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**Revision History:**

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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

|  |
| --- |
| The purpose of this document is to outline a detailed integration test plan and to describe the system integration test cases for verifying CobaltKE17 HW and SW that is being developed. |

## Scope

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| --- |
| In Scope  This section shall include all the activities that are in scope pertaining to the System Integration testing. This document outlines the integration strategy, schedule, integration environment, build details, dependencies, acceptance criteria and integration test cases for CobaltKE17.  Out Of Scope  This section shall include out-of-scope activities pertaining to the System Integration testing. Following are the list of testing that will not be performed during the test execution phase of this project. |

## Documents Referenced

### Codes (Norms) Agency Standards

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

### Electrolux Standards

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

### Third Party Standards

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

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

# Integration Test Plan

## Integration Strategy

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| --- |
| Supplier builds HW, programs SW, performs FCT check, completes assembly per drawing, final FCT validation. (Get workflow from supplier). |

## Integration Schedule

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | Milestone | Date | Resource Assigned | Critical path for completion | | FCT Software | 7/21/2023 | Stefano Z./Fabio B. | Yes | | Application Software | 8/21/2023 | Mark H./Simone N. | Yes | |  |  |  |  | |

## Integration Environment

|  |
| --- |
| Refer to the Integration Assembly Procedure |

## Build Details

| Phase | Build | Configuration | No of units planned | Remarks |
| --- | --- | --- | --- | --- |
| Project Feasibility (E-CPPF) | Wiring Prototype + Initial Code | <Configuration 1> |  |  |
| <Configuration 2> |  |  |
| <Add more rows as required> |  |  |
| Product Concept Definition & Validation  (E-CP00) | FW Level 1 + Config. Level 1 + HW Functional Proto | <Configuration 1> |  |  |
| <Configuration 2> |  |  |
| <Add more rows as required> |  |  |
| Engineering Solution & Verification  (E-CP0) | FW Level 2 + Config. Level 2 + HW Level A | <Configuration 1> |  |  |
| <Configuration 2> |  |  |
| <Add more rows as required> |  |  |
| Process Engineering  (E-CP1) | FW Level 3 + Config. Level 2 + HW Level B | <Configuration 1> |  |  |
| <Configuration 2> |  |  |
| <Add more rows as required> |  |  |
| Product Reliability & Process Verification  (E-CP2) | FW Level 3 + Config. Level 2 + HW Level C | <Configuration 1> |  |  |
| <Configuration 2> |  |  |
| <Add more rows as required> |  |  |

## Dependencies and Constraints

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| Following are the dependencies and the constraints that impact integration.   * There shall be PCB samples allocated full time to do all activities (software development, hardware testing, regression validation) |

## Testing and Acceptance Criteria

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| The testing and acceptance criteria of the build shall be based upon the following.   * No issues for the software regression testing * PCB HW samples pass all CD09 testing * FCT software programming is successful * FCT log data is shared and validated by Electrolux |

# Integration Test Protocol

## Test Setup Requirements

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| Following are the list of test setup that are required for performing the testing.   * Verifying whether the functional and non-functional behaviors of the system are as designed and specified. * Validating that the system is complete and will work as expected. * Finding defects. * Preventing defects from escaping to higher test levels of production. |

## Instructions to the Tester

|  |
| --- |
| Testers are to following the test cases’ processes and procedures for performing and completing any testing required. |

## Test Environment and Items

| Item ID | Item Description with revision no. (if any) | Calibration Due Date (if applicable) |
| --- | --- | --- |
|  |  |  |
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|  |  |  |

## Test Cases

| Test Case ID | Test Procedure | Equipments / Tools Required | Expected Result |
| --- | --- | --- | --- |
| **<Mention the test objective along with requirement reference>** | | | |
|  |  |  |  |
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# Notes

## Terms, Definitions, Abbreviations and Acronyms

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| --- | --- |
| **Terms** | **Defintions** |
|  |  |
|  |  |

**Appendix**

**Template Revision History:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Authors** | **Date** | **Description** | **Version** |
| B.Gopalakrishnan | 2020-07-16 | Draft Release | Draft v0.1 |
| B.Gopalakrishnan | 2021-02-19 | Updated for GEO name change | Draft v0.2 |
| B.Gopalakrishnan | 2021-02-25 | Updated for internal comments | Draft v0.3 |
| B.Gopalakrishnan | 2022-04-13 | Initial Baseline | v1.0 |
| P.Kumaravelu  K.Damodaran | 2022-11-10 | 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  Combined Integration Test Plan and System Integration Test Protocol template & Renamed as System Test Design Template  File name, header, footer modified from E. to E- | V2.0 |

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| **Reviewed by:** | Luigi Conenna | GEO Process & Cost CL |  | 2022-11-18 |
| **Approved by:** | Luigi Conenna | GEO Process & Cost CL |  | 2022-11-18 |