USAA

|  |  |
| --- | --- |
| Init No: |  |
| Document Name: | Orbograph Process |
| Document Type: | Technical Specification |
| Version: | 1 |
| Version Date: | 4/25/2019 |
| Author(s): | Ziaul Chowdhury |

Trademarks

Trademarked names may appear throughout this document. Rather than list the names and entities that own the trademarks or insert a trademark symbol with each mention of the trademarked name, the trademarked names are used only for editorial purposes and to the benefit of the trademark owner with no intention of infringing upon that trademark.

Document Control

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Author** | **Date** | **Revision** |
| 1.0 | Ziaul Chowdhury | 04/23/2016 | initial version |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

This document has been reviewed by:

|  |  |  |
| --- | --- | --- |
|  | **Approver** | **Date Reviewed** |
| 1 | Mike |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |

Distribution

|  |  |  |  |
| --- | --- | --- | --- |
| **Subject Matter Experts** | | | |
|  | **Name** | **Signature** | **Date Approved** |
| 1 |  |  |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |

The following Document properties are used in this document:

Table of Contents

[Object Information 4](#_Toc479290298)

[1 Technical Overview 5](#_Toc479290299)

[1.1 Overview 5](#_Toc479290300)

[1.2 Description 5](#_Toc479290301)

[1.3 Key Dependencies/Assumptions 5](#_Toc479290302)

[2 Technical Specifications 5](#_Toc479290303)

[2.1 Boundary Systems 5](#_Toc479290304)

[2.2 Integration Pattern 5](#_Toc479290305)

[2.3 System Connectivity/Application Integration Points 5](#_Toc479290306)

[2.4 Integration Start/Trigger Conditions 5](#_Toc479290307)

[2.5 Program Flow 5](#_Toc479290308)

[2.6 Integration Dependencies 5](#_Toc479290309)

[2.7 System Unavailability Implications 5](#_Toc479290310)

[2.7.1.1 Table and View Usage 6](#_Toc479290311)

[2.7.1.2 Error Handling 6](#_Toc479290312)

[2.7.1.3 Transaction Integrity/Compensation Considerations 6](#_Toc479290313)

[3 Application Design 7](#_Toc479290314)

[3.1 Use Case Scenarios 7](#_Toc479290315)

[3.2 Process View 7](#_Toc479290316)

[3.2.1 Sequence 7](#_Toc479290317)

[3.2.2 Sequence Diagram 8](#_Toc479290318)

[3.3 Data View 9](#_Toc479290319)

[3.3.1 JSON 9](#_Toc479290320)

[3.3.2 Data Mapping 9](#_Toc479290321)

[3.4 Deployment View 10](#_Toc479290322)

[3.5 Non Functional Requirements 10](#_Toc479290323)

[3.5.1 Monitoring 10](#_Toc479290324)

[3.5.2 Logging 10](#_Toc479290325)

[3.5.3 Performance 10](#_Toc479290326)

[4 Issue Log 10](#_Toc479290327)

[4.1 Open Issues 10](#_Toc479290328)

[4.2 Closed Issues 11](#_Toc479290329)

# Object Information

|  |  |
| --- | --- |
| Project Name |  |
| Object ID |  |
| Object Name |  |
| Functional Spec Reference |  |
| Primary RICE Group |  |
| Functional Area |  |
| Technology Area |  |
| Business Group |  |

# Technical Overview

## Overview

Orbograph is a system that identifies fraudulent checks. The scope of this technical document is strictly to identify better solution between two different implementations 1) Batch Process 2) Micro Service.

## Description

A description what Orbograph would do

## Key Dependencies/Assumptions

* Port(s) and/or firewall for external communication will be opened as needed.
* Orbograph system technologically capable enough to handle request from batch process/micro-service
* Network communication and Database setup will be done as per requirement(s)
* All applications indicated in system boundary will work as expected.

# Technical Specifications

## Boundary Systems

Batch Process OR RESTful Service, Orbograph.

## Integration Pattern

Batch Process/RESTful Service

## System Connectivity/Application Integration Points

Web Service

## Integration Start/Trigger Conditions

.

## Program Flow

1. Batch Process -> Orbograph Or
2. Micro Service -> Orbograph

## Integration Dependencies

## System Unavailability Implications

### Table and View Usage

N/A

### Error Handling

### Transaction Integrity/Compensation Considerations

# Application Design

## Use Case Scenarios

## Process View

### Sequence

1. Reader reads
2. Request authorization

### Sequence Diagram



## Data View





### JSON

### Data Mapping

Data Mapping from Service to Orbograph.

|  |  |
| --- | --- |
|  |  |
|  |  |

*\*bold denotes mandatory field*

## Deployment View

REST Service

Jboss

Server

## Non Functional Requirements

### Monitoring

### Logging

Logging is MUST for all boundary systems.

### Performance

# Issue Log

## Open Issues

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
| 1 |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Closed Issues

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | Issue | Resolution | Responsibility | Target Date | Impact Date |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |