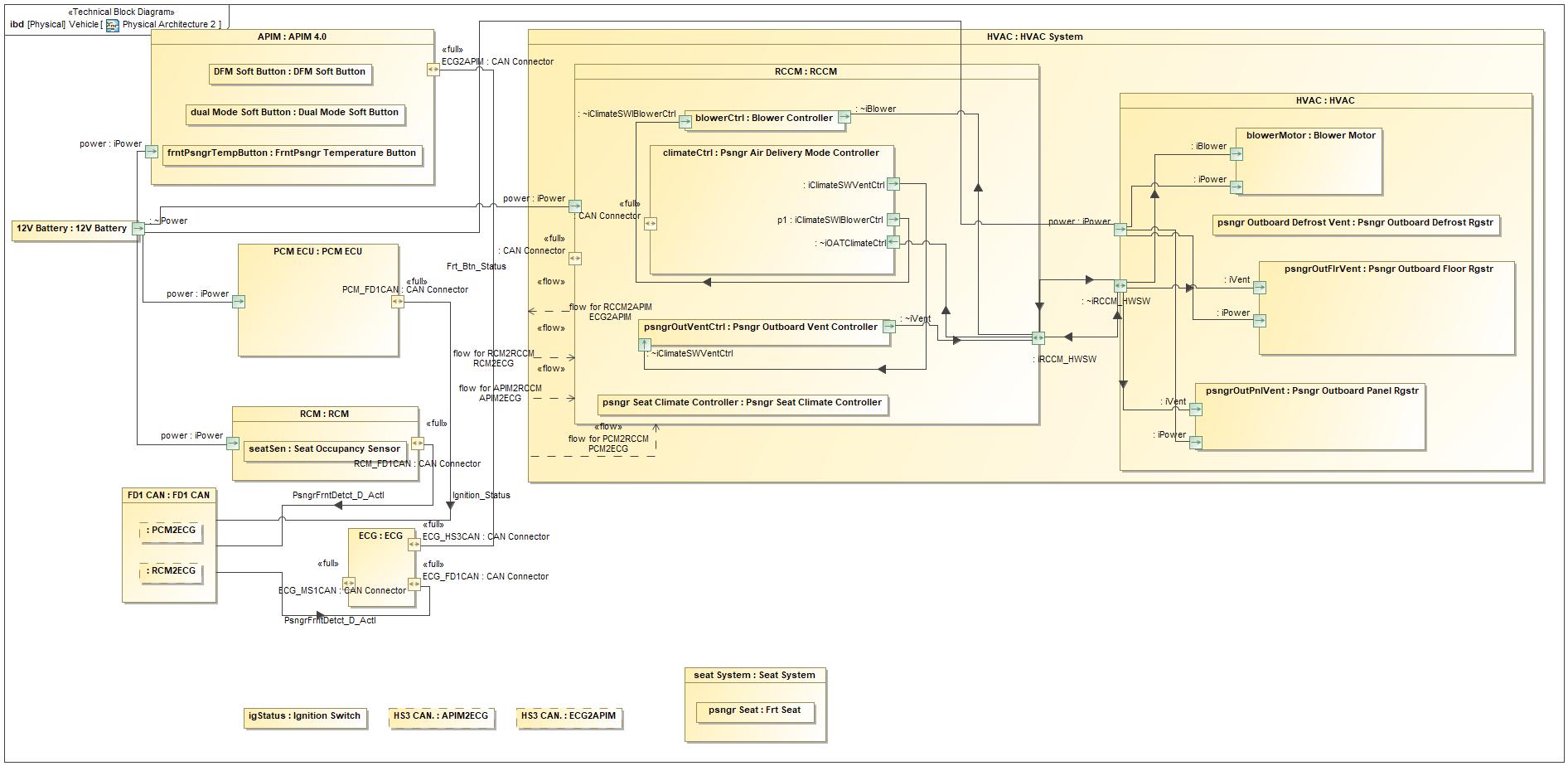


Figure 1: Physical Architecture 2

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

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

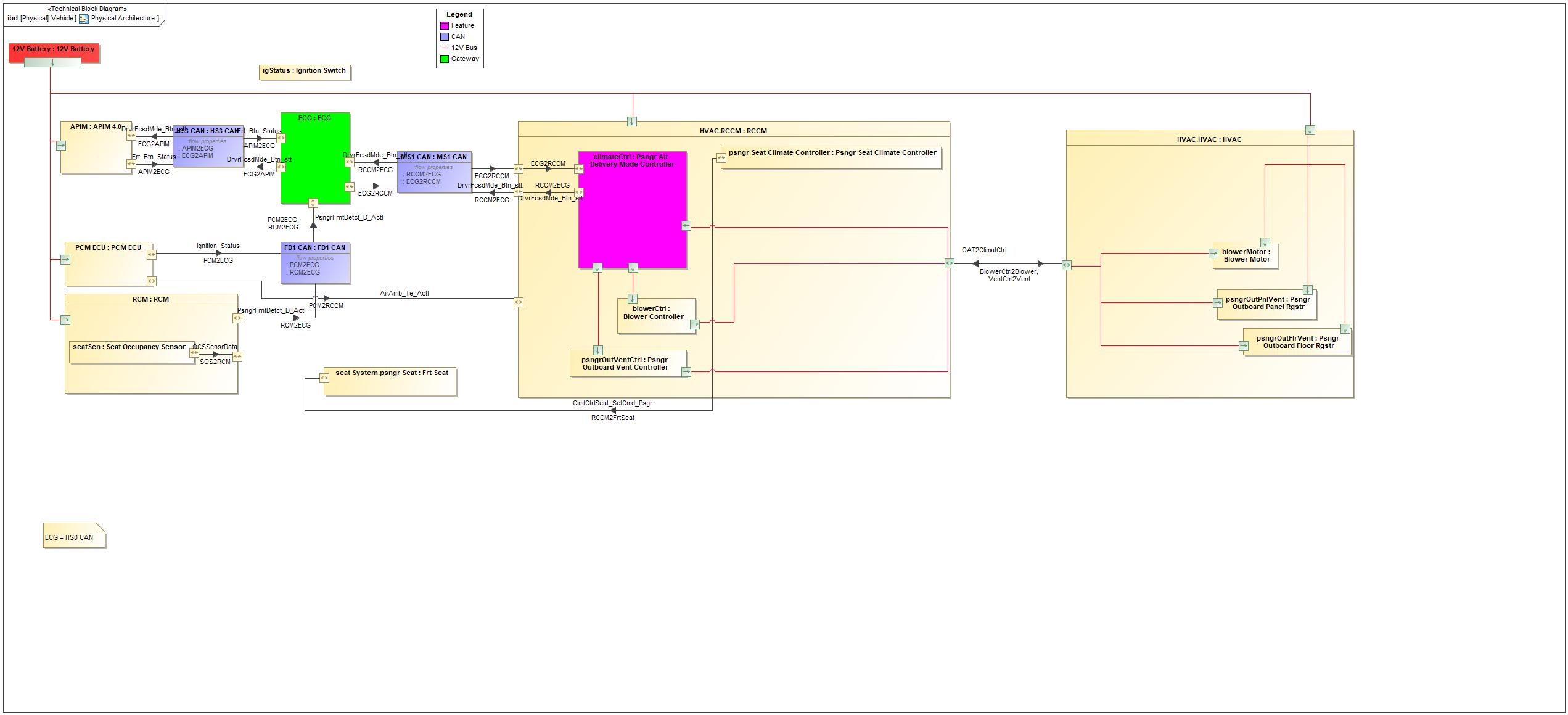


Figure 2: Physical Architecture

#### E/E Components

|  |  |
| --- | --- |
| Component Name | **Description** |
| 12V Battery | power supply for modules |
| APIM (APIM 4.0) | Sync module |
| blowerMotor (Blower Motor) |  |
| ECG | Enhanced Communications Gateway Module |
| HVAC (HVAC System) | the HVAC system including RCCM/FCIM/Control head |
| igStatus (Ignition Switch) | the hardware ignition switch |
| PCM ECU | Powertrain Control Module for ignition status |
| psngrOutFlrVent (Psngr Outboard Floor Rgstr) |  |
| psngrOutPnlVent (Psngr Outboard Panel Rgstr) |  |
| RCM | Restraint Control Module |
| seatSen (Seat Occupancy Sensor) | Sensor to detect passenger on a seat |

Table 3‑2: Electrical Components

#### E/E Connections

*No E/E Connections found.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 “Messages” in the Data Dictionary. In the subsections of that data dictionary chapter you may add a definition of your message.* | <Give a list of relevant nodes> |
| e..g. HS-CAN4 | Network | CAN (High Speed) | Infotainment High Speed CAN bus | … | … |
| e..g. [CELLULAR TCUB WIFI](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=WZe1wsPXx3NrTDAAAAAAAAAAAAA&servername=Production_Server%5e) | RF-Digital | WiFi (FTCP) |  | … | … |
