

HULFT

CASE STUDY

HULFT
HULFT-DataMagic

Resona Bank, Ltd.



Using HULFT and HULFT-DataMagic to Achieve the Data Infrastructure Supporting the Resona Group' s Large-scale “New Information System”
Enabling Highly Reliable Data Transmission, a Must for Smooth Banking Work



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Using HULFT and HULFT-DataMagic as the Data Infrastructure Supporting the Resona Group's Large-scale "New Information System" Enabling Highly Reliable Data Transmission, a Must for Smooth Banking Work

The Resona Group aims to be the top retail provider of financial services by offering valuable services. With Resona Bank at the center, the entire Group strives to maximize customer value. In order to strengthen its business infrastructure, the Resona Group has renovated its mainframe-based information system. The "new information system" using an open infrastructure went into operation in November 2014. The data integration is supported by a "data hub infrastructure" achieved using HULFT and HULFT-DataMagic. Because it handles code conversion with accounting systems and large-capacity data transmission, the data hub infrastructure plays an important role in mission-critical banking operation.



Resona Holdings, Inc.
Chief Manager, Information
Technology Planning Division
Resona Bank, Ltd.
Chief Manager, Systems Division

Mr. Osamu Kameoka



Resona Holdings, Inc.
Chief Manager, Information
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Chief Manager, Systems Division

Mr. Ryuichi Sasaki

User Profile



Resona Bank, Ltd.

Head Office
2-1, Bingomachi 2-chome, Chuo-ku, Osaka

Founded
May 1918

Capital
¥279.9 billion (as of March 31, 2015)

No. of Employees
9,265 (As of March 2015; unconsolidated)

Business Activities

The Resona Group is a financial group comprising three banks (Resona Bank, Saitama Resona Bank, and The Kinki Osaka Bank) controlled by Resona Holdings, Inc., a financial holding company. The Group also conducts full-plan trust and real estate business, and has built its business model as a "new financial services business" that quickly provides customers with the optimal products and services, on the foundation of the Group's basic stance that "Customers' joy and happiness are Resona's"

On June 25, 2015, the Resona Group (Resona Holdings, Resona Bank, Saitama Resona Bank, and The Kinki Osaka Bank) completed repayment of the public funds that had supported its recovery and growth, and took a new step toward sustained growth. Prior to this, in February 2015, the Group announced its "Medium-term Management Plan" in preparation for its next 10 years. Aiming for a change of mindset to aggressive management, the Group is striving for customer-centered enhancement of services, with the goal of becoming the "No. 1 retail bank."

System-to-system data transmission became a challenge with the switch to an open-infrastructure information system

Strengthening the IT infrastructure is critical to the promotion of this growth strategy. However, the information system that supports the Group's business was built on a mainframe. Approximately 25 years have passed since it began operation, and the Group's management structure and business environment have changed significantly during that time. With the diversification of financial instruments, etc., banking business is becoming more complex at a greater speed.

The movement of peripheral business systems to the highly flexible open infrastructure was in progress to accommodate changes in the business environment, but the information system

(the core component) was still on a mainframe. "Not only were there old IT assets, but inefficiencies in the system, such as the lack of standardization of methods of providing information for data utilization, were a significant problem," reflects Resona Bank's Mr. Osamu Kameoka.

To solve these problems, the Group formulated a plan to renovate the information system. With the cooperation of NTT DATA and NTT DATA SOFIA providing support for the building and operation of its IT infrastructure, the Group worked toward achieving a streamlined "new information system" using an open infrastructure. "This allows the utilization of information to move forward and low-cost operation to accelerate," explains Mr. Kameoka.

However, there are hurdles to get over in creating the new information system. One of these is how to create the "data hub infrastructure" that handles data transmission between the new information system and other systems.

"The information system retrieves large-capacity data related to customer transactions from the accounting system, provides the information to, and links with, a variety of systems, and handles financial closing information, etc., as well, making it a mission-critical system. Data transmission requires a high level of reliability and stability. The transition of peripheral business systems to open infrastructure was in progress, but the accounting system was mainframe-based. It has to be able to accommodate

diverse character codes and data formats,” says Resona Bank’s Mr. Ryuichi Sasaki, describing the challenges.

It is also possible to build the data transmission mechanism on an FTP base. However, because it is necessary to convert diverse formats, error processing due to communication problems, etc., must be taken into consideration, thereby making the mechanism cumbersome. There are significant risks to building it in from the start.

Possible to accommodate conversion of diverse character codes and achieve delay-free data transmission

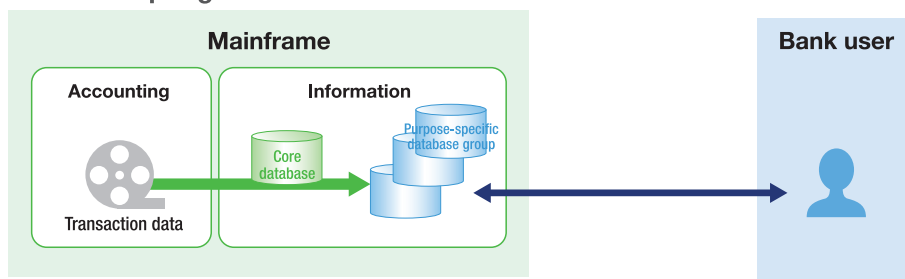
How to create a data transmission mechanism that ensures a high level of reliability and stability and has few risks... The solution to this problem was the SAISON INFORMATION SYSTEMS data processing and conversion tool HULFT-DataMagic and the file transmission middleware HULFT.

