Stowable Steering and Deployable Tray

(GE2--MY2024)

(F002870)

|  |  |  |  |
| --- | --- | --- | --- |
| Document Type | **Feature Implementation Specification (FIS)** | |  |
| Template Version | **6.1a** | |  |
| SysML Report Template Version | **6.1a.1** | |  |
| Document ID |  | |  |
| Document Location |  | |  |
| Document Owner | **Tok Lau (TLAU4),John Moore (jmoor457), Murty Richard (O.) (RMURTY)** | |  |
| Document Revision | **FIS0** | |  |
| Document Status | **Draft** | |  |
| Date Issued | **2021/09/22** | |  |
| Date Revised | **2021/09/22** | |  |
| Document Classification | GIS1 Item Number: | **27.60/35** |  |
| GIS2 Classification: | **Confidential** |

|  |  |  |  |
| --- | --- | --- | --- |
| Document Approval | | | |
| Person | Role | Email Confirmation | Date |
|  |  |  |  |
|  |  |  |  |

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**Contents**

1 Introduction 6

1.1 Document Purpose 6

1.2 Document Scope 6

1.3 Document Audience 6

1.3.1 Stakeholder List 6

1.4 Document Organization 6

1.4.1 Document Context 6

1.4.2 Document Structure 6

1.5 Document Conventions 7

1.5.1 Requirements Templates 7

1.5.1.1 Identification of requirements 7

1.5.1.2 Requirement Attributes 7

2 Feature Implementation Overview 8

2.1 Description 8

2.2 Input Requirements 8

2.3 Assumptions 9

2.4 References 9

2.4.1 Ford Documents 9

2.4.2 External Documents and Publications 10

2.5 Glossary 10

2.5.1 Definitions 10

2.5.2 Abbreviations 11

3 Feature Implementation Architecture 12

3.1 Functional Architecture 12

3.1.1 Description 12

3.1.2 Function List 12

3.1.2.1 Functions of 13

3.1.2.2 Functions of 14

3.1.3 Signal List 14

3.2 Physical Architecture 18

3.2.1 E/E Architecture 18

3.2.1.1 E/E Architecture Variants 19

3.2.1.2 E/E Components 20

3.2.1.3 E/E Connections 20

3.2.1.4 Signal List 22

3.2.2 Software Component Architecture 22

3.2.2.1 Description 22

3.3 Function Deployment 22

3.3.1 Deployment Variants 23

3.3.1.1 Main (Only) variant 23

3.3.1.2 Deployment “Variant 1” 23

3.3.2 Function Allocation 24

3.3.2.1 Functional Safety 25

4 Feature Implementation Modeling 27

4.1 Component Interaction Diagrams 27

4.1.1 Scenario: “System Startup / Shutdown” 27

4.1.2 Scenario: “Normal Operation” 27

4.1.3 Functional Safety 28

4.1.3.1 Fault Handling Time Analysis 28

4.1.3.2 Requirements Derivation Diagram 29

4.2 Component Interface Behavior Diagrams 29

5 Feature Implementation Requirements 30

6 Open Concerns 31

7 Revision History 32

8 Appendix 33

8.1 Data Dictionary 33

8.1.1 Logical Signals 33

8.1.2 Logical Parameters 33

8.1.3 Technical Signals 33

8.1.3.1 GSDB Signals 34

8.1.3.2 Service Oriented Communication 34

8.1.3.3 Hardwired Signals 34

8.1.3.4 Diagnostic Interfaces 34

8.1.4 Technical Parameters 36

8.1.5 Mappings 36

8.1.6 Technical Interfaces 37

8.1.6.1 AIS Interfaces 37

8.1.6.2 Service Oriented Communcation (SoC) Interfaces 38

8.1.6.3 AUTOSAR Ports (SW Interfaces) 38

8.1.7 Messages 38

8.1.7.1 CAN Bus “<Bus Name>” 38

8.1.7.2 LIN Bus “<Bus Name>” 39

8.1.8 Encoding Types 39

**List of Figures**

Figure 1: 21

Figure 2:  24

Figure 3: 30

**List of Tables**

Table 1‑1: Electrical Architecture(s) referenced in this document 6

Table 1‑2: Functions referenced in this document 6

Table 2‑1: Ford Internal Documents 10

Table 2‑2: Ford Internal Documents *(not specified in SysML model)* 11

Table 2‑3: External Documents and Publications 11

Table 2‑4: External Documents and Publications *(not specified in SysML model)* 11

Table 2‑5: Definitions Used In This Document 12

Table 2‑6: Abbreviations used in this document 12

Table 3‑1: List of Functions 15

Table 3‑2: List of ‑‑ Functions 15

Table 3‑3 List of signals sent by 18

Table 3‑4 List of signals received by 19

Table 3‑5: Electrical Components 21

Table 3‑6: E/E Connections for 23

Table 3‑7: Function Allocation Table 26

Table 3‑8: Function Allocation Table 27

Table 3‑9: Architectural Redundancy Summary 27

Table 4‑1: Fault Handling Time Table 30

Table 5‑1: Input Signal mappings of ‑ 34

Table 5‑2: Output Signal mappings of ‑ 35

Table 5‑3: Parameter mappings of ‑ 36

Table 5‑4: Component Specific Requirements 37

Table 5‑5: Inherited Requirements 37

Table 5‑6: Input Signal mappings of ‑ 39

Table 5‑7: Output Signal mappings of ‑ 40

Table 5‑8: Parameter mappings of ‑ 40

Table 5‑9: Component Specific Requirements 40

Table 5‑10: Inherited Requirements 40

Table 5‑11: Input Signal mappings of Component: ‑ 41

Table 5‑12: Output Signal mappings of Component: ‑ 42

# 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 Stowable Steering and Deployable Tray to the following electrical architecture(s):

*No Electrical Architecture found.*

## Document Audience

The FIS is authored by **Tok Lau (TLAU4),John Moore (jmoor457), Murty Richard (O.) (RMURTY)** . 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>.

## 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.

No Ford documents specified in model.

### 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 | https://en.wikipedia.org/wiki/Concept |

Table 1‑3: External documents and publications

## Glossary

### Definitions

| **Definition** | **Description** |
| --- | --- |
| ABS | Automatic Breaking System |
| Another Three Letter Acronym | self explanatory |
| APIM | Accessory Protocol Interface Module (SYNC) |
| BCM | Body Control Module |
| BMS | Battery Management System |
| concept | An abstract idea representing fundamental characteristics of its representation. Concepts are perceptions of an object, its characteristics (i.e., structural and behavioral), and its relationship(s) to another object(s). |
| controlled vocabulary | an organized arrangement of words and phrases used to index content and/or to retrieve content through browsing or searching. It typically includes preferred and variant terms and has a defined scope or describes a specific domain. |
| controlled vocabulary term | An element of a controlled vocabulary |
| 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 |
| PinchProtectionDistance | Reverse Distance of the Components for reverse Pinching |
| 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) |
| vocabulary | A set of terms, each representing a single concept in a Domain of Discourse. A fundamental tool for communication and creating a common understanding of a Domain. |
| vocabulary Term | An abstraction, in the form of a natural language expression, representing a concept existing in the Ontology of a Domain of Discourse |
| 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

Stowable Steering and Deployable Tray Physical

Physical Feature Realization of Feature

## 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 2‑1: Input Requirements/Documents

## Lessons Learned

1. PAC Number:2C799: V 191- Bosch wiper failure: Software logic needs to be verify when performing harware change.
2. PAC Number:15S10: Motor Wiper Table: Need to ensure electrons are designed to prevent water intrusion. High current draw circuits need to have the ability to turn off in the event of a short condition.
3. PAC Number:15U29: Steering Column Wiring Chafe: Wiring that goes over moving parts needs to be ensure to have proper length to avoid interference.
4. PAC Number:16S02: Kuga - 2016MY - 2.5L iVCT Electrical Steering Column Lock: Need to consider deterioration of the steering wheel positioning mechanicism.

## Assumptions

No Assumptions specified.

# Feature Implementation Architecture

## Functional Architecture

### Description

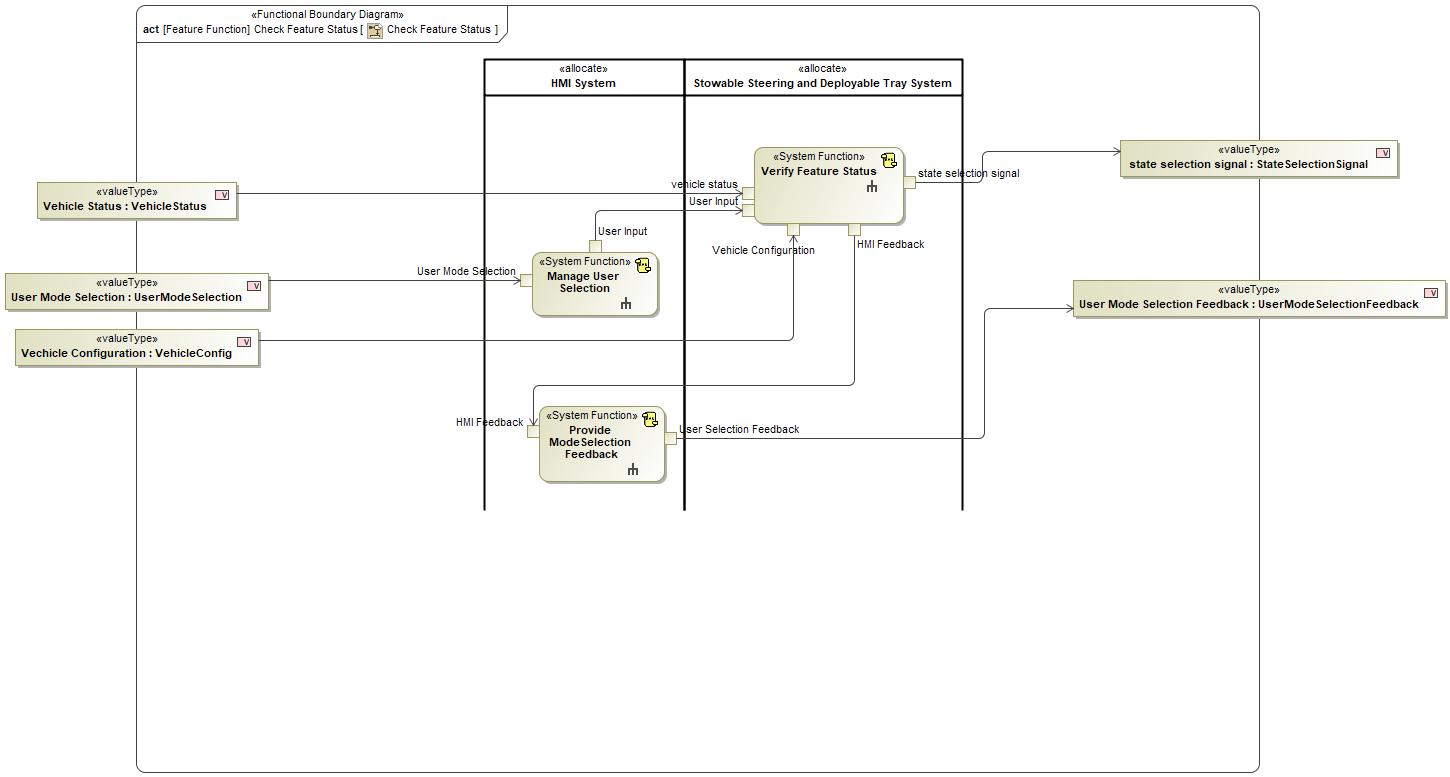


Figure 3‑1: Check Feature Status

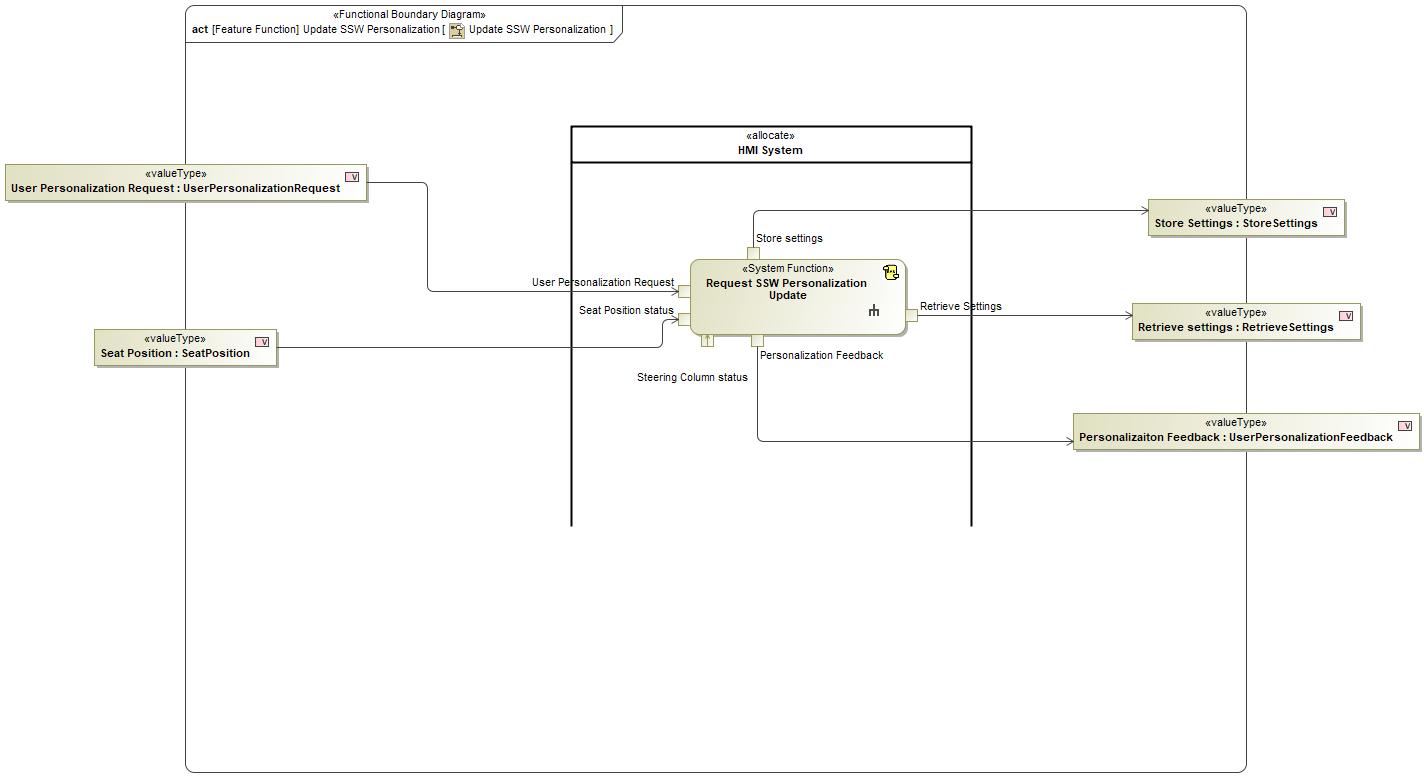


Figure 3‑1: Update SSW Personalization

### 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 |
| --- | --- | --- |
|  | (action) Manage User Selection | System Function responsible for managing User Selection |
|  | (action) Provide ModeSelection Feedback | System function responsible for providing user about the mode selection |
|  | (action) Verify Feature Status | This Function verifies the User Input , vehicle Status and Vehicle Configuration and provides State Selection signal and HMI Feedback |

