Design Document (M145)

**M145\_US-373431- Japan Project River**

**Outbound Communications Part 2**

|  |  |  |
| --- | --- | --- |
| **Last Revision** | **Last Review** | **Description** |
| 1.0 | 01/15/2020 | Initial Draft |
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|  |  |  |

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Accepted by: Date:

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**Index**

[1. Overview 4](#_Toc495053840)

[1.1. References 4](#_Toc495053841)

[1.2. Objective 4](#_Toc495053842)

[1.3. Solution Summary 4](#_Toc495053843)

[1.4. Assumptions 6](#_Toc495053844)

[1.5. Dependencies 7](#_Toc495053845)

[1.6. Constraints 7](#_Toc495053846)

[1.7. Limitations 7](#_Toc495053847)

[1.8. Web Services List 7](#_Toc495053848)

[2. Behavioral Diagrams 8](#_Toc495053849)

[2.1. Use Cases 8](#_Toc495053850)

[2.2. Activity Diagram 8](#_Toc495053851)

[2.3. Sequence Diagrams 8](#_Toc495053852)

[2.4. Data Flow 8](#_Toc495053853)

[2.5. State Machine Diagram 8](#_Toc495053854)

[3. Structural Diagrams 9](#_Toc495053855)

[3.1. Entity Relational Diagram 9](#_Toc495053856)

[3.2. Class Diagram 9](#_Toc495053857)

[4. Conversion/Data Management 10](#_Toc495053858)

[4.1. Configurations 10](#_Toc495053859)

[4.2. Data Conversions 10](#_Toc495053860)

[4.3. Specific Technical Requirements for Testing 10](#_Toc495053861)

[5. Change Summary 11](#_Toc495053862)

[5.1. Presentation Layer 11](#_Toc495053863)

[5.2. Business Layer 11](#_Toc495053864)

[5.3. Data Access Objects 11](#_Toc495053865)

[5.4. Database Changes 11](#_Toc495053866)

[5.5. Transall 11](#_Toc495053867)

[5.6. Reports 11](#_Toc495053868)

[6. Component Testing 12](#_Toc495053869)

[6.1. Definition 12](#_Toc495053870)

[7. Requirement Traceability Matrix 13](#_Toc495053871)

[8. Check Lists 14](#_Toc495053872)

[8.1. Pre-Design 14](#_Toc495053873)

[8.2. Design 14](#_Toc495053874)

[8.3. Post-Design 14](#_Toc495053875)

[8.4. Code Check-in Team Foundation Server 14](#_Toc495053876)

[8.5. .NET 14](#_Toc495053877)

[8.6. Oracle 14](#_Toc495053878)

[9. Estimation of Effort: 15](#_Toc495053879)

# Overview

## References

## Objective

The objective of this document is to describe the technical solution and system changes needed to support the changes required in the fulfillment configuration setup for Rakuten dealer.

## Solution Summary









### **1.3.1 Elita Changes for Configurations**

## Assumptions

## Dependencies

## Constraints

## Limitations

# Behavioral Diagrams

## Use Cases

## Activity Diagram

## Sequence Diagrams

## Data Flow

## State Machine Diagram

## Structural Diagrams

## Entity Relational Diagram

## Class Diagram

# Conversion/Data Management

## Configurations

* Business Analyst

## Data Conversions

## Specific Technical Requirements for Testing

# Change Summary

## Presentation Layer

### User Interface

### Web Services

### Uploads

## Business Layer

## Data Access Objects

## Database Changes

### Tables

### Indexes

### Triggers

### Stored Procedures

### Functions

### Packages

### Question Set

## Transall

## Reports

## Attachments

# Component Testing

## Definition

It is completed after unit testing and involves testing a group of units of code together as a whole (modules & programs) at the application level rather than testing individual functions or methods directly (unit testing). It has a higher level of integration. It is not functional testing. **This will be done with the Development/Integration environment**.

Develop component test cases to be executed as part of each project. (Duration per project will be estimated)

Execution:

1. Application focus areas to execute component test cases
2. Developers will document test cases and configuration which will be executed for each project based on requirements and impacted areas. This should be captured in QC.

# Requirement Traceability Matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Requirement XRef. Number | Design XRef. Number | Brief Description | Type of Component | Configuration Required | Conversion Required |
|  |  |  | N, TS, OS and OP |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

Type of Component: N = Web App, WS=Web Service, BS = Batch Service, TS=Transall Service, WS= Windows Service, C = Crystal Report, OP = Oracle Procedure / Function / Package, OS = Oracle Structure, L=Linux, TR=Transall Project, J= UC4, PWS = Policy Web Service, HS = Harvester Service, SSRS – SSRS Report, ODS = Oracle Data Script

# Check Lists

## Pre-Design

* Did you read requirement document (M-142) completely, line by line?
* Are all questions related to requirement answered?
* Have you uploaded requirement review document (M-143) in ALM?

## Design

* Does design address PCI/PII information handling /processing?
* Have you completed all sections of design document and explicitly mentioned “None” or “Not Applicable” on empty sections?

## Post-Design

* Do you complete E1 estimates in section #9?
* Have you upload design review document (M-146) in AML?

## Code Check-in Team Foundation Server

* Did you attach TFS Work Item to change set?

## .NET

* Did you remove all warning in the file(s) you have modified?

## Oracle

* Did you full qualify function?
* Did you full qualify procedure?
* Did you full qualify package?
* Did you full qualify the Views?
* Did you full qualify the Materialized View?
* Did you add exception handing that will write the error in the ELP\_ORACLE\_ERROR\_LOG for all the functions, procedures outside and inside packages?
* Did you add a YES/NO file for all the Procedures that will be used in daily/monthly jobs?

# Estimation of Effort:

|  |  |  |  |
| --- | --- | --- | --- |
| **Project Request** | **Description** | | |
| <<Requirement Number>> | <<Requirement Name>> | | |
| **Developer** | <<Developer Name>> | | |
| **E1 Estimate** | <<E1 Estimate>> | | |
|  |  |  |  | |
|  | **DATE ESTIMATE PROVIDED** |  |
| **PROJECT PHASE** | **PHASE DESCRIPTION** | **I/T HOURS** |
| **REQUIREMENTS & ANALYSIS** | The project request in PPM has been submitted along with the User Requirements (M142). The other forms started and/or completed in this stage are: User Requirements Review and Signoff. |  |
| **DETAIL DESIGN** | The IT analyst will complete the system analysis and detail design document (M145) and provide the E1 estimate. The other forms started and completed in this stage are: Design Review/Inspection and Application/Technology Build (M122). |  |
| **BUILD** | The system changes are in the coding phase with unit testing. |  |
| **TESTING** | This phase includes complete unit and component testing, |  |
| **DOCUMENTATION** | The IT analyst will allocate 10 to 15 percent of their time to Documentation. |  |
| **IMPLEMENTATION** | The analyst will allocate time for migrating modules and table changes to production plus any other required steps. This phase will include the Production Move Criteria |  |
| **POST IMPLEMENTATION** | Any steps required for task after the move to production are completed. This will include the Post Implementation Review |  |
| **CODE REVIEW** | Peer-Code Review efforts, typically 5% of Build efforts. This effort is for reviewer. |  |
| **TOTAL HOURS** |  |  |
|  | **ESTIMATED START DATE** |  |
|  | **ESTIMATED DEVELOPMENT COMPLETION DATE** |  |