| e.g. [CR167·CTRL MOD. - RCM # EVENT NOTIFICATION SIGNAL 1](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=LjXtx$M9x3NrTDAAAAAAAAAAAAA&servername=Production_Server) | PMW | n/a | Event Notification Signal | n/a |  |
|  |  |  |  |  |  |

Table 3‑3: E/E Connections

#### Signal List

|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |
| **Outside\_Air\_Temperature** |  | Satisfies:  *No reqs. satisfied* |
| **DrvrFcsdMde\_Btn\_stt** |  | Satisfies:  *No reqs. satisfied* |
| **Mode\_Actuator** | Signal that decides passenger airflow delivery mode | Satisfies:  *No reqs. satisfied* |
| **OCSSensrDataUpperLim** |  | Satisfies:  *No reqs. satisfied* |
| **front button status** |  | Satisfies:  *No reqs. satisfied* |
| **Temperature\_Actuator** | Signal that determines passenger set temperature | Satisfies:  *No reqs. satisfied* |
| **Frt\_Btn\_Status\_1st** |  | Satisfies:  *No reqs. satisfied* |
| **PWM\_Signal** | Pulse signal to control speed of blower | Satisfies:  *No reqs. satisfied* |
| **PsngrFrntDetct\_D\_Actl** | Front Passenger occupancy status from RCM | Satisfies:  *No reqs. satisfied* |
| **Ignition\_Status** | Ignition status | Satisfies:  *No reqs. satisfied* |
| **OCSSensrDataLowerLim** |  | Satisfies:  *No reqs. satisfied* |
| **AirAmb\_Te\_Actl** | Outside Ambient Temp | Satisfies:  *No reqs. satisfied* |
| **Frt\_Btn\_Status\_2nd** |  | Satisfies:  *No reqs. satisfied* |
| **ClmtCtrlSeat\_SetCmd\_Psgr** |  | Satisfies:  *No reqs. satisfied* |