Table 3‑2: List of Functions on Check Feature Status

| **Function ID** | Function Name | Function Description |
| --- | --- | --- |
|  | (action) Request SSW Personalization Update | System Function responsible for requesting an Update for Personalization in seat and steering column |

Table 3‑2: List of Functions on Update SSW Personalization

### Signal List

|  |  |
| --- | --- |
| **Signal Name** | **Description** |
| **DriverAirbagInhibitStatus** | Status of the Driver Airbag Inhibition |
| **DriverAirbagRequest** | Request sent to the Driver Airbag system / Passive Restraint System for either Inhibit or Deinhibit |
| **HMIFeedback** | Feedback given to HMI |
| **LocomotionInhibitStatus** | Status of the Locomotion Inhibition |
| **LocomotionRequest** | Request to Powertrain / Locomotion to Inhibit /Deinhibit |
| **SeatMovementRequest** | Command to Move seat which goes to the Driver seat System |
| **SeatPosition** | Current Seat Position from the Driver Seat System |
| **SteeringColumnRakePosition** | Steering Column Position in Rake Position |
| **SteeringColumnRequest** | Request to Move steering Column with respect to selected Mode |
| **SteeringColumnTelePosition** | Steering Column Position in Tele Position |
| **TrayLockStatus** | Tray lock status is given by Tray Lock sensor |
| **TrayPostionStatus** | Tray Position status is the feedback for Tray position given by Tray position Sensor |
| **UserInput** | Input given by user through HMI |
| **UserModeSelection** | Mode selection information from User |
| **VehicleConfig** | Configuration of the Feature and Vehicle Specific |
| **VehicleStatus** | This Signal is the collectivity approval signal which includes Parking status, battery state of charge and Vehicle Speed |

Table 3‑3: List of Logical Signals

## Physical Architecture

### E/E Architecture

#### E/E Architecture Variants

*No E/E Architecture Variant found.*

##### E/E Architecture “Architecture Variant: Technical Block Diagram “

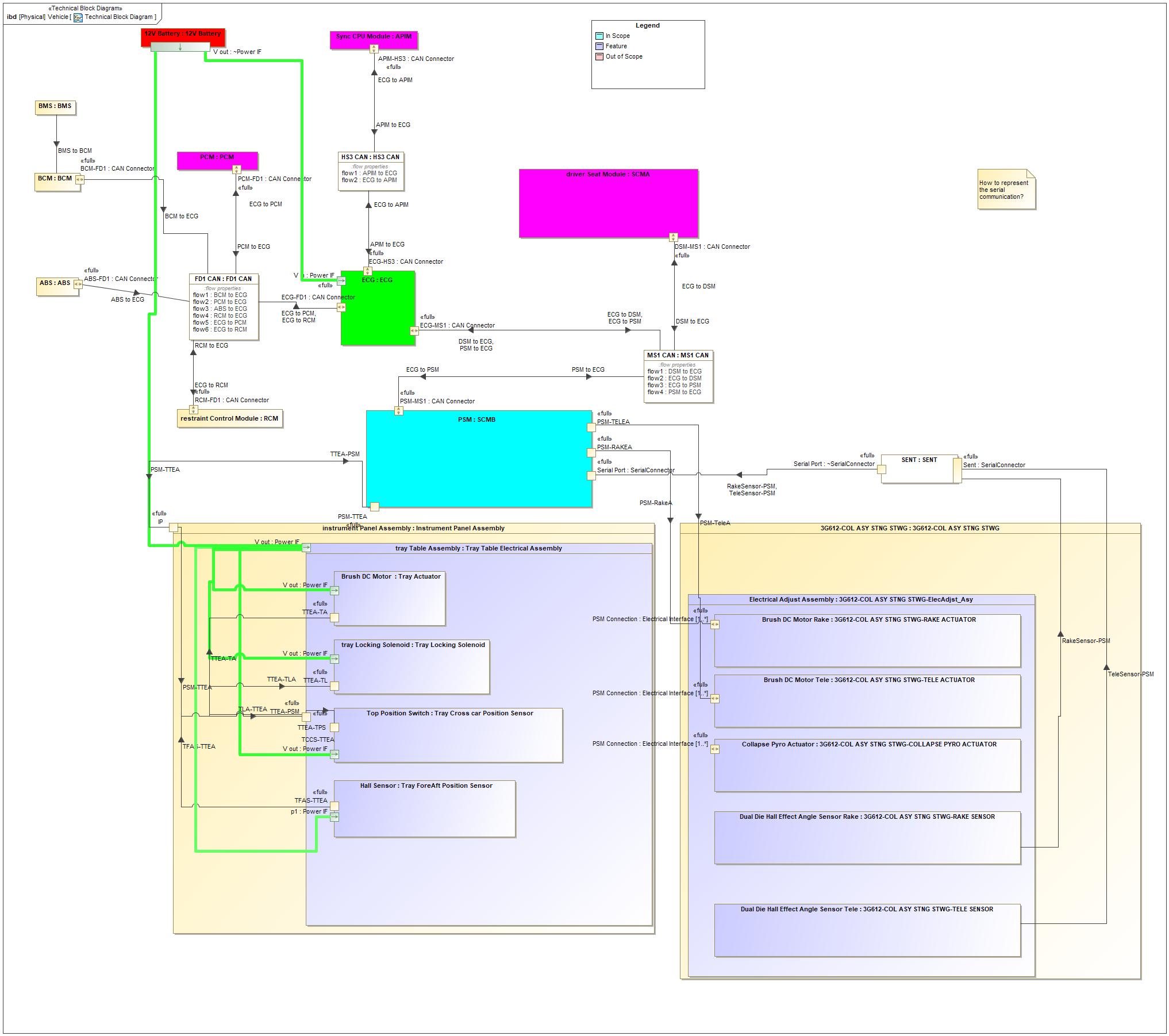


Figure 3‑2-1: Technical Block Diagram

#### E/E Components

|  |  |
| --- | --- |
| Component Name | **Description** |
| 3G612-COL ASY STNG STWG | GE2 Stowable Steering Column |
| 12V Battery | Battery Supply for the all sensors and Actuators |
| ABS | Automatic Breaking System |
| BCM | Body Control Module |
| BMS | Battery Management System |
| Brush DC Motor (Tray Actuator) | Motor or Gas spring responsible for Tray Movement |
| Brush DC Motor Rake (3G612-COL ASY STNG STWG-RAKE ACTUATOR) |  |
| Brush DC Motor Tele (3G612-COL ASY STNG STWG-TELE ACTUATOR) |  |
| Collapse Pyro Actuator (3G612-COL ASY STNG STWG-COLLAPSE PYRO ACTUATOR) |  |
| driver Seat Module (SCMA) | Driver seat Module A or DSM |
| Dual Die Hall Effect Angle Sensor Rake (3G612-COL ASY STNG STWG-RAKE SENSOR) | Interfaces not defined because the block is only used to define the composition of an existing block. |
| Dual Die Hall Effect Angle Sensor Tele (3G612-COL ASY STNG STWG-TELE SENSOR) | Interfaces not defined because the block is only used to define the composition of an existing block. |
| ECG | Enhanced Central Gateway |
| Electrical Adjust Assembly (3G612-COL ASY STNG STWG-ElecAdjst\_Asy) |  |
| FD1 CAN | Full depth communication bus for CAN |
| Hall Sensor (Tray ForeAft Position Sensor) | Sensor to detect the Tray Table foreAft Position |
| 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 |
| PSM (SCMB) | Driver seat Module B or Passenger Seat Module |
| restraint Control Module (RCM) | Restraint Control Module |
| SENT | SENT Communication Protocol |
| Sync CPU Module (APIM) | Accessory Protocol Interface Module |
| Top Position Switch (Tray Cross car Position Sensor) | Sensor for detecting the Cross car position of Tray |
| tray Locking Solenoid (Tray Locking Solenoid) | Solenoid responsible for Locking and Unlocking the Tray |
| tray Table Assembly (Tray Table Electrical Assembly) | Electrical Assembly for all sensors and Actuators in the Tray Assembly |

Table 3‑6: Electrical Components

#### E/E Connections

*No E/E Connections found.*

#### Signal List

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

Table 3‑8: List of Technical Signals

### Software Component Architecture

*Not supported by MagicDraw report generation.*

#### Description

*Not supported by MagicDraw report generation.*

## Function Deployment

### Deployment Variants

*Not supported by MagicDraw report generation.*

#### Deployment Vehicle System Behavior

This deployment variant … <add some explanatory text here>

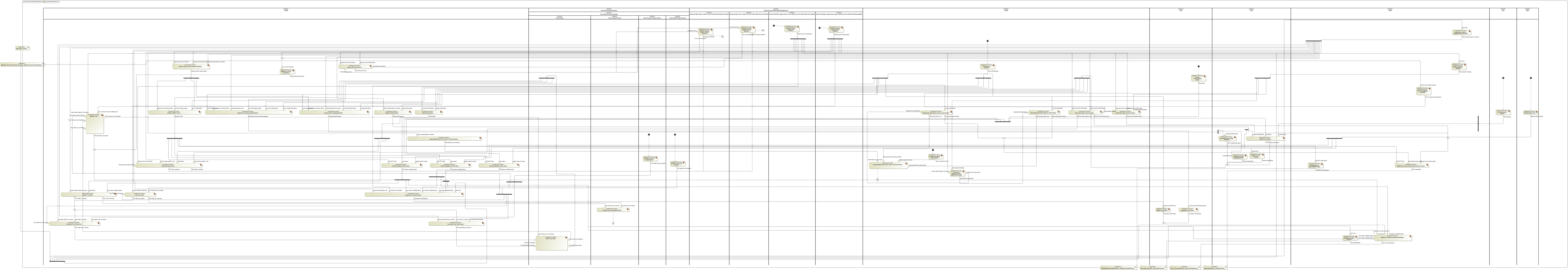


Figure 3‑3: Vehicle System Behavior

### Function Allocation

| Component | Technology Function Name | Logical Function Name |
| --- | --- | --- |
|
| BCM | Provide Battery SOC | *No logical function allocated* |
| ABS | Provide Vehicle Speed | *No logical function allocated* |
| Instrument Panel Assembly | Stow Tray Table | *No logical function allocated* |
| Deploy Tray Table | *No logical function allocated* |
| Provide Cross car Tray Position | * Provide Tray Position |
| Move Tray Table | *No logical function allocated* |
| Provide ForAft Tray position | *No logical function allocated* |
| Actuate Tray Locking Mechanism | * Actuate Tray Locking * Provide Tray Lock status |
| Tray Actuator | Stow Tray Table | *No logical function allocated* |
| Deploy Tray Table | *No logical function allocated* |
| Move Tray Table | *No logical function allocated* |
| Tray ForeAft Position Sensor | Provide ForAft Tray position | *No logical function allocated* |
| PCM | Provide Transmission status | *No logical function allocated* |
| Inhibit Locomotion | *No logical function allocated* |
| DisInhibit Locomotion | *No logical function allocated* |
| Tray Locking Solenoid | Actuate Tray Locking Mechanism | * Actuate Tray Locking * Provide Tray Lock status |
| APIM | Accept User Input of CC Tray Manual OverRide | *No logical function allocated* |
| Notify User reason of state Unavailability | *No logical function allocated* |
| Display User State Selection | *No logical function allocated* |
| Accept User Input of Available State Selection | *No logical function allocated* |
| Notify User of Successfull state position learned | *No logical function allocated* |
| Accept User Input of Peronalization settings | *No logical function allocated* |
| Notify User to Low Sli SOC | * Provide HMI Feedback |
| Notify/Display to User SSW/DTT State | *No logical function allocated* |
| RCM | Command Farside Airbag DisInhibit | *No logical function allocated* |
| Command Driver Airbag DisInhibit | *No logical function allocated* |
| Inhibit Farside Airbag | *No logical function allocated* |
| Inhibit Driver Airbag | *No logical function allocated* |
| Tray Cross car Position Sensor | Provide Cross car Tray Position | * Provide Tray Position |
| SCMB | Monitor Tray | * Provide Tray Obstruction Status |
| Command Tray Table Deploy | * Request Tray Deployment * Control Tray Functionality |
| Deploy Steering Column | * Request SteeringColumn Deployment * Control Steering Column Functionality |
| Request Locomotion Inhibit | * Request Locomotion Disabling |
| Verify Availability of Drive State | * Evaluate Drivability status * Check vehicle status |
| Unlock Tray Table | * Request Tray Unlock |
| Request Maneuver Driver Seat To Stored Position | * Request to Move Seat |
| Lock Tray Table | * Request Tray Lock * Control Tray Functionality |
| check Inhibit Status | * Check Inhibit status |
| Verify Availability of Rest State | * Check vehicle status |
| Request Airbag Inhibit | * Request Airbag Disabling |
| Check battery SOC | *No logical function allocated* |
| Check Driver seat stored position reached | * Check Seat position |
| Stow Steering Column | * Request SteeringColumn Stowing * Control Steering Column Functionality |
| Monitor SC Pinch protection | *No logical function allocated* |
| Request Driver Airbag DisInhibit | * Request Airbag Enabling |
| Verify Availabilty of Work State | * Check vehicle status |
| Publish SSW/DTT state | *No logical function allocated* |
| Check Vehicle Speed | *No logical function allocated* |
| Command Tray Table Stow | * Provide Tray Stow Instructions * Control Tray Functionality |
| Request Locomotion Inhibit Release | * Request Locomotion Enabling |
| store rest state column position | * Store SteeringColumn Memory Position |
| Check Column Stored Position Reached | *No logical function allocated* |
| SCMA | Command Maneuver Driver Seat To Stored Position | *No logical function allocated* |
| Provide Steering Column Position | *No logical function allocated* |
| store work state comun position | * Store SteeringColumn Memory Position |
| Command Maneuver Driver Seat to Personalize | *No logical function allocated* |
| Store work state driver memory seat position | *No logical function allocated* |
| Provide Seat Position | *No logical function allocated* |
| Store Drive State Column Position | * Store SteeringColumn Memory Position |
| Provide Drive Mode 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 |
| Tray Table Electrical Assembly | Stow Tray Table | *No logical function allocated* |
| Deploy Tray Table | *No logical function allocated* |
| Provide Cross car Tray Position | * Provide Tray Position |
| Move Tray Table | *No logical function allocated* |
| Provide ForAft Tray position | *No logical function allocated* |
| Actuate Tray Locking Mechanism | * Actuate Tray Locking * Provide Tray Lock status |
| BMS | Provide Battery SOC | *No logical function allocated* |

