

CASE STUDY

Data Lake - The Digital Highway for Near Real-time Operations



Our client was in the same shoes. They are the largest Vietnamese ICT business in the private sector, with tens of thousands of employees worldwide. With more than three decades of pioneering in the technology field, the business has quickly expanded to dozens of offices in 27 countries, divided into eight subsidiaries serving different missions.

However, the large business establishments caused data inconsistency and other hindrances. These impediments urged our client's management team to find solutions that will help them optimize their operational data.

All businesses leverage Data to gain insights, optimize, forecast, and transform efficiently. In conjunction with business growth, the urge to adopt an innovative solution - one that allows massive amounts of data to be queried for ad-hoc analysis and reports - becomes visible. Moreover, data-driven organizations with a plethora of subsidiaries need this harmonization and transparency of data to ensure smooth internal operation.

Challenges

Our client was using Legacy Oracle ERP with lots of customizations at the sub-company level. This obsolescence slowed down their business performance and made enhancing the overall management system harder.



Delays in corporate governance due as the management team spent too much time, effort, and money on aggregating data and delivering timely consolidated reports.



Reports failed to provide a 360-degree view of the Group, consolidate and integrate all subsidiary data.



Data was not standardized and harmonized enough to be appropriately shared across the business subsidiaries.

For an enterprise on the way to becoming data-driven, the client should not take these issues lightly. Therefore, the client trusted FPT Software to implement **Data Lake** transformation based on MS Azure Synapse Analytics with the expectation of having an accurate, timely, and highly analytical data management system for all subsidiaries.

The client realized they needed a companion helping transform complex data among subsidiaries into a source of truth for timely consolidated reports and transparency. FPT Software was trusted to accompany them in this transformation.

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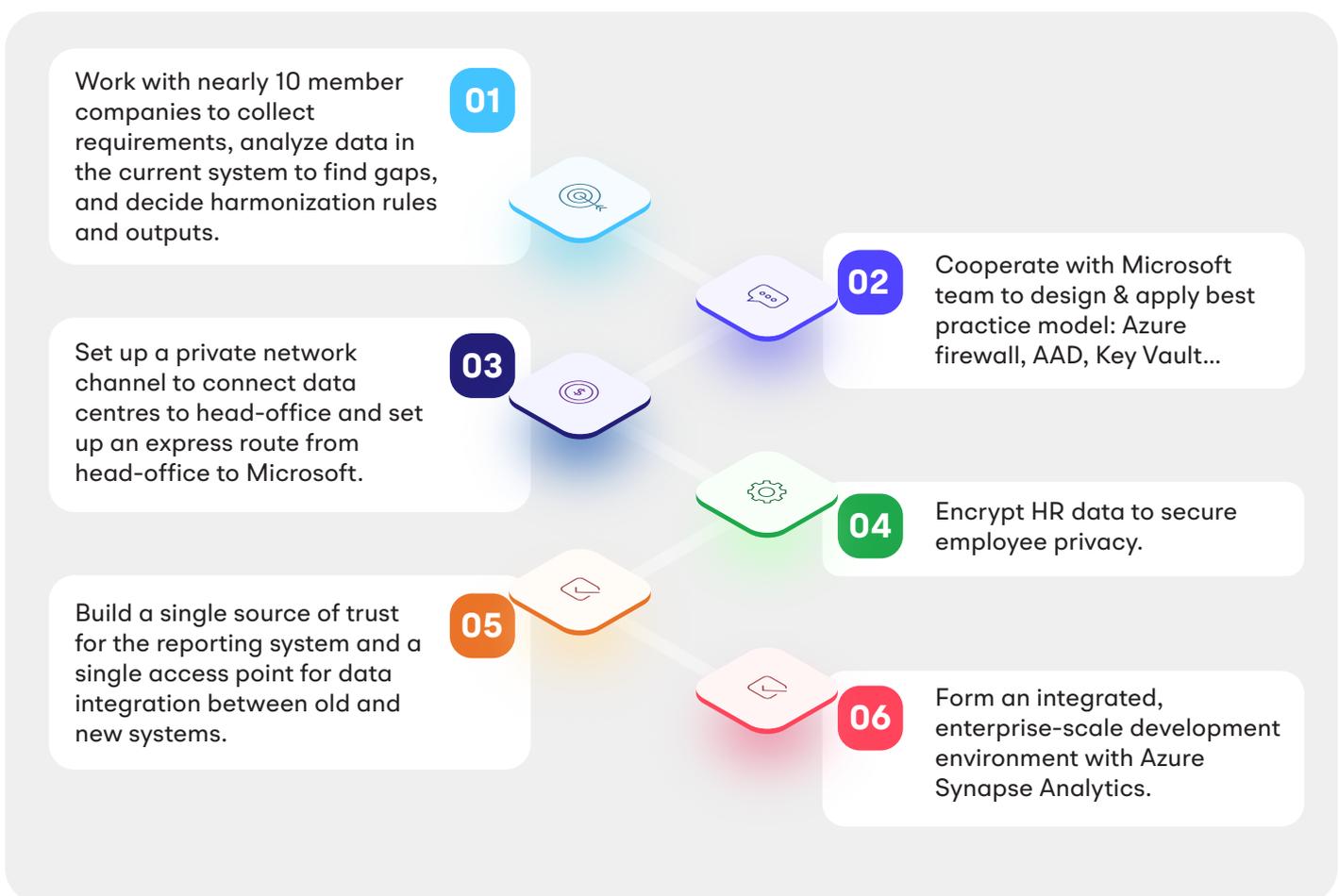
Solution