### Software Component Architecture

#### Description

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

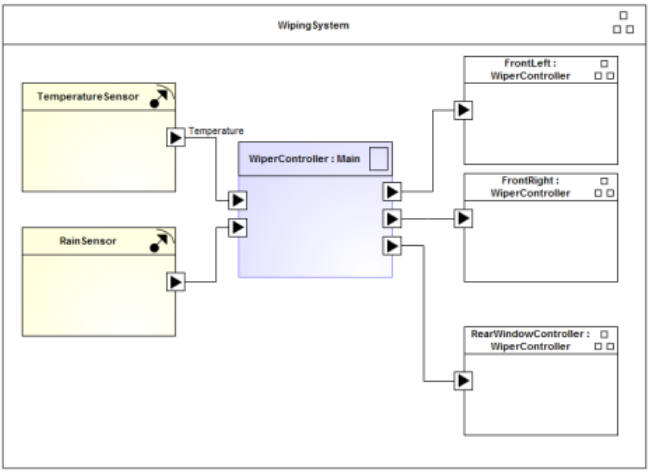


Figure 3‑4: AUTOSAR compliant SW Component Architecture

## 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 3‑4: 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 |
| Actuator |  |
| Psngr Air Delivery Mode Controller | Configure Blower Compensation | * Configure Blower Compensation |
| Arbitrate Mode | * Arbitrate Mode |
| Process Climate System Inhibitors | * Process Climate System Inhibitors |
| Process Automatic Strategy | * Process Automatic Strategy |
| Process Vehicle Enabling Conditions | *No logical function allocated* |
| Process Manual Request | * Process Manual Request |
| Determine Inhibitors | * Determine Inhibitors |
| Output DFM Feedback | * Output DFM Feedback |
| Determine Vent Shutoff Door Position | * Determine Vent Shutoff Door Position |
| Determine Request | * Determine Request |  |
| FrntPsngrTempSetpoint |  |
| Frnt Psngr Seat | Process Automatic Strategy | * Process Automatic Strategy |
|  |
| FrntPsngr Temperature Button |  |
| Blower Controller | Configure Blower Compensation | * Configure Blower Compensation |
|  |
| Vehicle | Process Vehicle Enabling Conditions | *No logical function allocated* |
|  |
| OAT Sensor | Process Vehicle Enabling Conditions | *No logical function allocated* |
|  |
| Frt Seat |  |
| RCCM | Arbitrate Mode | * Arbitrate Mode |
| Configure Blower Compensation | * Configure Blower Compensation |
| Determine Vent Shutoff Door Position | * Determine Vent Shutoff Door Position |
| Process Vehicle Enabling Conditions | *No logical function allocated* |
| Process Manual Request | * Process Manual Request |
| Process Climate System Inhibitors | * Process Climate System Inhibitors |
| Process Automatic Strategy | * Process Automatic Strategy |
|  |
| Seat System |  |
| FD1 CAN |  |
| HS3 CAN |  |
| Psngr Outboard Defrost Rgstr |  |
| HVAC | Process Climate System Inhibitors | * Process Climate System Inhibitors |
|  |
| Psngr Outboard Floor Rgstr | Determine Vent Shutoff Door Position | * Determine Vent Shutoff Door Position |
|  |
| HMI Display Actuator | Output DFM Feedback | * Output DFM Feedback |
|  |
| Ignition Switch | Process Vehicle Enabling Conditions | *No logical function allocated* |
|  |
| CAN Connector |  |
| HS0 CAN |  |
| Blower Motor | Configure Blower Compensation | * Configure Blower Compensation |
|  |
| PCM ECU | Decide DFM Operation Mode | * Arbitrate Mode |
| Process Vehicle Enabling Conditions | *No logical function allocated* |
|  |
| Air Delivery Mode System |  |
| Dual Mode Soft Button | Process Manual Request | * Process Manual Request |
|  |
| Seat Occupancy Sensor | Process Automatic Strategy | * Process Automatic Strategy |
|  |
| HVAC System | Decide DFM Operation Mode | * Arbitrate Mode |
| Process Climate System Inhibitors | * Process Climate System Inhibitors |
|  |
| Psngr Outboard Panel Rgstr | Determine Vent Shutoff Door Position | * Determine Vent Shutoff Door Position |
|  |
| APIM 4.0 | Output DFM Feedback | * Output DFM Feedback |
| Determine Request | * Determine Request |
|  |
| RCM | Decide DFM Operation Mode | * Arbitrate Mode |
| Process Automatic Strategy | * Process Automatic Strategy |
|  |
| Psngr Outboard Vent Controller | Determine Vent Shutoff Door Position | * Determine Vent Shutoff Door Position |
|  |
| 12V Battery |  |
| ECG | Decide DFM Operation Mode | * Arbitrate Mode |
| Process Vehicle Enabling Conditions | *No logical function allocated* |
| Determine Inhibitors | * Determine Inhibitors |
| Provide Front Passenger Seat Occupancy Sensor Measurement | * Determine Inhibitors * Process Automatic Strategy * Arbitrate Mode * Output DFM Feedback |
| Process Manual Request | * Process Manual Request |
| Provide Ignition Status | * Determine Inhibitors * Process Vehicle Enabling Conditions |
|  |
| DFM Soft Button | Process Manual Request | * Process Manual Request |
|  |
| DFM |  |
| Psngr Seat Climate Controller |  |
| MS1 CAN |  |
| Inboard Door |  |

