Bundesdruckerei: Driving Process Integration and Quality with SAP® S/4HANA

Bundesdruckerei GmbH provides secure electronic identity management solutions that are critical to building trust in our digital world. To digitize its own organization to achieve efficiency improvements, it decided to migrate its SAP® software landscape to the SAP HANA® platform and implement the SAP S/4HANA Finance solution. As a result, it streamlined processes and accelerated operations.
Executive overview

BUSINESS TRANSFORMATION

Objectives
• Establish a “single view of the truth” with unified data platform
• Integrate workflows across departments
• Reengineer and automate all major business processes

Resolution
• Worked with SAP Consulting to upgrade the SAP® software landscape and migrate from Oracle to the SAP HANA® platform, including deployment of the SAP S/4HANA Finance solution
• Introduced automated user provisioning using the SAP Identity Management component and SAP governance, risk, and compliance solutions

Benefits
• Significantly accelerated processes, such as financial closing, generation of profitability analysis reports, onboarding of new resources, and user administration in HR
• Enabled earning of discounts through faster processing of vendor invoices
• Improved transparency across supply chain by removing silos between administrative IT and plant IT

Company
Bundesdruckerei GmbH

Headquarters
Berlin

Industry
High tech

Products and Services
Secure identification solutions

Employees
2,500 (Bundesdruckerei Group)

Revenue
€475 million (Bundesdruckerei Group)

Web Site
www.bundesdruckerei.de/en

Partner
SAP® Consulting organization
www.sap.com

“SAP S/4HANA is helping us to drive digitization across the company, allowing us to work in a more streamlined and integrated way.”

Wolfgang Sabelgunst, SAP Project Manager, Bundesdruckerei GmbH

40%
Time saved on generation of financial reports

10x
Faster calculation of salaries

>3x
Faster security authorization reviews
Pioneering advances in electronic identity management

Bundesdruckerei GmbH offers innovative and complete IT security solutions for private companies, governments, and public authorities. The company’s technologies and services – all “made in Germany” – protect sensitive data, communications, and infrastructures. The solutions are rooted in the secure identification of citizens, customers, employees, and systems in both the analogue and digital world. Bundesdruckerei offers its customers a one-stop approach that begins with consultancy, includes design and implementation, and is completed with operation and service. The company captures, manages, and encrypts sensitive data; produces documents and verification devices; develops software for high-security infrastructures; and supplies passport and ID card systems as well as automated border control solutions.

The Bundesdruckerei Group includes the subsidiaries D-TRUST GmbH, genua GmbH, Maurer Electronics GmbH, and iNCO Sp. z o.o. Bundesdruckerei also holds shares in Veridos GmbH, DERMALOG Identification Systems GmbH, and cv cryptovision GmbH.

Until recently, the company’s operations ran on SAP software that had not been updated in a long time. “Our existing software didn’t allow us to integrate key business processes and automate workflows,” says Wolfgang Sabelgunst, SAP project manager at Bundesdruckerei. “We decided to migrate our entire SAP software landscape from Oracle to the SAP HANA platform and deploy SAP S/4HANA to help different areas of the business work more effectively together and enable more efficient operations.”

Up to 1 billion Banknotes printed each year
Executive overview

Establishing a single view of the truth

Company objectives

Resolution

- Technical architecture

Business transformation

Future plans

Bundesdruckerei partnered with the SAP® Consulting organization to roll out its new SAP software landscape to 2,000 users – up from 600 users previously. Over a period of 12 months, the company migrated the SAP ERP and SAP Supplier Relationship Management applications and the SAP ERP Human Capital Management solution to the SAP HANA® platform, and deployed the SAP S/4HANA Finance solution. As a result, average compression rate of the production databases was increased by nearly five times, significantly reducing the amount of storage space required.

The software integrates administrative and plant logistics data, improving transparency. “All production materials can now be tracked from the very start to the end of the manufacturing process,” says Sabelgunst. “This means that products such as passports and banknotes, which are produced in vast quantities, are fully traceable across the supply chain, right down to their component parts.”

Integrated controlling and financial management has enabled Bundesdruckerei to automate processes, while improved visibility into the flow of materials results in significant reductions in closing times. Tasks such as cost analysis for passports are now completed in a fraction of the time they took before, without the need for manual input.

Bundesdruckerei also deployed the SAP Identity Management component and SAP governance, risk, and compliance solutions. “Staff can now complete IT security tasks such as processing authorization and user provisioning requests automatically without the need to fill out paper forms,” says Sabelgunst. “The software checks each access request against a massive set of highly specific risk and compliance rules within seconds.”
SAP HANA landscape at Bundesdruckerei

The Bundesdruckerei’s production landscape is centered around a virtual SAP HANA platform operating 120 CPUs and a 1 TB database. It supports 2,000 users and 14 software instances.

Figure: SAP HANA Platform Architecture for Bundesdruckerei
Increasing efficiency through digitization and integration

By leveraging centrally stored data and harnessing the in-memory computing power of the SAP HANA platform, the migration to SAP HANA and deployment of SAP S/4HANA has helped Bundesdruckerei streamline processes and speed up operations.

On average, 40% less time is needed to deliver financial reports, speeding up closing processes significantly. The company also made dramatic improvements in profitability analysis with reports now delivered at unprecedented speed.

Automation within vendor invoice management has eliminated the need for manual processing, saving time and reducing the risk of errors. Bundesdruckerei can now pay vendors faster, enabling the company to take advantage of early-payment discounts.

The production department benefits from 100% transparency across the supply chain. This enables Bundesdruckerei to trace individual components and materials used in everything it manufactures, including up to 1 billion banknotes each year.

Within the human capital management department, process automation has freed up staff to spend more face-to-face time supporting company employees. They can also calculate salaries 10 times faster than before, in 41 minutes rather than 420 minutes.

IT security processes have also been streamlined. It now only takes three minutes to assign a user role, almost 20 times faster than the paper-based workflow used previously. In addition, security authorization reviews can now be done more than three times faster than before.

20x
Faster assignment of user roles

100%
Traceability of manufacturing components
Readying the business for the digital world

Supported by SAP S/4HANA, Bundesdruckerei continues to automate and integrate its business processes. “Thanks to the impressive in-memory computing power of the SAP HANA platform, we can process large amounts of data faster than ever before,” says Sabelgunst. “This is affecting every part of our operations and transforming the way we work.”

In addition to supporting the reengineering of all major business processes, SAP S/4HANA provides a powerful solution for enabling future business models in the identity management space. The company has a number of projects planned for the coming year, in which it will extend existing SAP functionality. Among these is the deployment of the SAP S/4HANA Supply Chain solution in the production department.

“With SAP S/4HANA in place, our staff has the information they need at their fingertips,” says Sabelgunst. “We can also eliminate manual work, save time, and work more efficiently. In this way, SAP is enabling us to perform business better in a digital world.”