Table 3‑9: Function Allocation Table (Basic)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Component | | Technology Function Name | TSR | |
| Name | ASIL |  | ID | ASIL |

Table 3‑10: Function Allocation Table (Functional Safety Extension)

# Feature Implementation Modeling

## Component Interaction Diagrams

### Scenario: “System Startup / Shutdown”

*Not supported by MagicDraw report generation.*

### Scenario: “Normal Operation”

*Not supported by MagicDraw report generation.*

## Component Interface Behavior Diagrams

*Not supported by MagicDraw report generation.*

*See Appendix Section 8.1.9 for Technology State Machines*

# 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 a 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 265766304.jpg Actuate Tray Locking Mechanism

Function responsible for Lock / Unlock the Tray table and Send the Lock status

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Actuate Tray Locking Mechanism | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Lock Command  TrayMoveCommand | Tray Table Lock Command :  TrayTableLockCmd | | |  |  |  |
| Review in model  Tray Table Unlock Command  TrayMoveCommand | Tray Table Unlock Command :  TrayTableUnlockCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

(No outputs have been defined)

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-28 Actuate Tray Locking Mechanism

Actuate Tray Locking Mechanism shall Lock Tray Table when received TrayTableLockCmd

Satisfied by:

* Functions:
  + Actuate Tray Locking Mechanism

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-28 | | | | | | | |
| **Rationale** | To lock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-29 Actuate Tray Unlocking Mechanism

Actuate Tray Locking Mechanism shall Unlock Tray Table when received TrayTableUnlockCmd

Satisfied by:

* Functions:
  + Actuate Tray Locking Mechanism

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-29 | | | | | | | |
| **Rationale** | To Unlock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### APIM

APIM

#### Technology Function 265766304.jpg Notify User to Low Sli SOC

Indicate Low sli State of Charge Warning

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Notify User to Low Sli SOC | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  SSW/DTT state  StateOfFeature | SSW/DTT state :  StwblStewMde\_D\_Stat | | |  |  |  |
| Review in model  Battery State of charge  VehicleStatus | Battery State of charge :  BattStateOfChrg | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Notify User to Low Sli SOC | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  User screen SLI notification  HMIFeedback | User screen SLI notification :  UserScreenLowSliNotification | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Notify User to Low Sli 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-25 User low sli notification

APIM shall convey user Notification for Low SLI SOC if the Battery SOC alert signal is received when the User tries to transit the mode of operation

Satisfied by:

* Functions:
  + Notify User to Low Sli SOC

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-25 | | | | | | | |
| **Rationale** | To display User Battery SOC | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1331309075.jpg Display User State Selection

Display the User accept user state learn mode of operation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Display User State Selection | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  User Input  UserInput | User Input :  UserIn | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Display User State Selection | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  User state selection  HMIFeedback | User state selection :  UserStateSelection | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Display User 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-33 Display Selected Mode

APIM shall convey user what mode of Feature Mode of operation he selected

Satisfied by:

* Functions:
  + Display User State Selection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-33 | | | | | | | |
| **Rationale** | To let User know what he selected | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 2 - Medium | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1331309075.jpg Notify User reason of state Unavailability

Notifying the User why the selected state is not Available

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Notify User reason of state Unavailability | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  User Input  UserInput | User Input :  UserIn | | |  |  |  |
| Review in model  Work state Availability status  HMIFeedback | Work state Availability status :  WorkStateAvailabilityStatus | | |  |  |  |
| Review in model  Drive State Availability status  HMIFeedback | Drive State Availability status :  DriveStateAvaiStatus | | |  |  |  |
| Review in model  Rest state Availability status  HMIFeedback | Rest state Availability status :  RestStateAvailabilityStatus | | |  |  |  |
| Review in model  Display Tray Table Instructions  HMIInsWar | Display Tray Table Instructions :  DisplayFeatureInstructions | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Notify User reason of state Unavailability

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Notify User reason of state Unavailability | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  User Screen Notification  HMIFeedback | User Screen Notification :  UserScreenNotification | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Notify User 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-16 Reason of state Unavailability

APIM shall convey the information to user why the selected mode of operation is not available

Provided that it will receive the Availability status of all 3 modes

Satisfied by:

* Functions:
  + Notify User reason of state Unavailability

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-16 | | | | | | | |
| **Rationale** | To Notify user why the mode selected is not available | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -563469344.jpg Notify/Display to User SSW/DTT State

Display state of feature

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Notify/Display to User SSW/DTT State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  SSW/DTT State Status  StateOfFeature | SSW/DTT State Status :  StwblStewMde\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Notify/Display to User SSW/DTT State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  SSW/DttScreenNotification  ModeTransitionFeedback | SSW/DttScreenNotification :  SSW/DttScreenNotification | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Notify/Display to User 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-26 User Screen Notification

APIM shall convey the user with a notification of the current state of Feature(Work/Drive/Rest)

Satisfied by:

* Functions:
  + Notify/Display to User SSW/DTT State

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-26 | | | | | | | |
| **Rationale** | To display User Current State of Feature | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -563469344.jpg Notify User of Successfull state position learned

Notifying the user of successful arbitration of mode he requested

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Notify User of Successfull state position learned | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Stored Column Position status  SteeringColumnStatus | Stored Column Position status :  StoredColumnPositionStatus | | |  |  |  |
| Review in model  Stored Seat Position Status  SeatMovementStatusInternal | Stored Seat Position Status :  SeatPosSavDrv\_B\_Stat | | |  |  |  |
| Review in model  SSW/DTT state  StateOfFeature | SSW/DTT state :  StwblStewMde\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Notify User of Successfull state position learned | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Learn Notiifcation  UserPersonalizationFeedback | Learn Notiifcation :  LearnNotificaiton | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Notify User of Successfull state position learned

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-32 Position Learn Notification

APIM shall convey User about the success state of the new positions user tried to edit for desire mode

Satisfied by:

* Functions:
  + Notify User of Successfull state position learned

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-32 | | | | | | | |
| **Rationale** | To let USer know if he succeded in learning new positions for steering Column and Driver seat | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 2 - Medium | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -563469344.jpg Accept User Input of Available State Selection

Component Function responsible for accepting the user input

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Accept User Input of Available State Selection | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  User Input  UserInput | User Input :  UserIn | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Accept User Input of Available State Selection | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Feature state Selection Command  StateSelectionSignal | Feature state Selection Command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Accept User Input 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-15 User Input

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

Satisfied by:

* Functions:
  + Accept User Input of Available State Selection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-15 | | | | | | | |
| **Rationale** | Function within APIM that accepts the User Input of Available Feature Modes | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-27 User screen selection

APIM shall allow user to select his desired Feature mode of operation

Satisfied by:

* Functions:
  + Accept User Input of Available State Selection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-27 | | | | | | | |
| **Rationale** | To Accept User Input of Selection | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-41 Abort Mode Transition

APIM shall convey PSM if User intends to abort the mode transition for any reason

Satisfied by:

* Functions:
  + Accept User Input of Available State Selection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-41 | | | | | | | |
| **Rationale** | To Abort the transiiton in between if User intends | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1345439884.jpg Accept User Input of Peronalization settings

Component Function responsible for Accepting User Input for Personalization settings

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Accept User Input of Peronalization settings | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  User Input  UserInput | User Input :  UserIn | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Accept User Input of Peronalization settings

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Accept User Input of Peronalization settings | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Personalization settings  UserPersonalizationRequest | Personalization settings :  Personalization settings | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Accept User Input of Peronalization settings

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-31 Accept Personalization settings

APIM shall allow user to change his personalization settings for seat and steering column for his desired mode as he esired

Satisfied by:

* Functions:
  + Accept User Input of Peronalization settings

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-31 | | | | | | | |
| **Rationale** | To allow user to change the stored Positions of steering Column and Seat for Different Modes | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Pakala, Sankeerth Reddy (S.) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1345439884.jpg Accept User Input of CC Tray Manual OverRide

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Accept User Input of CC Tray Manual OverRide | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  CC Manual OverRide UserInput | CC Manual OverRide UserInput :  ManualCrossCarOverRideInput | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Accept User Input of CC Tray Manual OverRide

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Accept User Input of CC Tray Manual OverRide | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray CC Manual Override signal  UserInput  ABORT  DRIVEMODE  NONE  NOT\_AVAILABLE  RESET  RESTMODE  TRAY\_MANUAL\_OVERIDE  WORKMODE | Tray CC Manual Override signal :  TrayCrossCarManualOverRide | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Accept User Input of CC Tray Manual OverRide

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

### Tray Load Sensor

Tray Load Sensor

### Tray Cross car Position Sensor

Tray Cross car Position Sensor

#### Technology Function -1345439884.jpg Provide Cross car Tray Position

Component Function in Tray Table Cross Car Sensor to provide Tray Table cross car position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Cross car Tray Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table pos  TrayPostionStatus | Tray Table pos :  TrayTableCrossCarPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide Cross car Tray 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-6 Cross Car Tray position

Provide Cross car Tray Position function shall provide TrayTableCrossCarPos constantly

Satisfied by:

* Functions:
  + Provide Cross car Tray Position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-6 | | | | | | | |
| **Rationale** | This Function Providing Cross Car Tray Position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### Steering Column Mechanical Assembly

Steering Column Mechanical Assembly

### Instrument Panel Assembly

Instrument Panel Assembly

#### Technology Function -1528200827.jpg Stow Tray Table

Tray Table Function responsible for Moving Tray Table

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Stow Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table stow command  TrayMoveCommand | Tray Table stow command :  TrayTableStowCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Stow Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1528200827.jpg Deploy Tray Table

Component Function of tray table motor / actuator for deploying the tray table

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Deploy Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Deploy Table command  TrayMoveCommand | Deploy Table command :  TrayTableDeployCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Deploy Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1345439884.jpg Provide Cross car Tray Position

Component Function in Tray Table Cross Car Sensor to provide Tray Table cross car position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Cross car Tray Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table pos  TrayPostionStatus | Tray Table pos :  TrayTableCrossCarPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide Cross car Tray 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-6 Cross Car Tray position

Provide Cross car Tray Position function shall provide TrayTableCrossCarPos constantly

Satisfied by:

* Functions:
  + Provide Cross car Tray Position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-6 | | | | | | | |
| **Rationale** | This Function Providing Cross Car Tray Position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 265766304.jpg Actuate Tray Locking Mechanism

Function responsible for Lock / Unlock the Tray table and Send the Lock status

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Actuate Tray Locking Mechanism | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Lock Command  TrayMoveCommand | Tray Table Lock Command :  TrayTableLockCmd | | |  |  |  |
| Review in model  Tray Table Unlock Command  TrayMoveCommand | Tray Table Unlock Command :  TrayTableUnlockCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

(No outputs have been defined)

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-28 Actuate Tray Locking Mechanism

Actuate Tray Locking Mechanism shall Lock Tray Table when received TrayTableLockCmd

Satisfied by:

* Functions:
  + Actuate Tray Locking Mechanism

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-28 | | | | | | | |
| **Rationale** | To lock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-29 Actuate Tray Unlocking Mechanism

Actuate Tray Locking Mechanism shall Unlock Tray Table when received TrayTableUnlockCmd

Satisfied by:

* Functions:
  + Actuate Tray Locking Mechanism

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-29 | | | | | | | |
| **Rationale** | To Unlock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1261545447.jpg Move Tray Table

Function in Actuator responsible for Tray Table Actuation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Move Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Table Stow command  TrayMoveCommand | Table Stow command :  TrayTableStowCmd | | |  |  |  |
| Review in model  Tray table Deploy command  TrayMoveCommand | Tray table Deploy command :  TrayTableDeployCmd | | |  |  |  |
| Review in model  Tray Cross car over ride Pulse | Tray Cross car over ride Pulse :  ManualOverRideCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Move Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy status  TrayPostionStatus | Tray Table Deploy status :  TrayTableDeployStat | | |  |  |  |
| Review in model  Tray OverCurrent Detection | Tray OverCurrent Detection :  Tray\_OverCurrentDetection | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Move 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-5 Tray Movement Stowing

when Move Tray Table function receives TrayTableStowCmd it shall move the Tray table to stowed position provided that the Tray is in the center position

Satisfied by:

