

# TEST PLAN FOR COMM BANK SOA PLATFORM

## *ChangeLog*

Version	Change Date	By	Description
version number	Date of Change	Name of person who made changes	Description of the changes made
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# Test plan for SOA enterprise platform project

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# 1 Introduction

SOA enterprise model to integrate banks payment system with fraud decisioning system through integration layer using MQ layer. Fraud decisioning system decides whether to accept or decline payment based on condition.

## 1.1 Scope

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### 1.1.1 In Scope

Below is the scope of test plan for Comm bank SOA enterprise platform project:

- SOA enterprise has two integration points.
- To test Payment made from merchant terminal which sends transaction information to integration layer through MQ. Mandatory information includes Cust Id, Tran Id, Tran amount and merchant id.
- To test integration layer which gets enrichment data from DW through multiple layers that includes Customer DOB, Customer Post code, Merchant post code.
- To test enriched data sent by integration layer to fraud decisioning system in the right format through TCP.
- To test the response from fraud decisioning system to payment system through integration layer.

### 1.1.2 Out of Scope

- Performance testing
- Security testing
- Penetration testing

## 1.2 Quality Objective

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Below are the overall objectives of SOA enterprise platform project:

- Ensure the Application Under Test conforms to functional and non-functional requirements
- Ensure the AUT meets the quality specifications defined by the client
- Bugs/issues are identified and fixed before go live

## 1.3 Roles and Responsibilities

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Different team members involved in SOA enterprise platform project

- QA Analyst
- Test Manager
- Configuration Manager
- Developers
- Installation Team

## 2 Test Methodology

### 2.1 Overview

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The test methodology selected for the project will be Waterfall.

### 2.2 Test Levels

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Test performed for this project are:

- 1) System testing
- 2) System integration testing
- 3) User acceptance testing

### 2.3 Bug Triage

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The goal of the triage is to

- To define the type of resolution for each bug
- To prioritize bugs and determine a schedule for all “To Be Fixed Bugs”.

### 2.4 Test Completeness

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Criteria to check Test Completeness are

- 100% test coverage
- All Manual & Automated Test cases executed
- All open bugs are fixed or will be fixed in next release

## 3 Test Deliverables

Below are the test Artifacts that will be delivered during different phases of the testing lifecycle.

- Test Plan
- Test Cases
- Requirement Traceability Matrix
- Bug Reports
- Test Strategy
- Test Metrics
- Customer Sign Off

## 4 Resource & Environment Needs

### 4.1 Testing Tools

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Below tools will be used to test SOA enterprise platform:

Test management tools:

- ALM
- Jira

Requirements Tracking Tool:

- Confluence

Test data management tools:

- CA LISA

Automation tools:

- Selenium
- Cypress
- Cucumber
- Jenkins
- Gradle

### 4.2 Test Environment

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Following **software's** are required in addition to specific software.

- Windows 8 and above
- Office 2013 and above
- MS Exchange, etc.

### 4.3 Test Data

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Test data need to be created to mock the payment, verify the transaction in integration layer and check the response from fraud decisioning system for all the combination of data

## 5 Test Schedule

## Test plan for SOA enterprise platform project

Milestones	Start date	End date
Test plan	xx/xx/xxxx	xx/xx/xxxx
Test environment shakeout	xx/xx/xxxx	xx/xx/xxxx
Test execution	xx/xx/xxxx	xx/xx/xxxx
Test summary report	xx/xx/xxxx	xx/xx/xxxx

## 6 Risk and Issues

### 6.1 Risks

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Unable to start testing due to delay in code deployment.

### 6.2 Issues

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N/A

## 7 Terms/Acronyms

TERM/ACRONYM	DEFINITION
SOA	Service oriented architecture
MQ	Message queue

Use case for each integration point:

**Use case 1:** Minor customer made a payment of 6000

Actor: Customer A

Precondition: Customer holding a bank account and valid card to make a payment.

Description: Customer A tries to make a payment of 6000\$ to purchase goods in an ecommerce website. Ecommerce merchant send payment information to integration layer with mandatory fields. Integration sends enriched data which is received from data warehouse in the format accepted by fraud decisioning system. Fraud decisioning system finds that age criteria is not met for the transaction performed and transaction will get declined.

**Use case 2:** Customer Postcode is unknown and transaction amount is 15000

Actor: Customer B

Description: Customer B tries to make a payment of 15000\$ to purchase goods from a supermarket

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merchant send payment information to integration layer with mandatory fields. Integration sends enriched data which is received from data warehouse in the format accepted by fraud decisioning system. Fraud decisioning system finds that post code is unknown and transaction amount is more than the amount permitted for this criteria so transaction will get declined.

**Use case 3:** Merchant is outside NSW and transaction amount is 25000

Actor: Merchant A, Customer C

Description: Customer C tries to make a payment of 25000\$ to purchase goods from a supermarket merchant A send payment information to integration layer with mandatory fields. Integration sends enriched data which is received from data warehouse in the format accepted by fraud decisioning system. Fraud decisioning system finds merchant is outside NSW and transaction amount is more than the amount permitted for these criteria so transaction will get declined.