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| Document Approval | | | | |
| Name | Role | | Email Confirmation | Date |
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# Introduction

## Document Purpose

The Function (Group) Specification (FS) specifies an individual function / a group of functions.

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 Audience

The FS is authored by the owners of the individual functions. All Stakeholders, i.e., all people who have a valid interest in the functions and their behavior should read and, if possible, review the FS. It needs to be guaranteed, that all stakeholders have access to the currently valid version of the FS.

### Stakeholder List

For the latest list of the feature stakeholder and their roles & responsibilities refer to <Put VSEM Link here>.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **CDSID** | **Org.** | **Title** | **Project Role** |
| John Van Wiemeersch | jvanviem | RA&E, Adv. Feat. Development | Supervisor | Design Support |
| Aaron DeLong | adelong2 | RA&E, Adv. Feat. Development | Research Engineer | Research Design Lead |
| Vivek Elangovan | velango5 | RA&E, Adv. Feat. Development | Research Engineer | Design Support |
| Rita Trupiano | mtrupia1 | PD, Sys. Eng.,  Distributed Feat. | Feature Owner Supervisor | Feature Owner Supervisor |
| Eugene Karpinsky | ekarpins | PD, Sys. Eng.,  Distributed Feat. | Core Feature Owner | Production Design Lead and Feature Owner |
| Farhan Ehsan | fehsan2 | PD, Sys. Eng.,  Distributed Feat. | Core Feature Owner | Production Design Lead and Feature Owner |
| Aaron Bonnell-kangas | Abonnel1 | PD, Sys. Eng.,  Distributed Feat. | Core Feature Owner | Production Design Lead and Feature Owner |
| Matt Swis | mswis | PD, EESE, Body & Security Elec. | Core Security & RF Supervisor | NFC System Owner Supervisor |
| Nisha Patel | npate152 | PD, EESE, Body & Security Elec. | Core NFC Engineer | NFC System Owner |
| David Hernandez | dhern138 | PD, EESE, Body & Security Elec. | Core NFC Engineer | NFC System Owner |
| Suthagaran Nagarasa | snagaras | PD, EESE, Body & Security Elec. | Core NFC Engineer | NFC System Owner |
| Kevin Hille | khille | PD, EESE, Body & DAT SW | Technical Specialist – Immob. | NFC Immobilizer Function Owner, Design Support |
| John Ricks | jricks7 | PD, EESE, Body & DAT SW | Software Supervisor | Software Supervisor |
| John Popovecz | jpopovec | PD, EESE, Body & DAT SW | Body Module SW Supervisor | Body Module SW Supervisor |
| Hosam Irsheid | hirsheid | PD, EESE, Body & DAT SW | Software Engineer | Software Design |
| Sam Mehdi | hmehdi | PD, EESE, Body & DAT SW | Product Design Engineer | Software Design |
| Vishala Pasala | vpasala | PD, EESE, Body & DAT SW | Software Engineer | Software Design |
| Maeen Mawari | mmawari | PD, EESE, Body & DAT SW | MBSE Engineer | Software Design |
| Eric Reed | ereed2 | PD, EESE, Body & DAT SW | VSC SW Engineer | Software Design |
| Ahmad Sabri | asabri3 | PD, EESE, Body & DAT SW | PD Engineer | Software Design |
| Jeff Lossing | jlossing | PD, EESE, Body & DAT SW | Software Engineer | Software Design |
| Andrew Hall | ahall185 | PD, EESE, Body & DAT SW | Design Engineer, BCM Software | Software Design |
| Sachin Magar | smagar | PD, EESE, Body & DAT SW | Design Engineer, BCM Software | Software Design |
| Akshita Kulkarni | akulka2 | PD, EESE, Body & DAT SW | Design Engineer, BCM Software | Software Design |
| Adithya Ramachandran | aramac11 | PD, EESE, Body & DAT SW | Software Engineer | Software Design |
| S Bagga | sbagga11 | PD, EESE, Body & DAT SW | Software Engineer | Software Design |
| Gail Cheng | gcheng | PD, In-Vehicle Infotainment & Connectivity | Infotainment Systems Supervisor | Infotainment System Design Supervisor |
| Matthew Borrelli | mborrel4 | PD, In-Vehicle Infotainment & Connectivity | Infotainment Systems Engineer | Infotainment System Design |
