# indium
Make Technology Work

# How Indium Helped a Private Sector Bank Reduce Maintenance Costs by USD 500K Leveraging Striim and Azure Synapse Analytics

Digital Services

Success Story

## Status Quo

The client is one of fastest growing private sector banks offering specialized services across various business verticals, namely: Corporate & Institutional Banking, Commercial Banking, Branch & Business       Banking, Retail Assets, Development Banking and Financial Inclusion, Treasury and Financial Markets Operations. With close to 9 million customers, they have a presence with thousands of office locations and branches.

Being in the banking service it is very crucial for the client to have data updated in real-time from their core banking systems to a reliable destination database for downstream analytics. The data migration needs to be efficient and scale to meet future business needs.

## Project Overview

Indium leveraged Striim as the Data-Integration tool to migrate data in real-time from an Oracle & MS SQL On-prem Core Banking System to Azure ADLS (Data Lake) and Azure Synapse Analytics (Data Warehouse), while ensuring data concurrency and formatting of the data in the data pipeline. Migration of historic data from the source systems to the target was also accomplished using this process.

## Business Challenge

The existing system had 2 Core Banking systems: (i) Finacle (Oracle) & (ii) Ganaseva (MS SQL). Around 350+ tables were required to be updated in real-time from these Core banking Systems. Some of these table extracts were in XML format and it was important that it be migrated as is and parsed as relational data.

## Business Requirement

- Create a pipeline to replicate data from the existing Core Banking System to Azure cloud infrastructure.
- Migration of historic data without any data leakage.
- Ensuring a real-time replication pipeline can be maintained for data concurrency.
- Migration of XML data into both ASIS and RDBMS table, while retaining the format.

## Our Solutions

- Leverage Striim to achieve a real-time data replication pipeline between the Core Banking source systems to target Azure Cloud along with XML data conversion on the fly.
- Azure cloud infrastructure was setup with the Data Lake on ADLS and Data Warehouse on Azure Synapse Analytics.
- Implement a process for the migration of terabytes of historical data from Oracle & MS SQL Core Banking system to the Cloud.
- Setup a diverse set of metrics and live dashboards for effective data monitoring and ease of use.

## Business
Data Warehousing, Striim

## Domain
Banking

## Technologies
**Striim** – Date Replication Tool
**Oracle** – Finacle Core Banking System
**MS SQL** – Ganaseva Core Banking System
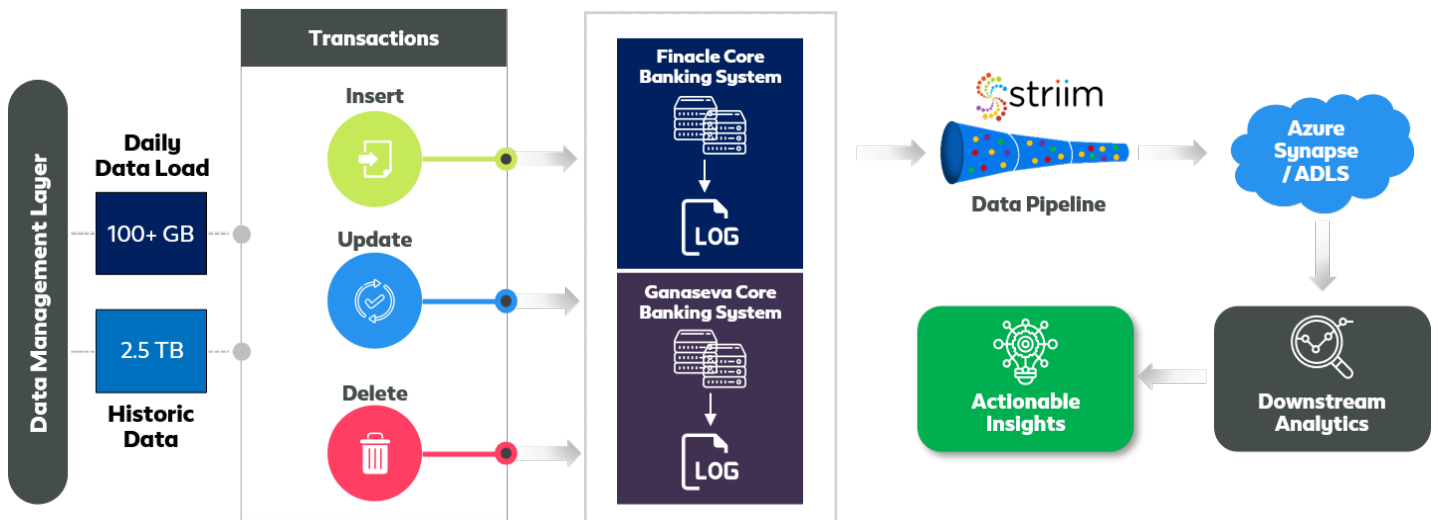**Azure ADLS** – Azure File Storage
**Azure Synapse** – Azure SQL Data Warehouse

## Key Highlights

- 50% improvement in the data migration process efficiency, by leveraging striim
- Striim coupled with Azure Synapse Analytics reduced maintenance and technical support costs by nearly USD 500,000
- Real-time data feed for Power BI reports

# Business Impact

- Leveraging Striim for Data Migration improved the data replication process efficiency by over 50%, from On-prem Core Banking system to Azure cloud.
- Ease of use of the tools as well as the cloud infrastructure reduced the maintenance and technical support costs by nearly 80%.
- Helped improve customer responsiveness and operational efficiency

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