**UHO**

United Health Organization

**Integration Technical Design Document**

**aws-sapi technical design**

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| **Prepared By:** | Chinna Reddy |
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**Approvals**

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| **1** | **upload-s3-document** | **TBD** | **TBD** |
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# Introduction

## Document Overview

### Intended Audience

This document is intended to be used by the integration developers, Integration support team, architects, and testers who will be designing, implementing, and maintaining these middleware services. This document is not intended to be used by the API consumers; API documentation is provided on the Anypoint platform.

### Structure

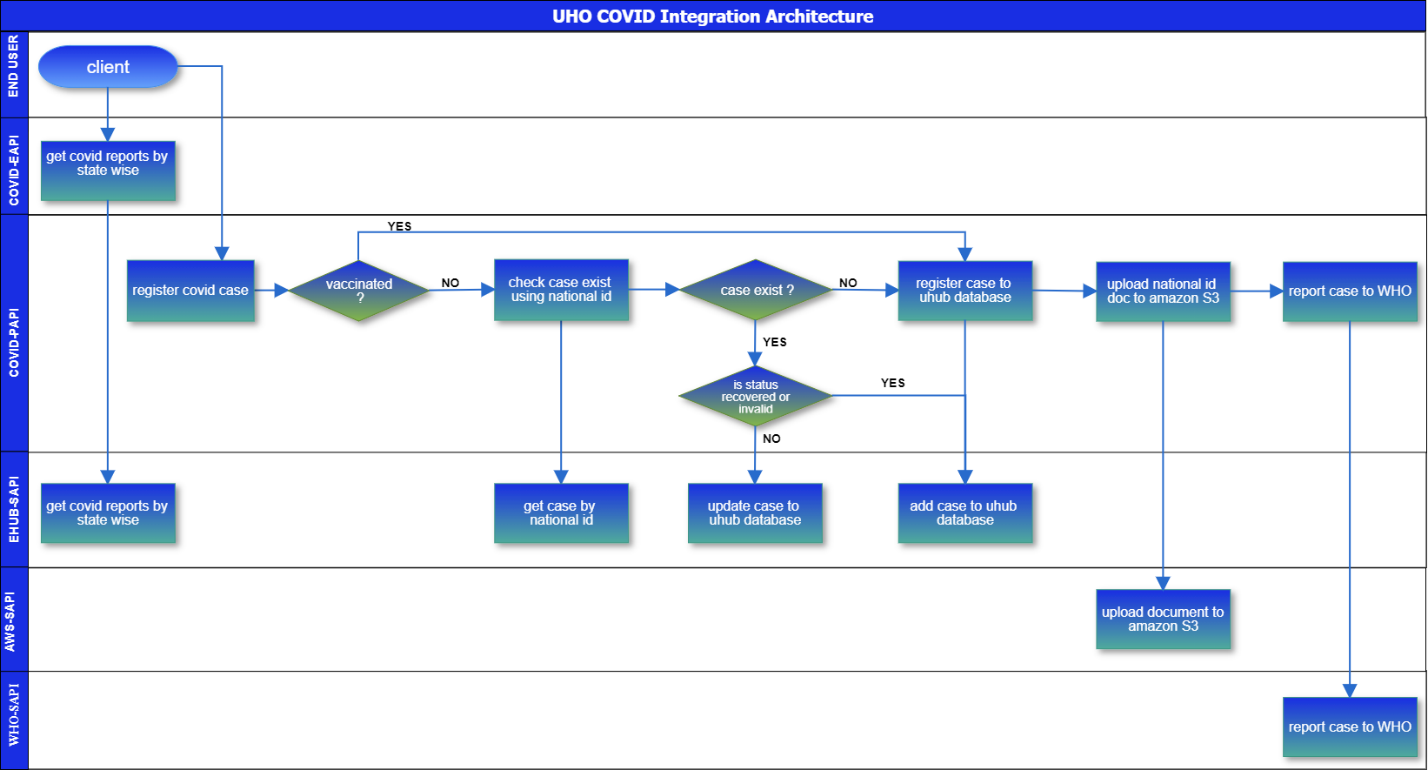
This document contains an overview and depiction of all the services. Document includes detailed designs for each service, including intended API consumers, business rules, technical considerations, and result codes.