* Functions:
  + Move Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-5 | | | | | | | |
| **Rationale** | Tray Tabel Stowing | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-38 Tray Movement Deploying

when Move Tray Table function receives TrayTableDeployCmd it shall move the Tray table to Deployed position provided that the Tray is in the Instrument Panel Assembly and Locked

Satisfied by:

* Functions:
  + Move Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-38 | | | | | | | |
| **Rationale** | To Arbitrate Tray Table Position according to request received | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1261545447.jpg Provide ForAft Tray position

Component Function in Tray Table ForeAft Sensor to provide Tray Table ForeAft position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide ForAft Tray position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Fore Aft Position  TrayPostionStatus | Tray Table Fore Aft Position :  TrayTableForeAftPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide ForAft Tray 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-3 Fore Aft Tray Position

ProvideForeAft Tray Position function shall provide TrayTableForeAftrPos constantly

Satisfied by:

* Functions:
  + Provide ForAft Tray position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-3 | | | | | | | |
| **Rationale** | Function responsbile for Sending ForeAft Tray Position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### Tray Table Mechanical Assembly

Tray Table Mechanical Assembly

### Vehicle

Vehicle

### Tray ForeAft Position Sensor

Tray ForeAft Position Sensor

#### Technology Function -1261545447.jpg Provide ForAft Tray position

Component Function in Tray Table ForeAft Sensor to provide Tray Table ForeAft position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide ForAft Tray position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Fore Aft Position  TrayPostionStatus | Tray Table Fore Aft Position :  TrayTableForeAftPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide ForAft Tray 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-3 Fore Aft Tray Position

ProvideForeAft Tray Position function shall provide TrayTableForeAftrPos constantly

Satisfied by:

* Functions:
  + Provide ForAft Tray position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-3 | | | | | | | |
| **Rationale** | Function responsbile for Sending ForeAft Tray Position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### Steering Column

Steering Column

### Tray Table Electrical Assembly

Tray Table Electrical Assembly

#### Technology Function -1345439884.jpg Provide Cross car Tray Position

Component Function in Tray Table Cross Car Sensor to provide Tray Table cross car position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Cross car Tray Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table pos  TrayPostionStatus | Tray Table pos :  TrayTableCrossCarPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide Cross car Tray 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-6 Cross Car Tray position

Provide Cross car Tray Position function shall provide TrayTableCrossCarPos constantly

Satisfied by:

* Functions:
  + Provide Cross car Tray Position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-6 | | | | | | | |
| **Rationale** | This Function Providing Cross Car Tray Position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 265766304.jpg Actuate Tray Locking Mechanism

Function responsible for Lock / Unlock the Tray table and Send the Lock status

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Actuate Tray Locking Mechanism | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Lock Command  TrayMoveCommand | Tray Table Lock Command :  TrayTableLockCmd | | |  |  |  |
| Review in model  Tray Table Unlock Command  TrayMoveCommand | Tray Table Unlock Command :  TrayTableUnlockCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

(No outputs have been defined)

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-28 Actuate Tray Locking Mechanism

Actuate Tray Locking Mechanism shall Lock Tray Table when received TrayTableLockCmd

Satisfied by:

* Functions:
  + Actuate Tray Locking Mechanism

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-28 | | | | | | | |
| **Rationale** | To lock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-29 Actuate Tray Unlocking Mechanism

Actuate Tray Locking Mechanism shall Unlock Tray Table when received TrayTableUnlockCmd

Satisfied by:

* Functions:
  + Actuate Tray Locking Mechanism

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-29 | | | | | | | |
| **Rationale** | To Unlock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1528200827.jpg Deploy Tray Table

Component Function of tray table motor / actuator for deploying the tray table

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Deploy Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Deploy Table command  TrayMoveCommand | Deploy Table command :  TrayTableDeployCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Deploy Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1528200827.jpg Stow Tray Table

Tray Table Function responsible for Moving Tray Table

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Stow Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table stow command  TrayMoveCommand | Tray Table stow command :  TrayTableStowCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Stow Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1261545447.jpg Move Tray Table

Function in Actuator responsible for Tray Table Actuation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Move Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Table Stow command  TrayMoveCommand | Table Stow command :  TrayTableStowCmd | | |  |  |  |
| Review in model  Tray table Deploy command  TrayMoveCommand | Tray table Deploy command :  TrayTableDeployCmd | | |  |  |  |
| Review in model  Tray Cross car over ride Pulse | Tray Cross car over ride Pulse :  ManualOverRideCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Move Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy status  TrayPostionStatus | Tray Table Deploy status :  TrayTableDeployStat | | |  |  |  |
| Review in model  Tray OverCurrent Detection | Tray OverCurrent Detection :  Tray\_OverCurrentDetection | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Move 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-5 Tray Movement Stowing

when Move Tray Table function receives TrayTableStowCmd it shall move the Tray table to stowed position provided that the Tray is in the center position

Satisfied by:

* Functions:
  + Move Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-5 | | | | | | | |
| **Rationale** | Tray Tabel Stowing | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-38 Tray Movement Deploying

when Move Tray Table function receives TrayTableDeployCmd it shall move the Tray table to Deployed position provided that the Tray is in the Instrument Panel Assembly and Locked

Satisfied by:

* Functions:
  + Move Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-38 | | | | | | | |
| **Rationale** | To Arbitrate Tray Table Position according to request received | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -1261545447.jpg Provide ForAft Tray position

Component Function in Tray Table ForeAft Sensor to provide Tray Table ForeAft position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide ForAft Tray position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Fore Aft Position  TrayPostionStatus | Tray Table Fore Aft Position :  TrayTableForeAftPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide ForAft Tray 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-3 Fore Aft Tray Position

ProvideForeAft Tray Position function shall provide TrayTableForeAftrPos constantly

Satisfied by:

* Functions:
  + Provide ForAft Tray position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-3 | | | | | | | |
| **Rationale** | Function responsbile for Sending ForeAft Tray Position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### SCMA

SCMA

#### Technology Function 1705855205.jpg Provide Seat Position

Function which Involves DSM sending Seat position to Feature Module

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Seat Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Current Seat Position  SeatPosition | Current Seat Position :  GS\_004949/B;1-SeatPos\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-7 Seat Position

The DSM shall continuously provide seat position through CurntSeatPos CAN signal

Satisfied by:

* Functions:
  + Provide Seat Position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-7 | | | | | | | |
| **Rationale** | This Function Providing Driver Seat Position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -819392747.jpg Store work state driver memory seat position

Function in which user can store the memory position for driver seat in Work Mode

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Store work state driver memory seat position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Current seat position  SeatPosition | Current seat position :  GS\_004949/B;1-SeatPos\_D\_Stat | | |  |  |  |
| Review in model  Updated Work seat Position | Updated Work seat Position :  UpdatedWorkSeatPosition | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Store work state driver memory seat position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Store seat position work  SeatPosition | Store seat position work :  StoredSeatMemoryPositionWork | | |  |  |  |
| Review in model  StoredSeatPositionStatus  SeatMovementStatusInternal | StoredSeatPositionStatus :  SeatPosSavDrv\_B\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -819392747.jpg Store Rest State Driver Memory Seat Position

Function in which user can store the memory position for driver seat in Rest Mode

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Store Rest State Driver Memory Seat Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Current seat position  SeatPosition | Current seat position :  GS\_004949/B;1-SeatPos\_D\_Stat | | |  |  |  |
| Review in model  Updated Rest Seat Position | Updated Rest Seat Position :  UpdatedRestSeatPosition | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Store Rest State Driver Memory Seat Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Stored seat position rest  SeatPosition | Stored seat position rest :  StoredSeatMemoryPositonRest | | |  |  |  |
| Review in model  Stored Seat Position Status  SeatMovementStatusInternal | Stored Seat Position Status :  SeatPosSavDrv\_B\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -819392747.jpg Store Drive State Driver Memory Seat Position

Function in which the user would able to store the memory position for seat in Drive Mode

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Store Drive State Driver Memory Seat Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Current seat position  SeatPosition | Current seat position :  GS\_004949/B;1-SeatPos\_D\_Stat | | |  |  |  |
| Review in model  Feature state selection Command  StateSelectionSignal | Feature state selection Command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Store Drive State Driver Memory Seat Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Store seat position drive  SeatPosition | Store seat position drive :  SeatMemPosDrv\_D\_Stat | | |  |  |  |
| Review in model  Stored Seat Position Status  SeatMovementStatusInternal | Stored Seat Position Status :  SeatPosSavDrv\_B\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 2130020757.jpg Command Maneuver Driver Seat To Stored Position

Function in which DSM Commanding Driver seat to move to stored position

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Command Maneuver Driver Seat To Stored Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Seat Position Move command  SeatMovementRequest | Seat Position Move command :  SeatMovMdeSel\_D\_Rq | | |  |  |  |
| Review in model  Stored Seat Memory Position WORK  SeatPosition | Stored Seat Memory Position WORK :  StoredSeatMemoryPositionWork | | |  |  |  |
| Review in model  Stored Seat Memory Rest position  SeatPosition | Stored Seat Memory Rest position :  StoredSeatMemoryPositonRest | | |  |  |  |
| Review in model  Memory position for Drive  SeatPosition | Memory position for Drive :  SeatMemPosDrv\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

(No outputs have been defined)

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 2130020757.jpg Provide Steering Column Position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Steering Column Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Steering Column Position  SteeringColumnRakePosition | Steering Column Position :  SteClmnPosRake | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 2130020757.jpg Store Drive State Column Position

Allow the steering column to move to the stored memory location

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Store Drive State Column Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Personalization settings  UserPersonalizationRequest | Personalization settings :  Personalization settings | | |  |  |  |
| Review in model  Steering Column Rake Position  SteeringColumnRakePosition | Steering Column Rake Position :  SteClmnPosRake | | |  |  |  |
| Review in model  Steering Column Tele Position  SteeringColumnTelePosition | Steering Column Tele Position :  SteClmnPosTele | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Store Drive State Column Position

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Store Drive State Column Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Stored Column Position status  SteeringColumnStatus | Stored Column Position status :  StoredColumnPositionStatus | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 1763773725.jpg store work state comun position

The steering wheel column memory position for the "Work" state for the Stowable Steering Wheel/Deploy Tray Table feature can be used.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: store work state comun position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Personalization settings  UserPersonalizationRequest | Personalization settings :  Personalization settings | | |  |  |  |
| Review in model  Steering Column Tele Position  SteeringColumnTelePosition | Steering Column Tele Position :  SteClmnPosTele | | |  |  |  |
| Review in model  Steering Column Rake Position  SteeringColumnRakePosition | Steering Column Rake Position :  SteClmnPosRake | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function store work state comun position

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: store work state comun position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  stored column posiition work  SteeringColumnStatus | stored column posiition work :  SteClmnPosSav\_D\_St | | |  |  |  |
| Review in model  Stored Column Position status  SteeringColumnStatus | Stored Column Position status :  StoredColumnPositionStatus | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 1763773725.jpg Command Maneuver Driver Seat to Personalize

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Command Maneuver Driver Seat to Personalize | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Personalization Settings  UserPersonalizationRequest | Personalization Settings :  Personalization settings | | |  |  |  |
| Review in model  Feature State Selection Command  StateSelectionSignal | Feature State Selection Command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Command Maneuver Driver Seat to Personalize

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Command Maneuver Driver Seat to Personalize | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Updated Work Seat position | Updated Work Seat position :  UpdatedWorkSeatPosition | | |  |  |  |
| Review in model  Updated Rest Seat Position | Updated Rest Seat Position :  UpdatedRestSeatPosition | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Command Maneuver Driver Seat to Personalize

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 247447525.jpg Provide Drive Mode Seat position

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Drive Mode Seat position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Memory position for Drive  SeatPosition | Memory position for Drive :  SeatMemPosDrv\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide Drive Mode 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

### ECG

ECG

### Steering Wheel

Steering Wheel

### Tray Surface

Tray Surface

### ABS

ABS

#### Technology Function 247447525.jpg Provide Vehicle Speed

Provide Vehicle speed as seen for brakes

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Vehicle Speed | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Vehicle Speed  VehicleStatus | Vehicle Speed :  Veh\_V\_ActlBrk | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

### RCM

RCM

#### Technology Function 247447525.jpg Inhibit Driver Airbag

Component Function within RCM (Restraint Control Module) commanding to Inhibit the Airbags

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Inhibit Driver Airbag | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Airbag Inhibit Request  DriverAirbagRequest | Airbag Inhibit Request :  AirbagDrv\_B\_RqDactv | | |  |  |  |
| Review in model  Park status  VehicleStatus | Park status :  PrkStat | | |  |  |  |
| Review in model  Vehicle speed  VehicleStatus | Vehicle speed :  Veh\_V\_ActlBrk | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Inhibit Driver Airbag | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Driver Airbag Inhibit status  DriverAirbagInhibitStatus | Driver Airbag Inhibit status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-2 Driver Airbag status

The RCM shall provide the Driver Airbag Inhibit status(AirbagInhbtStat) to the SCMB via FD1 CAN when it receives DrvrAirbagDisinhbtRq and AirbagInbtRq

Satisfied by:

* Functions:
  + Inhibit Driver Airbag
  + Command Driver Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-2 | | | | | | | |
| **Rationale** | To DeInhibit Driver Airbag before going into Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-2 Driver Airbag status

The RCM shall provide the Driver Airbag Inhibit status(AirbagInhbtStat) to the SCMB via FD1 CAN when it receives DrvrAirbagDisinhbtRq and AirbagInbtRq

Satisfied by:

* Functions:
  + Inhibit Driver Airbag
  + Command Driver Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-2 | | | | | | | |
| **Rationale** | To DeInhibit Driver Airbag before going into Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 247447525.jpg Command Driver Airbag DisInhibit

Restraint Control Module commanding to DeInhibit the Airbags

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Command Driver Airbag DisInhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Airbag DeInhibit Request  DriverAirbagRequest | Airbag DeInhibit Request :  AirbagDrv\_B\_RqDactv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Command Driver Airbag DisInhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Driver Airbag Inhibit status  DriverAirbagInhibitStatus | Driver Airbag Inhibit status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-2 Driver Airbag status

