SCMB

<<Physical>>

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| --- | --- | --- | --- |
| Document Approval | | | |
| Person | Role | Email | Date |
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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** |
| Michael Puleri | mpuleri | mpuleri@ford.com | Manager - Steering Fixed |  |
| Scott Berra | sberra | sberra@ford.com | Engineer - Steering Wheel & Airbag |  |
| Shani Allison | salliso3 | salliso3@ford.com | GE Feature Delivery Leader |  |
| Jeevan Malpeddi | jmalpedd | jmalpedd@ford.com | Engineer - Steering Wheel & Airbag |  |
| Spencer Dorr | sdorr | sdorr@ford.com | Steering Systems Engineer |  |
| Erik Soderlind | esoderli | esoderli@ford.com | Global Steering - Steering Foundation |  |
| Aamir Pasha | apasha | apasha@ford.com | GE Feature Delivery Engineer |  |
| Vinay Gajjela | vgajjela | vgajjela@ford.com | Model Architect |  |
| Andrew Steinman | asteinm3 | asteinm3@ford.com | Engineer - Electrical Architecture |  |
| Pete Williams | pwilli73 | pwilli73@ford.com | Supervisor - Chassis Architecture - Brake and Steering Systems |  |
| Michael Arant | marant | marant@ford.com | Quality Engineer |  |
| Daniel Yeaw | dyeaw | dyeaw@ford.com | Lead Core PD Functional safety |  |
| Matthew Gabrielli | mgabri20 | mgabri20@ford.com | CFIM: CX746/7 Integration Manager |  |
| Anita Stoffer | aramamu1 | aramamu1@ford.com | Supervisor - Electrical Architecture |  |
| James Franko | jfranko | jfranko@ford.com | GE2 Dash System Optimization Integration |  |
| John Doe |  |  | Model Architect | Systems Engineer |
| Nick Scheufler | nscheufl | nscheufl@ford.com | Pre Feature Owner |  |
| John Rentis | jrentis | jrentis@ford.com | Switch Core Engineer |  |
| Vikram Gokhale | vgokhale | vgokhale@ford.com | GE Feature Delivery Leader |  |
| Peter Kung | pkung | pkung@ford.com | Experience Translation |  |
| Andrew Brow | abrow1 | abrow1@ford.com | Engineer - EPAS |  |
| David Tippy |  |  | Engineer - Steering Wheel & Airbag SME |  |
| David Farrell | dfarre13 | dfarre13@ford.com | Supervisor - SE Functional Safety Applications |  |
| Michael Dean | mdean6 | mdean6@ford.com | Engineer - Steering Wheel & Airbag |  |

## Document Organization

### Document Context

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

### Document Structure

The structure of this document is explained below:

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

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

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

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

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

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

**Section 6** – List of Open Concerns

**Section 7** – Revision History

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

## Document Conventions

### Requirements Templates

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

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

#### Identification of requirements

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

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

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

*Example:*

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

#### Requirements Attributes

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

## References

### Ford Documents

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

### External Documents and Publications

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

| **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

| **Definition** | **Description** |
| --- | --- |
| ABS | Automatic Breaking System |
| APIM | Accessory Protocol Interface Module (SYNC) |
| BCM | Body Control Module |
| BMS | Battery Management System |
| DAB | Driver Air Bag or one version of a Passive Restraint. |
| DC | Drive Control ( Locomotion and Passive restraint (Air Bag) Control) |
| Deploy | Come out / Move away from Dashboard or Instrument Panel Cluster |
| Drivability Status | Status to make sure all the component's status are good before allowing the drivability to user for safe drive |
| Drive Control | Drive Control is the Control status of Locomotion and Passive Restraint ( Drive Airbag)) |
| Drive Mode | The original Mode of the Vehicle in which the work surface for productivity is inside the instrument panel assembly ( stowed and locked) and the Driver seat is at drive seat position and Steering Column is Deployed |
| Drive state | The original Mode of the Vehicle in which the work surface for productivity is inside the instrument panel assembly ( stowed and locked) and the Driver seat is at drive seat position and Steering Column is Deployed |
| DSM | Driver Seat Module or Seat Controller. |
| ECM | Engine Control Module. |
| ECU | Electronic Control Module |
| EPAS | Electronic Power Assisted Steering |
| FuSa | Functional Safety |
| High speed | Approximately more than 52 mph (83 kph) |
| Low speed | Approximately 12 to 36 mph (19 to 58 kph ) |
| Medium speed | Approximately 36 mph to 52 mph (58 to 83 kph) |
| PCM | Powertrain Control Module |
| PSCM | Power Steering Control Module |
| RCM | Restraint Control Module or Seatbelt Controller |
| Rest Mode | The mode in which driver will have Driver seat is moved back (Work mode seat position) and Steering Column is stowed inside( Work Surface will not be Arbitrated) |
| Rest state | The mode in which driver will have Driver seat is moved back (Work mode seat position) and Steering Column is stowed inside( Work Surface will not be Arbitrated) |
| Stow | Move in / Move towards to Dashboard or Instrument Panel Cluster |
| Term | A representation of a Concept expressed in Natural Language. In the vocabulary of a Domain of Discourse a term enables common understanding of domain concepts. |
| term glossary | A term glossary is a table of agreed upon definitions for terms used in project development that may provide clarity or avoid confusion to stakeholders. |
| TLA | Three Letter Acronym |
| Tray | Work surface where a User / Driver can use |
| Very Low Speed | Approximately 0 to 12 mph (0 to 19 kph) |
| Work Mode | The mode in which driver will have a work surface for productivity and the Driver seat is moved back (Work mode seat position) and Steering Column is stowed inside. |
| Work state | The mode in which driver will have a work surface for productivity and the Driver seat is moved back (Work mode seat position) and Steering Column is stowed inside. |

Table 1‑4: Definitions used in this document

### Abbreviations

| **Abbr.** | **Stands for** | **Description** |
| --- | --- | --- |
| ATLA | Another Three Letter Acronym |  |

Table 1‑5: Abbreviations used in this document.

# Feature Implementation Overview

## Description

SCMB

Driver seat Module B or Passenger Seat Module

## 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 Feature shall comply with FMVSS101. |  |
|  |  |  |  |
| **Industry Standards** | | | |
|  | ISO 26262 | The system should be developed according to Ford's implementation of Functional Safety. |  |
|  |  |  |  |
| **Other Sources** | | | |
|  |  |  |  |
|  | Productivity | The driver shall use the feature to deploy a work surface and move the driver seat position in a timely manner as specified by User Experience guidelines. |  |
|  | Gain Space and Freedom of Movement | The driver shall have the ability to stow the steering column and move the driver seat position in a timely manner as specified by User Experience guidelines. |  |
|  | Unsafe Operating States | Unsafe Operating States shall be identified and mitigated as per ISO 26262 Functional Safety Analysis. |  |
|  | Easy to Understand Controls | The vehicle driver shall have access to easy-to-understand and intuitive controls and status information in close physical proximity to one another concerning the state of the feature. |  |
|  | Example AR |  |  |
|  | System Loudness | The system shall function at less than TBD dB. |  |
|  | Ease of Feature State Movement | The driver shall have the ability to easily move from a current feature state to any other valid state as quickly as possible. States are as follows: Drive, Rest/ Play and Work. |  |
|  |  |  |  |

Table 6: Input Requirements/Documents

## Lessons Learned

No lessons learned specified.

## Assumptions

No Assumptions specified.