Table 3‑5: 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 |  |
| Actuator |  |  |  |
| Psngr Air Delivery Mode Controller |  | Configure Blower Compensation | *No reqs. satisfied by tech. fx.* |  |
|  | Arbitrate Mode | *No reqs. satisfied by tech. fx.* |  |
|  | Process Climate System Inhibitors | *No reqs. satisfied by tech. fx.* |  |
|  | Process Automatic Strategy | *No reqs. satisfied by tech. fx.* |  |
|  | Process Vehicle Enabling Conditions | *No reqs. satisfied by tech. fx.* |  |
|  | Process Manual Request | *No reqs. satisfied by tech. fx.* |  |
|  | Determine Inhibitors | *No reqs. satisfied by tech. fx.* |  |
|  | Output DFM Feedback | *No reqs. satisfied by tech. fx.* |  |
|  | Determine Vent Shutoff Door Position | *No reqs. satisfied by tech. fx.* |  |
|  | Determine Request | *No reqs. satisfied by tech. fx.* |  |  |
| FrntPsngrTempSetpoint |  |  |  |
| Frnt Psngr Seat |  | Process Automatic Strategy | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| FrntPsngr Temperature Button |  |  |  |
| Blower Controller |  | Configure Blower Compensation | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Vehicle |  | Process Vehicle Enabling Conditions | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| OAT Sensor |  | Process Vehicle Enabling Conditions | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Frt Seat |  |  |  |
| RCCM |  | Arbitrate Mode | *No reqs. satisfied by tech. fx.* |  |
|  | Configure Blower Compensation | *No reqs. satisfied by tech. fx.* |  |
|  | Determine Vent Shutoff Door Position | *No reqs. satisfied by tech. fx.* |  |
|  | Process Vehicle Enabling Conditions | *No reqs. satisfied by tech. fx.* |  |
|  | Process Manual Request | *No reqs. satisfied by tech. fx.* |  |
|  | Process Climate System Inhibitors | *No reqs. satisfied by tech. fx.* |  |
|  | Process Automatic Strategy | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Seat System |  |  |  |
| FD1 CAN |  |  |  |
| HS3 CAN |  |  |  |
| Psngr Outboard Defrost Rgstr |  |  |  |
| HVAC |  | Process Climate System Inhibitors | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Psngr Outboard Floor Rgstr |  | Determine Vent Shutoff Door Position | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| HMI Display Actuator |  | Output DFM Feedback | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Ignition Switch |  | Process Vehicle Enabling Conditions | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| CAN Connector |  |  |  |
| HS0 CAN |  |  |  |
| Blower Motor |  | Configure Blower Compensation | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| PCM ECU |  | Decide DFM Operation Mode | *No reqs. satisfied by tech. fx.* |  |
|  | Process Vehicle Enabling Conditions | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Air Delivery Mode System |  |  |  |
| Dual Mode Soft Button |  | Process Manual Request | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Seat Occupancy Sensor |  | Process Automatic Strategy | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| HVAC System |  | Decide DFM Operation Mode | *No reqs. satisfied by tech. fx.* |  |
|  | Process Climate System Inhibitors | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Psngr Outboard Panel Rgstr |  | Determine Vent Shutoff Door Position | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| APIM 4.0 |  | Output DFM Feedback | *No reqs. satisfied by tech. fx.* |  |
|  | Determine Request | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| RCM |  | Decide DFM Operation Mode | *No reqs. satisfied by tech. fx.* |  |
|  | Process Automatic Strategy | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Psngr Outboard Vent Controller |  | Determine Vent Shutoff Door Position | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| 12V Battery |  |  |  |
| ECG |  | Decide DFM Operation Mode | *No reqs. satisfied by tech. fx.* |  |
|  | Process Vehicle Enabling Conditions | *No reqs. satisfied by tech. fx.* |  |
|  | Determine Inhibitors | *No reqs. satisfied by tech. fx.* |  |
|  | Provide Front Passenger Seat Occupancy Sensor Measurement | *No reqs. satisfied by tech. fx.* |  |
|  | Process Manual Request | *No reqs. satisfied by tech. fx.* |  |
|  | Provide Ignition Status | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| DFM Soft Button |  | Process Manual Request | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| DFM |  |  |  |
| Psngr Seat Climate Controller |  |  |  |
| MS1 CAN |  |  |  |
| Inboard Door |  |  |  |

Table 3‑6: Function Allocation Table (Functional Safety Extension)

# Feature Implementation Modeling

## Component Interaction Diagrams

### Scenario: “System Startup / Shutdown”

### Scenario: “Normal Operation”

No “Feature Scenario Diagram” found



Figure 3: Sample Scenario “Normal Operation”

Figure 12: Sample Scenario “Normal Operation”

See Section 4.2 for State Machine Diagram illustrating operation.