The RCM shall provide the Driver Airbag Inhibit status(AirbagInhbtStat) to the SCMB via FD1 CAN when it receives DrvrAirbagDisinhbtRq and AirbagInbtRq

Satisfied by:

* Functions:
  + Inhibit Driver Airbag
  + Command Driver Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-2 | | | | | | | |
| **Rationale** | To DeInhibit Driver Airbag before going into Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-2 Driver Airbag status

The RCM shall provide the Driver Airbag Inhibit status(AirbagInhbtStat) to the SCMB via FD1 CAN when it receives DrvrAirbagDisinhbtRq and AirbagInbtRq

Satisfied by:

* Functions:
  + Inhibit Driver Airbag
  + Command Driver Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-2 | | | | | | | |
| **Rationale** | To DeInhibit Driver Airbag before going into Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -538409899.jpg Command Farside Airbag DisInhibit

This function within RCM is responsible for commanding far side airbag DisInhibiting

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Command Farside Airbag DisInhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Airbag DisInhibit  DriverAirbagRequest | Airbag DisInhibit :  AirbagDrv\_B\_RqDactv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Command Farside Airbag DisInhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Farside Airbag status  DriverAirbagInhibitStatus | Farside Airbag status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Command Farside 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-2 Driver Airbag status

The RCM shall provide the Driver Airbag Inhibit status(AirbagInhbtStat) to the SCMB via FD1 CAN when it receives DrvrAirbagDisinhbtRq and AirbagInbtRq

Satisfied by:

* Functions:
  + Inhibit Driver Airbag
  + Command Driver Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-2 | | | | | | | |
| **Rationale** | To DeInhibit Driver Airbag before going into Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-44 DeInhibit Farside Airbag

Command Farside Airbag DisInhibit Function shall De Inhibit the Farside Airbag when it receives AirbagDrv\_B\_RqDactv = No Request provided that Farside Airbag is Equipped in the Vehicle

Satisfied by:

* Functions:
  + Command Farside Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-44 | | | | | | | |
| **Rationale** | To DeInhibit Far side Airbag | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -538409899.jpg Inhibit Farside Airbag

This function within RCM is responsible for commanding far side airbag Inhibiting

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Inhibit Farside Airbag | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Airbag Inhibit  DriverAirbagRequest | Airbag Inhibit :  AirbagDrv\_B\_RqDactv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Inhibit Farside Airbag | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Farside Airbag Status  DriverAirbagInhibitStatus | Farside Airbag Status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Inhibit Farside 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-2 Driver Airbag status

The RCM shall provide the Driver Airbag Inhibit status(AirbagInhbtStat) to the SCMB via FD1 CAN when it receives DrvrAirbagDisinhbtRq and AirbagInbtRq

Satisfied by:

* Functions:
  + Inhibit Driver Airbag
  + Command Driver Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-2 | | | | | | | |
| **Rationale** | To DeInhibit Driver Airbag before going into Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-45 Inhibit Farside Airbag

Inhibit Far side AirbagFunction shall Inhibit the Farside Airbag when it receives AirbagDrv\_B\_RqDactv = Request provided that Farside Airbag is Equipped in the Vehicle

Satisfied by:

* Functions:
  + Inhibit Farside Airbag

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-45 | | | | | | | |
| **Rationale** | To Inhibit Far side Airbag | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Tippy, David (dtippy) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### SCMB

SCMB

#### Technology Function -538409899.jpg Deploy Steering Column

The steering column allowed to return to the correct driving position when the Stowable Steering Wheel/Deply Tray Table feature not in use.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Deploy Steering Column | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feat state sel command  StateSelectionSignal | Feat state sel command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Steering Column Tele Position  SteeringColumnTelePosition | Steering Column Tele Position :  SteClmnPosTele | | |  |  |  |
| Review in model  Steering Column Rake Position  SteeringColumnRakePosition | Steering Column Rake Position :  SteClmnPosRake | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Deploy Steering Column | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  SC Deploy Command  SteeringColumnRequest | SC Deploy Command :  MoveSteClmnTelescopeToDrvPos | | |  |  |  |
| Review in model  SC Deploy Command Rake  SteeringColumnRequest | SC Deploy Command Rake :  CmdSteClmnRakeToDrvPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-37 Deploy Steering Column

Deploy Steering Column Function shall Set

Command Tele to Selected = Deploy and

Command Rake to Selected = Deploy

Provided that

FeatStateSelCmd= Drive

SteeringColumnTelePos=Deployed

SteeringColumnRakePos=Deployed

StoredWorkPosition=Work

Satisfied by:

* Functions:
  + Deploy Steering Column

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-37 | | | | | | | |
| **Rationale** | To issue a request to Deploy Steering Column | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 934444514.jpg Verify Availabilty of Work State

Based on Vehicle status, Verify if Play State is available or not

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Verify Availabilty of Work State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  battery state of charge  VehicleStatus | battery state of charge :  BattStateOfChrg | | |  |  |  |
| Review in model  SSW/DTT state  StateOfFeature | SSW/DTT state :  StwblStewMde\_D\_Stat | | |  |  |  |
| Review in model  park status  VehicleStatus | park status :  PrkStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Verify Availabilty of Work State

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Verify Availabilty of Work State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Work state Availability status  HMIFeedback | Work state Availability status :  WorkStateAvailabilityStatus | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Verify Availabilty of Work 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-17 Work state Availability

Verify Availability of work state Function shall verify the availability of Work Mode and set WorkStateAvailabilityStatus=True

provided that SSW/DTT State= DRIVE||REST

Parkstatus=Parked

BatterySOC==GOOD

Satisfied by:

* Functions:
  + Verify Availabilty of Work State

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-17 | | | | | | | |
| **Rationale** | To Evaulate Drive Mode Availability | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 934444514.jpg Verify Availability of Rest State

Based on Vehicle status, Verify if Rest State is available or not

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Verify Availability of Rest State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  battery state of charge  VehicleStatus | battery state of charge :  BattStateOfChrg | | |  |  |  |
| Review in model  SSW/DTT state  StateOfFeature | SSW/DTT state :  StwblStewMde\_D\_Stat | | |  |  |  |
| Review in model  park status  VehicleStatus | park status :  PrkStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Verify Availability of Rest State

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Verify Availability of Rest State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Rest State Availability status  HMIFeedback | Rest State Availability status :  RestStateAvailabilityStatus | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Verify Availability of Rest 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-18 Rest state Availability

Verify Availability of REST state Function shall verify the availability of RestMode and set RestStateAvailabilityStatus=True

provided that SSW/DTT State= DRIVE||WORK

Parkstatus=Parked

BatterySOC==GOOD

Satisfied by:

* Functions:
  + Verify Availability of Rest State

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-18 | | | | | | | |
| **Rationale** | To evaluate Rest Mode Availability | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 934444514.jpg Verify Availability of Drive State

Based on Vehicle status ,Verify if Drive State is available or not

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Verify Availability of Drive State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  battery state of charge  VehicleStatus | battery state of charge :  BattStateOfChrg | | |  |  |  |
| Review in model  SSW/DTT state  StateOfFeature | SSW/DTT state :  StwblStewMde\_D\_Stat | | |  |  |  |
| Review in model  park status  VehicleStatus | park status :  PrkStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Verify Availability of Drive State

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Verify Availability of Drive State | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Drive state Availability status  HMIFeedback | Drive state Availability status :  DriveStateAvaiStatus | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Verify Availability of Drive 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-19 Drive state Availability

Verify Availability of Drive state Function shall verify the availability of Drive Mode and set DriveStateAvailabilityStatus=True

provided that SSW/DTT State= WORK||REST

Parkstatus=Parked

BatterySOC==GOOD

Satisfied by:

* Functions:
  + Verify Availability of Drive State

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-19 | | | | | | | |
| **Rationale** | User Cannot enter Drive state if any of Vehicle status is not valid or if Locomotion and Driver Airbag are not DeInhibited | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -2028493131.jpg Check Driver seat stored position reached

To verify that the seat has reached the correct position for the Stowable Steering Wheel/Tray Table feature can be used.

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

(No outputs have been defined)

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -2028493131.jpg Monitor Tray

To monitor the tray table movemenet for any obstruction that would cause the featrue to not work properly.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Monitor Tray | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feature State Selection Command  StateSelectionSignal | Feature State Selection Command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Tray Table Cross Car Position  TrayPostionStatus | Tray Table Cross Car Position :  TrayTableCrossCarPos | | |  |  |  |
| Review in model  Tray Table Fpre Aft Position  TrayPostionStatus | Tray Table Fpre Aft Position :  TrayTableForeAftPos | | |  |  |  |
| Review in model  Tray cross car manual overRide signal  UserInput  ABORT  DRIVEMODE  NONE  NOT\_AVAILABLE  RESET  RESTMODE  TRAY\_MANUAL\_OVERIDE  WORKMODE | Tray cross car manual overRide signal :  TrayCrossCarManualOverRide | | |  |  |  |
| Review in model  Tray Overload Current | Tray Overload Current :  Tray\_OverCurrentDetection | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Monitor Tray | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  HMI Instructions for Tray Table  HMIInsWar | HMI Instructions for Tray Table :  DisplayFeatureInstructions | | |  |  |  |
| Review in model  Tray cross car over ride pulse | Tray cross car over ride pulse :  ManualOverRideCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-30 Manual Tray Table Instructions

Monitor Tray Table Function shall output DisplayTrayTableInstructions if

FeatStateSelCmd= DRIVE||REST

TrayTableForeAftPos=Deployed

TrayTableCrossCarPos=Deployed

Satisfied by:

* Functions:
  + Monitor Tray

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-30 | | | | | | | |
| **Rationale** | To provide user Tray Instructions if user intends to go to drive mode but forgets to Stow Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-42 Tray Obstacle Detection Req 1

Tray Auto open shall require Obstacle Detection <100N to stop Deploying or stowing before reversing the direction

Satisfied by:

* Functions:
  + Monitor Tray

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-42 | | | | | | | |
| **Rationale** | Tray Motor Pinch Protection | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-43 Tray Obstacle Detection Req 2

Tray Auto stop is required to have obstacle detection <100N to stop for HMI interaction to make selections for user if tray is going to be deployed or stowed and output DisplayFeatureInstructions

Satisfied by:

* Functions:
  + Monitor Tray

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-43 | | | | | | | |
| **Rationale** | Tray Motor Pinch Protection | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -2028493131.jpg Publish SSW/DTT state

Feature Issuing current Feature mode of Operation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Publish SSW/DTT state | | | | | | |
| **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  TrayPostionStatus | Tray Table deploy status :  TrayTableDeployStat | | |  |  |  |
| Review in model  Driver seat position  SeatPosition | Driver seat position :  GS\_004949/B;1-SeatPos\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Publish SSW/DTT state | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  SSW/DTT state  StateOfFeature | SSW/DTT state :  StwblStewMde\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-24 Publish SSW/DTT state

Publish SSW/DTT state function shall set SSW/DTT state value according to the steeringcolumn deploy status, tray table deploy status and Driver seat position

Satisfied by:

* Functions:
  + Publish SSW/DTT state

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-24 | | | | | | | |
| **Rationale** | To Evaluate the current state | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 595178783.jpg Command Tray Table Deploy

Allow the tray table to come out of its stowed position for use by the occupant

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Command Tray Table Deploy | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Lock status  TrayLockStatus | Tray Table Lock status :  TrayTableLockStat | | |  |  |  |
| Review in model  Feature state selection command  StateSelectionSignal | Feature state selection command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Tray Table ForeAft Position  TrayPostionStatus | Tray Table ForeAft Position :  TrayTableForeAftPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Command Tray Table Deploy | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Command  TrayMoveCommand | Tray Table Deploy Command :  TrayTableDeployCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-23 Deploy Tray Table

Command Tray Table Deploy Function shall set TrayTableDeployCmd=TRUE, provided that

FeatStateSelCmd=WORK

TrayTableLockStatus=UNLOCKED

Traytableforeaftposition=STOWED

Satisfied by:

* Functions:
  + Command Tray Table Deploy

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-23 | | | | | | | |
| **Rationale** | Command to Deploy Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 595178783.jpg Check Column Stored Position Reached

To verify that the steering wheel column has reached the correct stowed position for the Stowable Steering Wheel/Deploy Tray Table feature can be used.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Check Column Stored Position Reached | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feature state selection command  StateSelectionSignal | Feature state selection command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Steering Column Tele Position  SteeringColumnTelePosition | Steering Column Tele Position :  SteClmnPosTele | | |  |  |  |
| Review in model  Steering Column Rake Position  SteeringColumnRakePosition | Steering Column Rake Position :  SteClmnPosRake | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Check Column Stored Position Reached | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher 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 | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-34 Check Column Position Reached

Check Column Position Reached Function shall set Deploy status as required based on the steering column rake position , Tele position and State Selection Signal

Satisfied by:

* Functions:
  + Check Column Stored Position Reached

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-34 | | | | | | | |
| **Rationale** | To verify if the Steering Column reached Desired Positon | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 595178783.jpg Request Airbag Inhibit

Airbag to be disabled (turned off) when Stowable Steering Feature is active (turned on)

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Airbag Inhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feature state selection command  StateSelectionSignal | Feature state selection command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Airbag Inhibit status  DriverAirbagInhibitStatus | Airbag Inhibit status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Airbag Inhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Airbag Inhibit request  DriverAirbagRequest | Airbag Inhibit request :  AirbagDrv\_B\_RqDactv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Request Airbag 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-10 Driver Airbag Inhibit Request

Request Airbag Inhibit Function shall send AirbagInhbtRq when it receives FeatStateSelCmd=WORK or FeatStateSelCmd=Rest provided that AirbagInhbtStatus=DEINHIBITED

Satisfied by:

* Functions:
  + Request Airbag Inhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-10 | | | | | | | |
| **Rationale** | To Inhibit Driver Airbag for Feature Transition into WORK /DRIVE Modes | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1748550601.jpg Request Locomotion Inhibit