# Feature Implementation Architecture

## Functional Architecture

### Description

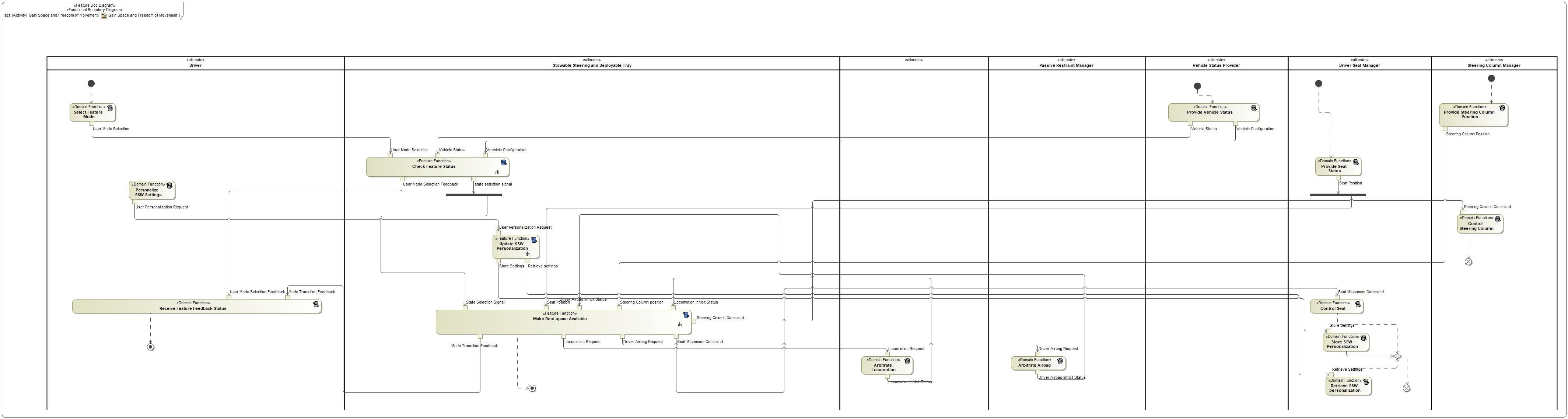


Figure 8: Gain Space and Freedom of Movement

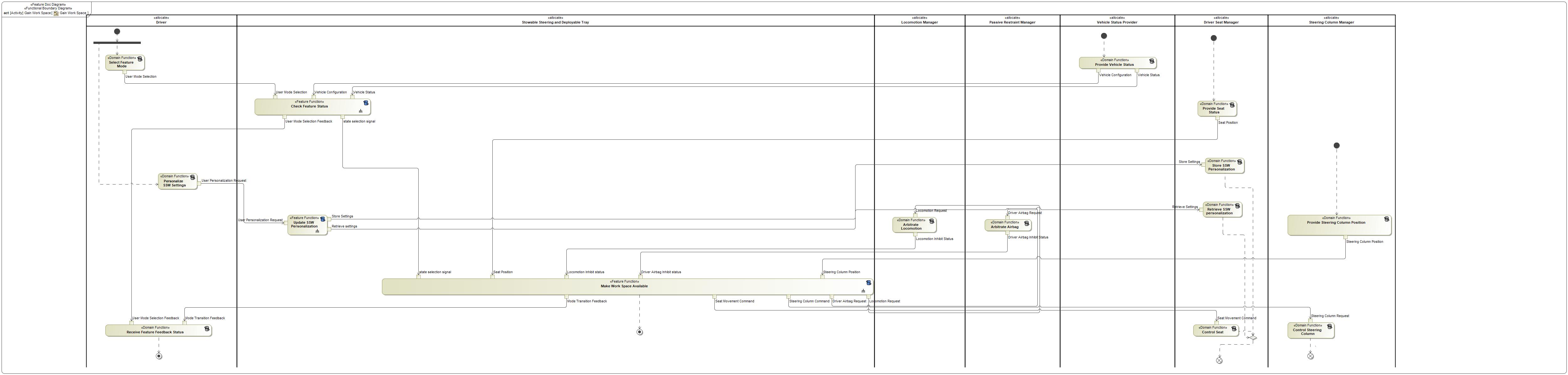


Figure 8: Gain Work Space

### Function List

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

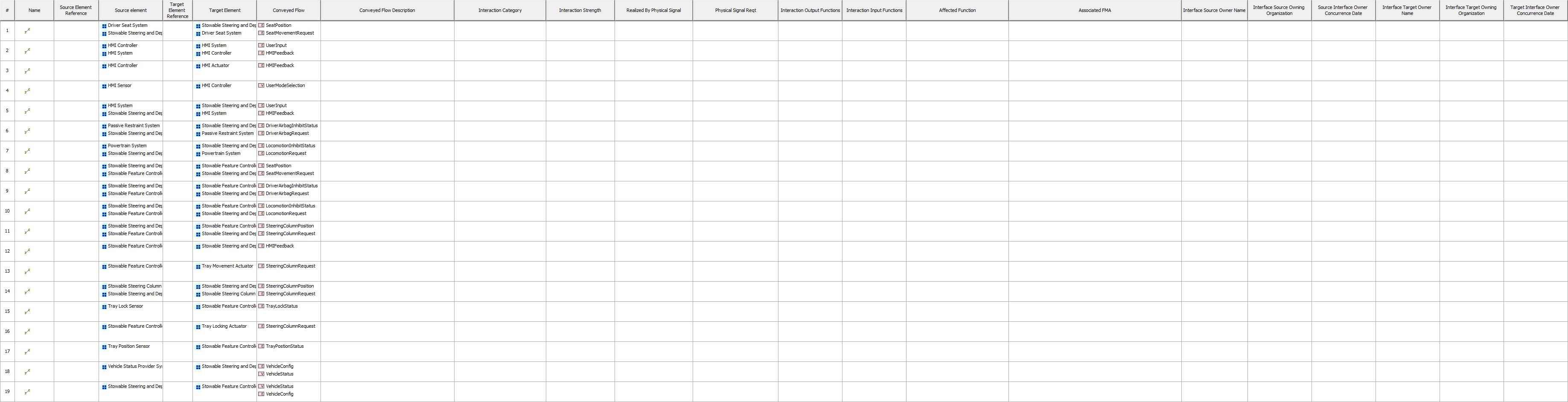
| **Function ID** | Function Name | Function Description |
| --- | --- | --- |
|  | *(activity)* Arbitrate Airbag | *(activity)* This Function receives the Airbag requests and Arbitrate the Airbag Accordingly and sends out the Airbag Inhibit Status |
|  | *(activity)* Select Feature Mode | *(activity)* A Domain Function of HMI which is responsible for Accepting User Input and send it to the Feature |
|  | *(activity)* Provide Steering Column Position | *(activity)* Steering Column system providing Feature the current Steering Column Position |
|  | *(activity)* Personalize SSW Settings | *(activity)* Domain function responsible for Driver Personalizing the seat and steering column memory positions |
|  | *(activity)* Provide Vehicle Status | *(activity)* A Domain Function which provides the Vehicle status to the Feature |
|  | *(activity)* Retrieve SSW personalization | *(activity)* Retrieve SSW settings that Driver saved earlier |
|  | *(activity)* Store SSW Personalization | *(activity)* A Domain function responsible for storing settings selected by the Driver |
|  | *(activity)* Control Steering Column | *(activity)* A domain function which is responsible for moving the steering column as requested by Feature |
|  | *(activity)* Receive Feature Feedback Status | *(activity)* A Domain Function of HMI which is responsible for Displaying Modes, Status to the User |
|  | *(activity)* Update SSW Personalization | *(activity)* This function updates the User Personalized requests as per his request |
|  | *(activity)* Arbitrate Locomotion | *(activity)* A Domain Function of Powertrain which is responsible to disable the Locomotion |
|  | *(activity)* Check Feature Status | *(activity)* A Feature Function Which Receives and checks the feature status and send state selection signal to the Feature |
|  | *(activity)* Make Rest space Available | *(activity)* A Feature Function which Allows the User to gain Rest Space and gives him the freedom to move |
|  | *(activity)* Provide Seat Status | *(activity)* A Domain Function which provides the Seat position to the Feature |
|  | *(activity)* Control Seat | *(activity)* A Domain Function Which Actuate the Seat based on the Input Requests |

Table 17: List of Functions on Gain Space and Freedom of Movement

| **Function ID** | Function Name | Function Description |
| --- | --- | --- |
|  | *(activity)* Arbitrate Locomotion | *(activity)* A Domain Function of Powertrain which is responsible to disable the Locomotion |
|  | *(activity)* Store SSW Personalization | *(activity)* A Domain function responsible for storing settings selected by the Driver |
|  | *(activity)* Update SSW Personalization | *(activity)* This function updates the User Personalized requests as per his request |
|  | *(activity)* Control Steering Column | *(activity)* A domain function which is responsible for moving the steering column as requested by Feature |
|  | *(activity)* Receive Feature Feedback Status | *(activity)* A Domain Function of HMI which is responsible for Displaying Modes, Status to the User |
|  | *(activity)* Select Feature Mode | *(activity)* A Domain Function of HMI which is responsible for Accepting User Input and send it to the Feature |
|  | *(activity)* Provide Seat Status | *(activity)* A Domain Function which provides the Seat position to the Feature |
|  | *(activity)* Retrieve SSW personalization | *(activity)* Retrieve SSW settings that Driver saved earlier |
|  | *(activity)* Check Feature Status | *(activity)* A Feature Function Which Receives and checks the feature status and send state selection signal to the Feature |
|  | *(activity)* Make Work Space Available | *(activity)* A Feature Function which Allows the User to gain Work Space. |
|  | *(activity)* Arbitrate Airbag | *(activity)* This Function receives the Airbag requests and Arbitrate the Airbag Accordingly and sends out the Airbag Inhibit Status |
|  | *(activity)* Control Seat | *(activity)* A Domain Function Which Actuate the Seat based on the Input Requests |
|  | *(activity)* Personalize SSW Settings | *(activity)* Domain function responsible for Driver Personalizing the seat and steering column memory positions |
|  | *(activity)* Provide Steering Column Position | *(activity)* Steering Column system providing Feature the current Steering Column Position |
|  | *(activity)* Provide Vehicle Status | *(activity)* A Domain Function which provides the Vehicle status to the Feature |

Table 17: List of Functions on Gain Work Space

### Signal List



|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |
| **VehicleConfig** | Configuration of the Feature and Vehicle Specific | Satisfies:  *No reqs. satisfied* |
| **LocomotionInhibitStatus** | Status of the Locomotion Inhibition | Satisfies:  *No reqs. satisfied* |
| **LocomotionRequest** | Request to Powertrain / Locomotion to Inhibit /Deinhibit | Satisfies:  *No reqs. satisfied* |
| **SteeringColumnPosition** | Position of the Steering Column provided by the steering column system | Satisfies:  *No reqs. satisfied* |
| **TrayPostionStatus** | Tray Position status is the feedback for Tray position given by Tray position Sensor | Satisfies:  *No reqs. satisfied* |
| **SeatPosition** | Current Seat Position from the Driver Seat System | Satisfies:  *No reqs. satisfied* |
| **HMIFeedback** | Feedback given to HMI | Satisfies:  *No reqs. satisfied* |
| **SeatMovementRequest** | Command to Move seat which goes to the Driver seat System | Satisfies:  *No reqs. satisfied* |
| **UserModeSelection** | Mode selection information from User | Satisfies:  *No reqs. satisfied* |
| **TrayLockStatus** | Tray lock status is given by Tray Lock sensor | Satisfies:  *No reqs. satisfied* |
| **VehicleStatus** | This Signal is the collectivity approval signal which includes Parking status, battery state of charge and Vehicle Speed | Satisfies:  *No reqs. satisfied* |
| **UserInput** | Input given by user through HMI | Satisfies:  *No reqs. satisfied* |
| **DriverAirbagRequest** | Request sent to the Driver Airbag system / Passive Restraint System for either Inhibit or Deinhibit | Satisfies:  *No reqs. satisfied* |
| **DriverAirbagInhibitStatus** | Status of the Driver Airbag Inhibition | Satisfies:  *No reqs. satisfied* |
| **SteeringColumnRequest** | Request to Move steering Column with respect to selected Mode | 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”: Technical Block Diagram