| Laura Check | lburek | PD, In-Vehicle Infotainment & Connectivity | SYNC Supervisor | SYNC System Supervisor |
| Iqbal Faheem Sayyed | isayyed | PD, In-Vehicle Infotainment & Connectivity | SYNC Technical Program Manager | SYNC Technical Program Manager |
| Scott Watkins | swatkins | PD, In-Vehicle Infotainment & Connectivity | DI Technical Expert | Driver Information Design Support |
| Stavros Dionyssopoulos | sdionyss | PD, CIED | DI HMI Engineer | Driver Information HMI Support |
| Nicholas Davio | ndavio | PD, CIED | HMI Supervisor | HMI Support Supervisor |
| Mack Dobbie | mdobbie | PD, CIED | HMI Designer | HMI Support |
| Montana Pruett | mpruett2 | PD, CIED | I&E Engineer | I&E Support |
| Patrick Brautigan | pbrautig | PD, CIED | UX Engineer | UX Support |
| Jeffrey Hamel | jhamel7 | PD, Enterprise Connectivity | Product Owner, TPM | Ford Mobile App Design |
| Michael Martinez | mmart664 | PD, Mobility | Product Manager | Ford Mobile App Design |
| Bruce Williams | bwilli28 | PD, EESE, Netcom Core | Product Design Engineer | Electrical Architecture Consult |
| Jim Lawlis | jlawlis | PD, EESE, Advanced Netcom | Technical Specialist - Netcom | Electrical Architecture Consult |
| Nhi Torres | ntorres5 | PD, EESE, Netcom Diag. | Supervisor | Electrical Architecture Consult |
| Eric Paton | epaton | PD, EESE, Netcom Diag. | Engineer | Electrical Architecture Consult |
| Ankita Vyas | avyas8 | PD, EESE, Functional Safety | Functional Safety Engineer | Functional Safety Consult |
| Juan Tejada | jtejeda6 | PD, EESE, MBSE | Modelling Expert | Modelling Support |
| Ahmet Cinar | acinar1 | PD Europe, Underbody EESE | Tech. Expert – Closure Electronics | Closure Design Consult |
| Uwe Zank | uzank | PD Europe, Underbody EESE | Supervisor, Security Electronics | Security Design Consult |
| Denney Vellaramkalayil | dvellara | PD Europe, Underbody EESE | System Engineer, Locking Application | Locking Design Support |
| Henry Popow | hpopow | Quality, EESE | Quality Engineer | Quality Coach |
| Gerard Szczepaniak | gszczepa | Quality, EESE | Quality Engineer | Quality Coach |
| Christina Bloxsom | cbloxsom | SE&SE, ASO, Adv. Policy | Subject Matter Expert | Safety & Regulations Consult |
| Mike Westra | mwestra | IT, Cybersecurity | Technical Leader – Security | Cybersecurity Consult |
| Jochen Schubert | jschub1 | IT, Cybersecurity | Cybersecurity Engineer | Cybersecurity Design Support |
| Dan Zajac | dzajac8 | IT, Cybersecurity | Cybersecurity Supervisor | Cybersecurity Supervisor |
| Jacob Nelson | jnels148 | IT, Cybersecurity | Cybersecurity Engineer | Cybersecurity Design Support |
| Xin Ye | xye7 | IT, Cybersecurity | Technical Specialist - Security | Cybersecurity Consult |
| Simon Hurr | shurr | IT, Cybersecurity | Security Application Specialist | Cybersecurity Consult |
| Mike Simons | msimon78 | IT, CVP&P, PaaK | Systems Engineer | Off Board Function Owner Lead |
| Faten Fawaz | ffawaz | IT, CVP&P, Basic Design | Basic Design Architect | Backend Infrastructure Design Lead |
| Steve Craig | scraig33 | IT, CVP&P, Integration | Technical Program Manager | Backend Infrastructure Design Support |
| Yona Shaposhnik | yshaposh | IT, MPS, Mobility Arch. | Solution Architect | Backend Infrastructure Design Support |
| Michelle Moody | mmoody1 | IT, Mobility, FCS | Director | Project Champion – Fleet |
| Robert Johnson | rjohns75 | IT, Mobility, FCS | Product Marketing Manager | Project Champion – Fleet |
| Mustapha Elkhatib | melkhat1 | IT, Mobility, FCS | Product Manager | Fleet Infrastructure Design Support |
| Geoffrey Scofield | gscofiel | IT, Mobility, FCS | Product Engineer | Fleet Infrastructure Design Support |
| Jennifer Oak | joak | MS&S, US Marketing | Connected Marketing Manager | Project Champion – Retail |
| Timothy Son Hing | tsonhin1 | MS&S, US Marketing | Marketing Manager | Project Champion – Retail |

