

[ADD PROJECT NAME]

BI Test Approach

**Version 0.1**

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| Document Information | | | | |
| **VERSION CONTROL** | | | | |
| **VERSION** | **STATUS** | **DATE** | **AUTHOR** | **COMMENTS** |
| 0.1 | Initial Draft |  |  |  |
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| Project Reference Documentation | | |
| **VERSION** | **DOCUMENT** | **LOCATION** |
| 1 | Requirements Documentation |  |
| 2 | Test Cases |  |
| 3 | Defects Location |  |
| 4 | Test Case Review |  |
| 5 | Test Evidence Review |  |

|  |  |
| --- | --- |
| Glossary | |
| **Abbreviation** | **Description** |
| **TCR** | Test Completion Report |
| **UAT** | User Acceptance Testing |
| **VSTS** | Visual Studios Team System |
| **PBI** | Product Backlog Item |
| **SIT** | System Integration Testing |
| **DB** | Database |
| **ETL** | Extract Transform Load |
| **UTR** | Unit Test Results |
| **PM** | Project Manager |
| **Dev** | Development |
| **BI** | Business Intelligence |

# Introduction

## Sprint Background

## Document Purpose

## Audience

The intended audience is Project Management, Business Analysts, Testers, Developers, Application Support, Primary business stakeholders and any associated third parties (where applicable). Some sections of this document may on occasion be shared with other stakeholders whose input/approval into the testing process is needed.

## SIT Timelines

***Please Note:*** *The dates are correct at the time of publication of this version*

| **Phase** | **Start Date** | **End Date** | **Duration** |
| --- | --- | --- | --- |
|  |  |  |  |

## 1.5 SIT Team

| **Resource Name** | **Role** |
| --- | --- |
|  | Tester |
|  | Tester |
|  | Tester |

# Test Approach

## Overview – General

The objective of testing is to demonstrate that the requirements, as defined in the associated supporting documentation ***(see Project Reference Documentation)*** have been satisfied and ultimately to give confidence that the solution is fit for purpose. Test Cases will be created to reflect the scope of requirements and will be stored in VSTS, as will the associated results. Any subsequent defects will be logged in VSTS and linked to the associated test cases for traceability. All test results will be captured and screen shots attached to the test cases as evidence. In order to achieve the required timescales testing may be risk-based, i.e. scenarios and functionality will be included in testing based on the likelihood and impact of failure. Test scenarios will be prioritised based on their associated risk from a regulatory, customer and business point of view.

The overall activities in test period will be as below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| * PBI/Requirement Analysis * Clarifications * Estimation | Analysis | * Test Approach * Test Cases design and review * Test Environment Preparation * Test case Coverage | Design & Review | * Test Execution (Integration testing) * Identify Defects * Defect Re-test * Test Evidence Review | Execution | * Deployment Logs * Test Completion Report | Closure |

Upon completion of the SIT Testing, a Test Completion Report will be created that documents the resultant scope of testing that was executed with associated reasons for any difference from the originally planned scope. Project defect metrics, a summary of risks and issues and details of any known defects carried into the next phase or production environment will also be documented at the time of test closure. Any additional Caveats that may have restricted testing in some way will be highlighted within the Test Completion Report

## Test Type Matrix

The following table outlines the “types” of testing that are applicable to this project.

| **Test Phase** | **Description** | **Covered (Y/N)** | **If No, Why?** |
| --- | --- | --- | --- |
| System Integration Testing |  |  | N/A |

## SIT Test Approach

* + 1. **Test Items in scope**
    2. **Test Data**

## SIT Entry Criteria

## SIT Exit Criteria

* All planned test cases have been executed
* Test evidence has been reviewed and approved
* All Severity 1 and Severity 2 defects arising from the planned testing have been resolved and retested satisfactorily
* Any Severity 3 and 4 defects outstanding have been reviewed, accepted and signed-off by the relevant stakeholders (including the project accountable exec)
* An appropriate resolution plan for closing out the remaining defects has been agreed

## In Scope – System Integration Testing

The scope of the System Integration Testing will include the following: -

## Out of Scope – System Integration Testing

These following test types are out of scope for System Integration Testing:

## ETL Testing Approach

* Meta data Check
* Source-to-target Count Testing
* Source-to-target Data Testing
* Data Transformation Testing
* Referential Integrity and Constraint Testing
* Duplicate Data Check Testing
* Incremental Testing
* Audit log validation
* Threshold Value Validation Testing
* Error/Exception Logical Testing

## Regression Test Approach

* There is no Regression Testing in scope due to the focus changes already in production and the marshalling code being standalone no impact downstream.

