

[name of project]

**Test Plan**

*Purpose: [Insert purpose of doc here]*

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Author | Description |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Table of Contents

[1. Overview 4](#_Toc326150504)

[1.1. Purpose 4](#_Toc326150505)

[1.2. Scope 4](#_Toc326150506)

[2. Testing Summary 5](#_Toc326150507)

[2.1. Scope of Testing 5](#_Toc326150508)

[3. Analysis of Scope and Test Focus Areas 6](#_Toc326150509)

[3.1. Release Content 6](#_Toc326150510)

[3.2. Regression Testing 6](#_Toc326150511)

[3.3. Platform Testing 6](#_Toc326150512)

[4. Progression Test Objectives 7](#_Toc326150513)

[5. Progression Test Objectives 8](#_Toc326150514)

[6. Other Testing 9](#_Toc326150515)

[6.1. Security 9](#_Toc326150516)

[6.2. Stress & Volume Testing (S&V) 9](#_Toc326150517)

[6.3. Connectivity Testing (CT) 9](#_Toc326150518)

[6.4. Disaster Recovery/Back Up 9](#_Toc326150519)

[6.5. Unit Testing 9](#_Toc326150520)

[6.6. Integration Testing 9](#_Toc326150521)

[7. Test Strategy 10](#_Toc326150522)

[7.1. Test level responsibility 10](#_Toc326150523)

[7.2. Test Type & Approach 10](#_Toc326150524)

[7.3. Build strategy 10](#_Toc326150525)

[7.4. Test Execution Schedule 10](#_Toc326150526)

[7.5. Facility, data, and resource provision plan 11](#_Toc326150527)

[7.6. Testing Tools 11](#_Toc326150528)

[7.7. Testing Handover Procedure 12](#_Toc326150529)

[7.8. Testing Metrics 12](#_Toc326150530)

[8. Test Environment Plan 13](#_Toc326150531)

[8.1. Test Environment Man 13](#_Toc326150532)

[8.2. Test Environment Details 13](#_Toc326150533)

[8.3. Establishing Environment 13](#_Toc326150534)

[8.4. Environment Control 14](#_Toc326150535)

[8.5. Environment Roles and Responsibilities 14](#_Toc326150536)

[9. Assumptions and Dependencies 15](#_Toc326150537)

[9.1. Assumptions 15](#_Toc326150538)

[9.2. Dependencies 15](#_Toc326150539)

[10. Entry and Exit Criteria 16](#_Toc326150540)

[11. Administrative Plan 17](#_Toc326150541)

[11.1. Approvals 17](#_Toc326150542)

[11.2. Test Milestones and Schedule 17](#_Toc326150543)

[11.3. Training 17](#_Toc326150544)

[11.4. Defect Management 17](#_Toc326150545)

[12. Definitions 18](#_Toc326150546)

[13. References 19](#_Toc326150547)

[14. Points of Contact 20](#_Toc326150548)

# Overview

## Purpose

*Detail the purpose of this document. For example:*

The purpose of this document is to define:

* The test scope, focus areas and objectives
* The test responsibilities
* The test strategy for the levels and types of test for this release
* The entry and exit criteria
* The basis of the test estimates
* Any risks, issues, assumptions and test dependencies
* The test schedule and major milestones
* The test deliverables

## Scope

*Detail the scope of this document. For example:*

This document details the testing that will be performed by the project team for the <project name> project. It defines the overall testing requirements and provides an integrated view of the project test activities. Its purpose is to document:

* What will be tested;
* How testing will be performed;
* What resources are needed, and when

# Testing Summary

## Scope of Testing

### In scope

*Detail what is in scope from a testing perspective for the project team. For example this may only include system integration testing and/or user acceptance testing*

### Out of scope

*Detail what is out of scope from a testing perspective for the project team. Note: if usability testing is being performed by the users, or integration testing by the vendor, state this.*

# Analysis of Scope and Test Focus Areas

## Release Content

*Detail the content of the project release or refer to the relevant analysis documentation.*

## Regression Testing

*Identify whether regression testing needs to be performed for any applications and detail the testing required. Regression testing is verification of system functionality that was previously working, or is not considered to have changed*

## Platform Testing

*Detail what platform will be used for testing. For example:*

* for machine testing, specify the type of paper or adhesive to be used
* for software testing, specify the operating system, hardware and software

# Progression Test Objectives

*This section details the progression test objectives that will be covered by the project team. Please note that this is at a high level. For large projects, a suite of test cases would be created which would reference directly back to this master.*