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

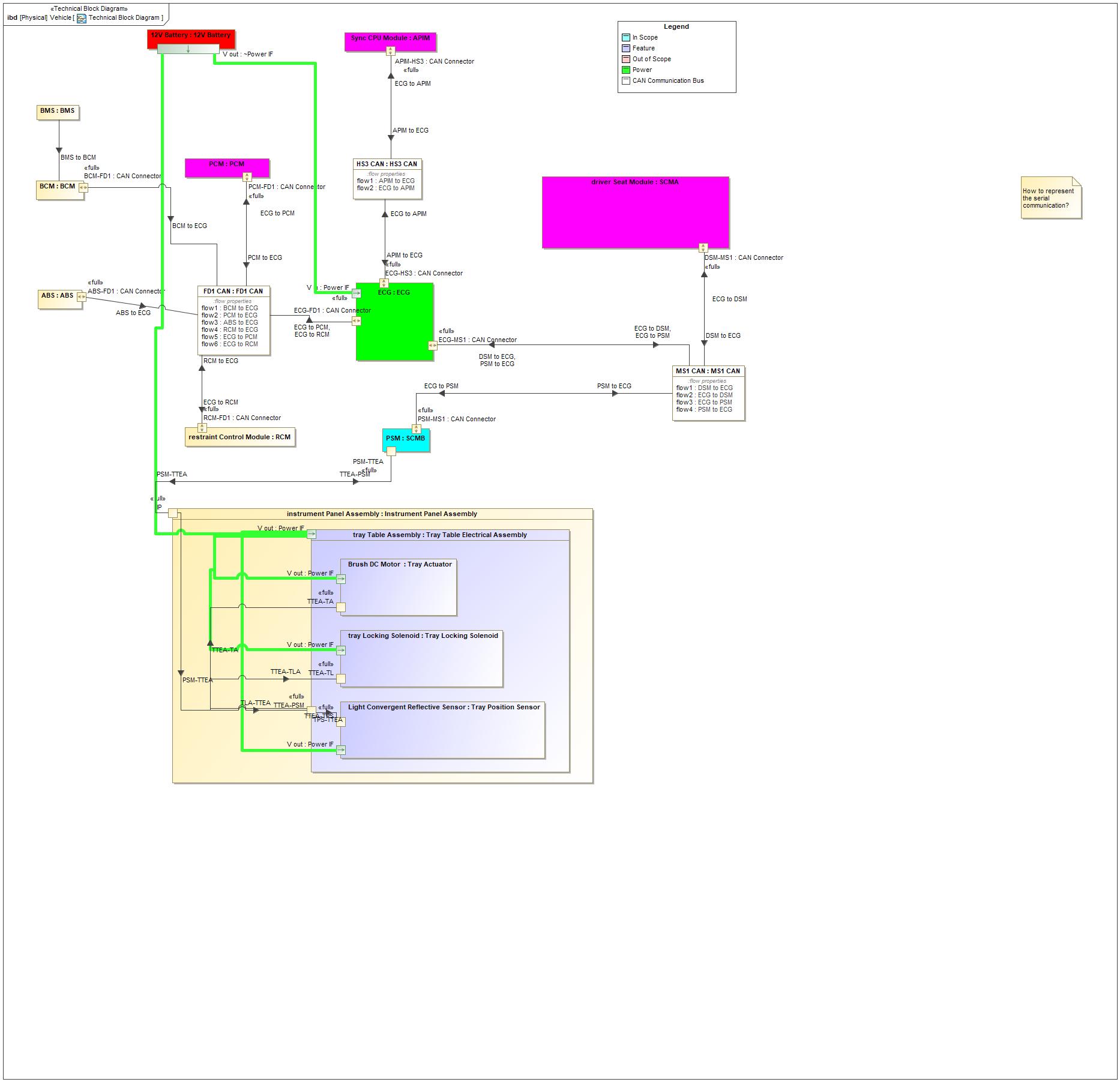


Figure 1: Technical Block Diagram

#### E/E Components

|  |  |
| --- | --- |
| Component Name | **Description** |
| 12V Battery | Battery Supply for the all sensors and Actuators |
| ABS | Automatic Breaking System |
| BCM | Body Control Module |
| BMS | Battery Management System |
| driver Seat Module (SCMA) | Driver seat Module A or DSM |
| ECG | Enhanced Central Gateway |
| FD1 CAN | Full depth communication bus for CAN |
| HS3 CAN | High speed communication bus for CAN |
| instrument Panel Assembly (Instrument Panel Assembly) | Instrument Panel Assembly where Tray , HMI and all other are present |
| MS1 CAN | Medium Speed communication Bus for CAN |
| PCM | Power train Control Module |
| restraint Control Module (RCM) | Restraint Control Module |
| SENT |  |
| Sync CPU Module (APIM) | Accessory Protocol Interface Module |

Table 3‑2: Electrical Components

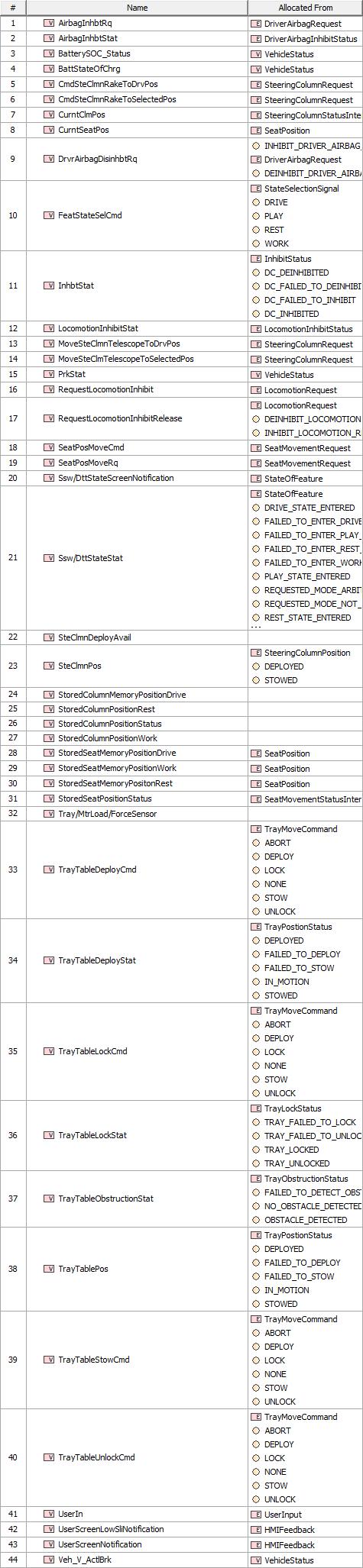
#### E/E Connections

*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** |
| **StoredColumnPositionStatus** | Status of storing Memory position for Steering Column | Satisfies:  *No reqs. satisfied* |
| **RequestLocomotionInhibitRelease** | Request to De Inhibit the Locomotion | Satisfies:  *No reqs. satisfied* |
| **Ssw/DttStateStat** | Current state of Feature | Satisfies:  *No reqs. satisfied* |
| **TrayTableLockStat** | Tray Table Lock status | Satisfies:  *No reqs. satisfied* |
| **UserIn** | User Input | Satisfies:  *No reqs. satisfied* |
| **Veh\_V\_ActlBrk** | Vehicle Velocity as seen by the brake | Satisfies:  *No reqs. satisfied* |
| **CurntClmPos** | Current steering Column position | Satisfies:  *No reqs. satisfied* |
| **MoveSteClmnTelescopeToDrvPos** | Command to Move steering Column to Drive position | Satisfies:  *No reqs. satisfied* |
| **CurntSeatPos** | Current seat position | Satisfies:  *No reqs. satisfied* |
| **InhbtStat** | Inhibit status after Locomotion status and Driver Airbag Inhibit status verified | Satisfies:  *No reqs. satisfied* |
| **StoredColumnPositionRest** | Memory position of steering Column in Rest mode | Satisfies:  *No reqs. satisfied* |
| **StoredSeatPositionStatus** | Seat Position status internal signal withing SCMB | Satisfies:  *No reqs. satisfied* |
| **BattStateOfChrg** | Battery state of Charge | Satisfies:  *No reqs. satisfied* |
| **TrayTableObstructionStat** | Tray Table obstruction status | Satisfies:  *No reqs. satisfied* |
| **TrayTableUnlockCmd** | Command signal to Unlock Tray | Satisfies:  *No reqs. satisfied* |
| **TrayTablePos** | Tray Table position | Satisfies:  *No reqs. satisfied* |
| **TrayTableDeployCmd** | Command signal to Deploy Tray | Satisfies:  *No reqs. satisfied* |
| **Ssw/DttStateScreenNotification** | signal containing the information to convey on HMI about the mode | Satisfies:  *No reqs. satisfied* |
| **BatterySOC\_Status** | High Voltage Battery state of charge ( A signal to be determined) | Satisfies:  *No reqs. satisfied* |
| **SeatPosMoveRq** | Request to Move Driver seat | Satisfies:  *No reqs. satisfied* |
| **UserScreenLowSliNotification** | Notification on User screen for Low sli | Satisfies:  *No reqs. satisfied* |
| **StoredColumnPositionWork** | Memory position for Steering Column at work mode | Satisfies:  *No reqs. satisfied* |
| **StoredSeatMemoryPositionWork** | Memory position for Driver seat at Work Mode | Satisfies:  *No reqs. satisfied* |
| **StoredColumnMemoryPositionDrive** |  | Satisfies:  *No reqs. satisfied* |
| **MoveSteClmTelescopeToSelectedPos** | Command to Move steering column to selected position | Satisfies:  *No reqs. satisfied* |
| **Tray/MtrLoad/ForceSensor** | Tray Load status | Satisfies:  *No reqs. satisfied* |
| **StoredSeatMemoryPositonRest** | Memory position for Driver seat at Rest Mode | Satisfies:  *No reqs. satisfied* |
| **FeatStateSelCmd** | State Selection signal | Satisfies:  *No reqs. satisfied* |
| **SteClmnPos** | Steering Column position | Satisfies:  *No reqs. satisfied* |
| **TrayTableLockCmd** | Command signal to Lock Tray | Satisfies:  *No reqs. satisfied* |
| **AirbagInhbtRq** | Request to Inhibit Airbag | Satisfies:  *No reqs. satisfied* |
| **RequestLocomotionInhibit** | Request to Inhibit the Locomotion | Satisfies:  *No reqs. satisfied* |
| **SeatPosMoveCmd** | Signal to Move seat with respect to the mode selected | Satisfies:  *No reqs. satisfied* |
| **LocomotionInhibitStat** | Inhibit status of Locomotion | Satisfies:  *No reqs. satisfied* |
| **CmdSteClmnRakeToDrvPos** | Command to Move steering Column to Drive Position | Satisfies:  *No reqs. satisfied* |
| **DrvrAirbagDisinhbtRq** | Request to De Inhibit the Airbag | Satisfies:  *No reqs. satisfied* |
| **AirbagInhbtStat** | Inhibit status of Driver Airbag | Satisfies:  *No reqs. satisfied* |
| **TrayTableDeployStat** | Tray Table Deploy status | Satisfies:  *No reqs. satisfied* |
| **TrayTableStowCmd** | Command signal to Stow Tray | Satisfies:  *No reqs. satisfied* |
| **SteClmnDeployAvail** | Availability of steering Column Deployment | Satisfies:  *No reqs. satisfied* |
| **CmdSteClmnRakeToSelectedPos** | Command to Move steering Column to Selected Position | Satisfies:  *No reqs. satisfied* |
| **StoredSeatMemoryPositionDrive** | Memory position for Driver seat at Drive Mode | Satisfies:  *No reqs. satisfied* |
| **PrkStat** | Vehicle Parking status | Satisfies:  *No reqs. satisfied* |
| **UserScreenNotification** | Screen notification on HMI for User | Satisfies:  *No reqs. satisfied* |

