CBA

PAYMENT APPROVAL SYSTEM

PAS RELEASE 1

TEST PLAN

FUNCTIONAL / E2E INTEGRATION

REVISION: B

Revision	Change Date	By	Description
A	21/08/2021	Amit Malpure	First draft
B	22/08/2021	Amit Malpure	Final

Document Information	
Document Number:	
Issue Date:	22/08/2021
Revision Number:	B
Status:	Final
Author:	Amit Malpure
Approver:	

Document Approval				
Name	Organization	Role	Date	Signature
Prepared by Amit Malpure	CBA	Lead – Principal SDET	22/08/2021	
Reviewed by	CBA	Test Project Manager		
Reviewed by	CBA	Technical Delivery Manager		
Reviewed by	CBA	Senior Program Manager		
Reviewed by	CBA	Technical Design Authority		
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1. Introduction

1.3. Purpose

The purpose of this plan is to describe the approach for the Functional/E2E Integration Testing of the Payment Approval System – Release 1.
The documents elaborate testing scope, test approach and the test cases. Also it talks about roles and responsibilities, test environments and tools to be used.

1.4. Applicable Documents

System Functional Description Release 1
Test Strategy Rev E
Statement of Works Rev D
System Architecture Description Release 1 Rev C
Glossary and Acronyms

1.5. Glossary, Acronyms and Abbreviations

PAS – Payment Approval System
CPS – Card Payment System

Please see *Glossary and Acronyms* for a list of defined terms and acronyms used in this report.

2. Executive Summary

2.3. Project Description

The Payment Approval System validates all payments initiated by the Card Payment System. PAS gets requests from CPS based on which more details are fetched from customer and merchant database. PAS validates the data using the Fraud Decisioning Engine and send appropriate response back to CPS.

The Card Payment System enables customers / users to make payments using credit cards and debit cards.

2.4. Test Scope

Following are the features in scope of this test plan:

- ➢ PAS Integration Layer
- ➢ Integrations with external systems
  - ▪ CPS
  - ▪ DW

2.5. Out of Scope

Following are the features in scope of this test plan:

- ➢ CPS
- ➢ Non-functional Testing

2.6. Test Objective

- ➢ Ensure the Application Under Test conforms to functional requirements.
- ➢ Ensure the AUT meets the quality specifications defined by the client.
- ➢ Bugs/issues are identified and fixed before go live.
- ➢ Verify system integration with end-to-end scenarios.

3. Test Approach

This Test Plan is a reference source for all parties involved in PAS Release 1 Functional/E2E Integration testing, who will be required to follow and support the approach outlined in this document.

Functional/E2E Integration Testing will use a combination of manual and automation testing.

3.3. Automating test cases

Where possible, execute automated regression test suite (developed in EIT / scrum) in the SIT test environments. Tests that are not automated will be run manually.
Java, Apache CXF, Selenium will be used for creating and executing automation scripts.

3.4. Test Deliverables

- ➢ Test Plan (This document)
- ➢ Test Cases and Test Steps (This document)
- ➢ Defect Reports
- ➢ Test Summary Report

3.5. Test Cases

The test cases for all the functionalities in scope for Release 1 are detailed below:

Test Case Id	TC_001
Test Case Title	Verify successful Payment for Adult NSW Customer
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running DW is up and running
Test Steps	Initiate card payment using CPS for: Adult Customer with DOB NSW Customer NSW Merchant
Data reference	PAS_Test_Data.xlsx: TC_001
Expected Result	Payment should be approved.

Test Case Id	TC_002
Test Case Title	Verify successful Payment for Minor NSW Customer
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running DW is up and running
Test Steps	Initiate card payment using CPS for: Minor Customer with DOB NSW Customer NSW Merchant Transaction amount < $5000
Data reference	PAS_Test_Data.xlsx: TC_002
Expected Result	Payment should be approved.

Test Case Id	TC_003

Test Case Title	Verify failed Payment for non-NSW Merchant
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running DW is up and running
Test Steps	Initiate card payment using CPS for: Adult Customer with DOB NSW Customer VIC Merchant Transaction amount > $20000
Data reference	PAS_Test_Data.xlsx: TC_003
Expected Result	Payment should not be approved.