### Related Documents

The following list provides links to related documents:

|  |  |  |
| --- | --- | --- |
| Document | Intended Use | Share point Link |
| Solution Architecture Document |  |  |
| Data Mapping document |  |  |

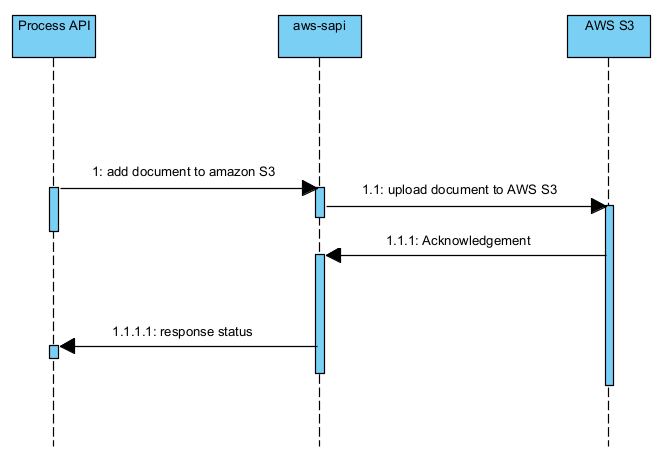
# Technical Architecture



# Services/APIs High level Specification

## upload-s3-document : https://uho-{env}-aws-sapi/covid/v1/document

This is a POST based API allows COVID case document JSON payload as input then decodes using base 64 then uploads document to AWS S3 bucket and responds back 200, Success. On failure the API will respond back corresponding error code and message along with description.



1. The process API’s consumes aws-sapi.
   1. The aws-sapi uploads document to amazon S3.
      1. The amazon S3 responds back generated acknowledgement.

1.1.1.1 The aws-sapi API responds back client.

### Input and Output Definitions of API

**Input:**

{

   "bucketName":"uho-covid-docs",

   "folderPath":"identity",

"fileName":"35653.png",

   "document":"iVBORw0KGgoAAAANSUhEUgAAAOIAAACRCAYAAADepmS4AAAAAXNSR0IArs4c6QAAAARnQU1BAACxjw"

}

**Output: 200, Success**

{

   "code": 200,

   "message": "Success",

   "description": "Document uploaded successfully",

   "dateTime": "2021-07-29T05:58:02Z",

   "transactionId": "44b32520-61ee-47b4-907d-fa15869f3c4d"

}

Mapping



### Consumers

|  |  |  |
| --- | --- | --- |
| API Consumer | Description | |
| Experience API’s / Process API’s | | Experience API’s consumes amq-sapi services to upload documents to amazon S3. |
| Other UHO applications | | UHO applications can consume amq-sapi services to upload documents to amazon S3. |

### Technical details

|  |  |
| --- | --- |
| API Name | aws-sapi |
| Business Requirements | As mentioned in integration solution document |
| API Communication Type | REST |
| Interface Pattern | Request/Reply |
| Interface Definitions | RAML API Specification |
| Sample Request | JSON(Section 3.1.1) |
| Sample Response | JSON(Section 3.1.1) |

### Non Functional

|  |  |
| --- | --- |
| Post Execution Notification Details | Data-Related Failures Handling:  Currently all the errors will be logged into logs with log4j.  Consumer API is responsible to log about error details.  Can be visible in runtime manager.  Technical Errors Handling:  Currently all the errors will be logged into logs with log4j.  Consumer API is responsible to log about error details.  Can be visible in runtime manager. |
| Process Log Audit Details | Audit & Logging:  Created Logs for the following   * Request message at entry point * Request message at system call entry point * Request message at system call entry point * Request completed |

### Error Handling

|  |  |  |
| --- | --- | --- |
| No. | Type of Exception | Exception Handling |
| 1 | Any technical issue | * API shall respond corresponding response message. * API will record the error in logs. * Runtime manager notifications will be configured - TBD * Application Administrative team will be notified using an email notification service- TBD |

### Integration test cases

| **Description** | **Result** |
| --- | --- |
| Successful case registration | 200 - Success |
| System connectivity failure (Database is down) | 503 - The (upstream) service is temporarily not available |
| Invalid JSON payload request | 400 – Bad request |
| Internal server error | 500 – Internal server error |
| API Kit Router errors | Global errors |

### API Endpoint Details

| **Requirement** | **Method** | **Details** |
| --- | --- | --- |
| **Development** | POST | <https://uho-dev-aws-sapi/covid/v1/>document |
| **Test** | POST | <https://uho-test-aws-sapi/covid/v1/>document |
| **UAT** | POST | <https://uho-uat-aws-sapi/covid/v1/>document |
| **Production** | POST | <https://uho-prod-aws-sapi/covid/v1/>document |

# API Policies, Access and Network Security

|  |
| --- |
| Define API policies to be configured / customized |

| **Requirement** | **Details** |
| --- | --- |
| Access to APIs - Authentication | client\_id enforcement |
| API Policy | CORS should be enabled |
| Communication over API’s | x-transaction-id and correlation-id |

# Open Issues

|  |  |
| --- | --- |
| **No** | **Open Issues** |
| 1.0 |  |
|  |  |

# Appendix A – Interface details

WSDLs

Exported RAMLs

Tables outlining data design