## 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 FS relates to other Ford Requirements Documents and Specifications.

### Document Structure

The structure of this document is explained below:

**Section 1** – Introduction how to use this document including responsibilities and requisite documents. Explains the tterminology. Gives a clarification of the definitions, concepts and abbreviations used in the document.

**Section 2** – Function Group Description. Gives an overview and the purpose of the function group.

**Section 3** – Functional Architecture: Specifies the overall functional architecture of the function group

**Section 4** – Function Specifications: Specifies the logical functions of the function group in detail

**Section 5** – List of Open Concerns

**Section 6** Revision history including a list of new or modified requirements. The requirements in this document are tagged, and this section contains different types of tables listing all, new, or changed requirements by their title and page no.

**Section 7** – Appendix: Presenting additional data mainly in a tabular form, e.g., a data dictionary

## Document Conventions

### Terminology

When referring to aspects of the system design, this document uses standardized language to avoid ambiguity and confusion. The following terms are of particular relevance to this document:

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Configuration parameter | A property of a system that is stored in nonvolatile memory and not expected to be changed during system operation. Examples include assigned serial numbers that are unique to each module and static. |
| Runtime variable | A property of a system that can be read and modified during normal system operation. The variable might be stored in volatile or nonvolatile memory. Examples include stored/saved records, system states, and measured values. |
| Message | A message defines a data structure whose elements are all transmitted simultaneously. The message might be transmitted within a single system, or across a network between two separate systems.  The term “message” is used here to reduce confusion when discussing automotive system behaviors. As it is used in this document, a “message” is identical to the concept of a “signal” as defined in UML/SysML.  A message may or may not contain *signals* – see below. |
| Signal | A signal is a single data element within a message. A signal cannot be transmitted independently of a message, but a message can be transmitted without any signals.  As it is used in this document, a signal corresponds to the UML/SysML concept of a *property*. |

### Requirements Templates

Each requirement, use case or scenario in this specification shall follow the corresponding template given in the document template *Specification\_Macros.dotm* at [RE Wiki - Specification Templates](http://wiki.ford.com/display/RequirementsEngineering/Specification+templates?src=contextnavpagetreemode).

