



Nissha: Using High-Speed Data Analysis from SAP NetWeaver® BW Powered by SAP HANA® to Decide and Act Faster

A pioneer in print technology, Nissha Printing Company Ltd. has been improving products for a wide range of manufacturers since 1929. After implementing the SAP® ERP application at domestic and global sites, it introduced the SAP NetWeaver® Business Warehouse application powered by the SAP HANA® platform. The company can now **analyze data and turn decisions into actions faster than ever.**

Executive overview

Company

Nissha Printing Company Ltd.

Headquarters

Kyoto, Japan

Industry

High tech

Products and Services

Industrial materials, devices, and information communication services

Capital

¥5.68 billion
(US\$60.15 million) (Oct. 2012)

Employees

3,396 (March 2012)

Web Site

www.nissha.co.jp/english

Partner

SAP® Services
(SAP Ramp-Up program)



BUSINESS TRANSFORMATION

The company's top objectives

- Manage and analyze data using an integrated information infrastructure
- Improve data accuracy and reporting for faster, more informed decision making
- Accelerate speed of action with high-speed data analysis

The resolution

- Implemented the SAP NetWeaver® Business Warehouse application powered by the SAP HANA® platform
- Leveraged the SAP Ramp-Up program for a fast implementation in just three months
- Evaluated system settings to maximize on key implementation benefits

The key benefits

- High-speed report processing for accelerated analyses, decision making, and action
- Greater efficiency and less operational burden with shorter overnight batch processing
- Ability to perform reports and business analyses using “what-if” scenarios

[Read more](#) ▶

“For the future of Nissha, it is essential to analyze data using cutting-edge technology. Our IT department aims to be the catalyst for transforming our company by promoting more effective information utilization.”

Yoshitami Aoyama; Vice President, Chief Information Officer, Manager of Corporate Administration and Planning, and General Manager of Corporate Supply Chain Management; Nissha Printing Company Ltd.

TOP BENEFITS ACHIEVED

71.4%

Faster overnight batch processing (from 7 hours to 2 hours)

Up to

99.4%

Faster generation of key reports (for example, 343.6 to 1.8 seconds and 1020 to 10.2 seconds)

3 months

Implementation time, including changes to the existing environment such as query maintenance and data volume adjustment

[See more metrics](#) ▶

Executive overview

Company objectives

Resolution

Business transformation

Future plans

Choosing the SAP HANA® platform to accelerate information analysis

Since it was established in 1929, the motto at Nissha has been this: "Realization of premium photo printing that competitors cannot achieve." The company is still committed to this ideal more than 80 years later, providing unique technology solutions that meet market needs, not only for photo printing but also for industrial materials and devices. With its backbone of advanced technology, the Nissha brand has earned high praise in the global market.

Nissha implemented the SAP® ERP application as its globally integrated information platform, completing a "big bang" implementation in all domestic Japanese sites in 2010, and subsequently rolled out SAP ERP to its nine overseas subsidiaries.

From the beginning, Nissha has been focused on accelerating decision making and improving accuracy by analyzing data accumulated in SAP ERP. "The original target of the SAP ERP implementation was to improve operational efficiency by determining how to analyze the accumulated data and best use it to make business decisions. Now, a little over

two years later, we have finally gotten to the stage of being able to leverage information," says Yoshitami Aoyama, who is the vice president, chief information officer, manager of corporate administration and planning, and general manager of corporate supply chain management at Nissha.

Nissha integrated the SAP NetWeaver® Business Warehouse (SAP NetWeaver BW) application with SAP ERP to improve its data analysis infrastructure, but it faced some challenges with processing speed and the holding of data cubes for analysis. In its search for a solution, the company learned about the SAP HANA® platform, the latest in-memory computing technology from SAP. Given the need to accelerate data processing, adoption of the new platform was the obvious choice.



Executive overview

Company objectives

Resolution

Business transformation

Future plans

Leveraging the SAP Ramp-Up program for the SAP HANA implementation

Because SAP HANA was a relatively new technology at the time, Nissha enrolled in the SAP Ramp-Up program to facilitate the implementation. By standardizing the process performed when a new solution is released, SAP Ramp-Up accelerates the speed at which early users or evaluators of new technology realize business advantages. This is done by enforcing process management and allowing direct communication between the actual user of the solution in the field and the SAP product development team and management.

Taking advantage of the implementation, the company reviewed the usage of the SAP NetWeaver BW reports created at the time when SAP ERP was

deployed and streamlined the analysis environment. It measured the performance of all queries and changed the settings to enable maximum performance for each query. As a result, the organization of queries and cubes progressed. Queries were reduced to one-third the original volume, cubes to one-half the original volume, and data flow to one-half the original volume, and overall data volume was reduced by 75%.

The SAP HANA implementation was completed in just three months, including one month to organize the existing environment. In September 2012, SAP NetWeaver BW powered by SAP HANA was up and running.



“We got total support from the SAP Services organization, mainly from the SAP Ramp-Up program team. We believe that this is one of the factors behind the realization of the SAP HANA implementation in such a short time.”

Takahiro Yamamoto, Chief of the Application Management Group, IT Department, Nissha Printing Company Ltd.

Executive overview

Company objectives

Resolution

Business transformation

Future plans

Accelerating overnight batch processing and reporting

One of the greatest benefits of SAP HANA is faster overnight batch processing, which would sometimes still be running into the morning. Takahiro Yamamoto, chief of the application management group for the IT department at Nissha, says, "I was surprised when the batch processing time was reduced from seven to two hours. I think this has made a huge impact." In addition, fewer nighttime failure responses have reduced the burden on system administrators.

The accelerated reporting process is also remarkable. One report used to take 5.7 minutes. With SAP HANA it now takes just 1.8 seconds – 200 times faster than before

– significantly changing operational efficiency. There are dozens of examples of these time savings, such as a report that took 17.05 minutes now taking 10.2 seconds. "The preparation of monthly aggregation reports used to take a lot of time, but now user stress has decreased because they can be completed quickly," says Yamamoto.

Faster reporting also allows users to perform analyses using various "what-if" scenarios to test hypotheses and provide actual proof points. The accuracy, quality, and speed of the analyses are enhanced, allowing various perspectives and increasing the relevance to real-life business decisions.

KEY BENEFITS

71.4%

Faster overnight batch processing (from 7 hours to 2 hours)

50%

Reduction in cube and data-flow volume

3 months

Implementation time, including changes to the existing environment such as query maintenance and data volume adjustment

33.33%

Reduction in query volume

Up to 99.49%

Faster generation of key reports (for example, 343.6 to 1.8 seconds and 1020 to 10.2 seconds)



Executive overview

Company objectives

Resolution

Business transformation

Future plans

Expanding the use of SAP HANA to supply chain management

The next phase for Nissha will be to expand its use of the SAP HANA platform to accelerate processing and improve reporting across more lines of business.

“We are already able to analyze financial information. The next step is to include data related to supply chain management – sales, production, and procurement – in SAP NetWeaver BW. The goal is to improve data quality as well as to enhance and expand analysis options and capacity,” says Aoyama.

All employees should be able to retrieve information quickly and easily and use it to improve all aspects of the business, not just management decisions and operational analyses.

Aoyama adds, “For the future of Nissha, it is essential to analyze data using cutting-edge technology. Our IT department aims to be the catalyst for transforming our company by promoting more effective information utilization.”



© 2013 SAP AG or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark> for additional trademark information and notices.



The Best-Run Businesses Run SAP™