

#### Information

Name: Project ofi2004  
Description: Description of ofi2004.  
Version:  
Date Created: 2021-07-30T00:28:16.913  
Git Commit:  
Git Tag:  
Git URL:  
OpenShift Cluster API URL:  
Created by Jenkins Job Name:  
Created by Jenkins Build Number:

## Software Development Testing Plan for 'Project ofi2004'

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## **1 INTRODUCTION**

The purpose of the Software Development Testing Plan is to document the structural and/or functional testing of Project of 2004 that will be conducted to verify the implementation of the design for each unit/module of the Computer System, and the system functions as specified in the System and Software Design / Functional Specifications.

## 2 RESPONSIBILITIES

Tests are executed by the platform / Jenkins build engine and are written by developers during the development phase.

Role	Responsibilities
Developer	Writes tests

### 3 TEST STRATEGY AND ENVIRONMENT

Tests are located within each repository, co-located to binaries or source code. Those tests are linked to test cases in *JIRA*, and their results are reported within the Software Development Testing Report. Jenkins executes those tests during the build, and potentially after the installation phase of each component, and uses **xUnit** to report them for later usage. The report is generated automatically from the xUnit results, linked to *JIRA* testcases.

### **3.1 TEST ENVIRONMENT**

The tests are executed on qualified infrastructure (*BI-IT-DEVSTACK*, *BI-IT-CONTAINER-PAAS*). If a testcase requires further infrastructure (e.g. AWS), this is described as part of the System and Software Design Specification, and its location will be recorded as part of the Software Development Testing Report.

### 3.2 MODULES (UNIT) TESTED

The following table contains the list of repositories that will be scanned for unit tests. For the unit tests defined in JIRA, the ones considered relevant for GxP functionalities, the test ID is shown. More information about them can be found in [section 4](#).

Module Name	Description	Test IDs
thefirst		OFI2004-126, OFI2004-202
thesecond		None defined
spock		None defined
release		None defined

### **3.3 EXCLUDED MODULES**

N/A. The Software Development Testing Report will contain code/test coverage information, which includes any configured exclusions.

### **3.4 INTEGRATION LEVEL TESTS**

Integration tests are executed in the CFTP/CFTR after all components were installed successfully. They are contained in a separate project, and if applicable, will be executed during *Installation Verification*.



### **3.5 SYSTEM LEVEL TESTS**

N/A. In case they exist, they will be executed after the installation of the component / system, and if applicable in case the project management considers it necessary, will be managed on the CFTP/CFTR.

### **3.6 TEST DEPENDENCIES AND RELATIONSHIPS**

N/A. All unit tests are contained within each component's repository. Integration and system tests are contained within an end-to-end test repository and, if applicable, are executed only after all components were installed and unit tested successfully.

### **3.7 ERROR HANDLING AND CORRECTIVE ACTIONS**

Failing automated tests, at the unit, integration, and system level will cause the build process to abort. Detailed reporting of failed test cases will be reported as part of the Software Development Test Report, Installation Qualification Report, and Operational Qualification Report, respectively.

## 4 TEST CASES

The following table shows only the Unit test cases which mitigate or cover the corresponding Risks or System Requirements and are defined in Jira by the project team. They can be found in the detailed Unit Test Report searching by the ID from Jira.

CSD ID	Test ID	Reference to System and Software Design Spec	Assigned Risk Level per Risk Assessment	Description	Passed (Y/N)	Comments
OFI2004-125	OFI2004-126	N/A	N/A	test CONTINUED		
OFI2004-201	OFI2004-202	N/A	N/A	test ADDED		

## 5 DEFINITIONS AND ABBREVIATIONS

### 5.1 DEFINITIONS

Term	Definition
Jenkins	Build engine supplied by cloudbees - part of OpenDevStack (BI-IT-DEVSTACK)
xUnit	Unit testing framework, aggregaults across multiple languages