When the Stowable Steering Wheel/Deploy Tray Table Feature is active (turned on) the vehicle to be not allowed to move.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Locomotion Inhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feature state selection cmd  StateSelectionSignal | Feature state selection cmd :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Work state Availability status  HMIFeedback | Work state Availability status :  WorkStateAvailabilityStatus | | |  |  |  |
| Review in model  Drive state Availability status  HMIFeedback | Drive state Availability status :  DriveStateAvaiStatus | | |  |  |  |
| Review in model  Locomotion Inhibit status  LocomotionInhibitStatus | Locomotion Inhibit status :  LocomotionInhibitStat | | |  |  |  |
| Review in model  User Input  UserInput | User Input :  UserIn | | |  |  |  |
| Review in model  Rest state Availability status  HMIFeedback | Rest state Availability status :  RestStateAvailabilityStatus | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Locomotion Inhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Locomotion Inhibit Request  LocomotionRequest | Locomotion Inhibit Request :  RequestLocomotionInhibit | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-9 Locomotion Inhibit Request

Request Locomotion Inhibit function shall send RequestLocomotionInhibit when it receives FeatStateSelCmd=WORK or FeatStateSelCmd=Rest provided that

1. LocomotionInhibitStat=DEINHIBITED

2. WorkstateAvailabilityStatus=true

3.RestStateAvailabilityStatus=True

4. DrivestateAvailabilityStatus= False

5. UserInput=Work or UserInput=REST

Satisfied by:

* Functions:
  + Request Locomotion Inhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-9 | | | | | | | |
| **Rationale** | To Inhibit Locomotion for Feature Transition into WORK /DRIVE Modes | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1748550601.jpg Request Driver Airbag DisInhibit

Airbag to be enabled (turned on) when Stowable Steering Feature is Inactive (turned off)

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Driver Airbag DisInhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| Review in model  Sttering Column Deploy Status | Sttering Column Deploy Status : | | |  |  |  |
| Review in model  Feat state selec command  StateSelectionSignal | Feat state selec command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Airbag Inhibit status  DriverAirbagInhibitStatus | Airbag Inhibit status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| Review in model  Current Seat Position  SeatPosition | Current Seat Position :  GS\_004949/B;1-SeatPos\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Driver Airbag DisInhibit | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Airbag DeInhibit Request  DriverAirbagRequest | Airbag DeInhibit Request :  AirbagDrv\_B\_RqDactv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-11 Driver Airbag DeInhibit Request

Driver Airbag DeInhibit Request Function shall send AirbagInhbtRq when it receives FeatStateSelCmd=DRIVE provided that AirbagInhbtStatus=INHIBITED and CurntSeatPos=DRIVE

Satisfied by:

* Functions:
  + Request Driver Airbag DisInhibit

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-11 | | | | | | | |
| **Rationale** | To EnsureDriver Airbag is DeInhibited before entering Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 365040140.jpg Request Locomotion Inhibit Release

When the Stowable Steering Wheel/Deploy Tray Table Feature is not in use (turned off) the vehicle to be allowed to move.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Locomotion Inhibit Release | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| Review in model  Driver Airbag Inhibit status  DriverAirbagInhibitStatus | Driver Airbag Inhibit status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| Review in model  Steering Column Deploy Status | Steering Column Deploy Status : | | |  |  |  |
| Review in model  Feat state Selection cmd  StateSelectionSignal | Feat state Selection cmd :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Locmotion Inhibit status  LocomotionInhibitStatus | Locmotion Inhibit status :  LocomotionInhibitStat | | |  |  |  |
| Review in model  Current Seat Position  SeatPosition | Current Seat Position :  GS\_004949/B;1-SeatPos\_D\_Stat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Locomotion Inhibit Release | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  DisInhibit Locomotion Request Release  LocomotionRequest | DisInhibit Locomotion Request Release :  RequestLocomotionInhibitRelease | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-12 Locomotion DeInhibit Request

Request Locomotion Inhibit Release function shall send RequestLocomotionDeInhibit when it receives FeatStateSelCmd=DRIVE provided that

1. LocomotionInhibitStat=INHIBITED

2. AirbagInhibitstatus=DeInhibited

3.SteeringcloumnSatus=Deploued

4. TrayDeployStatus=Deployed

3.RestStateAvailabilityStatus=True

4. DrivestateAvailabilityStatus= False

5. UserInput=Work or UserInput=

6.CurntSeatPos=DRIVE

Satisfied by:

* Functions:
  + Request Locomotion Inhibit Release

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-12 | | | | | | | |
| **Rationale** | To Ensure Locomotion is DeInhibited before entering Drive Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 365040140.jpg store rest state column position

The steering wheel column memory position for the driver when the Stowable Steering Wheel/Deploy Tray Table feature in not in use.

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: store rest state column position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  stored column position rest  SteeringColumnStatus | stored column position rest :  StoredColumnPositionRest | | |  |  |  |
| Review in model  Stored Column Position status  SteeringColumnStatus | Stored Column Position status :  StoredColumnPositionStatus | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 365040140.jpg Stow Steering Column

The steering column allowed to return to the correct driving position when the Stowable Steering Wheel/Deply Tray Table feature not in use.

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Stow Steering Column | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  stored column position work  SteeringColumnStatus | stored column position work :  SteClmnPosSav\_D\_St | | |  |  |  |
| Review in model  Inhibit status  InhibitStatus | Inhibit status :  InhbtStat | | |  |  |  |
| Review in model  Feature state selection cmd  StateSelectionSignal | Feature state selection cmd :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Steering Column Tele Position  SteeringColumnTelePosition | Steering Column Tele Position :  SteClmnPosTele | | |  |  |  |
| Review in model  Steering Column Rake position  SteeringColumnRakePosition | Steering Column Rake position :  SteClmnPosRake | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Stow Steering Column | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  SC Stow Command  SteeringColumnRequest | SC Stow Command :  MoveSteClmTelescopeToSelectedPos | | |  |  |  |
| Review in model  SC stow Rake Cmd  SteeringColumnRequest | SC stow Rake Cmd :  CmdSteClmnRakeToSelectedPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-36 Stow Steering Column

Stow Steering Column Function shall Set

Command Tele to Selected = Stow and

Command Rake to Selected = Stow

Provided that

FeatStateSelCmd= Work||Rest

SteeringColumnTelePos=Deployed

SteeringColumnRakePos=Deployed

StoredWorkPosition=Work

Satisfied by:

* Functions:
  + Stow Steering Column

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-36 | | | | | | | |
| **Rationale** | To issue a request to Stow Steering Column | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -229415973.jpg Unlock Tray Table

Function responsible for Unlock the tray table from its stowed position

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Unlock Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Inhibit status  InhibitStatus | Inhibit status :  InhbtStat | | |  |  |  |
| Review in model  Work state Availability status  HMIFeedback | Work state Availability status :  WorkStateAvailabilityStatus | | |  |  |  |
| Review in model  Feature state selection command  StateSelectionSignal | Feature state selection command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Unlock Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Unlock Command  TrayMoveCommand | Tray Unlock Command :  TrayTableUnlockCmd | | |  |  |  |
| Review in model  Tray Table Lock status  TrayLockStatus | Tray Table Lock status :  TrayTableLockStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-4 Control Tray Locking Functionality

SCMB shall Command the Tray Locking solenoid for Locking /Unlocking Tray via Hard wire by sending TrayTableLockCmd and TrayTableUnlockCmd

Satisfied by:

* Functions:
  + Lock Tray Table
  + Unlock Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-4 | | | | | | | |
| **Rationale** | To Lock and Unlock the Tray Table as per Request from PSM | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-20 Unlock Tray Table

Unlock Tray Table Function shall set TrayTableUnlockCommand=True

Provided that

FeatStateSelcmd=WORK

InhbtStatus=INHIBITED

WorkStateAvailabilityStatus=TRUE

Satisfied by:

* Functions:
  + Unlock Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-20 | | | | | | | |
| **Rationale** | Command to Unlock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -229415973.jpg Lock Tray Table

function to Lock the tray table in its stowed position

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Lock Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table position  TrayPostionStatus | Tray Table position :  TrayTableCrossCarPos | | |  |  |  |
| Review in model  Feature state Sel command  StateSelectionSignal | Feature state Sel command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Tray Table ForeAft Position  TrayPostionStatus | Tray Table ForeAft Position :  TrayTableForeAftPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Lock Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Lock Command  TrayMoveCommand | Tray Table Lock Command :  TrayTableLockCmd | | |  |  |  |
| Review in model  Tray Table Lock status  TrayLockStatus | Tray Table Lock status :  TrayTableLockStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-4 Control Tray Locking Functionality

SCMB shall Command the Tray Locking solenoid for Locking /Unlocking Tray via Hard wire by sending TrayTableLockCmd and TrayTableUnlockCmd

Satisfied by:

* Functions:
  + Lock Tray Table
  + Unlock Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-4 | | | | | | | |
| **Rationale** | To Lock and Unlock the Tray Table as per Request from PSM | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-21 Lock Tray Table

Lock Tray Table Function shall set TrayTableLockCommand=True

Provided that

FeatStateSelcmd=DRIVE||REST

TrayTableCrossCarPos=Stowed

Satisfied by:

* Functions:
  + Lock Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-21 | | | | | | | |
| **Rationale** | Command to Lock Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1655463619.jpg check Inhibit Status

To verify that the airbag has been disabled (turned off). Airbag to be disabled when Stowable Steering Feature is active

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: check Inhibit Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Locmotion Inhibit Status  LocomotionInhibitStatus | Locmotion Inhibit Status :  LocomotionInhibitStat | | |  |  |  |
| Review in model  Airbag Inhibit Status  DriverAirbagInhibitStatus | Airbag Inhibit Status :  GS\_011436/A;1-AirbagDrv\_D\_Actv | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: check Inhibit Status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Inhibit status  InhibitStatus | Inhibit status :  InhbtStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-35 Check Inhibit Status

Check Inhibit status shall output

1. InhbtStat (Inhibit Status) = Inhibited

provided that

LocomotionInhibtStat=Inhibited

AirbagInhbtStat=Inhibited

or

2.InhbtStat (Inhibit Status) = DeInhibited

provided that

LocomotionInhibtStat=DeInhibited

AirbagInhbtStat=DeInhibited

Satisfied by:

* Functions:
  + check Inhibit Status

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-35 | | | | | | | |
| **Rationale** | To Evaulate the Drive Control Status Internally (Locmotion and Driver Airbag) | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1655463619.jpg Request Maneuver Driver Seat To Stored Position

Allow the seat to move to the stored memory location

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Request Maneuver Driver Seat To Stored Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Feature state selection command  StateSelectionSignal | Feature state selection command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Request Maneuver Driver Seat To Stored Position | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Seat Position Move command  SeatMovementRequest | Seat Position Move command :  SeatMovMdeSel\_D\_Rq | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-8 Seat Movement Request

When ' Request Maneuver Driver Seat to store position' function receives FeatStateSelCmd it shall set SeatPosMovCmd Accordingly

Satisfied by:

* Functions:
  + Request Maneuver Driver Seat To Stored Position

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-8 | | | | | | | |
| **Rationale** | Requesting Driver Seat to move to desired position | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1655463619.jpg Command Tray Table Stow

Allow the tray table to move to a stowed position when not in use by the occupant

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Command Tray Table Stow | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Lock status  TrayLockStatus | Tray Table Lock status :  TrayTableLockStat | | |  |  |  |
| Review in model  Tray table Position  TrayPostionStatus | Tray table Position :  TrayTableCrossCarPos | | |  |  |  |
| Review in model  Feat state selection command  StateSelectionSignal | Feat state selection command :  StwblStewMde\_D\_RqMnu | | |  |  |  |
| Review in model  Tray Table Fore Aft position  TrayPostionStatus | Tray Table Fore Aft position :  TrayTableForeAftPos | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Command Tray Table Stow | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table stow Command  TrayMoveCommand | Tray Table stow Command :  TrayTableStowCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-22 Stow Tray Table

Command Tray Table stow Function shall set TrayTableStowCmd=TRUE ,provided that

FeatStateSelCmd==REST||DRIVE

TrayTableLockStatus=UNLOCKED

TrayTableCrossCarPosition=Stowed

Satisfied by:

* Functions:
  + Command Tray Table Stow

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-22 | | | | | | | |
| **Rationale** | Command to Stow Tray Table | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function 1177217678.jpg Check battery SOC

Component function of SCMB for checking Battery SOC precondition

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

(No outputs have been defined)

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 1177217678.jpg Check Vehicle Speed

Component function responsible for evaluating vehicle speed as precondition before arbitrating modes by SCMB

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

(No outputs have been defined)

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function 1177217678.jpg Monitor SC Pinch protection

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Monitor SC Pinch protection | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Over Current Detection | Over Current Detection :  SC\_OverCurrentDetection | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

Table 5‑2: Input Signal mappings of Function Monitor SC Pinch protection

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Monitor SC Pinch protection | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Display Feature Instructions  HMIInsWar | Display Feature Instructions :  DisplayFeatureInstructions | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Monitor SC Pinch protection

###### 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-46 Monitor SC OverCurrent Detection

Monitor SC Pinch Protection shall Output DisplayFeatureInstructions when it receives SC\_OverCurrentDetection=Detection

Satisfied by:

* Functions:
  + Monitor SC Pinch protection

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-46 | | | | | | | |
| **Rationale** | SteeringColumn Pinch Protection | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Iaquinto, Jonathan JIAQUIN2) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### BCM

BCM

#### Technology Function 1177217678.jpg Provide Battery SOC

Provide Battery State of Charge

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Battery SOC | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Battery State of charge  VehicleStatus | Battery State of charge :  BattStateOfChrg | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-14 Battery SOC

Battery Management System (BMS) shall provide Battery SOC(state of Charge) to SCMB through BCM

Satisfied by:

* Functions:
  + Provide Battery SOC

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-14 | | | | | | | |
| **Rationale** | Feature Controller would Verify the Battery SOC before the state transitions | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 2 - Medium | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### Sliding Track