Test Case Id	TC_004
Test Case Title	Verify failed Payment for minor customer
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running DW is up and running
Test Steps	Initiate card payment using CPS for: Minor Customer with DOB NSW Merchant Transaction amount > $5000
Data reference	PAS_Test_Data.xlsx: TC_004
Expected Result	Payment should not be approved.

Test Case Id	TC_005
Test Case Title	Verify successful Payment for minor customer and QLD merchant
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running DW is up and running

Test Steps	Initiate card payment using CPS for:
	Minor Customer with DOB
	QLD Merchant
	Transaction amount < $5000
Data reference	PAS_Test_Data.xlsx: TC_005
Expected Result	Payment should be approved.

Test Case Id	TC_006
Test Case Title	Verify successful Payment for DOB unknown customer
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running
	DW is up and running
Test Steps	Initiate card payment using CPS for:
	Customer with unknown DOB
	NSW Merchant
Data reference	PAS_Test_Data.xlsx: TC_006
Expected Result	Payment should be approved.

Test Case Id	TC_007
Test Case Title	Verify failed Payment for unknown customer postcode
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running
	DW is up and running
Test Steps	Initiate card payment using CPS for:
	Customer with unknown post code
	NSW Merchant
	Transaction amount > $10000
Data reference	PAS_Test_Data.xlsx: TC_007
Expected Result	Payment should not be approved.

Test Case Id	TC_008
Test Case Title	Verify failed Payment for unknown customer postcode
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running DW is up and running
Test Steps	Initiate card payment using CPS for: Customer with unknown post code NSW Merchant Transaction amount <= $10000
Data reference	PAS_Test_Data.xlsx: TC_008
Expected Result	Payment should be approved.

Test Case Id	TC_009
Test Case Title	Verify failed Payment for unknown customer postcode and DOB
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running DW is up and running
Test Steps	Initiate card payment using CPS for: Customer with unknown post code and DOB NSW Merchant Transaction amount <= $10000
Data reference	PAS_Test_Data.xlsx: TC_009
Expected Result	Payment should be approved.

Test Case Id	TC_010
Test Case Title	Verify successful Payment for non-NSW Merchant
Test Priority	High
Core / Regression	Y
Precondition	CPS is up and running

	DW is up and running
Test Steps	Initiate card payment using CPS for: Adult Customer with DOB NSW Customer VIC Merchant Transaction amount <= $20000
Data reference	PAS_Test_Data.xlsx: TC_010
Expected Result	Payment should be approved.

4. Use Case example walkthrough

Test Case Title: Verify successful Payment for Adult NSW Customer

Step 1: Check CPS and DW are up and running
Step 2: Find an Adult customer in DW with following details:
      Cust DOB: 10 Jan 2000 (DOB before year 2002)
      Cust Postcode: 2051 (Any NSW postcode, starting with 2)
Step 3: Find a merchant in DW with following details:
      Merchant Postcode: 2051 (Any NSW postcode, starting with 2)
Step 4: Send a payment request using following data
      Cust Id = 123
      Tran Id = 100001
      Tran Amount = 2000
      Merchant Id = 456
Step 5: Validate result
      Payment should be successful.

5. Test Environment

The following test environment will be available for test execution:

- ➢ SIT
- ➢ UAT
- ➢ STG / Preprod
- ➢ Hosted in Azure
- ➢ Accessibile via VPN

6. Roles and Responsibilities

Roles	Responsibilities
Senior Program Manager	• Accountable for the definition & management of program scope • Ensures that the program outcomes meet the jointly agreed needs of the business. • Ownership of effective and professionally run steering committee and core team meetings.
Test Manager	• Overall Management of the Testing effort • Sign off on the Test Plan and Test Completion Report. • Escalation point for Project Test leads. • Confirm correct testing approach is being followed.
Test Lead	• Functional Test Coordination • Host/Attend the Triage Meetings • Managing Test execution. • Managing raising of Defects • Escalation of any Issues or Risks.
Test Team members	• Test Execution • Test Data Set up. • Recording of Observations and test results. • Escalation of any Issues or Risks.

