

How a large bank enhanced user experiences on Tandem and Unisys systems

This document describes how we helped a multi-national bank achieve digital transformation success in Tandem (HP Non-stop) and Unisys environments without the typical cost, staff, time and risk. They have done this across multiple lines of business including customer accounts, credit and debt systems, and investment and currency exchanges.

Executive Summary

- The bank was falling behind competitors and committed to a digital transformation process
- Many previous attempts were costly and failed to meet expectations
- OpenLegacy exposed their core banking applications
- Bypassed the ESB middleware and messaging layers
- With OpenLegacy and VMware, they met their goals for open banking and faster innovation

Accelerated time to market, creating an API in

1 hour

vs. 1-2 months

Created 6 new business workflows in just

2 weeks

TCO

reduced by running OpenLegacy APIs in the cloud

One

Java developer required to design and deploy APIs

Reduction

of testing time & resource dependency

Challenge

- Leveraging the bank's Unisys/Tandem mainframe system to increase ROI
- Opening up the IT stack, sharing data and integrating business processes
- Bank tellers used a combination of green screens and internal applications
- Customers needed mobile banking
- Modernization projects were slow, complex, nonscalable, and added to middleware layers
- After years of effort the bank's goals remained unmet

Solution

- Our platform exposed all core banking applications and hundreds of processes
- Code was generated automatically, using templates
- Our mainframe connector, COBOL parser and API generator deployed six processes in a 2 week sprint
- No changes required to legacy systems
- Bypassed layers of ESB/SOA complexity and exposed mainframes directly
- Fast and reliable test execution, full alignment with DevOps for velocity and scale

By the Numbers: APIs with OpenLegacy

200

production APIs
(Unisys/Tandem)

600

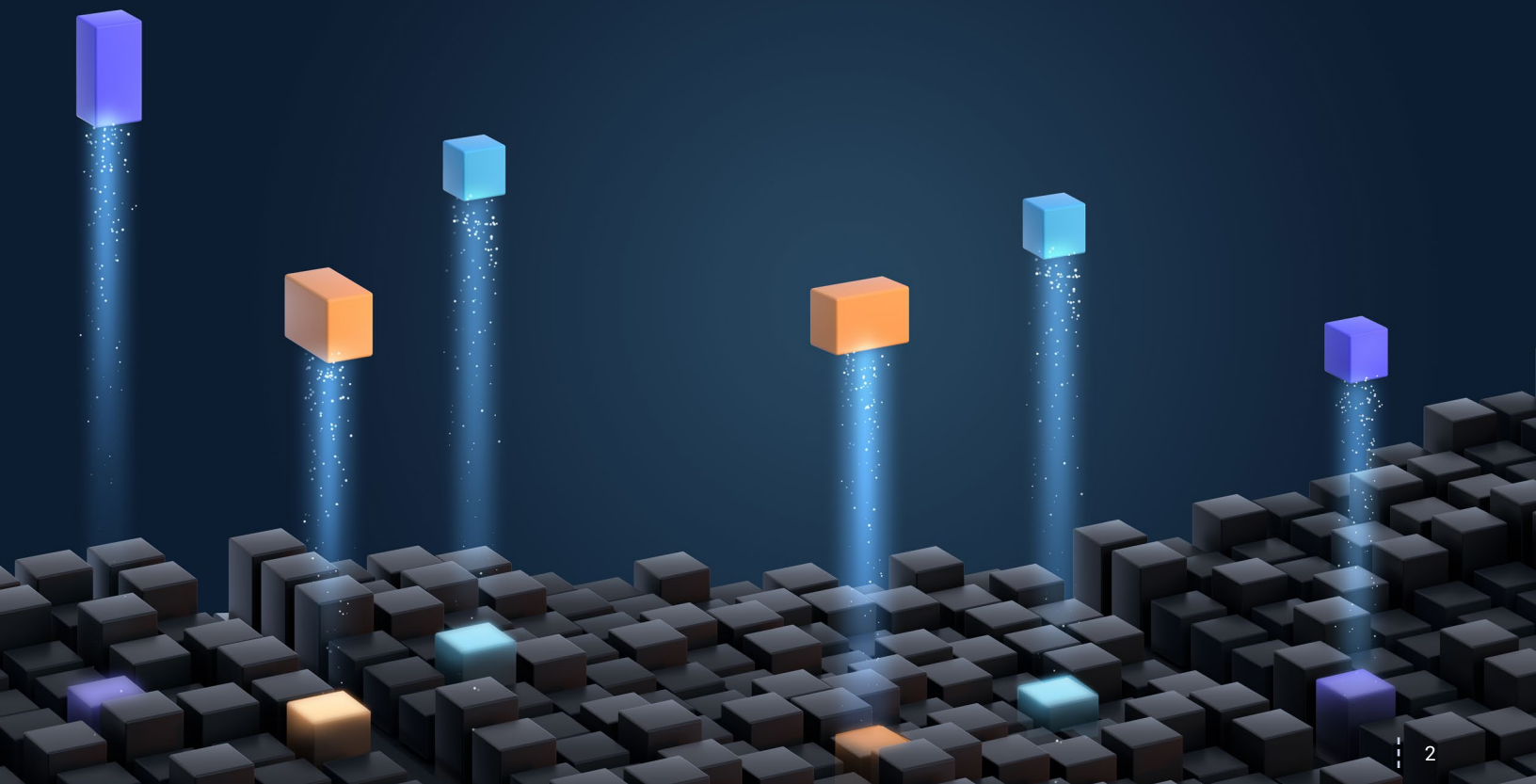
production Elements
(SDK)

