**Module Design Document**

**For**

**HiLoadStallLimr**

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**Prepared By:**

**Jayakrishnan T,**

**Nexteer Automotive,**

**Saginaw, MI, USAChange History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Author** | **Version** | **Date** |
| Initial Version | Krishna Kanth Anne | EA4 01.00.01 | 19-Aug-2015 |
| Updated to Design Ver 2.0.0 | Matthew Leser | 2.0 | 28-Feb-2017 |
| Updated Diagram | Matthew Leser | 3.0 | 20-Oct-2017 |
| Updated Local constant values | Jayakrishnan T | 4.0 | 22-Mar-2018 |

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# Introduction

## Purpose

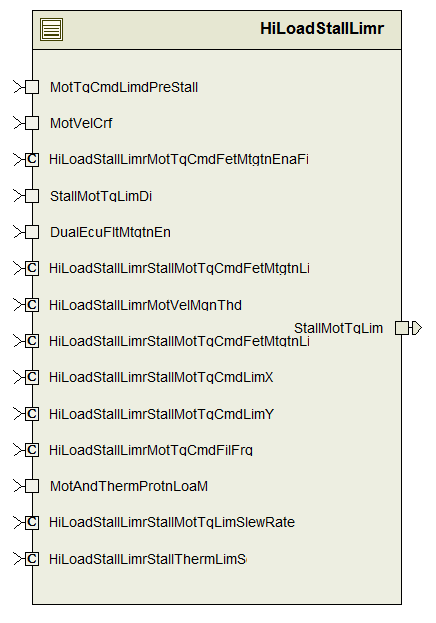
MDD for HiLoadStallLimr

# HiLoadStallLimr & High-Level Description

Please refer FDD.

# Design details of software module

## Graphical representation of HiLoadStallLimr



## Data Flow Diagram

Please refer FDD.

### Component level DFD

### Function level DFD

# Constant Data Dictionary

## Program (fixed) Constants

### Embedded Constants

#### Local Constants

|  |  |  |  |
| --- | --- | --- | --- |
| Constant Name | Resolution | Units | Value |
| Please refer .m file |  |  |  |
| IVTRLOABITMASK\_CNT\_U08 | 1 | CNT | 2U |
| FETLOABITMASK\_CNT\_U08 | 1 | CNT | 4U |

# Software Component Implementation

## Sub-Module Functions

None

## Init: HiLoadStallLimrInit1

## Design Rationale

## Module Outputs

None

## Per: HiLoadStallLimrPer1

## Design Rationale

None

## Store Module Inputs to Local copies

Please refer FDD

## (Processing of function)………

Please refer FDD

## Store Local copy of outputs into Module Outputs

Please refer FDD

## Server Runables

None

## Interrupt Functions

None

## Module Internal (Local) Functions

## Local Function #1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function Name** | None | Type | Min | Max |
| **Arguments Passed** | None | NA | NA | NA |
|  | None | NA | NA | NA |
| **Return Value** | NA | NA | NA | NA |

## GLOBAL Function/Macro Definitions

## GLOBAL Function #1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Function Name** | NA | Type | Min | Max |
| **Arguments Passed** | None |  |  |  |
|  | NA |  |  |  |
| **Return Value** | NA |  |  |  |

# Known Limitations with Design

None

# UNIT TEST CONSIDERATION

None

Abbreviations and Acronyms

| **Abbreviation or Acronym** | **Description** |
| --- | --- |
|  |  |
|  |  |

Glossary

**Note**: Terms and definitions from the source “Nexteer Automotive” take precedence over all other definitions of the same term. Terms and definitions from the source “Nexteer Automotive” are formulated from multiple sources, including the following:

* ISO 9000
* ISO/IEC 12207
* ISO/IEC 15504
* Automotive SPICE® Process Reference Model (PRM)
* Automotive SPICE® Process Assessment Model (PAM)
* ISO/IEC 15288
* ISO 26262
* IEEE Standards
* SWEBOK
* PMBOK
* Existing Nexteer Automotive documentation

| **Term** | **Definition** | **Source** |
| --- | --- | --- |
| MDD | Module Design Document |  |
| DFD | Data Flow Diagram |  |

References

| **Ref. #** | **Title** | **Version** |
| --- | --- | --- |
| 1 | AUTOSAR Specification of Memory Mapping (Link:[AUTOSAR\_SWS\_MemoryMapping.pdf](http://www.autosar.org/download/R4.0/AUTOSAR_SWS_MemoryMapping.pdf)) | v1.3.0 R4.0 Rev 2 |
| 2 | MDD Guideline | EA4 01.00.00 |
| 3 | [Software Naming Conventions.doc](http://misagweb01.nexteer.com/eRoomReq/Files/erooms8/NextGeneration/0_fc55f/Software%20Naming%20Conventions%2003x(In%20Work).doc) | 1.0 |
| 4 | [Software Design and Coding Standards.doc](http://eroom1.nexteer.com/eRoomReq/Files/erooms8/NextGeneration/0_1a67a9/Software%20Design%20and%20Coding%20Standards.doc) | 2.0 |
| 5 | FDD : SF017A\_HiLoadStallLimr\_Design | See Synergy sub project version |