*This could be documented in bullet form or in a table similar to the one below, to assist with Requirements Traceability*

| Ref | Function | Test Objective | Evaluation Criteria | X-Ref | P |
| --- | --- | --- | --- | --- | --- |
| Function to be tested | | | | | |
| Test reference | Name of the function or sub-function being tested | The objective the test is trying to demonstrate | The criteria that will be evaluated to demonstrate the test is successful | Any cross references. For example, a functional requirement, a design document etc | The priority of the test |
| Repeat for each function | | | | | |
| Ref | Function name | Objective | Evaluation criteria | x-Ref | P |
| Ref | Function name | Objective | Evaluation criteria | x-Ref | P |

# Progression Test Objectives

*This section details the regression test objectives that will be covered by the project team. Please note that this is at a high level. For large projects, a suite of test cases would be created which would reference directly back to this master.*

*This could be documented in bullet form or in a table similar to the one below, to assist with Requirements Traceability*

| Ref | Function | Test Objective | Evaluation Criteria | X-Ref | P |
| --- | --- | --- | --- | --- | --- |
| Regression testing | | | | | |
| Test reference | Name of the function or sub-function being regression tested | The objective the test is trying to demonstrate | The criteria that will be evaluated to demonstrate the test is successful | Any cross references. For example previous regression suite or requirement document | The priority of the test |
| Ref | Function name | Objective | Evaluation criteria | x-Ref | P |
| Ref | Function name | Objective | Evaluation criteria | x-Ref | P |

# Other Testing

## Security

*Detail what security testing will be performed and who will perform it.*

## Stress & Volume Testing (S&V)

*Detail stress and volume testing to be performed for the project, how it will be performed, who will perform it and expected outcomes. (this is also referred to as Load Testing)*

## Connectivity Testing (CT)

*Detail connectivity testing to be performed for the project, how it will be performed, who will perform it and expected outcomes.*

## Disaster Recovery/Back Up

*Detail DR and Back Up testing to be performed for the project, how it will be performed, who will perform it and expected outcomes.*

## Unit Testing

*Detail what unit testing will be performed – note Unit Testing is verification of individual modules or “units” of code*

## Integration Testing

*Detail what integration testing will be performed*

# Test Strategy

## Test level responsibility

*Detail the testing levels expected to be applied and who has primary (P) and secondary (S) responsibility for performing this testing (example below).*

|  |  |  |  |
| --- | --- | --- | --- |
| Test Level | External Party | Proj Team | Business |
| Unit Testing |  | P |  |
| Integration Testing |  | P |  |
| Security Testing | P | S |  |
| Connectivity Testing |  | P |  |
| User Acceptance Testing |  | S | P |
| Production Verification Testing |  | S | P |

## Test Type & Approach

*Detail the types of testing covered by the project team and their standard objectives (example below)*

|  |  |
| --- | --- |
| Test Type | Objectives |
| Progression Requirements | The objectives are to verify that the application:   * Meets the defined requirements; * Performs and functions accurately; * Correctly handles error conditions; * Interfaces function correctly; * Data load is successful.   Functional testing will occur in an iterative and controlled manner, ensuring the solution matches the defined requirements. |
| Regression testing |  |

## Build strategy

*Detail the build strategy if any (e.g. if it will be implemented in one install or broken into functional requirements).*

## Test Execution Schedule

*Provide a test schedule for the project team in written format (e.g. using MS Word, MS Project or MS Excel) Detail each type of testing, the function and the priority.*

## Facility, data, and resource provision plan

### Test environment

*Detail the test environment required and availability dates. For large complex systems/releases, a separate test environment document should be produced that includes buy-in from each system owner.*

### Access to other applications

*Detail any systems that are required to be accessed for the testing phase.*

### Testing Requirements

*Detail the requirements for testing to commence.*

*For example;*

Each person involved in testing will need the following access:

* A web browser with access to the intranet
* Access to the XYZ database, and relevant database SQL tool;
* Access to Business Objects;
* Access to Microsoft Excel to raise defects;

### Data Requirements

*Define data setup requirements to enable testing to start.*

### Resources & Skills

*Define the types of resources required during the testing window. For example:*

* A resource with SQL skills;
* A resource with .NET skills to resolve any defects;
* A resource with internet technologies understanding.