HULFT-DataMagic supports diverse formats, and has garnered praise for its ability to automate the entire process, from data extraction to processing and conversion, and even to linking with databases. Their implementation was also spurred on by a rich track record, including adoption by financial institutions.

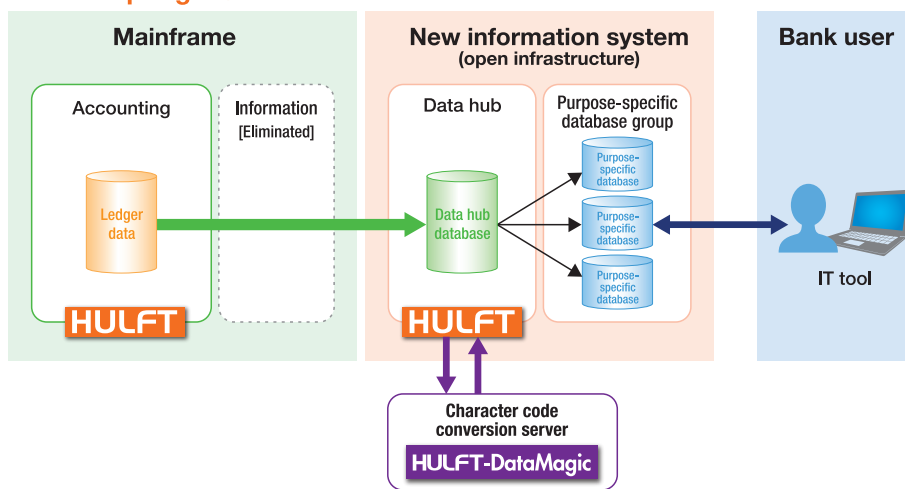
Conversion is also high-speed. “Character code conversion is required with the mainframe-based accounting system and the open-infrastructure new information system. The ability to complete this conversion in 30 minutes or less was a requirement. HULFT-DataMagic fulfills that requirement even when converting a few hundred gigabytes of character code data, so it was fully satisfactory as the infrastructure for the new information system,” observes Mr. Sasaki.

HULFT’s track record and compatibility with HULFT-DataMagic were highly praised. The Resona Group utilizes HULFT to integrate the data of diverse systems. “We had already been using HULFT, so we have a highly favorable view of its reliability. When combined with HULFT, HULFT-DataMagic can seamlessly transmit to other systems data that has undergone character code

Before adopting HULFT



After adopting HULFT



Overview image of the Resona Group’s “new information system”

The old, mainframe-based information system was rebuilt with an open infrastructure to achieve the “new information system.” The “data hub infrastructure” using HULFT and HULFT-DataMagic is positioned as a part of the new information system. It links to the accounting system that operates on the mainframe, and in addition to character code conversion, handles the processing of data transmission with each type of business system.

conversion. In the event of an error, the transmission recovery function can be used to reduce the time and effort needed for operation.” (Mr. Kameoka)

Accounting system code conversion in only 30 minutes Zero problems after the start of full-scale operation

He also pointed out that the support provided by SAISON INFORMATION SYSTEMS during the project was a great help. Much of the data in the existing system included NULL code in the character attributes, so it was necessary to convert the NULL code as a character attribute for integration with the new information system. This takes an enormous amount of time and effort when done manually. “In response, SAISON INFORMATION

SYSTEMS provided a customized NULL code conversion function with HULFT-DataMagic. That made it possible to integrate data without modifying the program. I’m truly grateful for the flexible handling,” says NTT DATA’s Mr. Kiyoshi Miura.

It also had a significant impact on the progress of the project overall. “It was no longer necessary to allocate man-hours to revision work, so I was able to focus on the development of a new business application,” says NTT DATA SOFIA’s Ms. Tomoko Sugimoto. Coworker Mr. Yoshirou Shihara continues. “They presented a number of pieces of expertise that had a track record backed up by experience, so development went smoothly.”

The new information system started full-scale operation on November 17, 2014.

The data hub infrastructure handles data transmission through batch processing between the accounting system and the new information system. Specifically, accounting system data is sent to the data hub infrastructure via HULFT, character code conversion, etc., is conducted, then the data is stored in the purpose-specific database group. Each type of business system that supports the work of bank users is connected to purpose-specific databases through HULFT. This makes it possible to use the necessary data in the necessary format.

Approximately 21,000 HULFT IDs are used currently, and the number of HULFT-DataMagic definitions is approximately 37,000, which is enormous. Utilization of HULFT and HULFT-DataMagic has made it possible to transmit 200 GB of data in 30 minutes or less. The total amount of batch processing data sometimes even reaches 800 GB in a single day. "Because such large amounts of data can be completely transmitted in a short time, there have been no problems since full-scale operation was started. There has been no impact on work due to delays in batch processing," says Mr. Kameoka, expressing his satisfaction.

In the future, the benefits of HULFT-DataMagic's ability to extract and process data will be employed for the effective utilization of the data hub infrastructure. One of those benefits is support for Basel III and other financial regulations. The idea is to utilize the



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data hub infrastructure in integrated processing of diverse systems as part of the creation of a mechanism for compliance with regulations. A mechanism to automate data extraction and processing has been created and verification work is already underway. The Resona Group is poised to forge ahead with its growth strategy of becoming

the top retail financial services group by utilizing the strengths of the data hub infrastructure that supports the new information system, strengthening the information utilization infrastructure, and promoting low-cost operation further.

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