#### Identification of Requirements

#### Requirements Attributes

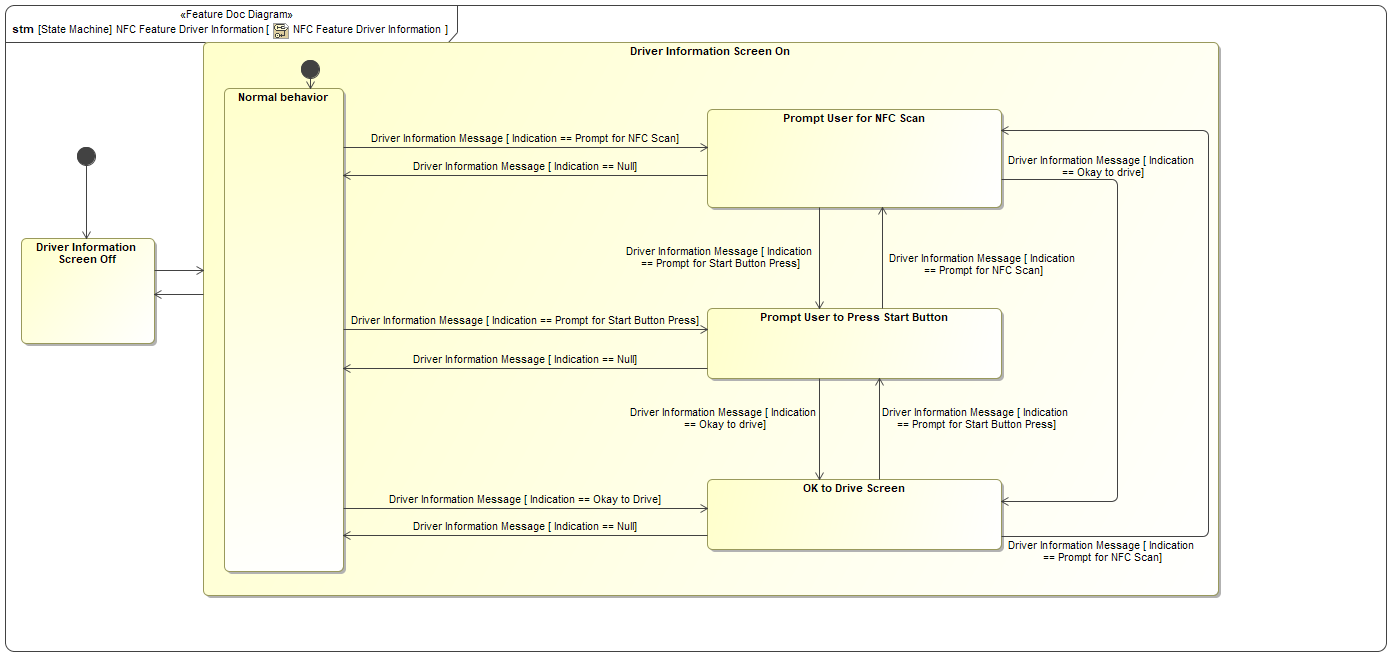
The templates provided by *Specification\_Macros.dotm* define a list of attributes for each requirement. This helps to classify the requirement. The attributes are explained at [RE Wiki - Requirements Attributes](http://wiki.ford.com/display/RequirementsEngineering/Requirements+Attributes?src=contextnavpagetreemode).

# Function Group Description

This Function Group consists of documentation about the logical system component 1267920963.png **Driver Information System.**.

## Driver Information System Logical System Behavior

NFC Feature Driver Information



## Logical System Properties

## Logical System Requirements

REQ-NFC-ES-254 Displaying OK to Drive Screen from Prompt User for NFC Scan

When the Driver Information System is "ON" displaying "Prompt User for NFC Scan", and the following conditions occurs:

- The Driver Information System receives Driver Information Message "Indication == OK to Drive"

Then the "NFC Feature Driver Information" shall display the "OK to Drive" screen.

REQ-NFC-ES-256 Displaying Prompt User for NFC Scan screen from OK to Drive Screen

When the Driver Information System is "ON" displaying "OK to Drive Screen", and the following conditions occurs:

- The Driver Information System receives Driver Information Message "Indication == "Prompt for NFC Scan"

Then the "NFC Feature Driver Information" shall display the "Prompt User for NFC Scan" screen.