### 5.2 ABBREVIATIONS

Abbreviation	Meaning
ODS	OpenDevStack
EDP	Curabitur molestie, massa sed condimentum posuere, tellus elit ornare nibh, eget interdum orci mauris convallis libero. Sed et metus id odio pellentesque tincidunt. Aenean at iaculis felis. Phasellus et ante consequat, eleifend nibh at, porttitor orci. Pellentesque tempus nibh elementum, laoreet urna a, tempus augue. Quisque dictum, lacus mollis laoreet congue, velit leo mollis eros, vel imperdiet tortor mauris sit amet arcu. Praesent euismod imperdiet nisi sed tincidunt. Maecenas commodo faucibus massa, sit amet lobortis lectus eleifend id. Fusce dignissim, metus sed vulputate ultricies, quam nulla molestie diam, ac condimentum arcu felis vel nisl. Nunc maximus ex quis neque ultrices, elementum volutpat metus fringilla. Praesent suscipit eleifend augue, at aliquet metus finibus sit amet. Sed tristique mattis aliquet.

## 6 REFERENCE DOCUMENTS

- Combined Specification Document (version null / 4-WIP)
- System and Software Design Specification including Source Code Review Plan (version null / 4-WIP)
- Risk Assessment (version null / 4-WIP)

Curabitur molestie, massa sed condimentum posuere, tellus elit ornare nibh, eget interdum orci mauris convallis libero. Sed et metus id odio pellentesque tincidunt. Aenean at iaculis felis. Phasellus et ante consequat, eleifend nibh at, porttitor orci. Pellentesque tempus nibh elementum, laoreet urna a, tempus augue. Quisque dictum, lacus mollis laoreet congue, velit leo mollis eros, vel imperdiet tortor mauris sit amet arcu. Praesent euismod imperdiet nisi sed tincidunt. Maecenas commodo faucibus massa, sit amet lobortis lectus eleifend id. Fusce dignissim, metus sed vulputate ultricies, quam nulla molestie diam, ac condimentum arcu felis vel nisl. Nunc maximus ex quis neque ultrices, elementum volutpat metus fringilla. Praesent suscipit eleifend augue, at aliquet metus finibus sit amet. Sed tristique mattis aliquet.

## 7 DOCUMENT HISTORY

Version	Date	Author	Change Reference
1	See Summary of electronic document or signature page of printout.		Initial document version.
2	See Summary of electronic document or signature page of printout.		<p>Modifications for project version '2.0'. The following requirements were added:</p> <ul style="list-style-type: none"><li>• OFI2004-201</li></ul> <p>The following tests were added:</p> <ul style="list-style-type: none"><li>• OFI2004-202</li></ul> <p>The following documentation chapters were changed:</p> <ul style="list-style-type: none"><li>• OFI2004-187 was previously OFI2004-52: 5.2 null</li><li>• OFI2004-185 was previously OFI2004-55: 6 null</li><li>• OFI2004-184 was previously OFI2004-54: 7 null</li></ul>
3	See Summary of electronic document or signature page of printout.		Modifications for project version '3.0'.
4	See Summary of electronic document or signature page of printout.		Modifications for project version '3.0'. This document version invalidates the changes done in document version '3'.

The following table provides extra history of the document.

Version	Date	Author	Reference
	Curabitur molestie, massa sed condimentum posuere, tellus elit ornare nibh, eget interdum orci mauris convallis libero. Sed et metus id odio pellentesque tincidunt. Aenean at iaculis felis. Phasellus et ante consequat, eleifend nibh at, porttitor orci. Pellentesque tempus nibh elementum, laoreet urna a, tempus augue. Quisque dictum, lacus mollis laoreet congue, velit leo mollis eros, vel imperdiet tortor mauris sit amet arcu. Praesent euismod imperdiet nisi sed tincidunt. Maecenas commodo faucibus massa, sit amet lobortis lectus eleifend id. Fusce dignissim, metus sed vulputate ultricies, quam nulla molestie diam, ac condimentum arcu felis vel nisl. Nunc maximus ex quis neque ultrices, elementum volutpat metus fringilla. Praesent suscipit eleifend augue, at aliquet metus finibus sit amet. Sed tristique mattis aliquet.		