7. Defect Management Process

The following Jira defect Management flow will be used during testing:
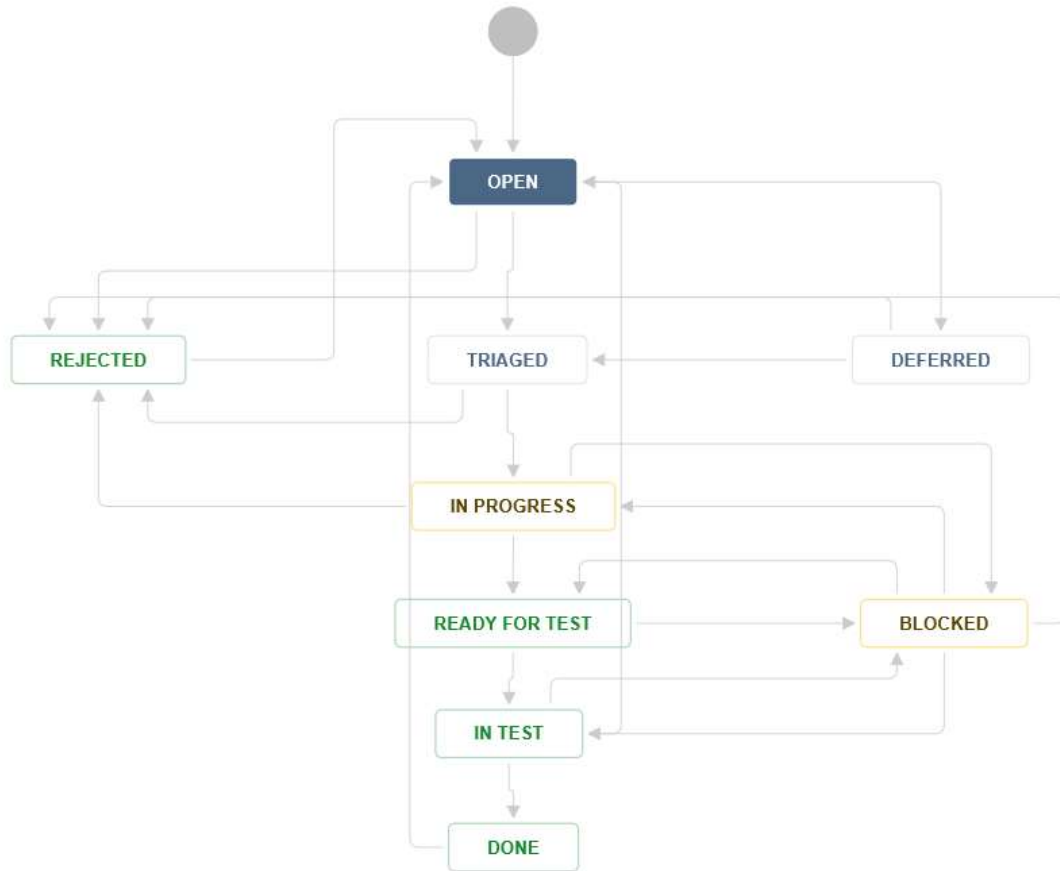
8. Test Risks, Dependencies and Assumptions

- ➢ CPS is up and running and connected to PAS
- ➢ DW is up and running and connected to PAS
- ➢ Approval of Test plan by product owner
- ➢ Availability of required test resources

9. Test Entry \ Exit Criteria

9.3. Testing Entry Criteria

#	Checklist
1	All requirements and test case coverage are signed off
2	All required software has been deployed to test environment
3	All required test resources are available
4	No major defects in EIT
5	Handover to System Test Gateway has passed

9.4. Test Exit Criteria

#	Checklist
1	There are no defects with Severity = 4 AND Priority = HIGH
2	All test cases have been executed

10. Test Tools

- ➢ Testrail – Test management
- ➢ Jira – Defect management
- ➢ Jenkins – CICD
- ➢ Postman – Test execution
- ➢ Eclipse / IntelliJ
- ➢ Java
- ➢ Apache CXF libraries
- ➢ Selenium libraries