### Software Component Architecture

#### Description

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

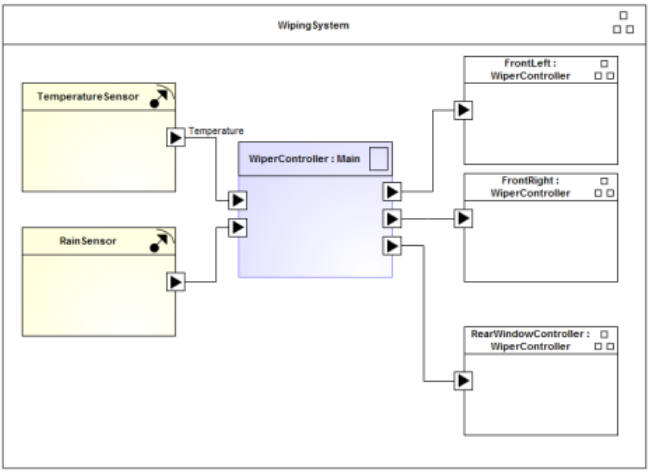


Figure 3‑4: AUTOSAR compliant SW Component Architecture

## 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>

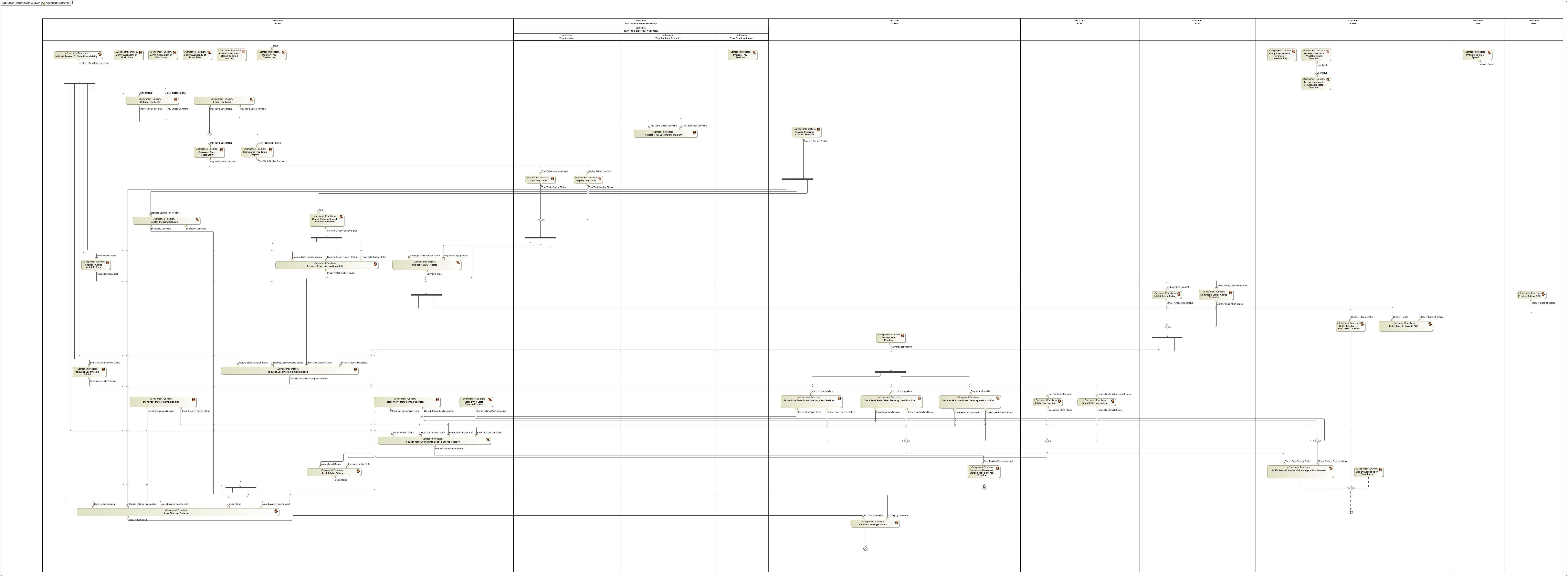


Figure 8: Implementation Behavior

### 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 |
| Tray Load Sensor | Sense Tray Overload | * Sense Tray Overload |
|  |
| Sliding Track |  |
| SerialConnector |  |
| Tray Surface |  |
| Tray Table Mechanical Assembly |  |
| PCM | DisInhibit Locomotion | *No logical function allocated* |
| Inhibit Locomotion | *No logical function allocated* |
|  |
| Item Physical |  |
| Tray Position Sensor | Provide Tray Position | * Provide Tray Position |
|  |
| Steering Column Mechanical Assembly |  |
| Tray Table Electrical Assembly | Sense Tray Overload | * Sense Tray Overload |
| Actuate Tray Movement | * Actuate Tray Movement |
| Provide Tray Position | * Provide Tray Position |
| Actuate Tray Locking Mechanism | * Actuate Tray Locking * Provide Tray Lock status |
| Deploy Tray Table | *No logical function allocated* |
| Stow Tray Table | *No logical function allocated* |
|  |
| BMS | Provide Battery SOC | *No logical function allocated* |  |
| FD1 CAN |  |
| 12V Battery |  |
| BCM | Provide Battery SOC | *No logical function allocated* |
|  |
| ECG |  |
| ABS | Provide Vehicle Speed | *No logical function allocated* |
|  |
| SENT |  |
| Rotating Arm |  |
| Instrument Panel Assembly | Stow Tray Table | *No logical function allocated* |
| Deploy Tray Table | *No logical function allocated* |
| Provide Tray Position | * Provide Tray Position |
| Actuate Tray Locking Mechanism | * Actuate Tray Locking * Provide Tray Lock status |  |
| CAN Connector |  |
| Tray Actuator | Actuate Tray Movement | * Actuate Tray Movement |
| Deploy Tray Table | *No logical function allocated* |
| Stow Tray Table | *No logical function allocated* |
|  |
| Vehicle |  |
| Tray Locking Solenoid | Actuate Tray Locking Mechanism | * Actuate Tray Locking * Provide Tray Lock status |
|  |
| APIM | Notify User to Low Sli SOC | * Provide HMI Feedback |
| Display/Accept User State learn | *No logical function allocated* |
| Notify User reason of state Unavailability | *No logical function allocated* |
| Notify/Display to User SSW/DTT State | *No logical function allocated* |
| Receive User In Of Available State Selection | *No logical function allocated* |
| Notify User of Successfull state position learned | *No logical function allocated* |
| Accept User Input of Available State Selection | *No logical function allocated* |
|  |
| RCM | Inhibit Driver Airbag | *No logical function allocated* |
| Command Driver Airbag DisInhibit | *No logical function allocated* |
|  |
| SCMB | Deploy Steering Column | * Request SteeringColumn Deployment * Control Steering Column Functionality |
| Verify Availabilty of Work State | * Check vehicle status |
| Verify Availability of Rest State | * Check vehicle status |
| Verify Availability of Drive State | * Evaluate Drivability status * Check vehicle status |
| Check Driver seat stored position reached | * Check Seat position |
| Monitor Tray Obstruction | * Provide Tray Obstruction Status |
| Publish SSW/DTT state | *No logical function allocated* |
| Indicate Reason Of State Unavailability | * Provide HMI Feedback * Check Feature Availability |
| Command Tray Table Deploy | * Request Tray Deployment * Control Tray Functionality |
| Check Column Stored Position Reached | *No logical function allocated* |
| Request Airbag Inhibit Release | * Request Airbag Disabling |
| Request Locomotion Inhibit | * Request Locomotion Disabling |
| Request Driver Airbag DisInhibit | * Request Airbag Enabling |
| Request Locomotion Inhibit Release | * Request Locomotion Enabling |
| store rest state column position | * Store SteeringColumn Memory Position |
| store work state comun position | * Store SteeringColumn Memory Position |
| Stow Steering Column | * Request SteeringColumn Stowing * Control Steering Column Functionality |
| Unlock Tray Table | * Request Tray Unlock |
| Lock Tray Table | * Request Tray Lock * Control Tray Functionality |
| check Inhibit Status | * Check Inhibit status |
| Request Maneuver Driver Seat To Stored Position | * Request to Move Seat |
| Store Drive State Column Position | * Store SteeringColumn Memory Position |
| Command Tray Table Stow | * Provide Tray Stow Instructions * Control Tray Functionality |
| Check battery SOC | *No logical function allocated* |
| Check Vehicle Speed | *No logical function allocated* |
|  |
| Steering Wheel |  |
| Stowable Steering and Deployable Tray Physical |  |
| SCMA | Provide Seat Position | *No logical function allocated* |
| Store work state driver memory seat position | *No logical function allocated* |
| Store Rest State Driver Memory Seat Position | * Manage seat save request |
| Store Drive State Driver Memory Seat Position | * Manage seat save request |
| Command Maneuver Driver Seat To Stored Position | *No logical function allocated* |
| Provide Steering Column Position | *No logical function allocated* |
| Actuate Steering Column | *No logical function allocated* |
|  |
| MS1 CAN |  |
| Steering Column |  |
| HS3 CAN |  |