REQ-NFC-ES-257 Displaying Prompt User for NFC Scan screen from Prompt User for Press Start Button Screen

When the Driver Information System is "ON" displaying "Prompt User to Press Start Button", and the following conditions occurs:

- The Driver Information System receives Driver Information Message "Indication == "Prompt for NFC Scan"

Then the "NFC Feature Driver Information" shall display the "Prompt User for NFC Scan" screen.

REQ-NFC-ES-259 Displaying OK to Drive Screen from normal behavior

When the Driver Information System is "ON" displaying "Normal Behavior", and the following conditions occurs:

- The Driver Information System receives Driver Information Message "Indication == OK to Drive"

Then the "NFC Feature Driver Information" shall display the "OK to Drive" screen.

REQ-NFC-ES-263 Displaying Prompt User to Press Start Button screen from normal behavior

When the Driver Information System is "ON" displaying "Normal Behavior", and the following conditions occurs:

- The Driver Information System receives Driver Information Message "Indication == "Prompt for Start Button Press"

Then the "NFC Feature Driver Information" shall display the "Prompt User for Press Start Button" screen.

REQ-NFC-ES-265 Normal Behavior from OK to Drive Screen

When the Driver Information System is "ON" displaying "OK to Drive Screen", and the following conditions occurs:

- The Driver Information System receives "Driver Information" Message with "Indication" Signal == "NULL"

Then the "NFC Feature Driver Information" shall display the "Normal Behavior" screen.

REQ-NFC-ES-266 Displaying OK to Drive Screen from Prompt User to Press Start Button

When the Driver Information System is "ON" displaying "Prompt User to Press Start Button", and the following conditions occurs:

- The Driver Information System receives "Driver Information" Message with "Indication" Signal == OK to Drive

Then the "NFC Feature Driver Information" shall display the "OK to Drive" screen.

REQ-NFC-ES-269 Normal Behavior from Prompt User for NFC Scan screen

When the Driver Information System is "ON" displaying "Prompt User for NFC Scan screen", and the following conditions occurs:

- The Driver Information System receives "Driver Information" Message with "Indication" Signal == NULL

Then the "NFC Feature Driver Information" shall display the "Normal Behavior" screen.

# end

#

REQ-NFC-ES-275 Displaying Prompt User to Press Start Button from OK to Drive Screen

When the Driver Information System is "ON" displaying "OK to Drive Screen", and the following conditions occurs:

- The Driver Information System receives "Driver Information" Message with "Indication" Signal == "Prompt for Start Button Press"

Then the "NFC Feature Driver Information" shall display the "Prompt User for Press Start Button" screen.

REQ-NFC-ES-277 Displaying Prompt User for Press Start Button Screen from Prompt User for NFC Scan screen

When the Driver Information System is "ON" displaying "Prompt User to Press Start Button", and the following conditions occurs:

- The Driver Information System receives "Driver Information" Message with "Indication" Signal == "Prompt for Start Button Press"

Then the "NFC Feature Driver Information" shall display the "Prompt User for Press Start Button" screen.

REQ-NFC-ES-280 Normal Behavior from Prompt User for Press Start Button Screen

When the Driver Information System is "ON" displaying "Prompt User to Press Start Button", and the following conditions occurs:

- The Driver Information System receives "Driver Information" Message with "Indication" Signal == NULL

Then the "NFC Feature Driver Information" shall display the "Normal Behavior" screen.

REQ-NFC-ES-281 Displaying Prompt User for NFC Scan screen from normal behavior

When the Driver Information System is "ON" displaying "Normal Behavior", and the following conditions occurs:

- The Driver Information System receives "Driver Information" Message with "Indication" Signal == "Prompt for NFC Scan"

Then the "NFC Feature Driver Information" shall display the "Prompt User for NFC Scan" screen.