## Testing Tools

*Detail the tools to be used for testing.*

For example:

The following tools will be used for testing:

| Process | Tool |
| --- | --- |
| Test case creation | Microsoft Word |
| Test case tracking | Microsoft Excel |
| Test case execution | Manual |
| Test case management | Microsoft Excel |
| Defect management | Microsoft Excel |

## Testing Handover Procedure

Detail any handover procedures to be implemented for handover from one level or team to *another. For example, this may include a formal procedure to accept a system from Unit to System testing.*

## Testing Metrics

Detail the metrics to capture, the reasons for capture, and how you will capture them. *For example, capture the number of defects raised, against a each particular module of the application. These might be captured in a defect tracking tool and they might provide input into the stability of that particular module and the re-work required for testing*. *This could then provide feedback* *to the developers, design documents and requirement documents to understand root cause, and potentially feed back lessons learned.*

# Test Environment Plan

## Test Environment Man

*Develop a Test Environment diagram.*

## Test Environment Details

### Testers

*Define the number of testers who will be involved in testing and their:*

* System access requirements
* Hardware requirements

### Hardware and Firmware

*Define the hardware requirements for the test environment. This includes the name, asset numbers, communications equipment, the purpose and period of use. Identify how the hardware will be provided, who by and when.*

### Software

*Define the software requirements of the test environment. This includes the software to be tested and any tools that will be used to assist in testing. This should include the software name, versions and item (eg operating system, database etc.). Identify who will supply them, when and how.*

### Interfaces

*Define the interfaces to external applications. Identify who will establish the interface, when and how – refer to Interface Agreement if required.*

### Other Materials

*Define any other requirements for the test environment. This might include manuals, software licensing, media, etc. Identify how they will be provided, who by and when.*

## Establishing Environment

*Define the plan for establishing the testing environment, and responsibilities. This should include acquisition of each element, setup, installation and testing the environment.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task | Requirements | Responsibility | Start Date | End Date |
|  |  |  |  |  |
|  |  |  |  |  |

## Environment Control

*Define any control measures that will be placed on the environment. This might include:*

* Software release control,
* Environment access
* Environment monitoring and support

## Environment Roles and Responsibilities

*Define the roles and responsibilities of persons who will be responsible for, or interface with the environment*

|  |  |  |
| --- | --- | --- |
| Role | Staff Member | Responsibilities |
| Release Manager | Bill Smith | Responsible for overall establishment, coordination and support of the test environment |
| Test Manager | Mary Jones | Responsible for advising release manager of environment requirements for planning, establishment and ongoing |
| Project Manager | Cathy Simons | Escalation point for environment issues. |

# Assumptions and Dependencies

## Assumptions

Detail any assumptions made for testing.

*For example, business analyst and development team members will be available to provide support, training and defect resolution to the test team members as required*

## Dependencies

Detail testing dependencies

*For example, access to the system in the test environment, will be configured by the system administrator for all test team members identified prior to the commencement of testing*

# Entry and Exit Criteria

*Detail the entry and exit criteria that are used to determine when a phase of testing (or level of testing) is able to commence and when testing is considered to be completed.*

# Administrative Plan

## Approvals

*Detail the responsibilities for testing signoff. For example, the following persons are responsible for the critical aspects of testing:*

| Task | Responsible Person | Escalation/ Approver |
| --- | --- | --- |
| Systems Integration Signoff |  |  |
| User Acceptance Testing Signoff |  |  |
| Production Verification Testing Signoff |  |  |

## Test Milestones and Schedule

*Detailed below are the high-level testing milestones.*

| Milestone | Planned End Date | Actual End Date | Resource |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Training

The following training requirements have been identified to ensure testing can commence:

| Training Requirement | Staff | Date |
| --- | --- | --- |
|  |  |  |
|  |  |  |

## Defect Management

*Detail how defects will be managed for this project. Detail what defect management tool will be used. Reference any defect process if required*.

# Definitions

The following acronyms and terms have been used through out this document

|  |  |
| --- | --- |
| **Term/Acronym** | **Definition** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

# References

The following documents have been used to assist in creation of this document.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Document name** | **Version** | **Comments** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Points of Contact

The following people can be contacted in reference to this document

|  |  |
| --- | --- |
| Primary Contact | |
| **Name** |  |
| **Title/Organisation** |  |
| **Phone** |  |
| **Email** |  |
| **Secondary Contact** | |
| **Name** |  |
| **Title/Organisation** |  |
| **Phone** |  |
| **Email** |  |