Sliding Track

### Tray Actuator

Tray Actuator

#### Technology Function -1528200827.jpg Deploy Tray Table

Component Function of tray table motor / actuator for deploying the tray table

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Deploy Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Deploy Table command  TrayMoveCommand | Deploy Table command :  TrayTableDeployCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Deploy Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1528200827.jpg Stow Tray Table

Tray Table Function responsible for Moving Tray Table

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Stow Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table stow command  TrayMoveCommand | Tray Table stow command :  TrayTableStowCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Stow Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy Status  TrayPostionStatus | Tray Table Deploy Status :  TrayTableDeployStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

#### Technology Function -1261545447.jpg Move Tray Table

Function in Actuator responsible for Tray Table Actuation

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Move Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Table Stow command  TrayMoveCommand | Table Stow command :  TrayTableStowCmd | | |  |  |  |
| Review in model  Tray table Deploy command  TrayMoveCommand | Tray table Deploy command :  TrayTableDeployCmd | | |  |  |  |
| Review in model  Tray Cross car over ride Pulse | Tray Cross car over ride Pulse :  ManualOverRideCmd | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Move Tray Table | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Tray Table Deploy status  TrayPostionStatus | Tray Table Deploy status :  TrayTableDeployStat | | |  |  |  |
| Review in model  Tray OverCurrent Detection | Tray OverCurrent Detection :  Tray\_OverCurrentDetection | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Move 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-5 Tray Movement Stowing

when Move Tray Table function receives TrayTableStowCmd it shall move the Tray table to stowed position provided that the Tray is in the center position

Satisfied by:

* Functions:
  + Move Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-5 | | | | | | | |
| **Rationale** | Tray Tabel Stowing | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-38 Tray Movement Deploying

when Move Tray Table function receives TrayTableDeployCmd it shall move the Tray table to Deployed position provided that the Tray is in the Instrument Panel Assembly and Locked

Satisfied by:

* Functions:
  + Move Tray Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-38 | | | | | | | |
| **Rationale** | To Arbitrate Tray Table Position according to request received | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Kim, Yoon (ykim33) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### BMS

BMS

#### Technology Function 1177217678.jpg Provide Battery SOC

Provide Battery State of Charge

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Battery SOC | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Battery State of charge  VehicleStatus | Battery State of charge :  BattStateOfChrg | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-14 Battery SOC

Battery Management System (BMS) shall provide Battery SOC(state of Charge) to SCMB through BCM

Satisfied by:

* Functions:
  + Provide Battery SOC

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-14 | | | | | | | |
| **Rationale** | Feature Controller would Verify the Battery SOC before the state transitions | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** |  |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 2 - Medium | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

### Rotating Arm

Rotating Arm

### PCM

PCM

#### Technology Function 524291844.jpg DisInhibit Locomotion

Power train Commanding to DeInhibit Locomotion

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: DisInhibit Locomotion | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Locomotion Inhibit release Request  LocomotionRequest | Locomotion Inhibit release Request :  RequestLocomotionInhibitRelease | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: DisInhibit Locomotion | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Locomotion Inhibit Status  LocomotionInhibitStatus | Locomotion Inhibit Status :  LocomotionInhibitStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-1 Locomotion status

The PCM shall provide the Locomotion Inhibit status(LocomotionInhibitStat) to SCMB via FD1 CAN when it receives RequestLocomotionInhibit and RequestLocomotionInhibitRelease

Satisfied by:

* Functions:
  + DisInhibit Locomotion
  + Inhibit Locomotion

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-1 | | | | | | | |
| **Rationale** | Feature Contoller intends to verify the Inhibition of Locomotion status before transitioning from drive to other Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Thompson, Scott (sthom340) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-1 Locomotion status

The PCM shall provide the Locomotion Inhibit status(LocomotionInhibitStat) to SCMB via FD1 CAN when it receives RequestLocomotionInhibit and RequestLocomotionInhibitRelease

Satisfied by:

* Functions:
  + DisInhibit Locomotion
  + Inhibit Locomotion

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-1 | | | | | | | |
| **Rationale** | Feature Contoller intends to verify the Inhibition of Locomotion status before transitioning from drive to other Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Thompson, Scott (sthom340) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -459229945.jpg Inhibit Locomotion

Component Function within Power train (PCM) responsible for Commanding to Inhibit Locomotion

##### Function Interfaces

###### Inputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Inputs: Inhibit Locomotion | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Subscriber Interface** | **Connection**  (*Optional)* |
| Review in model  Lomotion Inhibit Request  LocomotionRequest | Lomotion Inhibit Request :  RequestLocomotionInhibit | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Inputs | | | |

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

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Inhibit Locomotion | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Locomotion Inhibit Status  LocomotionInhibitStatus | Locomotion Inhibit Status :  LocomotionInhibitStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-1 Locomotion status

The PCM shall provide the Locomotion Inhibit status(LocomotionInhibitStat) to SCMB via FD1 CAN when it receives RequestLocomotionInhibit and RequestLocomotionInhibitRelease

Satisfied by:

* Functions:
  + DisInhibit Locomotion
  + Inhibit Locomotion

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-1 | | | | | | | |
| **Rationale** | Feature Contoller intends to verify the Inhibition of Locomotion status before transitioning from drive to other Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Thompson, Scott (sthom340) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

IR-1 Locomotion status

The PCM shall provide the Locomotion Inhibit status(LocomotionInhibitStat) to SCMB via FD1 CAN when it receives RequestLocomotionInhibit and RequestLocomotionInhibitRelease

Satisfied by:

* Functions:
  + DisInhibit Locomotion
  + Inhibit Locomotion

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-1 | | | | | | | |
| **Rationale** | Feature Contoller intends to verify the Inhibition of Locomotion status before transitioning from drive to other Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Thompson, Scott (sthom340) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

#### Technology Function -459229945.jpg Provide Transmission status

Function sending the Transmission status

##### Function Interfaces

###### Inputs

(No inputs have been defined)

###### Outputs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outputs: Provide Transmission status | | | | | | |
| **Logical Signal Name** | **Technical Signal Name** | | | **Mapping Details** *(Conditional)* | **Publisher Interface** | **Connection**  (*Optional)* |
| Review in model  Park status  VehicleStatus | Park status :  PrkStat | | |  |  |  |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.1 | End of Outputs | | | |

Table 5‑3: Output Signal mappings of Function Provide Transmission 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 5‑2: 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 5‑3: Component Specific Requirements

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

Table 5‑4: Inherited Requirements

###### Component Specific Requirements

IR-1 Locomotion status

The PCM shall provide the Locomotion Inhibit status(LocomotionInhibitStat) to SCMB via FD1 CAN when it receives RequestLocomotionInhibit and RequestLocomotionInhibitRelease

Satisfied by:

* Functions:
  + DisInhibit Locomotion
  + Inhibit Locomotion

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Requirement ID: IR-1 | | | | | | | |
| **Rationale** | Feature Contoller intends to verify the Inhibition of Locomotion status before transitioning from drive to other Mode | | | | | | |
| **Acceptance Criteria** |  | | | | | | |
| **Notes** |  | | | | | | |
| **Source** |  | | | | | **Owner** | Thompson, Scott (sthom340) |
| **Source Req.** |  | | | | | **V&V Method** |  |
| **Type** |  | | | **Priority** | 1 - High | **Status** | Ready for Review |
| [Req. Template](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes) Version | | 6.0 | End of Requirement | | | | |

## 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

| ID | Name | Satisfied By |
| --- | --- | --- |
| 826 | Tele/ Rake Ramp Start/ Stop | Deploy Steering Column  Stow Steering Column |

# Open Concerns

| ID | Concern Description | e-Tracker Reference | Status | Solution |
| --- | --- | --- | --- | --- |
| 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| 4 |  |  |  |  |

Table 6‑1: Open Concerns

# Revision History

No Revision History found.

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

## 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

DriverAirbagInhibitStatus

Status of the Driver Airbag Inhibition

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

Table: Signal Details of DriverAirbagInhibitStatus

DriverAirbagRequest

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

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

Table: Signal Details of DriverAirbagRequest

HMIFeedback

Feedback given to HMI

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

Table: Signal Details of HMIFeedback

LocomotionInhibitStatus

Status of the Locomotion Inhibition

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

Table: Signal Details of LocomotionInhibitStatus

LocomotionRequest

Request to Powertrain / Locomotion to Inhibit /Deinhibit

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

Table: Signal Details of LocomotionRequest

SeatMovementRequest

Command to Move seat which goes to the Driver seat System

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

Table: Signal Details of SeatMovementRequest

SeatPosition

Current Seat Position from the Driver Seat System

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

Table: Signal Details of SeatPosition

SteeringColumnRakePosition

Steering Column Position in Rake Position

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

Table: Signal Details of SteeringColumnRakePosition

SteeringColumnRequest

Request to Move steering Column with respect to selected Mode

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

Table: Signal Details of SteeringColumnRequest

SteeringColumnTelePosition

Steering Column Position in Tele Position

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

Table: Signal Details of SteeringColumnTelePosition

TrayLockStatus

Tray lock status is given by Tray Lock sensor

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

Table: Signal Details of TrayLockStatus

TrayPostionStatus

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

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

Table: Signal Details of TrayPostionStatus

UserInput

Input given by user through HMI

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

Table: Signal Details of UserInput

UserModeSelection

Mode selection information from User

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

Table: Signal Details of UserModeSelection

VehicleConfig

Configuration of the Feature and Vehicle Specific

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

Table: Signal Details of VehicleConfig

VehicleStatus

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

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

Table: Signal Details of VehicleStatus

### Logical Parameters

### Technical Signals

#### 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

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

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

Table: Encoding Details of RequestLocomotionInhibitRelease

LocomotionInhibitStatus

Status of the Locomotion Inhibition

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **INHIBITED** |  |
| **DEINHIBTED** |  |
| **Unit** | |  |

Table: Encoding Details of LocomotionInhibitStatus

SteeringColumnStatus

Position of the Steering Column provided by the steering column system

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **STOWED** |  |
| **DEPLOYED** |  |
| **FAILED\_TO\_STOW** |  |
| **FAILED\_TO\_DEPLOY** |  |
| **OBSTACLE\_DETECTED** |  |
| **NOT\_AVAILABLE** |  |
| **Unit** | |  |

Table: Encoding Details of SteeringColumnStatus

HMIFeedback

Feedback given to HMI

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

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

Table: Encoding Details of HMIFeedback

TrayMoveRequest

Internal Request of Feature Controller to Move Tray Table

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **DEPLOY** |  |
| **STOW** |  |
| **Unit** | |  |

Table: Encoding Details of TrayMoveRequest

MoveSteClmnTelescopeToDrvPos

Command to Move steering Column to Drive position

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

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

Table: Encoding Details of MoveSteClmnTelescopeToDrvPos

GS\_004949/B;1-SeatPos\_D\_Stat

Current Driver seat position

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

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

Table: Encoding Details of GS\_004949/B;1-SeatPos\_D\_Stat

TrayTableObstructionStat

Tray Table obstruction status

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

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

Table: Encoding Details of TrayTableObstructionStat

TrayTableCrossCarPos

Tray Table position (+- 12V Signal)

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

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

Table: Encoding Details of TrayTableCrossCarPos

SeatPosMoveRq

Request to Move Driver seat

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

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

Table: Encoding Details of SeatPosMoveRq

SteClmnPosSav\_D\_St

Stored Column Position Work

Memory position for Steering Column at work mode

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

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

Table: Encoding Details of SteClmnPosSav\_D\_St

TrayTableForeAftPos

Tray Table Fore Aft Position

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

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

Table: Encoding Details of TrayTableForeAftPos

CurrentSeatPosition

Driver seat system sending the information of current seat position

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

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

Table: Encoding Details of CurrentSeatPosition

SteClmnPosRake

Steering Column position in Rake Direction

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

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

Table: Encoding Details of SteClmnPosRake

SeatPosition

Current Seat Position from the Driver Seat System

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

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

Table: Encoding Details of SeatPosition

SteeringColumnRakePosition

Steering Column Position in Rake Position

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

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

Table: Encoding Details of SteeringColumnRakePosition

UserModeSelection

Mode selection information from User

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

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

Table: Encoding Details of UserModeSelection

DrvrAirbagDisinhbtRq

Request to De Inhibit the Airbag

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

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

Table: Encoding Details of DrvrAirbagDisinhbtRq

VehicleStatusValidity

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **VALID** |  |
| **INVALID** |  |
| **Unit** | |  |

Table: Encoding Details of VehicleStatusValidity

AirbagFarside\_B\_RqDactv

Request to Inhibit and DeInhibit Airbag

1. Request (AirbagInhbtRq )

2. No Request (DrvrAirbagDisinhbtRq)

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

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

Table: Encoding Details of AirbagFarside\_B\_RqDactv

UserInput

Input given by user through HMI

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **WORKMODE** |  |
| **RESTMODE** |  |
| **NONE** |  |
| **NOT\_AVAILABLE** |  |
| **RESET** |  |
| **DRIVEMODE** |  |
| **ABORT** |  |
| **TRAY\_MANUAL\_OVERIDE** |  |
| **Unit** | |  |

Table: Encoding Details of UserInput

TrayTableStowCmd

Command signal to Stow Tray

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

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

Table: Encoding Details of TrayTableStowCmd

DriveStateAvaiStatus

Drive state Availability status to user when the user intends to transit into Drive mode

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

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

Table: Encoding Details of DriveStateAvaiStatus

Seat Position request

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

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

Table: Encoding Details of Seat Position request

RestStateAvailabilityStatus

Mode Availability status if user intends to transit to rest mode

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

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

Table: Encoding Details of RestStateAvailabilityStatus

UserScreenNotification

Screen notification on HMI for User

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

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

Table: Encoding Details of UserScreenNotification

TrayStatus

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

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

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

Table: Encoding Details of TrayStatus

TrayTableLockStat

Tray Table Lock status

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

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

Table: Encoding Details of TrayTableLockStat

RetrieveSettings

Driver personalized settings stored by user earlier

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

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

Table: Encoding Details of RetrieveSettings

CurntClmPos

Current steering Column position

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

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

Table: Encoding Details of CurntClmPos

UserPersonalizationRequest

Driver request of Personalization

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

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

Table: Encoding Details of UserPersonalizationRequest

StoredColumnPositionRest

Memory position of steering Column in Rest mode

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

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

Table: Encoding Details of StoredColumnPositionRest

SeatPosSavDrv\_B\_Stat

Seat Position Arbitration status for User

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

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

Table: Encoding Details of SeatPosSavDrv\_B\_Stat

TrayCrossCarManualOverRide

Signal from user to override the Tray Table all the way from its cross car position to inside instrument panel