# Operational modes and states

## NFC Feature Driver Information

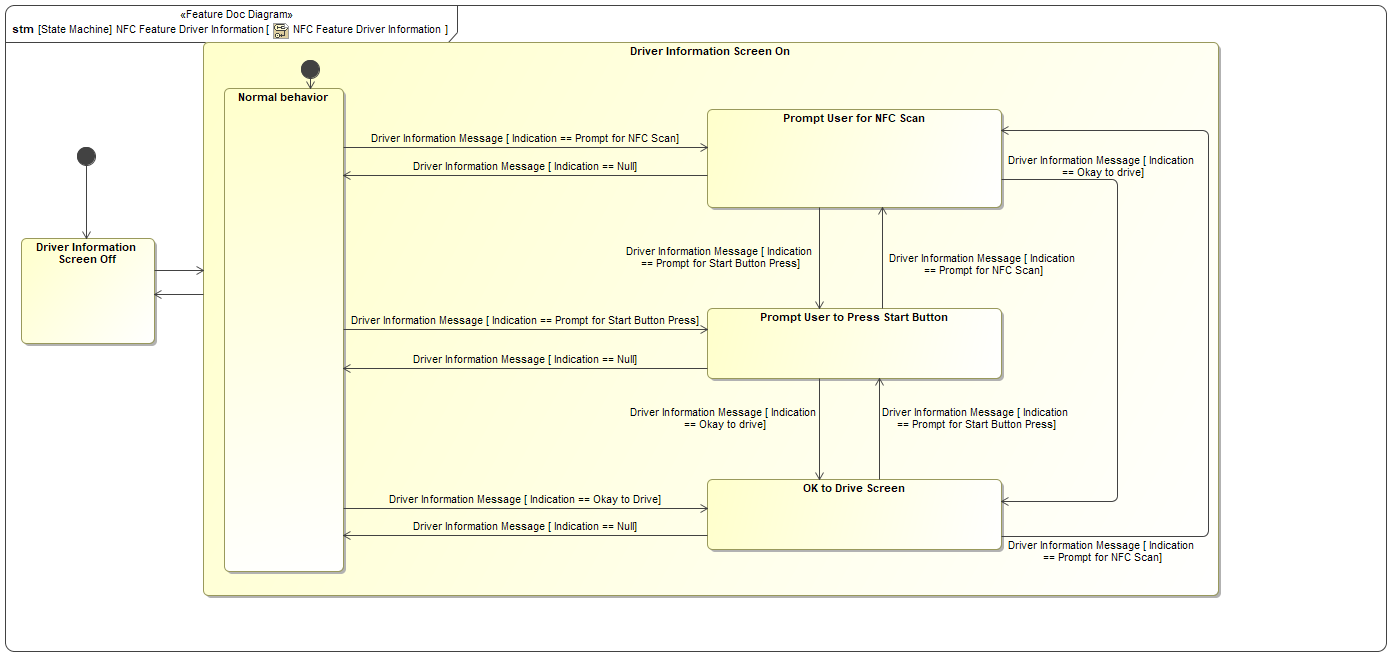


Figure 1: NFC Feature Driver Information

### NFC Feature Driver Information states

|  |  |
| --- | --- |
| **State** | **Description** |
| Driver Information Screen Off | State where the driver information is off either due to the vehicle being asleep or a different feature requesting the display to be turned off |
| Driver Information Screen On | State where the Driver Information Screen is On |
| Normal behavior | Sub-state of “Driver Information Screen On” State where it is display non-NFC Feature or vehicle starting related indication |
| OK to Drive Screen | Sub-state of “Driver Information Screen On” State prompting the driver it is okay to drive |
| Prompt User for NFC Scan | Sub-state of “Driver Information Screen On” State prompting the driver to scan their NFC Device at the interior reader |
| Prompt User to Press Start Button | Sub-state of “Driver Information Screen On” State prompting the driver to press the start button/brake pedal in order to start the vehicle |

Table 1: Operation Modes and States on NFC Feature Driver Information

### NFC Feature Driver Information requirements

No functions specified.

# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Date | Description | Responsible |
| 2020-08-24 | 8/24/2020 | Initial Functional Specification release for UPV1 | Abonnel1, Fehsan2,  Ekarpins |
|  |  |  |  |

## Template Revisions

*#Important: Do not change this section*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Version | Rev. | Date | Description | Responsible |
| *1* | *0* | *2016-02-26* | *Initial version, derived from FDS* | *Jbaden1* |
| *1* | *1* | *2016-02-26* | *Word properties corrected* | *Jbaden1* |
| *1* | *2* | *2016-03-10* | *Clean up of document meta data (Word properties)* | *Jbaden1* |
| *1* | *3* | *2016-03-22* | * *Footer formatting corrected (Issue 19)* * *“Constraints” chapter renamed to “Input Requirements” (Issue 20)* | *Jbaden1* |
| *1* | *4* | *2016-04-20* | * *Broken Wiki links repaired* | *Jbaden1* |
| *2* | *0* | *2016-06-10* | * *Document metadata adapted. Prepared for new macros* * *DTC table removed* * *HMI function added as a chapter (details still to be refined)* * *Signal / Parameter IDs column deleted interface tables* | *Jbaden1* |
| *2* | *1* | *2016-07-14* | * *Converted to SysML diagrams* * *HMI section further elaborated* * *Template version added to footer* * *Dedicated Startup / Shutdown sections removed (only hints added)* * *Data Dictionary reworked and Signal / Parameter IDs column re-introduced* | *Jbaden1* |
| *2* | *2* | *2016-12-07* | * *Minor formatting changes* | *Jbaden1* |
| *3* |  |  | *Skipped to synchronize with Specification\_Macros.dotm* |  |
| *4* |  |
| *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* | * *Some additional hints.* * *Hyperlinks highlighted in hints* | *Jbaden1* |
| *6* | *0* | *2017-04-28* | * *Editorial change. Hints added to chapter 4.1.4* * *Chapter “Traceability Matrix” removed* | *Jbaden1* |
| *6* | *0* | *2018-04-28* | * *CR69/63: New chapters added for Functional Safety (FTTI and Technical Safety Requirements)* * *CR53: New coversheet + additional meta-data* * *CR76: merge sections for configuration and for calibration parameters into one on Function Level* | *Jbaden1* |
| *6* | *0* | *2018-08-06* | * *CR66: Fix version numbering in footer of Function Spec* | *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* | *2018-11-12* | * *Explanatory text in Variants” section revised* * *Functional Safety modifications as agreed with FuSa core team (Baseline: November 2018 Dearborn On-Site)* | *Jbaden1* |
| *M* |  | *2019-04-02* | * *Initial version of SysML report template* | *snuesch* |
| *M* |  | *2019-04-05* | * *Improved dialog boxes to select function group* | *snuesch* |

# Appendix

## Data Dictionary

### Logical Messages

#### Driver information message

Message sent from the Body Control System to the Driver Information System that is used for giving NFC Scanning and Starting specific instruction

##### Driver information message – owned signals

|  |  |  |
| --- | --- | --- |
| **Signal** | **Description** | **Type (encoding)** |
| Indication | Indication to inform the driver whether they need to scan their NFC Device, press the start button or if they're okay to drive. Set to Null for all other conditions | Driver info indication |
|

### Data Types (encodings)

#### Driver Info Indication

Specific action a Driver need to take in order to be able to either start or drive their vehicle

|  |  |
| --- | --- |
| **Enumeration Values** | **Enumeration Value Description** |
| Prompt for NFC Scan | Driver is required to Scan their NFC Device in order to proceed |
| Prompt for Start Button Press | Driver is required to press start button in order to proceed |
| Okay to Drive | Indicate conditions to drive vehicle have been met |
| Null | No indication requested |

Document ends here.