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 |  |
| Tray Load Sensor |  | Sense Tray Overload | * Tray Overload Detection |  |
|  |  |  |
| Sliding Track |  |  |  |
| SerialConnector |  |  |  |
| Tray Surface |  |  |  |
| Tray Table Mechanical Assembly |  |  |  |
| PCM |  | DisInhibit Locomotion | * Locomotion status |  |
|  | Inhibit Locomotion | * Locomotion status |  |
|  |  |  |
| Item Physical |  |  |  |
| Tray Position Sensor |  | Provide Tray Position | * Tray Position Detection |  |
|  |  |  |
| Steering Column Mechanical Assembly |  |  |  |
| Tray Table Electrical Assembly |  | Sense Tray Overload | * Tray Overload Detection |  |
|  | Actuate Tray Movement | * Tray Movement |  |
|  | Provide Tray Position | * Tray Position Detection |  |
|  | Actuate Tray Locking Mechanism | *No reqs. satisfied by tech. fx.* |  |
|  | Deploy Tray Table | * Deploy Tray Table |  |
|  | Stow Tray Table | * Stow Tray Table |  |
|  |  |  |
| BMS |  | Provide Battery SOC | * Battery SOC |  |  |
| FD1 CAN |  |  |  |
| 12V Battery |  |  |  |
| BCM |  | Provide Battery SOC | * Battery SOC |  |
|  |  |  |
| ECG |  |  |  |
| ABS |  | Provide Vehicle Speed | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| SENT |  |  |  |
| Rotating Arm |  |  |  |
| Instrument Panel Assembly |  | Stow Tray Table | * Stow Tray Table |  |
|  | Deploy Tray Table | * Deploy Tray Table |  |
|  | Provide Tray Position | * Tray Position Detection |  |
|  | Actuate Tray Locking Mechanism | *No reqs. satisfied by tech. fx.* |  |  |
| CAN Connector |  |  |  |
| Tray Actuator |  | Actuate Tray Movement | * Tray Movement |  |
|  | Deploy Tray Table | * Deploy Tray Table |  |
|  | Stow Tray Table | * Stow Tray Table |  |
|  |  |  |
| Vehicle |  |  |  |
| Tray Locking Solenoid |  | Actuate Tray Locking Mechanism | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| APIM |  | Notify User to Low Sli SOC | *No reqs. satisfied by tech. fx.* |  |
|  | Display/Accept User State learn | *No reqs. satisfied by tech. fx.* |  |
|  | Notify User reason of state Unavailability | *No reqs. satisfied by tech. fx.* |  |
|  | Notify/Display to User SSW/DTT State | *No reqs. satisfied by tech. fx.* |  |
|  | Receive User In Of Available State Selection | *No reqs. satisfied by tech. fx.* |  |
|  | Notify User of Successfull state position learned | *No reqs. satisfied by tech. fx.* |  |
|  | Accept User Input of Available State Selection | * User Input |  |
|  |  |  |
| RCM |  | Inhibit Driver Airbag | * Driver Airbag status |  |
|  | Command Driver Airbag DisInhibit | * Driver Airbag status |  |
|  |  |  |
| SCMB |  | Deploy Steering Column | * Tele/ Rake Ramp Start/ Stop |  |
|  | Verify Availabilty of Work State | * Work state Availability |  |
|  | Verify Availability of Rest State | * Rest state Availability |  |
|  | Verify Availability of Drive State | * Drive state Availability |  |
|  | Check Driver seat stored position reached | *No reqs. satisfied by tech. fx.* |  |
|  | Monitor Tray Obstruction | * Tray Obstacle detection |  |
|  | Publish SSW/DTT state | * Publish SSW/DTT state |  |
|  | Indicate Reason Of State Unavailability | * Reason of state Unavailability |  |
|  | Command Tray Table Deploy | *No reqs. satisfied by tech. fx.* |  |
|  | Check Column Stored Position Reached | *No reqs. satisfied by tech. fx.* |  |
|  | Request Airbag Inhibit Release | * Driver Airbag Inhibit Request |  |
|  | Request Locomotion Inhibit | * Locomotion Inhibit Request |  |
|  | Request Driver Airbag DisInhibit | * Driver Airbag DeInhibit Request |  |
|  | Request Locomotion Inhibit Release | * Locomotion DeInhibit Request |  |
|  | store rest state column position | *No reqs. satisfied by tech. fx.* |  |
|  | store work state comun position | *No reqs. satisfied by tech. fx.* |  |
|  | Stow Steering Column | * Tele/ Rake Ramp Start/ Stop |  |
|  | Unlock Tray Table | * Tray Locking Functionality * Unlock Tray Table |  |
|  | Lock Tray Table | * Tray Locking Functionality * Lock Tray Table |  |
|  | check Inhibit Status | *No reqs. satisfied by tech. fx.* |  |
|  | Request Maneuver Driver Seat To Stored Position | * Seat Movement Request |  |
|  | Store Drive State Column Position | *No reqs. satisfied by tech. fx.* |  |
|  | Command Tray Table Stow | *No reqs. satisfied by tech. fx.* |  |
|  | Check battery SOC | *No reqs. satisfied by tech. fx.* |  |
|  | Check Vehicle Speed | *No reqs. satisfied by tech. fx.* |  |
|  |  |  |
| Steering Wheel |  |  |  |
| Stowable Steering and Deployable Tray Physical |  |  |  |
| SCMA |  | Provide Seat Position | * Seat Position |  |
|  | Store work state driver memory seat position | *No reqs. satisfied by tech. fx.* |  |
|  | Store Rest State Driver Memory Seat Position | *No reqs. satisfied by tech. fx.* |  |
|  | Store Drive State Driver Memory Seat Position | *No reqs. satisfied by tech. fx.* |  |
|  | Command Maneuver Driver Seat To Stored Position | *No reqs. satisfied by tech. fx.* |  |
|  | Provide Steering Column Position | *No reqs. satisfied by tech. fx.* |  |
|  | Actuate Steering Column | * Steering Column Tele Movement Actuation * Steering Column Tele Movement * SC Tele DC Motor specs |  |
|  |  |  |
| MS1 CAN |  |  |  |
| Steering Column |  |  |  |
| HS3 CAN |  |  |  |

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 2: Sample Scenario “Normal Operation”

Figure 12: Sample Scenario “Normal Operation”

See Section 4.2 for State Machine Diagram illustrating operation.

## Component Interface Behavior Diagrams

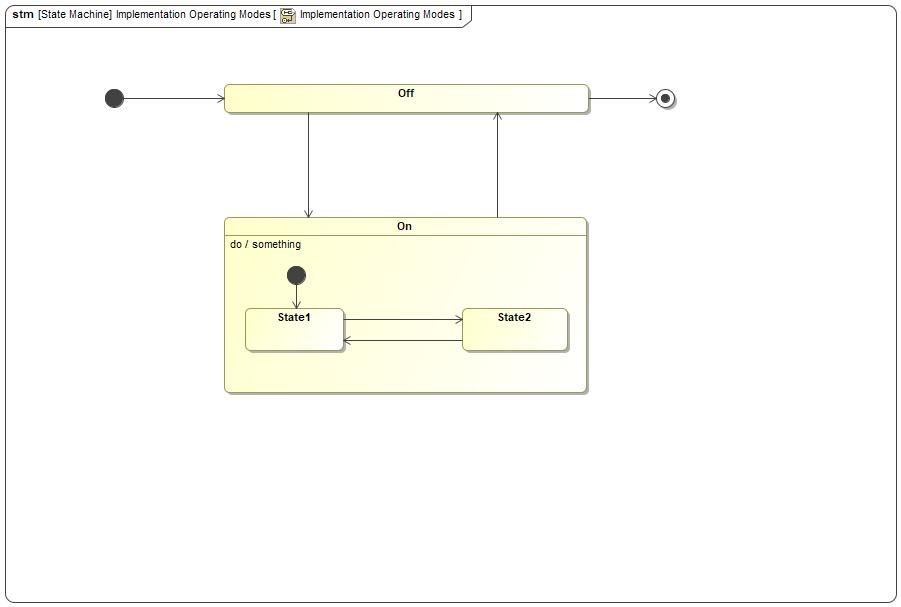


Figure 3: Implementation Operating Modes

|  |  |  |
| --- | --- | --- |
| **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 | On | Off |  |  |
| T3 | State1 | State2 |  |  |
| T4 | Off | a |  |  |
| T5 |  |  |  |  |
| T6 |  |  |  |  |
| T7 | State2 | State1 |  |  |

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

### Stowable Steering and Deployable Tray Physical

Stowable Steering and Deployable Tray Physical

### Tray Locking Solenoid

Tray Locking Solenoid

#### Technology Function -1237437582.jpg **Actuate Tray Locking Mechanism**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Actuate Tray Locking Mechanism

###### 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

### APIM

APIM

#### Technology Function -1052637271.jpg **Notify User to Low Sli SOC**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  SSW/DTT state | SSW/DTT state | | | Ssw/DttStateStat |  |  |
| Review in model  Battery State of charge | Battery State of charge | | | BattStateOfChrg |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Notify User to Low Sli SOC

###### 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 -1099215588.jpg **Display/Accept User State learn**

##### 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 -1099215588.jpg **Notify User reason of state Unavailability**

##### 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 -1099215588.jpg **Notify/Display to User SSW/DTT State**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Notify/Display to User SSW/DTT State

###### 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 -888972680.jpg **Receive User In Of Available State Selection**

##### 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  User Input | User Input | | | UserIn |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Receive User In Of Available State Selection

###### 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 -1590972344.jpg **Notify User of Successfull state position learned**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Notify User of Successfull state position learned

###### 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 68394456.jpg **Accept User Input of Available State Selection**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Accept User Input of Available State Selection

###### 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

IR-15 User Input

APIM shall convey to SCMB what mode user has requested via CAN

Satisfied by:

* Functions:
  + Accept User Input of Available State Selection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-15 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### Tray Load Sensor

Tray Load Sensor

#### Technology Function 1576232796.jpg **Sense Tray Overload**

##### 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

### Tray Position Sensor

Tray Position Sensor

#### Technology Function 1576232796.jpg **Provide Tray 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

(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

### Steering Column Mechanical Assembly

Steering Column Mechanical Assembly

### Instrument Panel Assembly

Instrument Panel Assembly

#### Technology Function 1576232796.jpg **Stow Tray Table**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Stow Tray Table

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Stow Tray Table

###### 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

IR-22 Stow Tray Table

SCMB shall command Tray Actuator( DC Motor) to stow the Tray Table before exiting work mode