40

APIs developed
in 1 Quarter

100

elements developed
in 1 Quarter



Different core backend systems require different access methods

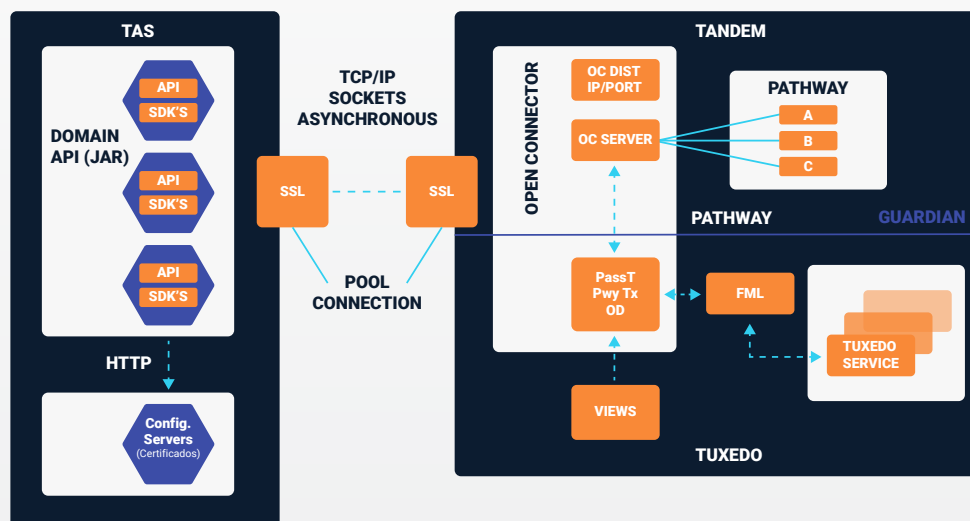
The bank needed a number of options to integrate their Tandem/Unisys applications. OpenLegacy provided them the flexibility and standardization in one digital driven integration platform.

- SOAP Integration with Tandem Pathway
- JOLT/SALT Tuxedo Integration
- MQ Integration
- OpenLegacy Connector

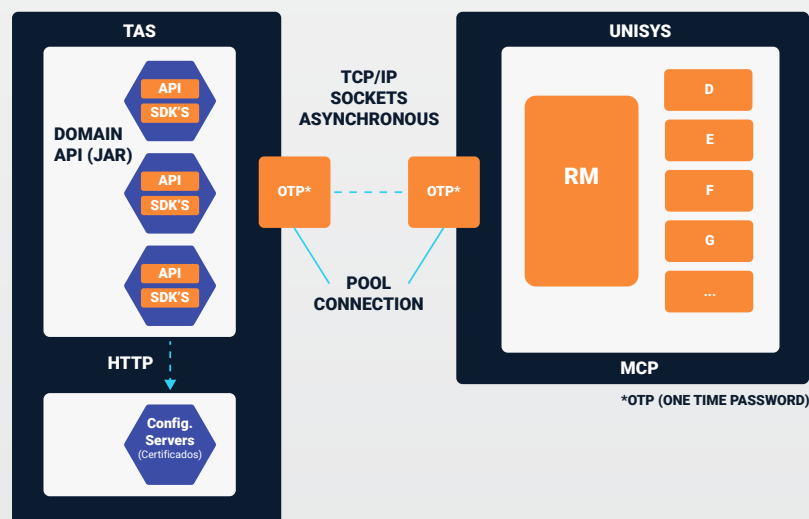
OpenLegacy enabled the bank to select the most cost and time effective solution for their backend applications. They avoided expensive custom coding, purchases of additional 3rd party licenses and freed them from deeper technical debt.

This bank implemented a direct architecture leveraging Pathway and Tuxedo. The architectural pattern for both the Tandem and Unisys systems directly into VMware Tanzu are shown below.

Tandem architecture



Unisys final architecture

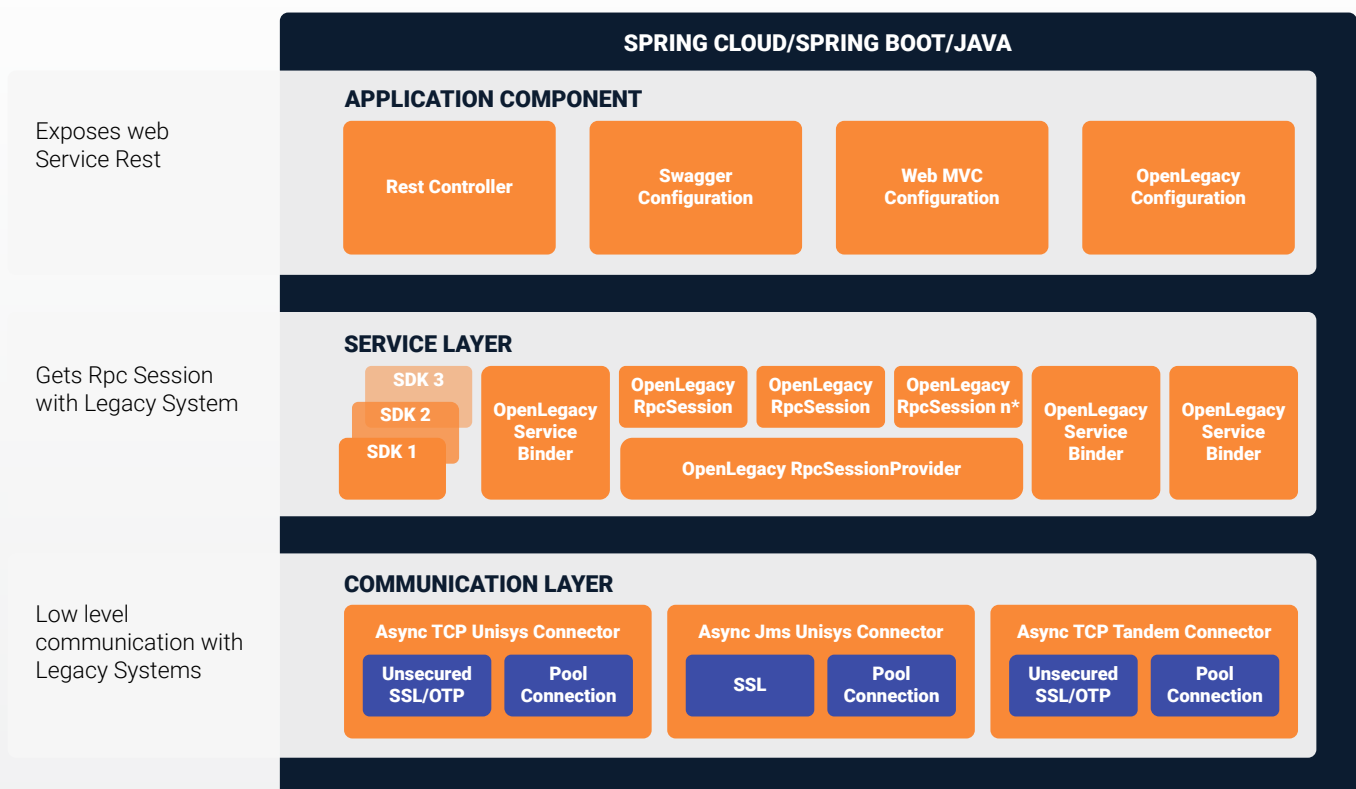


The bank used OpenLegacy's automatically generated SDKs and RPCsessions to create a simple integration service layer. This configuration decoupled the bankend applications, giving them flexibility and a standard interface for Tandem and Unisys. This architecture bypasses TIBCO middleware. The elimination of these layers dramatically improved run-time performance. OpenLegacy platform generated microservices

for domain APIs and adapters across multiple services including login, balance, and other data. It also handled the validation since with web services you no longer control IP addresses in the same manner. These are done through templates.

These microservices get deployed into VMware Tanzu, which also includes the microservices for the mobile banking applications themselves.

Bank customization of microservices with OpenLegacy



About

OpenLegacy's Digital-Driven Integration enables organizations with legacy systems to release new digital services faster and easier than ever before. It connects directly to virtually any core system, instantly creating microservice-based APIs that power exciting new digital services. OpenLegacy helps industry-leading companies drastically reduce costs and resources while helping them become digital to the core.