**Module Design Document**

**For**

**‘AssiSumLim’**

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# Abbrevations And Acronyms

|  |  |
| --- | --- |
| Abbreviation | Description |
| DFD | Design functional diagram |
| MDD | Module design Document |
| FDD | Functional Design Document |

# References

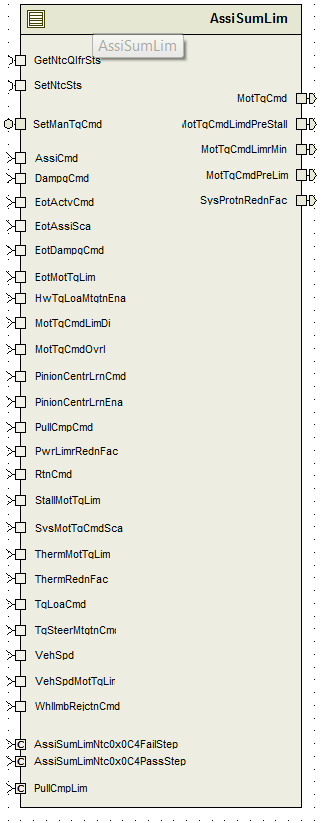
This section lists the title & version of all the documents that are referred for development of this document

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| Sr. No. | Title | Version |
| 1 | MDD Guidelines | Process 3.06.00 |
| 2 | Software Naming Conventions | Process 3.06.00 |
| 3 | Software Design and Coding standards | Process 3.06.00 |
| 4 | FDD - SF004B\_AssiSumLim\_Design | See Synergy sub project version |
|  |  |  |

# AssiSumLim High-Level Description

# Design details of software module

## Graphical representation of AssiSumLim



## Data Flow Diagram

*Refer FDD*

## Module level DFD

*Refer FDD*

## Sub-Module level DFD

*Refer FDD*

## COMPONENT FLOW DIAGRAM

*Refer FDD*

# Variable Data Dictionary

## User defined typedef definition/declaration

*<This section documents any user types uniquely used for the module.>*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Typedef Name | Element Name | User Defined Type | Legal Range  (min) | Legal Range  (max) |
| None |  |  |  |  |
|  |  |  |  |  |

## Variable definition for enumerated types

|  |  |  |
| --- | --- | --- |
| Enum Name | Element Name | Value |
| None |  |  |

# Constant Data Dictionary

## Program(fixed) Constants

## Embedded Constants

## Local

|  |  |  |  |
| --- | --- | --- | --- |
| Constant Name | Resolution | Units | Value |
|  |  |  |  |

**Note**: Refer .m file for constants definitions.

## Global

|  |
| --- |
| Constant Name |
| None |

## Module specific Lookup Tables Constants

|  |  |  |  |
| --- | --- | --- | --- |
| Constant Name | Resolution | Value | Software Segment |
| None |  |  |  |

# Software Module Implementation

## Sub-Module Functions

## Initialization Functions

*AssiSumLimInit1*

## INIT: AssiSumLimInit1

## Design Rationale

*Design follows implemenetation in FDD.*

## Module Outputs

*Refer ‘AssiSumLimInit1’ block in FDD*

## Module Internal

None

## PERIODIC FUNCTIONS

## Per: AssiSumLimPer1

## Design Rationale

*Design follows implementation in FDD.*

## Store Module Inputs to Local copies

*Refer to FDD*

## (Processing of function)………

*Refer to FDD (Block ‘AssiSumLmtPer1’)*

## Store Local copy of outputs into Module Outputs

*Refer to FDD*

## Interrupt Functions

*None*

## Server runnables

## SetManTqCmd

## Design Rationale

*None*

## Store Module Inputs to Local copies

*None*

## (Processing of function)………

*Refer ‘SetManTqCmd’ block in FDD*

## Store Local copy of outputs into Module Outputs

*None*

## Local Function/Macro Definitions

None

## GLObAL Function/Macro Definitions

None

## Tranisition FUNCTIONS

None

# Known Limitations With Design

None

# UNIT TEST CONSIDERATION

None

# Appendix

*None*