The main goal of a **Data Lake** is to connect multi lines-of-business (LOBs) information from different subsidiaries accessible to end-users so that these personas can leverage insights cost-effectively to improve business performance.

Coping with the problems, FPT has migrated data in the old operating system with multiple ERPs to a new one.

Our team collected and ingested data of Finance (including PnL, AR, AP, Planning and estimation), CRM, HR, Marketing from legacy systems at Azure Data Factory, harmonized and cleansed data through Azure Data Lake Storage & Azure Databricks, and finally provided data at a new system with Azure Synapse Analytics.

The data transformation process can be shortened into a **6-steps approach**



To ensure data security, the FPT Software team used the AES encryption model to encrypt data in transit and storage.

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Value

FPT Software's technical experts chose to build Data Lake based on Microsoft's Big Data Analytics services thanks to their mature products that support the latest technologies, efficient integration environment, and reductions of deployment time with the lowest cost. With the utilities brought by MS partner and FPT skilled data engineers, we have successfully solved three primary problems for our client and offered them great values in corporate governance.

Time & Cost Efficiency

01

The employees at different company levels and subsidiaries can quickly collect, standardize and share data across the corporation to ensure frictionless near real-time operation.

Near Real-time Management Reporting

02

Employees and managers can access reports to their needs and gain holistic, 360-degree insights of their respective subsidiary, from finance, CRM, HR to Marketing, for better decision-making. This data platform is used to create a throughout management reporting system from the corporate level to the subsidiaries

Consistency & Transparency

03

As data is no longer a nuisance, the whole management process runs smoother. Data can be quickly extracted and used promptly where necessary.

Disclaimer

FPT Software is a global technology and IT services provider headquartered in Vietnam, with more than USD 600 million in revenue and 22,000 employees in 26 countries. As a pioneer in digital transformation, the company delivers world-class services in the Smart factory, Digital platforms, RPA, AI, IoT, Cloud, AR/VR, BPO, and more. It has served 1000+ customers worldwide, a hundred of which are Fortune Global 500 companies in the industries of Automotive, Banking and Finance, Logistics & Transportation, Utilities, and more.

For more information, please visit <https://www.fpt-software.com>.

