



AmBank Group

ECS Fin

AmBank Case Study

ISO 20022 | MESSAGE HUB | REAL-TIME PAYMENTS

ECS Fin's IMS Message Hub transformed nearly 30,000 ACH payments into ISO 20022 message formats and release via the Real-Time Payment rail overnight.



At A Glance

Challenges

- Missed cut-off time
- ISO 20022 migration
- 30,000 stuck transactions

Benefits

- No disruption to legacy systems
- Solution implemented overnight
- 30,000 transactions released



"[ECS] rose up to the challenge and managed to deliver the tool literally overnight"

Datuk Iswaraan Suppiah
Chief Operations Officer
AmBank

About AmBank

AmBank is headquartered in Kuala Lumpur, Malaysia and is the sixth-largest banking group by asset size totaling \$170.2 billion. AmBank provides services in wholesale banking, retail banking, business banking, investment banking, and related financial services.

The Problem

AmBank missed the cut-off time to send transactions over IBG (Interbank GIRO), Malaysia's ACH payment rail, right before the Chinese New Year. Roughly 30,000 transactions were not released right before the long holiday break, creating a wide-ranging impact. With dire urgency to resolve this issue, AmBank approached ECS Fin looking for a solution.

The Solution

ECS' architects suggested to send the 30,000 transactions over the Real-Time Payments network as these payments are not restricted by processing times. In order to do this, ECS utilized the IMS Message Platform to transform ACH transactions, in the IBG NACHA format, into the ISO 20022 format, which is the global standard for real-time payment systems.

Project Background

Components of the IMS Platform were utilized to transform NACHA message formats to ISO 20022 and release 30,000 payments via the Real-Time Payment network.

IMS PLATFORM

The IMS Platform is an organized data processing system that can control the behavior of messages, payments, and securities. The solution contains modules and services that can be intertwined and stacked for a fully robust solution. AmBank utilized the following to:

- transform between message formats and;
- release 30,000 payments via RTP network.

MESSAGE LIBRARIES

IMS contains a rich message library that holds all pre-built message formats including ISO 20022, MT/MX, NACHA, Fedwire, FIX, BAI2, proprietary formats, and more.

MESSAGE TRANSFORMATION

The IMS Message Hub allows for easy transformation between formats in a single platform. To do this, the structure of the original source and destination message formats must be defined within IMS. ECS architects used the existing message library to configure the structure of the source (NACHA) and destination (ISO 20022) formats. Each field was defined, as needed, with built-in functions including conditional, limits, string, reference lookups, enrichment, and more. Fields were then mapped utilizing a traditional drag and drop mapping method.

The next step was to perform a series of tests to ensure validity of data migration. ECS' Test Simulator qualifies end-to-end processing of payment transactions to ensure positive workflow and identify negative workflows. Within a 24 hour time span, ECS architects tested and successfully transformed all transactions.

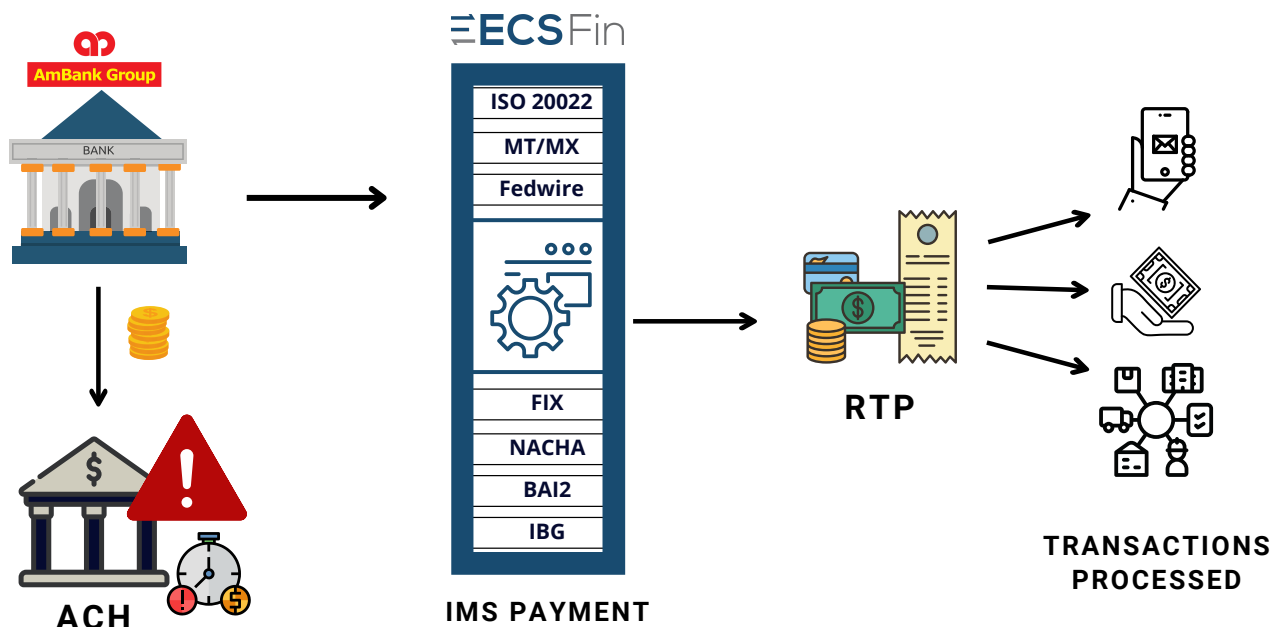
TRANSACTION PROCESSING

All transactions were released to the Real-Time Payment network and statuses could be monitored on the IMS Payment Hub in real-time. Any errors on individual transactions would be "rolled back" and could be worked on by AmBank's operations team, but would not stop positive transactions from further processing.

STORAGE OF DATA

With the rich data fields in ISO 20022 message formats, it creates a large concern around compliance and delivering data. IMS contains a repository that stores all original copies of data as well as the transformed message formats in the event that AmBank needed to retract data.

Architectural Diagram



Results

With extreme urgency from AmBank, ECS Fin resolved this issue overnight. All 30,000 transactions were successfully transformed, tested, and released over the Real-Time Payments network. The Chief Operations Officer at AmBank, Datuk Iswaraan Suppiah, even called this a miracle!