Software Integration Testing

**METHOD**

**DAS-PLATFORM / DASCOMBAT**

**SOFTWARE VERSION:**

**Version 1.0.2 (tag version)**

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# Introduction

This document provides an overview of the software testing performed to ensure the combined software modules meets the required software specifications and to expose faults in the interaction between integrated units.

# Scope

The scope of this document is and to verify the behavior of the complete system and to expose faults in the interaction between integrated units.

# Test Cases

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test**  **#** | **Test Description** | **Steps to be executed** | **Expected Result** | **Actual Results** | | **Result** |
| 01 | compare result to known output | 1. Open RSTUDIO 2. Open tests/integration/ TST-INT-001-compare result to known output.R 3. Run code 4. Click on download button 5. Check the values of Table1,Table2,Table3, Table4,Table5 compare to those in appendix | 1. RSTUDIO opens 2. Test code opens 3. No error message should appear | |  | ⌧ Passed  🞏 Failed |
| 02 | validate col names | 1. Open RSTUDIO 2. Open tests/integration/ TST-INT-002-validate input column names.R 3. Run code 4. Click on download button 5. Check the generated report is the same as in appendix | 1. RSTUDIO opens 2. Test code opens 3. No error message should appear | |  | ⌧ Passed  🞏 Failed |
| 03 | validate missing values | 1. Open RSTUDIO 2. Open tests/integration/ TST-INT-003-validate missing values.R 3. Run code | 1. RSTUDIO opens 2. Test code opens 3. Error is generated   “validate.data.bad.array.colnames” | |  | ⌧ Passed  🞏 Failed |

**Note**: Include Test Cases for checking the functionality, implementation of risk controls, internal and external interfaces, time and behaviour and abnormal conditions including foreseeable misuse of the software items.

|  |  |  |
| --- | --- | --- |
| **Name of Test Performer** | **Execution Date** | **Signature** |
| Faris Naji |  |  |
| **Name of Reviewer** | **Execution Date** | **Signature** |
| Rik de Wijn |  |  |

# Overview of Unresolved Issues

|  |  |  |
| --- | --- | --- |
| **Test #** | **Description of Issue** | **Impact** |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# Test Evaluation

|  |  |
| --- | --- |
| **Test Category** | **Performed** |
| Test Cases cover all included software requirements. | ⌧ Yes 🞏 No |
| Test cases are adequately demonstrating that the software items perform as intended | ⌧ Yes 🞏 No |
| The traceability between software requirements and tests is recorded | ⌧ Yes 🞏 No |
| All test requirements meet the acceptance criteria | ⌧ Yes 🞏 No |
| The content of the outputs are verified and errors are reported | ⌧ Yes 🞏 No |
| Provided documented evidence support the test results. | ⌧ Yes 🞏 No |

# Test Conclusion

Integration testing has been performed as documented in this report. The software system testing meets the set requirements and is fit for next step testing.

The integration test FRM6308 is:

|  |  |
| --- | --- |
| **X** | Compliant |
|  | Compliant with reserves |
|  | Non-compliant |

# Signatures

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Function title** | **Name** | **Signature** | **Release date** |
| Author | Software Manager | Faris Naji |  |  |
| Reviewer | Head of DAS | Rik de Wijn |  |  |
| Authoriser | Head of DAS | Rik de Wijn |  |  |
| Quality Assurance | QARA Manager | Theo van der Leij |  |  |

# History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Remarks/Changes** | **Document Owner** |
| 1.0 | 23-Dec-2020 | First version of document | Faris Naji |

# Appendix

Include supporting documentation such as screen shots, print outs or other report as applicable. These documents are referenced for the relevant test cases in section 3 .

**Table1**

See DASCOMBAT-TABLE1.tsv file

**Table2**

See DASCOMBAT-TABLE2.tsv file

**Table3**

See DASCOMBAT-TABLE3.tsv file

**Table4**

See DASCOMBAT-TABLE4.tsv file

**Table5**

See DASCOMBAT-TABLE5.tsv file

**Screenshot of DOCX report here:**

See DASCOMBAT-Report-Example.DOCX file