## Component Interface Behavior Diagrams

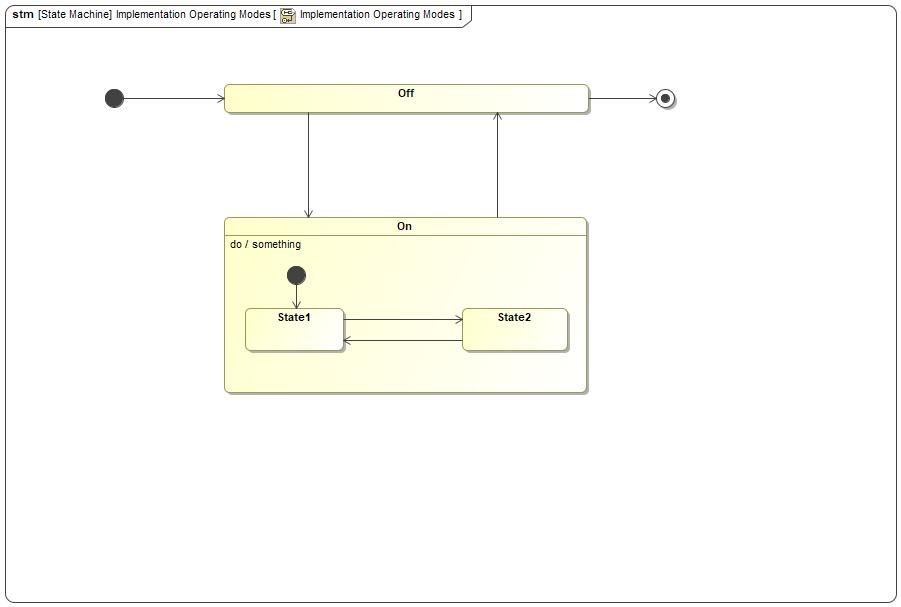


Figure 4: Implementation Operating Modes

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

Table 10: Operation Modes and States on Implementation Operating Modes

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

Table 11: 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

### Vehicle

Vehicle

#### Technology Function -455235952.jpg **Process Vehicle Enabling Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Ignition\_Status | input | | | VehStatus |  |  |
| Review in model  input1  AirAmb\_Te\_Actl  Outside\_Air\_Temperature | input1 | | | AmbTemp |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Vehicle Enabling Conditions

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Psngr Air Delivery Mode Controller

Psngr Air Delivery Mode Controller

#### Technology Function -455235952.jpg **Configure Blower Compensation**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  DFMCmdBlower  ClmtCtrlSeat\_SetCmd\_Psgr  PWM\_Signal | output | | | BlowerCmd |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Configure Blower Compensation

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Arbitrate Mode**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Arbitrate Mode

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Climate System Inhibitors**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Automatic Strategy**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  PsngrFrntDetct\_D\_Actl  OCSSensrDataLowerLim  OCSSensrDataUpperLim | input | | | FrntPsngrOccupancyStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Automatic Strategy

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Process Automatic Strategy

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Vehicle Enabling Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Ignition\_Status | input | | | VehStatus |  |  |
| Review in model  input1  AirAmb\_Te\_Actl  Outside\_Air\_Temperature | input1 | | | AmbTemp |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Vehicle Enabling Conditions

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Manual Request**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  DrvrFcsdMde\_Btn\_stt  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | UserInputs |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Manual Request

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Determine Inhibitors**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | output | | | DFMInhibit |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Determine Inhibitors

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Output DFM Feedback**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Output DFM Feedback

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Determine Vent Shutoff Door Position**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Determine Vent Shutoff Door Position

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Determine Request**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | output | | | DFMRequest |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Determine Request

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### ECG

ECG

#### Technology Function -455235952.jpg **Decide DFM Operation Mode**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | DFMInhibit |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Decide DFM Operation Mode

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Decide DFM Operation Mode

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Vehicle Enabling Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Ignition\_Status | input | | | VehStatus |  |  |
| Review in model  input1  AirAmb\_Te\_Actl  Outside\_Air\_Temperature | input1 | | | AmbTemp |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Vehicle Enabling Conditions

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Determine Inhibitors**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | output | | | DFMInhibit |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Determine Inhibitors

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Provide Front Passenger Seat Occupancy Sensor Measurement**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  PsngrFrntDetct\_D\_Actl  OCSSensrDataLowerLim  OCSSensrDataUpperLim | input | | | FrntPsngrOccupancyStatus |  |  |
| Review in model  input1  DrvrFcsdMde\_Btn\_stt | input1 | | | DFMState |  |  |
| Review in model  input2  PsngrFrntDetct\_D\_Actl  OCSSensrDataLowerLim  OCSSensrDataUpperLim | input2 | | | FrntPsngrOccupancyStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Provide Front Passenger Seat Occupancy Sensor Measurement

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  PsngrFrntDetct\_D\_Actl | output | | | DFMReqAuto |  |  |
| Review in model  output1  PsngrFrntDetct\_D\_Actl | output1 | | | DFMReqAuto |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Provide Front Passenger Seat Occupancy Sensor Measurement

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Manual Request**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  DrvrFcsdMde\_Btn\_stt  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | UserInputs |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Manual Request

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Provide Ignition Status**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Provide Ignition Status

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Provide Ignition Status

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Ignition Switch

Ignition Switch

#### Technology Function -455235952.jpg **Process Vehicle Enabling Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Ignition\_Status | input | | | VehStatus |  |  |
| Review in model  input1  AirAmb\_Te\_Actl  Outside\_Air\_Temperature | input1 | | | AmbTemp |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Vehicle Enabling Conditions

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Seat Occupancy Sensor

Seat Occupancy Sensor

#### Technology Function -455235952.jpg **Process Automatic Strategy**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  PsngrFrntDetct\_D\_Actl  OCSSensrDataLowerLim  OCSSensrDataUpperLim | input | | | FrntPsngrOccupancyStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Automatic Strategy

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Process Automatic Strategy

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### OAT Sensor

OAT Sensor

#### Technology Function -455235952.jpg **Process Vehicle Enabling Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Ignition\_Status | input | | | VehStatus |  |  |
| Review in model  input1  AirAmb\_Te\_Actl  Outside\_Air\_Temperature | input1 | | | AmbTemp |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Vehicle Enabling Conditions

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### 12V Battery

12V Battery

### Psngr Outboard Vent Controller

Psngr Outboard Vent Controller

#### Technology Function -455235952.jpg **Determine Vent Shutoff Door Position**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Determine Vent Shutoff Door Position