Satisfied by:

* Functions:
  + Stow Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-22 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1507643902.jpg **Deploy Tray Table**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Deploy Tray Table

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Deploy Tray Table

###### 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

IR-23 Deploy Tray Table

SCMB shall command Tray Actuator( DC Motor) to stow the Tray Table when work mode is requested

Satisfied by:

* Functions:
  + Deploy Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-23 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1576232796.jpg **Provide Tray 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

(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 -1237437582.jpg **Actuate Tray Locking Mechanism**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Actuate Tray Locking Mechanism

###### 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

### Tray Table Mechanical Assembly

Tray Table Mechanical Assembly

### Vehicle

Vehicle

### Steering Column

Steering Column

### Tray Table Electrical Assembly

Tray Table Electrical Assembly

#### Technology Function 1576232796.jpg **Sense Tray Overload**

##### 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 -1967671323.jpg **Actuate Tray Movement**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input | input | | |  |  |  |
| Review in model  input1 | input1 | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Actuate Tray Movement

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Actuate Tray Movement

###### 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 1576232796.jpg **Provide Tray 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

(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 -1237437582.jpg **Actuate Tray Locking Mechanism**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Actuate Tray Locking Mechanism

###### 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 -1507643902.jpg **Deploy Tray Table**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Deploy Tray Table

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Deploy Tray Table

###### 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

IR-23 Deploy Tray Table

SCMB shall command Tray Actuator( DC Motor) to stow the Tray Table when work mode is requested

Satisfied by:

* Functions:
  + Deploy Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-23 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1576232796.jpg **Stow Tray Table**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Stow Tray Table

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Stow Tray Table

###### 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

IR-22 Stow Tray Table

SCMB shall command Tray Actuator( DC Motor) to stow the Tray Table before exiting work mode

Satisfied by:

* Functions:
  + Stow Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-22 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### SCMA

SCMA

#### Technology Function 101164384.jpg **Provide Seat 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  Current Seat Position | Current Seat Position | | | CurntSeatPos |  |  |
| [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 Seat 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 -1349632613.jpg **Store work state driver memory seat position**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Store work state driver memory seat position

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Store work state driver memory seat 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 -524661812.jpg **Store Rest State Driver Memory Seat Position**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Store Rest State Driver Memory Seat Position

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Store Rest State Driver Memory Seat 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 1178287386.jpg **Store Drive State Driver Memory Seat Position**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Store Drive State Driver Memory Seat Position

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Store Drive State Driver Memory Seat 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 695084163.jpg **Command Maneuver Driver Seat To Stored Position**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Command Maneuver Driver Seat To Stored Position

###### 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 -1877137959.jpg **Provide Steering Column 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  Steering Column Position | Steering Column Position | | | SteClmnPos |  |  |
| [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 Steering Column 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 372796072.jpg **Actuate Steering Column**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Actuate Steering Column

###### 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

SC Tele DC Motor specs

Brushed DC Motor for steering Column Tele movement shall require

1. Pulse Width Modulation (PWM) for motor speed control for various telescope adjustment speeds

➢ 22 mm/sec linear speed (100% duty cycle)

➢ 11 mm/sec linear speed (~50% duty cycle)

2. 2 wires (capability to reverse polarity to provide fore and aft movement)

➢ Power fore column movement

➢ Return aft column movement

➢ 13.8V Nominal (16V Max) 25A Max

Satisfied by:

* Functions:
  + Actuate Steering Column

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Shaffer, David (DSHAFF14) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### ECG

ECG

### Steering Wheel

Steering Wheel

### Tray Surface

Tray Surface

### ABS

ABS

#### Technology Function -1492468250.jpg **Provide Vehicle Speed**

##### 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  Vehicle Speed | Vehicle Speed | | | Veh\_V\_ActlBrk |  |  |
| [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 Vehicle Speed

###### 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

### RCM

RCM

#### Technology Function -763904469.jpg **Inhibit Driver Airbag**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Inhibit Driver Airbag

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Inhibit Driver Airbag

###### 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 372923205.jpg **Command Driver Airbag DisInhibit**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Command Driver Airbag DisInhibit

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Command Driver Airbag DisInhibit

###### 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

### SCMB

SCMB

#### Technology Function 271293811.jpg **Deploy Steering Column**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Deploy Steering Column

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Deploy Steering Column

###### 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 -468677530.jpg **Verify Availabilty of Work State**

##### 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

IR-17 Work state Availability

SCMB shall verify the availability of Work Mode when work mode requested

Satisfied by:

* Functions:
  + Verify Availabilty of Work State

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-17 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -468677530.jpg **Verify Availability of Rest State**

##### 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

IR-18 Rest state Availability

SCMB shall verify the availability of Rest Mode when Rest mode requested

Satisfied by:

* Functions:
  + Verify Availability of Rest State

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-18 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -468677530.jpg **Verify Availability of Drive State**

##### 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

IR-19 Drive state Availability

SCMB shall verify the availability of Drive state when Drive mode requested

Satisfied by:

* Functions:
  + Verify Availability of Drive State

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-19 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1844675415.jpg **Check Driver seat stored position reached**

##### 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 1844675415.jpg **Monitor Tray Obstruction**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Monitor Tray Obstruction

###### 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 -192843697.jpg **Publish SSW/DTT state**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Publish SSW/DTT state

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Publish SSW/DTT state

###### 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

IR-24 Publish SSW/DTT state

SCMB shall be responsible for sending APIM the current SSW/DTT information

Satisfied by:

* Functions:
  + Publish SSW/DTT state

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-24 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -290093910.jpg **Indicate Reason Of State Unavailability**

##### 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  Feature State Selection Signal | Feature State Selection Signal | | | FeatStateSelCmd |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Indicate Reason Of State Unavailability

###### 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

IR-16 Reason of state Unavailability

SCMB shall send APIM the information why the selected mode of operation is not available

Satisfied by:

* Functions:
  + Indicate Reason Of State Unavailability

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-16 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -546717340.jpg **Command Tray Table Deploy**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Command Tray Table Deploy

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Command Tray Table Deploy

###### 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 1855614898.jpg **Check Column Stored Position Reached**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Check Column Stored Position Reached

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Check Column Stored Position Reached

###### 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 -1413173348.jpg **Request Airbag Inhibit Release**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Request Airbag Inhibit Release

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Request Airbag Inhibit Release

###### 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 -1954830970.jpg **Request Locomotion Inhibit**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Request Locomotion Inhibit

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Request Locomotion Inhibit

###### 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 -360024215.jpg **Request Driver Airbag DisInhibit**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feature State Selection signal | Feature State Selection signal | | | FeatStateSelCmd |  |  |
| Review in model  Tray Table Deploy Status | Tray Table Deploy Status | | | TrayTableDeployStat |  |  |
| Review in model  Sttering Column Deploy Status | Sttering Column Deploy Status | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Request Driver Airbag DisInhibit

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Request Driver Airbag DisInhibit

###### 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 1035246835.jpg **Request Locomotion Inhibit Release**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feature State Selection Signal | Feature State Selection Signal | | | FeatStateSelCmd |  |  |
| Review in model  Tray Table Deploy Status | Tray Table Deploy Status | | | TrayTableDeployStat |  |  |
| Review in model  Driver Airbag Inhibit status | Driver Airbag Inhibit status | | | AirbagInhbtStat |  |  |
| Review in model  Steering Column Deploy Status | Steering Column Deploy Status | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Request Locomotion Inhibit Release

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Request Locomotion Inhibit Release

###### 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 823573496.jpg **store rest state column 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  stored column position rest | stored column position rest | | | StoredColumnPositionRest |  |  |
| Review in model  Stored Column Position status | Stored Column Position status | | | StoredColumnPositionStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function store rest state column 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 961179486.jpg **store work state comun 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  stored column posiition work | stored column posiition work | | | StoredColumnPositionWork |  |  |
| Review in model  Stored Column Position status | Stored Column Position status | | | StoredColumnPositionStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function store work state comun 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 404474130.jpg **Stow Steering Column**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Steering Column Tele position | Steering Column Tele position | | | SteClmnPos |  |  |
| Review in model  State Selection signal | State Selection signal | | | FeatStateSelCmd |  |  |
| Review in model  stored column position work | stored column position work | | | StoredColumnPositionWork |  |  |
| Review in model  stored column position rest | stored column position rest | | | StoredColumnPositionRest |  |  |
| Review in model  Inhibit status | Inhibit status | | | InhbtStat |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Stow Steering Column

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Stow Steering Column

###### 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 464167327.jpg **Unlock Tray Table**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Unlock Tray Table

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Unlock Tray Table

###### 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

IR-20 Unlock Tray Table

SCMB shall command Tray Locking solenoid to Unlock Tray Table when Work mode is requested

Satisfied by:

* Functions:
  + Unlock Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-20 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1271198198.jpg **Lock Tray Table**

##### 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  Tray Table Lock Command | Tray Table Lock Command | | | TrayTableLockCmd |  |  |
| Review in model  Tray Table Lock status | Tray Table Lock status | | | TrayTableLockStat |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Lock Tray Table

###### 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

IR-21 Lock Tray Table

SCMB shall command Tray Locking solenoid to Lock Tray Table before entering Drive Mode

Satisfied by:

* Functions:
  + Lock Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-21 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -594925764.jpg **check Inhibit Status**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function check Inhibit Status

###### Outputs

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

Table 5‑3: Output Signal mappings of Function check Inhibit 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

#### Technology Function 2107604784.jpg **Request Maneuver Driver Seat To Stored Position**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  State selection signal | State selection signal | | | FeatStateSelCmd |  |  |
| Review in model  Store seat position rest | Store seat position rest | | | StoredSeatMemoryPositonRest |  |  |
| Review in model  Store seat position work | Store seat position work | | | StoredSeatMemoryPositionWork |  |  |
| Review in model  Store seat position drive | Store seat position drive | | | StoredSeatMemoryPositionDrive |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Request Maneuver Driver Seat To Stored Position

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Request Maneuver Driver Seat To Stored 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 41081987.jpg **Store Drive State Column 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  Stored Column Position status | Stored Column Position status | | | StoredColumnPositionStatus |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑3: Output Signal mappings of Function Store Drive State Column 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 -778388776.jpg **Command Tray Table Stow**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Command Tray Table Stow

