THE SWIFT
DOCUMENT PROCESSOR (SDP)

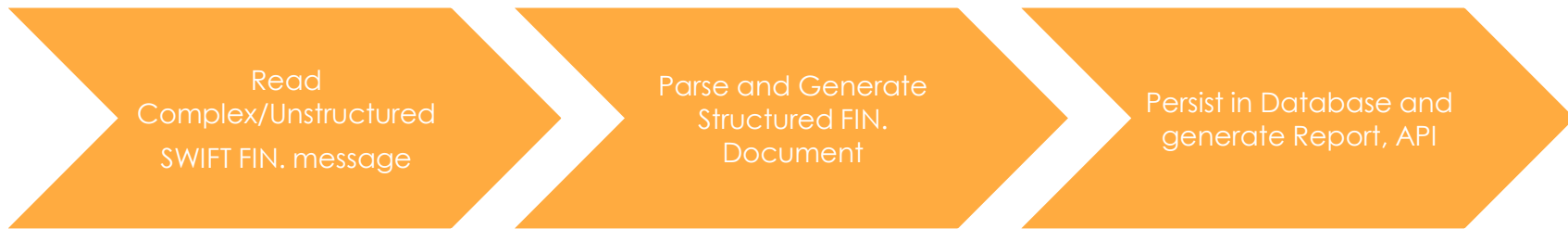# OVERVIEW

- Project Scope
- Process /Transaction Workflow
- Technical Architecture
- Proof of Concept (PoC)
- Contact Details

PROJECT SCOPE

- The scope of work involves implementing a **Swift Document Processor** (SDP) engine

- The **SDP Engine** will parse a raw unstructured swift text (representing a Swift Document) as input and return a structured Swift object as output.

- The **SDP API** return swift object will be available in two formats:

  - a Javascript Object Notation (JSON) object: available via an API

  - a database object (view) that can be queried using standard SQL

- An **SDP Scheduler**: retrieves new Swift documents for the Swift Alliance automatically and parses document into **SDP Database** storage

- Swift documents will be uploaded into into the **SDP Web Porta**l for processing and reporting

ABOUT SWIFT

- SWIFT is a global member-owned cooperative and the world's leading provider of secure financial messaging services
- SWIFT's messaging services are trusted and used by more than 11,000 financial institutions in more than 200 countries and territories around the world
- FIN is the longest established of all our messaging services. It enables the exchange of messages formatted with the traditional SWIFT MT standards. These standards cover a wide range of business areas and are widely used and accepted by the financial community.
- FIN enables the exchange of messages on a message-per-message basis, and supports the exchange of proprietary formats between market infrastructures and their customers.
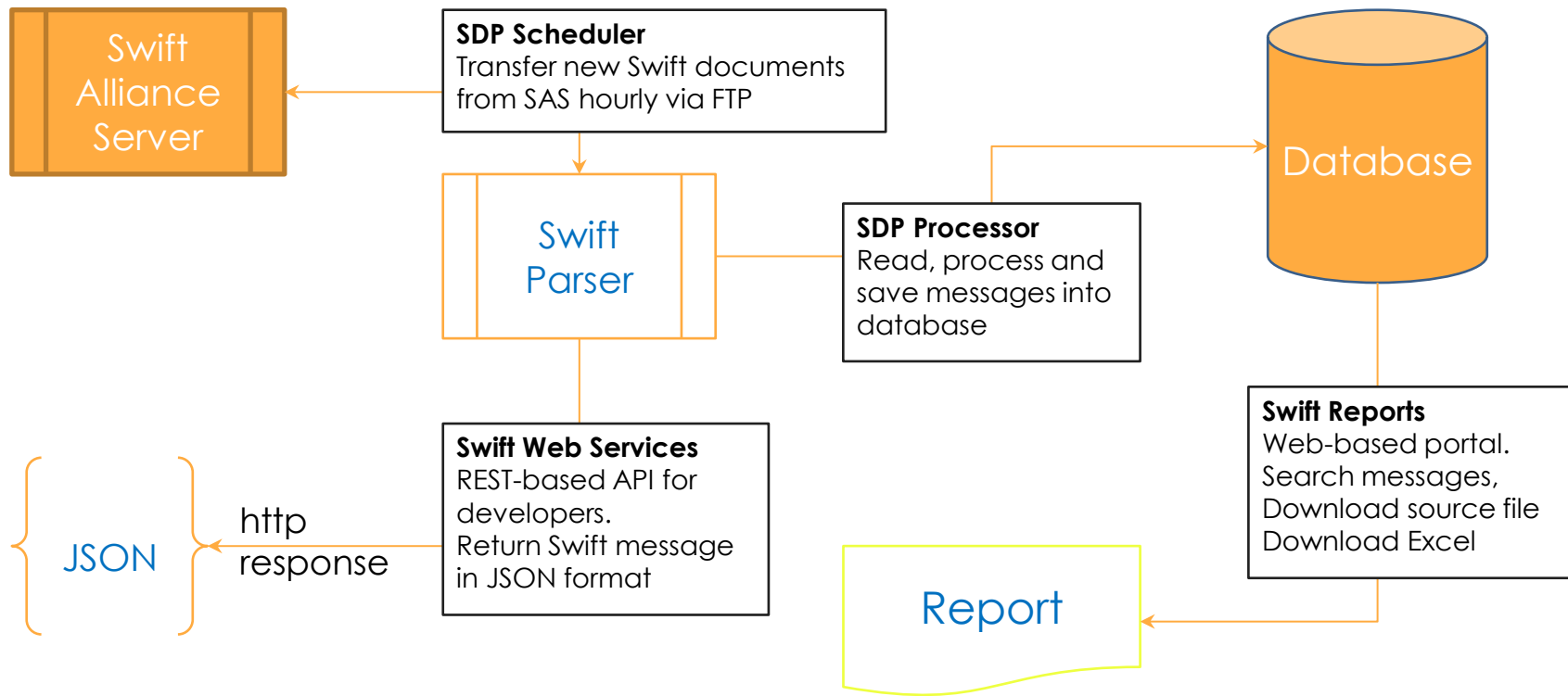
HOW SDP PROCESSES SWIFT FIN. MESSAGES