## UAT Test Approach

* UAT will be performed by the project team to validate letters received back from paragon are as expected.

# Test Environments

## System Test Environment

|  |  |
| --- | --- |
| **Server Name** | **Description** |
|  |  |
|  |  |

SIT will be executed using the associated software/application versions as received from development team further to development of the PBIs. The final versions used for testing will be notified in test completion report.

# Project Roles and Responsibilities Matrix

The following matrix describes who is responsible for project activities and the resultant deliverables.

Using standard RACI notation, **R** = Responsible, **A** = Accountable, **C** = Consulted, **I** = Informed. Note that multiple roles can be Responsible, Consulted and Informed, but there must be one person Accountable for each deliverable.

| *Key*  **R**esponsible  **A**ccountable  **C**onsulted  **I**nformed | **Stakeholder** | **Business - PM** | **IT - PM** | **Delivery Manager** | **Business Analyst** | **Lead Developer** | **Development Team** | **Testing Team** | **IT Operations** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Code Deployment (with scripts) - Test* |  |  |  |  |  |  |  |  |  |
| *Code Deployment - Production* |  |  |  |  |  |  |  |  |  |
| *Test Forecast and Estimates* |  |  |  |  |  |  |  |  |  |
| *Test Approach* |  |  |  |  |  |  |  |  |  |
| *Test Preparation and Scripting* |  |  |  |  |  |  |  |  |  |
| *Test Execution* |  |  |  |  |  |  |  |  |  |
| *Test Status Reports* |  |  |  |  |  |  |  |  |  |
| *Test Closure Report* |  |  |  |  |  |  |  |  |  |
| *Test Environment Support* |  |  |  |  |  |  |  |  |  |
| *Defect Management* |  |  |  |  |  |  |  |  |  |
| *Defect Triage* |  |  |  |  |  |  |  |  |  |

# 

# Deliverables

Table below itemises the Test Deliverables that will be produced based on this Test Approach

Document:

| **Deliverable** | **To be Completed By** |
| --- | --- |
| Test Approach Document | SIT Testers |
| Test Cases | SIT Testers |
| Test Results/Evidence (attached to the test scripts) | SIT Testers |
| Test Completion Report | SIT Testers |
| Test Environment Deployment log | SIT Testers |
| Test Execution Results | SIT Testers |

# Defect & Status Reporting

## Defect Reporting

Defects will be tracked using VSTS. Please note only members of the IT team will have the necessary permissions to view or edit data contained within.

Defects will be raised within the Test Scripts in Azure Test manager so they can be tracked and reported within the functionality being tested.

## Status Reporting

Project status would be sent on a weekly basis via email and Test execution status would be sent on a daily basis after the start of test execution.

# RAID

## Risks

The following table captures key risks associated with testing activities at the time of preparing the test approach document

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Type** | **Description** | **Impact** | **Likelihood** | **Risk Profile** | **Comment** |
| 1 | Risk |  |  |  |  |  |

## Assumptions

The following table captures the assumptions made with the testing activities at the time of preparing the test approach document

| **#** | **Assumptions** |
| --- | --- |
| 1 | Requirement lock down is completed prior to testing phase |
| 2 | Requirement document is published prior to test design phase |
| 3 | LLD for SIT testing to updated with the newly identified servers and the connectivity between them prior to test execution start. |

## Issues

The following table captures the issues identified at the time of preparing the test approach document

| **#** | **Issues** |
| --- | --- |
|  |  |

## Dependencies

The following table captures the dependencies at the time of preparing the test approach document

| **#** | **Dependencies** |
| --- | --- |
| 1 | Test Environment to be available with latest cut down and smoke testing completed. |
| 2 |  |