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### PCM ECU

PCM ECU

#### Technology Function -455235952.jpg **Decide DFM Operation Mode**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | DFMInhibit |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Decide DFM Operation Mode

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Decide DFM Operation Mode

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Vehicle Enabling Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Ignition\_Status | input | | | VehStatus |  |  |
| Review in model  input1  AirAmb\_Te\_Actl  Outside\_Air\_Temperature | input1 | | | AmbTemp |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Vehicle Enabling Conditions

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### DFM Soft Button

DFM Soft Button

#### Technology Function -455235952.jpg **Process Manual Request**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  DrvrFcsdMde\_Btn\_stt  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | UserInputs |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Manual Request

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Frnt Psngr Seat

Frnt Psngr Seat

#### Technology Function -455235952.jpg **Process Automatic Strategy**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  PsngrFrntDetct\_D\_Actl  OCSSensrDataLowerLim  OCSSensrDataUpperLim | input | | | FrntPsngrOccupancyStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Automatic Strategy

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Process Automatic Strategy

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Blower Motor

Blower Motor

#### Technology Function -455235952.jpg **Configure Blower Compensation**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  DFMCmdBlower  ClmtCtrlSeat\_SetCmd\_Psgr  PWM\_Signal | output | | | BlowerCmd |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Configure Blower Compensation

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### APIM 4.0

APIM 4.0

#### Technology Function -455235952.jpg **Output DFM Feedback**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Output DFM Feedback

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Determine Request**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | output | | | DFMRequest |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Determine Request

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### FD1 CAN

FD1 CAN

### Dual Mode Soft Button

Dual Mode Soft Button

#### Technology Function -455235952.jpg **Process Manual Request**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  DrvrFcsdMde\_Btn\_stt  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | UserInputs |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Manual Request

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### RCCM

RCCM

#### Technology Function -455235952.jpg **Arbitrate Mode**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Arbitrate Mode

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Configure Blower Compensation**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  DFMCmdBlower  ClmtCtrlSeat\_SetCmd\_Psgr  PWM\_Signal | output | | | BlowerCmd |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Configure Blower Compensation

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Determine Vent Shutoff Door Position**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Determine Vent Shutoff Door Position

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Vehicle Enabling Conditions**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Ignition\_Status | input | | | VehStatus |  |  |
| Review in model  input1  AirAmb\_Te\_Actl  Outside\_Air\_Temperature | input1 | | | AmbTemp |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Vehicle Enabling Conditions

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Manual Request**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  DrvrFcsdMde\_Btn\_stt  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | UserInputs |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Manual Request

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Climate System Inhibitors**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Automatic Strategy**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  PsngrFrntDetct\_D\_Actl  OCSSensrDataLowerLim  OCSSensrDataUpperLim | input | | | FrntPsngrOccupancyStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Automatic Strategy

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Process Automatic Strategy

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### CAN Connector

CAN Connector

### HVAC

HVAC

#### Technology Function -455235952.jpg **Process Climate System Inhibitors**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### HS0 CAN

HS0 CAN

### MS1 CAN

MS1 CAN

### RCM

RCM

#### Technology Function -455235952.jpg **Decide DFM Operation Mode**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | DFMInhibit |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Decide DFM Operation Mode

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Decide DFM Operation Mode

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Automatic Strategy**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  PsngrFrntDetct\_D\_Actl  OCSSensrDataLowerLim  OCSSensrDataUpperLim | input | | | FrntPsngrOccupancyStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Process Automatic Strategy

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Process Automatic Strategy

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Blower Controller

Blower Controller

#### Technology Function -455235952.jpg **Configure Blower Compensation**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  output  DFMCmdBlower  ClmtCtrlSeat\_SetCmd\_Psgr  PWM\_Signal | output | | | BlowerCmd |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Configure Blower Compensation

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Psngr Outboard Panel Rgstr

Psngr Outboard Panel Rgstr

#### Technology Function -455235952.jpg **Determine Vent Shutoff Door Position**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Determine Vent Shutoff Door Position

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### Psngr Outboard Floor Rgstr

Psngr Outboard Floor Rgstr

#### Technology Function -455235952.jpg **Determine Vent Shutoff Door Position**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Determine Vent Shutoff Door Position

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### DFM

DFM

### HS3 CAN

HS3 CAN

### HVAC System

HVAC System

#### Technology Function -455235952.jpg **Decide DFM Operation Mode**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input  Frt\_Btn\_Status\_1st  Frt\_Btn\_Status\_2nd | input | | | DFMInhibit |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Decide DFM Operation Mode

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Decide DFM Operation Mode

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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 -455235952.jpg **Process Climate System Inhibitors**

##### Function Interfaces

###### Inputs

(No inputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑2: Input Signal mappings of Function “MyLogicalFunctionA\_Component1”

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

### HMI Display Actuator

HMI Display Actuator

#### Technology Function -455235952.jpg **Output DFM Feedback**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Output DFM Feedback