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Command Tray Table Stow

###### 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 2010679151.jpg **Check battery SOC**

##### 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 -1544204814.jpg **Check Vehicle Speed**

##### 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

### BCM

BCM

#### Technology Function -1544204814.jpg **Provide Battery SOC**

##### 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  Battery State of charge | Battery State of charge | | | BattStateOfChrg |  |  |
| [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 Battery SOC

###### 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

### Sliding Track

Sliding Track

### Tray Actuator

Tray Actuator

#### Technology Function -1967671323.jpg **Actuate Tray Movement**

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  input | input | | |  |  |  |
| Review in model  input1 | input1 | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | |

Table 5‑2: Input Signal mappings of Function Actuate Tray Movement

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Actuate Tray Movement

###### 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 -1507643902.jpg **Deploy Tray Table**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Deploy Tray Table

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Deploy Tray Table

###### 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

IR-23 Deploy Tray Table

SCMB shall command Tray Actuator( DC Motor) to stow the Tray Table when work mode is requested

Satisfied by:

* Functions:
  + Deploy Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-23 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1576232796.jpg **Stow Tray Table**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Stow Tray Table

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Stow Tray Table

###### 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

IR-22 Stow Tray Table

SCMB shall command Tray Actuator( DC Motor) to stow the Tray Table before exiting work mode

Satisfied by:

* Functions:
  + Stow Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-22 | | | | | | | |
| **Rationale** |  | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** |  | **Status** | In-Progress |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### BMS

BMS

#### Technology Function -1544204814.jpg **Provide Battery SOC**

##### 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  Battery State of charge | Battery State of charge | | | BattStateOfChrg |  |  |
| [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 Battery SOC

###### 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

### Rotating Arm

Rotating Arm

### PCM

PCM

#### Technology Function -1848037893.jpg **DisInhibit Locomotion**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function DisInhibit Locomotion

###### Outputs

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

Table 5‑3: Output Signal mappings of Function DisInhibit Locomotion

###### 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 -1872147820.jpg **Inhibit Locomotion**

##### Function Interfaces

###### Inputs

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

Table 5‑2: Input Signal mappings of Function Inhibit Locomotion

###### Outputs

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

Table 5‑3: Output Signal mappings of Function Inhibit Locomotion

###### 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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 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

|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |
| **VehicleConfig** | Configuration of the Feature and Vehicle Specific | Satisfies:  *No reqs. satisfied* |
| **LocomotionInhibitStatus** | Status of the Locomotion Inhibition | Satisfies:  *No reqs. satisfied* |
| **LocomotionRequest** | Request to Powertrain / Locomotion to Inhibit /Deinhibit | Satisfies:  *No reqs. satisfied* |
| **SteeringColumnPosition** | Position of the Steering Column provided by the steering column system | Satisfies:  *No reqs. satisfied* |
| **TrayPostionStatus** | Tray Position status is the feedback for Tray position given by Tray position Sensor | Satisfies:  *No reqs. satisfied* |
| **SeatPosition** | Current Seat Position from the Driver Seat System | Satisfies:  *No reqs. satisfied* |
| **HMIFeedback** | Feedback given to HMI | Satisfies:  *No reqs. satisfied* |
| **SeatMovementRequest** | Command to Move seat which goes to the Driver seat System | Satisfies:  *No reqs. satisfied* |
| **UserModeSelection** | Mode selection information from User | Satisfies:  *No reqs. satisfied* |
| **TrayLockStatus** | Tray lock status is given by Tray Lock sensor | Satisfies:  *No reqs. satisfied* |
| **VehicleStatus** | This Signal is the collectivity approval signal which includes Parking status, battery state of charge and Vehicle Speed | Satisfies:  *No reqs. satisfied* |
| **UserInput** | Input given by user through HMI | Satisfies:  *No reqs. satisfied* |
| **DriverAirbagRequest** | Request sent to the Driver Airbag system / Passive Restraint System for either Inhibit or Deinhibit | Satisfies:  *No reqs. satisfied* |
| **DriverAirbagInhibitStatus** | Status of the Driver Airbag Inhibition | Satisfies:  *No reqs. satisfied* |
| **SteeringColumnRequest** | Request to Move steering Column with respect to selected Mode | Satisfies:  *No reqs. satisfied* |

### Logical Parameters

### Technical Signals

|  |  |  |
| --- | --- | --- |
| **Signal Name** | **Description** | **Details** |
| **StoredColumnPositionStatus** | Status of storing Memory position for Steering Column | Satisfies:  *No reqs. satisfied* |
| **RequestLocomotionInhibitRelease** | Request to De Inhibit the Locomotion | Satisfies:  *No reqs. satisfied* |
| **Ssw/DttStateStat** | Current state of Feature | Satisfies:  *No reqs. satisfied* |
| **TrayTableLockStat** | Tray Table Lock status | Satisfies:  *No reqs. satisfied* |
| **UserIn** | User Input | Satisfies:  *No reqs. satisfied* |
| **Veh\_V\_ActlBrk** | Vehicle Velocity as seen by the brake | Satisfies:  *No reqs. satisfied* |
| **CurntClmPos** | Current steering Column position | Satisfies:  *No reqs. satisfied* |
| **MoveSteClmnTelescopeToDrvPos** | Command to Move steering Column to Drive position | Satisfies:  *No reqs. satisfied* |
| **CurntSeatPos** | Current seat position | Satisfies:  *No reqs. satisfied* |
| **InhbtStat** | Inhibit status after Locomotion status and Driver Airbag Inhibit status verified | Satisfies:  *No reqs. satisfied* |
| **StoredColumnPositionRest** | Memory position of steering Column in Rest mode | Satisfies:  *No reqs. satisfied* |
| **StoredSeatPositionStatus** | Seat Position status internal signal withing SCMB | Satisfies:  *No reqs. satisfied* |
| **BattStateOfChrg** | Battery state of Charge | Satisfies:  *No reqs. satisfied* |
| **TrayTableObstructionStat** | Tray Table obstruction status | Satisfies:  *No reqs. satisfied* |
| **TrayTableUnlockCmd** | Command signal to Unlock Tray | Satisfies:  *No reqs. satisfied* |
| **TrayTablePos** | Tray Table position | Satisfies:  *No reqs. satisfied* |
| **TrayTableDeployCmd** | Command signal to Deploy Tray | Satisfies:  *No reqs. satisfied* |
| **Ssw/DttStateScreenNotification** | signal containing the information to convey on HMI about the mode | Satisfies:  *No reqs. satisfied* |
| **BatterySOC\_Status** | High Voltage Battery state of charge ( A signal to be determined) | Satisfies:  *No reqs. satisfied* |
| **SeatPosMoveRq** | Request to Move Driver seat | Satisfies:  *No reqs. satisfied* |
| **UserScreenLowSliNotification** | Notification on User screen for Low sli | Satisfies:  *No reqs. satisfied* |
| **StoredColumnPositionWork** | Memory position for Steering Column at work mode | Satisfies:  *No reqs. satisfied* |
| **StoredSeatMemoryPositionWork** | Memory position for Driver seat at Work Mode | Satisfies:  *No reqs. satisfied* |
| **StoredColumnMemoryPositionDrive** |  | Satisfies:  *No reqs. satisfied* |
| **MoveSteClmTelescopeToSelectedPos** | Command to Move steering column to selected position | Satisfies:  *No reqs. satisfied* |
| **Tray/MtrLoad/ForceSensor** | Tray Load status | Satisfies:  *No reqs. satisfied* |
| **StoredSeatMemoryPositonRest** | Memory position for Driver seat at Rest Mode | Satisfies:  *No reqs. satisfied* |
| **FeatStateSelCmd** | State Selection signal | Satisfies:  *No reqs. satisfied* |
| **SteClmnPos** | Steering Column position | Satisfies:  *No reqs. satisfied* |
| **TrayTableLockCmd** | Command signal to Lock Tray | Satisfies:  *No reqs. satisfied* |
| **AirbagInhbtRq** | Request to Inhibit Airbag | Satisfies:  *No reqs. satisfied* |
| **RequestLocomotionInhibit** | Request to Inhibit the Locomotion | Satisfies:  *No reqs. satisfied* |
| **SeatPosMoveCmd** | Signal to Move seat with respect to the mode selected | Satisfies:  *No reqs. satisfied* |
| **LocomotionInhibitStat** | Inhibit status of Locomotion | Satisfies:  *No reqs. satisfied* |
| **CmdSteClmnRakeToDrvPos** | Command to Move steering Column to Drive Position | Satisfies:  *No reqs. satisfied* |
| **DrvrAirbagDisinhbtRq** | Request to De Inhibit the Airbag | Satisfies:  *No reqs. satisfied* |
| **AirbagInhbtStat** | Inhibit status of Driver Airbag | Satisfies:  *No reqs. satisfied* |
| **TrayTableDeployStat** | Tray Table Deploy status | Satisfies:  *No reqs. satisfied* |
| **TrayTableStowCmd** | Command signal to Stow Tray | Satisfies:  *No reqs. satisfied* |
| **SteClmnDeployAvail** | Availability of steering Column Deployment | Satisfies:  *No reqs. satisfied* |
| **CmdSteClmnRakeToSelectedPos** | Command to Move steering Column to Selected Position | Satisfies:  *No reqs. satisfied* |
| **StoredSeatMemoryPositionDrive** | Memory position for Driver seat at Drive Mode | Satisfies:  *No reqs. satisfied* |
| **PrkStat** | Vehicle Parking status | Satisfies:  *No reqs. satisfied* |
| **UserScreenNotification** | Screen notification on HMI for User | Satisfies:  *No reqs. satisfied* |

#### 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

#### RequestLocomotionInhibitRelease

Request to De Inhibit the Locomotion

#### UserModeSelectionFeedback

Feedback of User selection if tis failed or successfully selected

#### LocomotionInhibitStatus

Status of the Locomotion Inhibition

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| INHIBITED |  |
| DEINHIBTED |  |

#### SteeringColumnPosition

Position of the Steering Column provided by the steering column system

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| STOWED |  |
| DEPLOYED |  |

#### UserIn

User Input

#### HMIFeedback

Feedback given to HMI

#### TrayMoveRequest

Internal Request of Feature Controller to Move Tray Table

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| DEPLOY |  |
| STOW |  |

#### MoveSteClmnTelescopeToDrvPos

Command to Move steering Column to Drive position

#### TrayMoveCommand

Tray Move Command is the command signal which has various Tray Control requests in it.

