FIRMWARE DESIGN DOCUMENT

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# Project Code

# Introduction

[It includes expectations from Firmware Functional area in the project]

# Application Data Flow Diagram

[These diagrams should represent application architecture, data flow between modules for e.g. Flowchart ]

# Firmware Modules

## <Module 1 Name>

[Specify the name of module. In case of multiple modules, copy this section and use as per the requirements.The serial number of the modules will be used for traceability of the same. ]

### Description

[Details of module]

### Logical flow

[Draw the flow diagram / write the algorithm of the module]

### External Interfaces (if any)

[Mention the external interfaces of the module. This is a tentative list only. The final list of interfaces must be referred to from “Interface Control and Integrartion Design Document” (PRCD\_INTDSN)]

### Internal Dependencies

[Identify and list down the internal dependencies]

### Critical Design Consideration

[Specify major design considerations for the module]

### Design Alternative Consideration (if any)

[Specify alternatives design considerations for the module]

### Development and Execution Environment

[Define development platform & Execution Environment for the module]

### Reuse Components

### Incoming

[Define and list down reuse component which are used in this module]

### Outgoing

[Define if this module can be reused]

### Functions

[Fill in the following details for the functions used in this module. In case of multiple functions, copy this table and use as per the requirements.]

|  |  |  |
| --- | --- | --- |
| Sr. No | Field | Description |
| 1. | Function Name |  |
| 2. | Purpose |  |
| 3. | Developed by |  |
| 4. | Input Parameters |  |
| 5. | Output Parameters or Return Value |  |
| 6. | Caller Functions |  |
| 7. | Called Functions |  |

## <Module 2 Name>

[Specify the name of module. In case of multiple modules, copy this section and use as per the requirements.The serial number of the modules will be used for traceability of the same. ]

### Description

[Details of module]

### Logical flow

[Draw the flow diagram / write the algorithm of the module]

### External Interfaces (if any)

[Mention the external interfaces of the module. This is a tentative list only. The final list of interfaces must be referred to from “Interface Control and Integrartion Design Document” (PRCD\_INTDSN)]

### Internal Dependencies

[Identify and list down the internal dependencies.]

### Critical Design Consideration

[Specify major design considerations for the module]

### Design Alternative Consideration (if any)

[Specify alternatives design considerations for the module]

### Development and Execution Environment

[Define development platform & Execution Environment for the module]

### Reuse Components

### Incoming

[Define and list down reuse component which are used in this module]

### Outgoing

[Define if this module can be reused]

### Functions

[Fill in the following details for the functions used in this module. In case of multiple functions, copy this table and use as per the requirements.]

|  |  |  |
| --- | --- | --- |
| Sr. No | Field | Description |
| 1. | Function Name |  |
| 2. | Purpose |  |
| 3. | Developed by |  |
| 4. | Input Parameters |  |
| 5. | Output Parameters or Return Value |  |
| 6. | Caller Functions |  |
| 7. | Called Functions |  |

# Off the shelf Components

[Identify and list down off the shelf components which are used in this application. State the reason for selection of each. ]

# Created by

[Mention the name of the Author.]

# Date

[DD/MM/YYYY]