###### Outputs

(No outputs have been defined)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Signal Name** | **Technical Signal Name** | **Mapping Details**  *(Conditional)* | **Publisher Interface** | **Connection**  *(Optional)* |
| Name should be a Word reference to the *“Logical Signals”* name bookmark in the Data Dictionary | Name of aTechnical Signal, e.g.:   * A [*GSDB signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here) * a data element in a SOA Service Contract or MQTT/FTCP message (put a link to the central MQTT message repository/service catalog here) * A hard-wired signal [*EDAS signal in VSEM*](https://www.vsemweb.ford.com/tc/launchapp?-attach=true&-s=226TCSession&-o=gPXpSoIbx3NrTDAAAAAAAAAAAAA&servername=Production_Server) (just give the VSEM link here)   If the signal is not yet managed in VSEM or any other central signal repository, add a link to the section “*Technical Signals*”in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your technical signal | If mapping is not 1:1, you might reference a Mapping description object from the *Mappings* section. | Name should be Word reference to the “*Technical Interfaces”* name bookmark in the Data Dictionary (e.g. *AIS Interfaces* for CAN signals). | Connection Name should be reference to a Connection as given in the *E/E Connections*.  For network connections add the name of the Message (which the Technical Signal is mapped to) to the connection name (Naming convention *<ConnectionName>*)::*<MessageName>*.  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)   If a message is not yet managed in VSEM or any other central repository, add a link to the section “*Messages”* in the *Data Dictionary*. In the subsections of that data dictionary chapter you may add a definition of your message. |
|  |  |  |  |  |

Table 5‑3: Output Signal mappings of Function “MyLogicalFunctionA\_Component1”A

###### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Logical Parameter Name** | **Technical Parameter Name** | **Mapping Details** *(Conditional)* | **Method** | **Method Details** |
| Name should be a Word reference to the “*Logical Parameters*” name bookmark in the Data Dictionary | Name should be a Word reference to the “*Technical Parameters*” name bookmark in the Data Dictionary | If mapping is not 1:1 you might reference a Mapping description object from the *Mappings* 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

## 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 | How to fully capture Wake/Sleep requirements. Currently we have a mismatch between what is captured in old EuCD SRD requirements and what is captured in AIS Publisher Interfaces (Publishing Network Sleep Inhibitor, Network Wake Up) |  | Open | Extend AIS attributes? |
| 2 | Clarify how to export Message list entries from CMDB in VSEM |  | Open |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |

Table 6‑1: Open Concerns

# Revision History

No Revision History found.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Revision | Date | Description | Approved by | Responsible |
| A |  | Initial version |  | Jbaden1 |
|  |  |  |  |  |

## 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

BlowerCmd

Logical signal of the command DFM sends to the blower control for air flow adjustment

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of BlowerCmd

UserInputs

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of UserInputs

AmbTemp

Logical signal of environment temperature (in °F) as input for DFM to determine whether or not to activate

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of AmbTemp

FrntPsngrOccupancyStatus

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of FrntPsngrOccupancyStatus

VehStatus

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of VehStatus

DFMFeedback

Logical signal of the command DFM sends HMI system to notify users about DFM status

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of DFMFeedback

VentCmd

Logical signal of the command DFM sends to the DFM shutoff vent door controller to adjust air flow

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of VentCmd

### Logical Parameters

### Technical Signals

Outside\_Air\_Temperature

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Outside\_Air\_Temperature

DrvrFcsdMde\_Btn\_stt

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of DrvrFcsdMde\_Btn\_stt

Mode\_Actuator

Signal that decides passenger airflow delivery mode

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Mode\_Actuator

OCSSensrDataUpperLim

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of OCSSensrDataUpperLim

front button status

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of front button status

Temperature\_Actuator

Signal that determines passenger set temperature

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Temperature\_Actuator

Frt\_Btn\_Status\_1st

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Frt\_Btn\_Status\_1st

PWM\_Signal

Pulse signal to control speed of blower

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of PWM\_Signal

PsngrFrntDetct\_D\_Actl

Front Passenger occupancy status from RCM

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of PsngrFrntDetct\_D\_Actl

Ignition\_Status

Ignition status

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Ignition\_Status

OCSSensrDataLowerLim

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of OCSSensrDataLowerLim

AirAmb\_Te\_Actl

Outside Ambient Temp

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of AirAmb\_Te\_Actl

Frt\_Btn\_Status\_2nd

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of Frt\_Btn\_Status\_2nd

ClmtCtrlSeat\_SetCmd\_Psgr

|  |  |  |
| --- | --- | --- |
| **ASIL** | | Choose an item. |
| **Init Default Value** | |  |
| **Encoding Type Name** | |  |
| Note: An encoding is either discrete or continuous. Delete fields below which are not needed, | | |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
|  |  |
| **Unit** | |  |

Table: Signal Details of ClmtCtrlSeat\_SetCmd\_Psgr

#### 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

BlowerCmd

Logical signal of the command DFM sends to the blower control for air flow adjustment

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **voltage** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of BlowerCmd

ClimateCtrlVentCmd

Logical signal of the command DFM sends to the vent control for air flow adjustment both at the floor and on the instrument panel

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **frntPsngrOutPnlCmd** |  |
| **frntPsngrOutFlrCmd** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateCtrlVentCmd

DFMState

Logical signal of DFM ON/OFF state; On--request air to only the driver; Off--request air to both driver and passenger

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMState

DFMReqManual

Logical signal indicating DFM is requested by user manual inputs through HMI

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
| **NoSelection** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMReqManual

ClimateEVAPPurge

Logical signal of current EVAP purge as input for DFM to determine how to adjust air flow

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateEVAPPurge

Frt\_Btn\_Status\_1st

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Defrost** |  |
| **Dual** |  |
| **DFM** |  |
| **FrntPsngrTempSetpoint** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of Frt\_Btn\_Status\_1st

UserInputs

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **userInDFM** |  |
| **userInDual** |  |
| **userInTempChange** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of UserInputs

ClimateParkPurge

Logical signal of park purge as input for DFM to determine how to adjust air flow