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| DEPLOY |  |
| STOW |  |
| NONE |  |
| ABORT |  |
| LOCK |  |
| UNLOCK |  |

#### CurntSeatPos

Current seat position

#### TrayTableObstructionStat

Tray Table obstruction status

#### TrayTablePos

Tray Table position

#### SeatMovementStatusInternal

Status of the Seat movement according to the current position and external position

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| SEAT\_MOVED |  |
| SEAT\_FAILED\_TO\_MOVE |  |
| SEAT\_MOVING |  |

#### Ssw/DttStateScreenNotification

signal containing the information to convey on HMI about the mode

#### SeatPosMoveRq

Request to Move Driver seat

#### StoredColumnPositionWork

Memory position for Steering Column at work mode

#### Drivability Status

The logical signal which validates all systems component status and has the calculated the validity to enter into drive mode

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| ALLOW\_DC\_DEINHIBITION |  |
| DONT\_ALLOW\_DC\_DEINHIBITION |  |

#### MoveSteClmTelescopeToSelectedPos

Command to Move steering column to selected position

#### CurrentSeatPosition

Driver seat system sending the information of current seat position

#### StoredSeatMemoryPositonRest

Memory position for Driver seat at Rest Mode

#### SteClmnPos

Steering Column position

#### FeatStateSelCmd

State Selection signal

#### SeatPosition

Current Seat Position from the Driver Seat System

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| AT\_WORK |  |
| AT\_REST |  |
| AT\_DRIVE |  |
| AT\_PLAY |  |
| FAILED\_TO\_MOVE\_WORK |  |
| FAILED\_TO\_MOVE\_REST |  |
| FAILED\_TO\_MOVE\_DRIVE |  |
| FAILED\_TO\_MOVE\_PLAY |  |
| MOVING\_TO\_WORK |  |
| MOVING\_TO\_REST |  |
| MOVING\_TO\_DRIVE |  |
| MOVING\_TO\_PLAY |  |

#### SeatPosMoveCmd

Signal to Move seat with respect to the mode selected

#### RequestLocomotionInhibit

Request to Inhibit the Locomotion

#### UserModeSelection

Mode selection information from User

#### DrvrAirbagDisinhbtRq

Request to De Inhibit the Airbag

#### VehicleStatusValidity

This is the signal which contains the validity of the Vehicle status before Arbitrating into any Mode

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| VALID |  |
| INVALID |  |

#### CmdSteClmnRakeToDrvPos

Command to Move steering Column to Drive Position

#### UserInput

Input given by user through HMI

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| WORKMODE |  |
| RESTMODE |  |
| PLAYMODE |  |
| NONE |  |
| NOT\_AVAILABLE |  |
| RESET |  |
| DRIVEMODE |  |

#### TrayObstructionStatus

Status of any obstacles present on the Work Surface /Tray

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| OBSTACLE\_DETECTED |  |
| NO\_OBSTACLE\_DETECTED |  |
| FAILED\_TO\_DETECT\_OBSTACLE |  |

#### TrayTableStowCmd

Command signal to Stow Tray

#### Seat and Profile Status

#### ModeTransitionFeedback

Feature Mode transition feedback for user

#### DriverAirbagRequest

Request sent to the Driver Airbag system / Passive Restraint System for either Inhibit or Deinhibit

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| INHIBIT\_DRIVER\_AIRBAG\_REQUEST |  |
| DEINHIBIT\_DRIVER\_AIRBAG\_REQUEST |  |

#### CmdSteClmnRakeToSelectedPos

Command to Move steering Column to Selected Position

#### Seat Position request

#### HMIInsWar

HMI Instructions to Stow and Warning display if Tray is not pushed in properly

#### UserScreenNotification

Screen notification on HMI for User

#### VehicleConfig

Configuration of the Feature and Vehicle Specific

#### StoredColumnPositionStatus

Status of storing Memory position for Steering Column

#### Ssw/DttStateStat

Current state of Feature

#### Lock Vs Unlock

#### TrayStatus

This status is decided and fed by the Feature systems based on Requests and Input feedbacks fed

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| TRAY\_STOWED |  |
| TRAY\_FAILED\_TO\_STOW |  |
| TRAY\_DEPLOYED |  |
| TRAY\_FAILED\_TO\_DEPLOY |  |
| NOT\_APPLICABLE |  |
| TRAY\_LOCKED |  |
| TRAY\_UNLOCKED |  |
| TRAY\_FAILED\_TO\_LOCK |  |
| TRAY\_FAILED\_UNLOCK |  |
| OBSTACLE\_DETECTED |  |
| NO\_OBSTACLE\_DETECED |  |
| STOWING |  |
| DEPLOYING |  |
| LOCKING |  |
| UNLOCKING |  |

#### TrayTableLockStat

Tray Table Lock status

#### Veh\_V\_ActlBrk

Vehicle Velocity as seen by the brake

#### LocomotionRequest

Request to Powertrain / Locomotion to Inhibit /Deinhibit

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| INHIBIT\_LOCOMOTION\_REQUEST |  |
| DEINHIBIT\_LOCOMOTION\_REQUEST |  |

#### RetrieveSettings

Driver personalized settings stored by user earlier

#### InhibitStatus

Inhibit status of driver control which is verified by the feature systems

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| DC\_INHIBITED |  |
| DC\_FAILED\_TO\_INHIBIT |  |
| DC\_DEINHIBITED |  |
| DC\_FAILED\_TO\_DEINHIBIT |  |

#### CurntClmPos

Current steering Column position

#### UserPersonalizationRequest

Driver request of Personalization

#### InhbtStat

Inhibit status after Locomotion status and Driver Airbag Inhibit status verified

#### StoredColumnPositionRest

Memory position of steering Column in Rest mode

#### StoredSeatPositionStatus

Seat Position status internal signal withing SCMB

#### TrayLockStatus

Tray lock status is given by Tray Lock sensor

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| TRAY\_LOCKED |  |
| TRAY\_UNLOCKED |  |
| TRAY\_FAILED\_TO\_LOCK |  |
| TRAY\_FAILED\_TO\_UNLOCK |  |

#### Termination Signal

Logical signal for termination of Mode Arbitration when system did not act according to requests

#### TrayTableUnlockCmd

Command signal to Unlock Tray

#### BattStateOfChrg

Battery state of Charge

#### TrayTableDeployCmd

Command signal to Deploy Tray

#### DriverAirbagInhibitStatus

Status of the Driver Airbag Inhibition

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| INHIBITED |  |
| DEINHIBIT |  |

#### BatterySOC\_Status

High Voltage Battery state of charge ( A signal to be determined)

#### UserScreenLowSliNotification

Notification on User screen for Low sli

#### StoredSeatMemoryPositionWork

Memory position for Driver seat at Work Mode

#### SteeringColumnStatusInternal

Status of SteeringColumn based on Feature Decisions and current steering Column Position

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| STEERING\_COLUMN\_DEPLOYED |  |
| STEERING\_COLUMN\_FAILED\_TO\_DEPLOY |  |
| STEERING\_COLUMN\_STOWED |  |
| STEERING\_COLUMN\_FAILED\_TO\_STOW |  |

#### StoredColumnMemoryPositionDrive

#### StoreSettings

Driver intended settings for personalization

#### Tray/MtrLoad/ForceSensor

Tray Load status

#### ModeID

Mode which user requested to save the memory positions for

#### CauseOfFailure

Cause for which status is not appropriate in the vehicle to arbitrate the feature mode

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| TRAY\_OBSTRUCTION\_DETECTED |  |
| TRAY\_OVERLOAD\_DETECTED |  |

#### TrayTableLockCmd

Command signal to Lock Tray

#### TrayPostionStatus

Tray Position status is the feedback for Tray position given by Tray position Sensor

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| DEPLOYED |  |
| STOWED |  |
| FAILED\_TO\_DEPLOY |  |
| FAILED\_TO\_STOW |  |
| IN\_MOTION |  |

#### AirbagInhbtRq

Request to Inhibit Airbag

#### StateSelectionSignal

Signal which contains the Mode that User selected after the Vehicle status is Valid

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| WORK |  |
| PLAY |  |
| REST |  |
| DRIVE |  |

#### SeatMovementRequest

Command to Move seat which goes to the Driver seat System

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| WORK |  |
| REST |  |
| DRIVE |  |
| NONE |  |

#### ModeAcceptenceStatus

This signal contains the information whats not available in the vehicle configuration

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| TRAY\_UNAVAILABLE |  |
| OTHER |  |
| INVALID\_VEHICLE\_STATUS |  |
| DRIVE\_MODE\_SELECTED |  |
| WORK\_MODE\_SELECTED |  |
| REST\_MODE\_SELECTED |  |

#### LocomotionInhibitStat

Inhibit status of Locomotion

#### AirbagInhbtStat

Inhibit status of Driver Airbag

#### StateOfFeature

Current state of Feature and other warnings

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| WORK\_STATE\_ENTERED |  |
| FAILED\_TO\_ENTER\_WORK\_STATE |  |
| REST\_STATE\_ENTERED |  |
| FAILED\_TO\_ENTER\_REST\_STATE |  |
| PLAY\_STATE\_ENTERED |  |
| FAILED\_TO\_ENTER\_PLAY\_STATE |  |
| DRIVE\_STATE\_ENTERED |  |
| FAILED\_TO\_ENTER\_DRIVE\_STATE |  |
| REQUESTED\_MODE\_ARBITRATION\_TERMINATED |  |
| REQUESTED\_MODE\_NOT\_AVAILABLE |  |

#### VehicleStatus

This Signal is the collectivity approval signal which includes Parking status, battery state of charge and Vehicle Speed

#### TrayTableDeployStat

Tray Table Deploy status

#### SteClmnDeployAvail

Availability of steering Column Deployment

#### StoredSeatMemoryPositionDrive

Memory position for Driver seat at Drive Mode

#### PrkStat

Vehicle Parking status

#### SteeringColumnRequest

Request to Move steering Column with respect to selected Mode

##### Encoding values

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| DEPLOY |  |
| STOW |  |
| NONE |  |

Document ends here.