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| Note :  1. If any of the below sections are not applicable for the project, mention as “Not applicable” with justification notes.  2. If any information pertaining to the below sections are documented externally, embed the external document in the corresponding section below.  3. If any information pertaining to the below sections are stored in standard tools such as EPM-Gate, Teamcenter etc., mention the file path/link in the corresponding section below. |

# Introduction

## Purpose

|  |
| --- |
| This document should fully describe the behavior of the application or subsystem identified. It also describes nonfunctional requirements, design constraints and other factors necessary to provide a complete and comprehensive description of the requirements for the software |

## Scope

|  |
| --- |
| Requirements are related to the NXP microprocessor, specifically the KE17. Some features made be reusable for other NXP micros |

## Documents Referenced

### Codes (Norms) Agency Standards

|  |  |  |
| --- | --- | --- |
| **Standard** | **Revision and Date** | **Description** |
|  |  |  |

### Electrolux Standards

|  |  |  |
| --- | --- | --- |
| **Standard** | **Revision** | **Description** |
|  |  |  |

### Third Party Standards

|  |  |  |
| --- | --- | --- |
| **Standard** | **Revision and Date** | **Description** |
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### Other Documents

|  |  |  |
| --- | --- | --- |
| **Standard** | **Revision and Date** | **Description** |
|  |  |  |

# General Description

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# Detailed Software Requirements

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| Note : Refer to Reuse Strategy from RM Plan section of Project management plan for Software reuse requirements. |

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## Context Diagram

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## Operational Concepts and Scenarios

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## Use Case Diagrams

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| * Actors: users of the appliance * Pre-conditions: Software has successfully been uploaded into the user interface and power is supplied * Main Flow: UI waits for key press – detects key press – performs action based on key mapping – communicates to other UIs or main board |

## Functionality

### **Functional Requirement 1**

|  |
| --- |
| <The requirement description> |

### **Functional Requirement 2**

|  |
| --- |
| <The requirement description> |

### **Functional Requirement 3**

|  |
| --- |
| <The requirement description> |

### **Functional Requirement n**

|  |
| --- |
| <The requirement description> |

## Performance

### **Performance Requirement 1**

|  |
| --- |
| System shall use MACs communication protocol to transmit/receive from other user interfaces or main control board |

### **Performance Requirement 2**

|  |
| --- |
| <The requirement description> |

### **Performance Requirement 3**

|  |
| --- |
| <The requirement description> |

### **Performance Requirement n**

|  |
| --- |
| <The requirement description> |

## Supportability

### **Supportability Requirement 1**

|  |
| --- |
| <The requirement description> |

### **Supportability Requirement 2**

|  |
| --- |
| <The requirement description> |

### **Supportability Requirement 3**

|  |
| --- |
| <The requirement description> |

### **Supportability Requirement n**

|  |
| --- |
| <The requirement description> |

## Design Constraints

### **Design Constraint 1**

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| --- |
| Microprocessor to be used is the NXP KE17 |

### **Design Constraint 2**

|  |
| --- |
| UDA/Horizon must be the framework for SW development |

### **Design Constraint 3**

|  |
| --- |
| <The requirement description> |

### **Design Constraint n**

|  |
| --- |
| <The requirement description> |

## User Documentation and Help System Requirements

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| --- |
|  |

## Purchased Components

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| --- |
|  |

## Interfaces

### **User Interfaces**

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### **Hardware Interfaces**

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|  |

### **Software Interfaces**

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|  |

### **Communications Interfaces**

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## Licensing Requirements

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## Legal, Copyright and Other Notices <Optional>

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## Applicable Standards

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# Notes

## Terms, Definitions, Abbreviations and Acronyms

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| **Terms** | **Defintions** |
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**Appendix**

**Template Revision History:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Authors** | **Date** | **Description** | **Version** |
| B.Gopalakrishnan | 2020-06-15 | Draft Release | Draft v0.1 |
| B.Gopalakrishnan | 2020-07-02 | Updated the format with Electrolux fonts | Draft v0.2 |
| B.Gopalakrishnan | 2021-06-28 | Updated for new GEO name and format changes | Draft v0.3 |
| B.Gopalakrishnan | 2022-04-13 | Initial Baseline | v1.0 |
| P.Kumaravelu  K.Damodaran | 2022-12-5 | Single row text box added to all the sections  Note added  Document ID has been updated from GDxxxxxxxxx/A format to GEO-XXX-XXX-X-XXXXX/A  File name, header, footer modified from E. to E-  Sec 3 note added to refer reuse strategy  Comments updated to expand SRS to Software requirements specification  Sec 3.4 Functionality , 3.5 Performance, 3.6 Supportability , 3.7 Design Constraints, 3.9 Purchased Components, 3.13 Applicable Standards – comments updated to include sub system | V2.0 |

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| **Reviewed by:** | Luigi Conenna | GEO Process & Cost CL |  | 2022-12-5 |
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