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateParkPurge

DFMCmdBlower

Internal - DFM cmd to blower control

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMCmdBlower

ClmtCtrlSeat\_SetCmd\_Psgr

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClmtCtrlSeat\_SetCmd\_Psgr

VehStatus

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **ignitionStatus** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of VehStatus

ClimateHVACPurge

Logical signal of HVAC purge event in the climate system

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateHVACPurge

Outside\_Air\_Temperature

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of Outside\_Air\_Temperature

TempSetpointChange

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **NotChanged** |  |
| **Changed** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of TempSetpointChange

AmbTemp

Logical signal of environment temperature (in °F) as input for DFM to determine whether or not to activate

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of AmbTemp

FrntPsngrOccupancyStatus

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **frntPsngrStatus** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of FrntPsngrOccupancyStatus

DFMStateDisplay

Logical signal of HMI display for the DFM ON/OFF state

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMStateDisplay

Temperature\_Actuator

Signal that determines passenger set temperature

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of Temperature\_Actuator

FrntPsngrTempDisplay

Logical signal of the front passenger temperature display On/Off

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of FrntPsngrTempDisplay

ClimateCtrlStatus

Logical signal DFM receives from the climate system about purge and defrost event status

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **purgeStatus** |  |
| **defrostStatus** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateCtrlStatus

PsngrFrntDetct\_D\_Actl

Front Passenger occupancy status from RCM

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **NotDetected** |  |
| **Detected** |  |
| **SignalNotAvailable** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of PsngrFrntDetct\_D\_Actl

DFMVehCheck

Logical signal indicating whether vehicle level system check is passed for DFM to become On.

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Pass** |  |
| **Fail** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMVehCheck

DFMRequest

Logical signal indicating DFM is requested to be On/Off regardless of method

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMRequest

ClimatePEPC

Logical signal of current PEPC state as input for DFM to determine how to adjust air flow

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimatePEPC

ClimateDefrostMax

Logical signal of user selection for defrost on max power

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateDefrostMax

DrvrFcsdMde\_Btn\_stt

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Off** |  |
| **On** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DrvrFcsdMde\_Btn\_stt

Clmt\_Button\_Stat2

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of Clmt\_Button\_Stat2

DFMClimateCheck

Logical signal indicating whether climate system check is passed for DFM to become On

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Pass** |  |
| **Fail** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMClimateCheck

ClimateOdorPurge

Logical signal of odor purge event as input for DFM to determine how to adjust air flow

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateOdorPurge

ClimatePurgeStatus

Logical signal of purge events status in the climate system

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **hvacPurgeStatus** |  |
| **odorPurgeStatus** |  |
| **evapPurgeStatus** |  |
| **pepcPurgeStatus** |  |
| **parkPurgeStat** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimatePurgeStatus

InputDFM

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
| **NoSelection** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of InputDFM

InputPsngrTempChangeDetection

Logical signal of front passenger side temperature setpoint change

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Yes** |  |
| **No** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of InputPsngrTempChangeDetection

OCSSensrDataLowerLim

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of OCSSensrDataLowerLim

DFMReqAuto

Logical signal indicating DFM is requested by automatic system logic

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMReqAuto

VentCmd

Logical signal of the command DFM sends to the DFM shutoff vent door controller to adjust air flow

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **FullyOpen** |  |
| **FullyClosed** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of VentCmd

DFMFeedback

Logical signal of the command DFM sends HMI system to notify users about DFM status

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **dfmStateDisplay** |  |
| **frntPsngrTempDisplay** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMFeedback

ClimateCtrlCmd

Logical signal of the command DFM sends to the climate system

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **blowerCmd** |  |
| **frntPsngrOutPnlCmd** |  |
| **frntPsngrOutFlrCmd** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateCtrlCmd

Mode\_Actuator

Signal that decides passenger airflow delivery mode

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of Mode\_Actuator

OCSSensrDataUpperLim

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of OCSSensrDataUpperLim

DFMCmdVent

Internal - DFM cmd to vent control

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMCmdVent

InputClimateDual

Logical signal of Dual Mode selection from the user

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of InputClimateDual

ClimateDefrost

Logical signal of user selection for defrost

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **On** |  |
| **Off** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateDefrost

ClimateDefrostStatus

Logical signal of defrost events status in the climate system

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **defrostStatus** |  |
| **defrostMaxStatus** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of ClimateDefrostStatus

PWM\_Signal

Pulse signal to control speed of blower

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of PWM\_Signal

Ignition\_Status

Ignition status

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of Ignition\_Status

DualModeStatus

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Off** |  |
| **On** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DualModeStatus

Frt\_Btn\_Status\_2nd

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Defrost** |  |
| **Dual** |  |
| **DFM** |  |
| **FrntPsngrTempSetpoint** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of Frt\_Btn\_Status\_2nd

DFMInhibit

Logical signal indicating whether DFM is inhibited

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Inhited** |  |
| **NotInhibited** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DFMInhibit

AirAmb\_Te\_Actl

Outside Ambient Temp

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
|  |  |
| **Unit** | |  |

Table: Encoding Details of AirAmb\_Te\_Actl

DefrostStatus

**Note:** An encoding is either discrete or continuous. Delete those fields, which are not needed.

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) | Value 1 |  |
| Value 2 | … |
| … | … |
| **Off** |  |
| **On** |  |
| **OnMax** |  |
|  |  |
| **Unit** | |  |

Table: Encoding Details of DefrostStatus

Document ends here.