Hewlett Packard Enterprise

(intel)

セブン銀行

Objective
Increase performance and scalability for growing banking transactions while ensuring continuous availability of core ATM services

Approach
Engaged HPE partner NRI to deploy HPE Integrity NonStop BladeSystem NB54000c servers running mission-critical relay services for core ATM business

IT Matters
- Maximized performance and scalability for critical transaction switching

- Provided nonstop availability to relay ATM transactions 24/7/365 without data loss

- Increased agility to handle sudden spikes in workload while maintaining performance and availability

Business Matters
- Ensured anytime, anywhere access to ATM and online banking services to boost customer satisfaction and strengthen competitive position

- Met the bank's extensive business growth projections for the next ten years

- Achieved compliance with global security standards to support increasing number of foreign card transactions

Seven Bank banks on HPE Integrity NonStop to handle critical transaction switching

Ensures continuous operations with HPE Integrity NonStop BladeSystem NB54000c

To meet customer expectations of anytime, anywhere availability, Seven Bank deployed HPE Integrity NonStop BladeSystem NB54000c servers to ensure continuous availability of switching services critical for completing ATM transactions with no data loss.

Seven Bank, Ltd. was founded in 2001 as a unique Japanese financial institution specializing in ATM services, driven by demand from Seven-Eleven customers looking for in-store ATMs. The bank has since grown to offer a range of banking services, including online bank deposit, loan, payment, and wire transfer services.

Today, Seven Bank handles as many as 5,700,000 transactions per day through its 22,000 bank-owned ATM machines in Seven-Eleven convenience stores, Itoyokado, shopping malls, metro stations, and airports all across Japan. With a goal to provide anytime, anywhere access to its services, Seven Bank required an IT infrastructure designed for continuous business.

"The relay server that supports our core business must run nonstop while also enabling us to grow as demand increases. Only HPE Integrity NonStop BladeSystem NB54000c servers have both high availability and scalability to support all our ATM services today and into the future."

– Masaaki Matsuhashi, Executive Officer and Director, ATM Solution Department, Seven Bank

At the core of the bank's infrastructure is a mission-critical server that aggregates all requests from ATM machines and relays them to internal accounting systems, as well as systems at partner institutions. This relay server must handle a rapidly growing volume of transactions in real time with no disruption 24/7/365. However, the bank's previous platform lacked sufficient performance and scalability to keep up with the enormous processing demands projected for the next ten years.

Ensures continuous availability of critical services

After considering an upgrade to its conventional server, Seven Bank worked with its trusted IT partner, Nomura Research Institute (NRI), to explore alternative solutions. After an extensive technical evaluation, Seven Bank turned to Hewlett Packard Enterprise (HPE) and replaced its conventional server with HPE Integrity NonStop BladeSystem

NB54000c servers powered by the Intel® Itanium® Processor 9300 Series. The HPE platform runs Intelligent Wave Inc.'s NET+1 application, which authenticates ATM card transactions and online connections to banking services. In addition, Seven Bank relies on an HPE Integrity NonStop NS2200 Server for development.

Mr. Kazuki Nishizaki, Seven Bank's Manager, comments, "While migrating NET+1 to the NonStop operating system, we consolidated many functions that had been extended over the last 14 years since the company started. At the same time, we enhanced development efficiency by simplifying the structure of the entire application. This optimizes the environment to respond quickly and be flexible for future enhancements."

NRI led the project, from design and build through ongoing infrastructure operations and management. There are four HPE Integrity NonStop BladeSystem NB54000c servers, two systems are deployed in

Customer at a glance

Application
- Relay 5.7 million ATM transactions per day to bank accounting systems, enabling real-time processing with continuous availability of critical ATM and online banking services

Hardware
- HPE Integrity NonStop BladeSystem NB54000c
- HPE Integrity NonStop NS2200 Server

Software
- Intelligent Wave Inc. NET+1

East Japan and the other two systems are deployed in West Japan. These four systems are production. With the two sites synchronized for active-active operations, this configuration ensures continuous availability of relay services should one of the data centers go down. It also enhances agility to handle unexpected spikes in workload.

With up to 16 CPUs and 4 cores per CPU, the HPE Integrity NonStop BladeSystem NB54000c servers deliver maximum performance for NET+1, and will allow Seven Bank to incrementally scale performance as it continues to grow. The unique HPE Integrity NonStop architecture also delivers the rapid response times needed to process foreign-issued credit and cash cards used by international travelers in Japan.

HPE Integrity NonStop BladeSystem NB54000c servers also help Seven Bank ensure compliance with international security regulations, such as Payment Card Industry (PCI) Data Security Standard, with support for XYGATE products. This ensures that any content and access credentials transmitted across the bank's network are kept private.

Mr. Masaaki Matsuhashi, executive officer and director of the ATM solution department at Seven Bank, concludes, "ATM services are the core of Seven Bank`s business. The relay server that supports our core business must run nonstop while also enabling us to grow as demand increases. Moreover, with the rapid growth of overseas cards being issued, strict adherence to global security standards is essential. HPE Integrity NonStop BladeSystem NB54000c servers have both high availability and scalability to support all our ATM services today and into the future."

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