Read Complex/Unstructured SWIFT FIN. message

Parse and Generate Structured FIN. Document

Persist in Database and generate Report, API

KEY DELIVERABLE

A structured Swift Message available in these formats:

S/N	Format	Channel
1	Web Report	Swift Portal
2	**Javascript Object Notation (JSON)**	Swift API
3	Database View	Database View (SQL Query)
4	Raw Source File	Swift Portal
5	Excel,CSV Download	Swift Portal

ARCHITECTURE

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Swift Alliance Server

SDP Scheduler
Transfer new Swift documents from SAS hourly via FTP

Swift Parser

SDP Processor
Read, process and save messages into database

Database

Swift Web Services
REST-based API for developers.
Return Swift message in JSON format

Swift Reports
Web-based portal.
Search messages,
Download source file
Download Excel

JSON

http response

Report

SDP Web Portal

SDP Web Server

SDP Database

SYSTEM REQUIREMENTS

S/N	Item	Description (Minimum Requirements)
1	**Operating System**	Windows 10 or Linux 5oog HD 16g RAM (minimum requirement)
2	**Web Server**	Apache HTTP Server
3	**Database**	MySQL / PostgreSQL

IMPLEMENTATION TIMELINE

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S/N	Item	Description	Responsible	Timeline (working days)	Tentative date
1	Sign-off	Conclude agreement and commercials. Implement defined requirements	NOVAJI/BANK	5 days	-
2	On-premise deployment	Deploy SDP software on Customer's servers & infrastructure	NOVAJI	5 days	-
3	UAT	Perform UAT with live data	BANK	5 days	-
4	Go-live	Monitor software. Apply updates/patches to additional requirements	NOVAJI	10 days	-
Total				**25 days**	

SUCCESS CRITERIA

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S/N	Item	Description
1	**API Endpoints & Documentation**	Confirm that API endpoints & documentation available and tested by Customer in line with requirements
2	**Scheduler & Parser**	Messages automatically tranferred from Swift Alliance Server via FTP. Messages inserted into database.
3	**Portal access**	Confirm that Swift Reports Portal is available at URL Search, Filter and Download messages in Excel and Original Source Document
4	**Database availability**	Confirm that database populated with parsed data. Data can be queried in SQL
5	**Data integrity**	Confirm that the integrity of the information on the Parsed Document should be same with the source document. Confirm that all needed fields are available in parsed document

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