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

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

Table: Encoding Details of TrayCrossCarManualOverRide

TrayLockStatus

Tray lock status is given by Tray Lock sensor

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **TRAY\_LOCKED** |  |
| **TRAY\_UNLOCKED** |  |
| **TRAY\_FAILED\_TO\_LOCK** |  |
| **TRAY\_FAILED\_TO\_UNLOCK** |  |
| **Unit** | |  |

Table: Encoding Details of TrayLockStatus

TrayTableUnlockCmd

Command signal to Unlock Tray((Pulse -12V Digital signal )

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

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

Table: Encoding Details of TrayTableUnlockCmd

ManualCrossCarOverRideInput

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

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

Table: Encoding Details of ManualCrossCarOverRideInput

TrayTableDeployCmd

Command signal to Deploy Tray

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

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

Table: Encoding Details of TrayTableDeployCmd

DriverAirbagInhibitStatus

Status of the Driver Airbag Inhibition

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **OFF(INHIBITED)** |  |
| **(ON)DEINHIBIT** |  |
| **NotAvailable** |  |
| **Faulty** |  |
| **Unit** | |  |

Table: Encoding Details of DriverAirbagInhibitStatus

UserScreenLowSliNotification

Notification on User screen for Low sli

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

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

Table: Encoding Details of UserScreenLowSliNotification

SteeringColumnStatusInternal

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **STEERING\_COLUMN\_DEPLOYED** |  |
| **STEERING\_COLUMN\_FAILED\_TO\_DEPLOY** |  |
| **STEERING\_COLUMN\_STOWED** |  |
| **STEERING\_COLUMN\_FAILED\_TO\_STOW** |  |
| **Unit** | |  |

Table: Encoding Details of SteeringColumnStatusInternal

SteClmnPosDrvMde\_D\_St

Stored Column Memory Position Drive

Memory of Column memory position

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

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

Table: Encoding Details of SteClmnPosDrvMde\_D\_St

StoreSettings

Driver intended settings for personalization

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

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

Table: Encoding Details of StoreSettings

Tray/MtrLoad/ForceSensor

Tray Load status

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

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

Table: Encoding Details of Tray/MtrLoad/ForceSensor

ModeID

Mode which user requested to save the memory positions for

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

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

Table: Encoding Details of ModeID

CauseOfFailure

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **TRAY\_ERROR** |  |
| **SC\_ERROR** |  |
| **NONE** |  |
| **DRIVER\_SEAT\_ERROR** |  |
| **Unit** | |  |

Table: Encoding Details of CauseOfFailure

SteClmnPosTele

Steering Column position in Tele Direction

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

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

Table: Encoding Details of SteClmnPosTele

AirbagDrv\_B\_RqDactv

Request to Inhibit and DeInhibit Airbag

1. Request (AirbagInhbtRq )

2. No Request (DrvrAirbagDisinhbtRq)

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

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

Table: Encoding Details of AirbagDrv\_B\_RqDactv

StateSelectionSignal

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **WORK** |  |
| **PLAY** |  |
| **REST** |  |
| **DRIVE** |  |
| **ABORT** |  |
| **Unit** | |  |

Table: Encoding Details of StateSelectionSignal

ManualOverRideCmd

This is the User Input to Manual Override the Tray Table through its cross car position (electrical pulse to motor)

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

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

Table: Encoding Details of ManualOverRideCmd

ModeAcceptenceStatus

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **TRAY\_UNAVAILABLE** |  |
| **OTHER** |  |
| **INVALID\_VEHICLE\_STATUS** |  |
| **DRIVE\_MODE\_SELECTED** |  |
| **WORK\_MODE\_SELECTED** |  |
| **REST\_MODE\_SELECTED** |  |
| **Unit** | |  |

Table: Encoding Details of ModeAcceptenceStatus

SCRakePositonData

Position data for Overload /Obstacle for Rake Actuator

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

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

Table: Encoding Details of SCRakePositonData

TrayOverloadStatus

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

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

Table: Encoding Details of TrayOverloadStatus

LocomotionInhibitStat

Inhibit status of Locomotion

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

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

Table: Encoding Details of LocomotionInhibitStat

GS\_011436/A;1-AirbagDrv\_D\_Actv

Inhibit status of Driver Airbag(AirbagInhbtStat)

1.NotAvailable

2.Off

3.On (Default)

4. Fault

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

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

Table: Encoding Details of GS\_011436/A;1-AirbagDrv\_D\_Actv

TrayTableDeployStat

Tray Table Deploy status

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

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

Table: Encoding Details of TrayTableDeployStat

WorkStateAvailabilityStatus

Work state Availability status to user when the user intends to transit into work mode

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

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

Table: Encoding Details of WorkStateAvailabilityStatus

Personalization settings

User personalization settings for Seat and steering column positions

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

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

Table: Encoding Details of Personalization settings

SteeringColumnRequest

Request to Move steering Column with respect to selected Mode

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **DEPLOY** |  |
| **STOW** |  |
| **NONE** |  |
| **Unit** | |  |

Table: Encoding Details of SteeringColumnRequest

DisplayFeatureInstructions

Instructions for how to use Tray Table for User

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

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

Table: Encoding Details of DisplayFeatureInstructions

LearnNotificaiton

Feedback to user about the new positions learned of steering column and tray

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

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

Table: Encoding Details of LearnNotificaiton

UserModeSelectionFeedback

Feedback of User selection if tis failed or successfully selected

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

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

Table: Encoding Details of UserModeSelectionFeedback

UserPersonalizationFeedback

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

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

Table: Encoding Details of UserPersonalizationFeedback

UserIn

User Input

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

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

Table: Encoding Details of UserIn

Tray\_OverCurrentDetection

Over Current Detection for Tray Motors

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

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

Table: Encoding Details of Tray\_OverCurrentDetection

TrayMoveCommand

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **DEPLOY** |  |
| **STOW** |  |
| **NONE** |  |
| **ABORT** |  |
| **LOCK** |  |
| **UNLOCK** |  |
| **Unit** | |  |

Table: Encoding Details of TrayMoveCommand

SeatMovementStatusInternal

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **SEAT\_MOVED** |  |
| **SEAT\_FAILED\_TO\_MOVE** |  |
| **SEAT\_MOVING** |  |
| **Unit** | |  |

Table: Encoding Details of SeatMovementStatusInternal

StwblStewMde\_D\_Dsply

SSW/DTT Screen Notification

signal containing the information to convey on HMI about the mode

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

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

Table: Encoding Details of StwblStewMde\_D\_Dsply

Drivability Status

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **ALLOW\_DC\_DEINHIBITION** |  |
| **DONT\_ALLOW\_DC\_DEINHIBITION** |  |
| **Unit** | |  |

Table: Encoding Details of Drivability Status

MoveSteClmTelescopeToSelectedPos

Command to Move steering column to selected position

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

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

Table: Encoding Details of MoveSteClmTelescopeToSelectedPos

StoredSeatMemoryPositonRest

Memory position for Driver seat at Rest Mode

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

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

Table: Encoding Details of StoredSeatMemoryPositonRest

StwblStewMde\_D\_RqMnu

State Selection signal / Feature state selection command is the data of what mode user selected

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

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

Table: Encoding Details of StwblStewMde\_D\_RqMnu

SeatMovMdeSel\_D\_Rq

SeatPosMoveCmd

Signal to Move seat with respect to the mode selected

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

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

Table: Encoding Details of SeatMovMdeSel\_D\_Rq

RequestLocomotionInhibit

Request to Inhibit the Locomotion

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

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

Table: Encoding Details of RequestLocomotionInhibit

TrayTbleManOvrrd\_B\_Rq

Signal for Long press complete softkey override for tray table

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

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

Table: Encoding Details of TrayTbleManOvrrd\_B\_Rq

UpdatedRestSeatPosition

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

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

Table: Encoding Details of UpdatedRestSeatPosition

CmdSteClmnRakeToDrvPos

Command to Move steering Column to Drive Position

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

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

Table: Encoding Details of CmdSteClmnRakeToDrvPos

TrayObstacleStatus

Status of any obstacles present on the Work Surface /Tray

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **OBSTACLE\_DETECTED** |  |
| **NO\_OBSTACLE\_DETECTED** |  |
| **Unit** | |  |

Table: Encoding Details of TrayObstacleStatus

Seat and Profile Status

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

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

Table: Encoding Details of Seat and Profile Status

ModeTransitionFeedback

Feature Mode transition feedback for user

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

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

Table: Encoding Details of ModeTransitionFeedback

DriverAirbagRequest

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **Request(INHIBIT\_DRIVER\_AIRBAG\_REQUEST)** |  |
| **No\_Request (DEINHIBIT\_DRIVER\_AIRBAG\_REQUEST)** |  |
| **Unit** | |  |

Table: Encoding Details of DriverAirbagRequest

SteeringColumnTelePosition

Steering Column Position in Tele Position

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

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

Table: Encoding Details of SteeringColumnTelePosition

CmdSteClmnRakeToSelectedPos

Command to Move steering Column to Selected Position

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

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

Table: Encoding Details of CmdSteClmnRakeToSelectedPos

HMIInsWar

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **HMI\_INSTRUCTIONS\_FOR\_TRAY** |  |
| **HMI\_INSTRUCTIONS\_FOR\_SC** |  |
| **Unit** | |  |

Table: Encoding Details of HMIInsWar

Tray Position Data

Tray Position data for Overload /Obstacle

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

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

Table: Encoding Details of Tray Position Data

VehicleConfig

Configuration of the Feature and Vehicle Specific

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

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

Table: Encoding Details of VehicleConfig

StoredColumnPositionStatus

Status of storing Memory position for Steering Column

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

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

Table: Encoding Details of StoredColumnPositionStatus

StwblStewMde\_D\_Stat

Ssw/DttStateStat

Current state of Feature

Signal containing the information to convey to HMI about the Mode transition status

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

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

Table: Encoding Details of StwblStewMde\_D\_Stat

Lock Vs Unlock

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

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

Table: Encoding Details of Lock Vs Unlock

Veh\_V\_ActlBrk

Vehicle Velocity as seen by the brake

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

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

Table: Encoding Details of Veh\_V\_ActlBrk

LocomotionRequest

Request to Powertrain / Locomotion to Inhibit /Deinhibit

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **INHIBIT\_LOCOMOTION\_REQUEST** |  |
| **DEINHIBIT\_LOCOMOTION\_REQUEST** |  |
| **Unit** | |  |

Table: Encoding Details of LocomotionRequest

InhibitStatus

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **DC\_INHIBITED** |  |
| **DC\_FAILED\_TO\_INHIBIT** |  |
| **DC\_DEINHIBITED** |  |
| **DC\_FAILED\_TO\_DEINHIBIT** |  |
| **Unit** | |  |

Table: Encoding Details of InhibitStatus

InhbtStat

Inhibit status after Locomotion status and Driver Airbag Inhibit status verified

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

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

Table: Encoding Details of InhbtStat

Termination Signal

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

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

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

Table: Encoding Details of Termination Signal

BattStateOfChrg

Battery state of Charge

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

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

Table: Encoding Details of BattStateOfChrg

SCTelePositionData

Position data for Overload /Obstacle for Tele Actuator

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

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

Table: Encoding Details of SCTelePositionData

UpdatedWorkSeatPosition

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

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

Table: Encoding Details of UpdatedWorkSeatPosition

StoredSeatMemoryPositionWork

Memory position for Driver seat at Work Mode

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

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

Table: Encoding Details of StoredSeatMemoryPositionWork

TrayTableLockCmd

Command signal to Lock Tray (Pulse +12V Digital signal )

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

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

Table: Encoding Details of TrayTableLockCmd

TrayPostionStatus

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

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **DEPLOYED** |  |
| **STOWED** |  |
| **FAILED\_TO\_DEPLOY** |  |
| **FAILED\_TO\_STOW** |  |
| **IN\_MOTION** |  |
| **Unit** | |  |

Table: Encoding Details of TrayPostionStatus

SC\_OverCurrentDetection

Over Current Detection for steering Column Motors

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

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

Table: Encoding Details of SC\_OverCurrentDetection

SeatMovementRequest

Command to Move seat which goes to the Driver seat System

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

|  |  |  |
| --- | --- | --- |
| **Value**  (Continuous Encoding) | Min Value |  |
| Max Value |  |
| Resolution |  |
| Offset |  |
| **Value**  (Discrete  Encoding) |  |  |
| **WORK** |  |
| **REST** |  |
| **DRIVE** |  |
| **NONE** |  |
| **Unit** | |  |

Table: Encoding Details of SeatMovementRequest

AirbagFarside\_D\_Actv

Inhibit status of Driver Airbag(AirbagInhbtStat)

1.NotAvailable

2.Off

3.On (Default)

4. Fault

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

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

Table: Encoding Details of AirbagFarside\_D\_Actv

TrayMotorLoad

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

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

Table: Encoding Details of TrayMotorLoad

StateOfFeature

Current state of Feature and other warnings

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

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

Table: Encoding Details of StateOfFeature

VehicleStatus

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

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

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

Table: Encoding Details of VehicleStatus

SSW/DttScreenNotification

Feedback for user about the Mode Transition

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

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

Table: Encoding Details of SSW/DttScreenNotification

UserStateSelection

Feedback for User of what he selected

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

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

Table: Encoding Details of UserStateSelection

SeatMemPosDrv\_D\_Stat

Memory position for Driver seat at Drive Mode

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

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

Table: Encoding Details of SeatMemPosDrv\_D\_Stat

PrkStat

Vehicle Parking status

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

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

Table: Encoding Details of PrkStat

### Technology State Machines

Document ends here.