



Giesecke+Devrient

Shaping the future of cash handling

Optimize cash operations today
to future-proof tomorrow





Expanding possibilities for commercial banks

Working together with commercial banks, we aim to optimize efficiency and security and future-proof your business with scalable, integrated, and digitalized cash handling solutions

With Advanced Currency Management, we combine our long-standing expertise in cash production and cash management to seamlessly connect people, assets, processes, and resources along the entire cash cycle. By taking a broader and more holistic view, we gather powerful insights into both current and future requirements, and apply them to provide our clients and partners with measurable results.

End-to-end scalability
Our customized solutions utilize this unique G+D positioning to provide end-to-end solutions for automation that meet your needs – today and tomorrow. The holistic offering includes a wide range of key services and solutions, tailored to the specific needs of our clients. Discover how our portfolio can expand the possibilities in your bank branch and cash center – enhancing everything from efficiency, flexibility, and adaptability, to more sustainability and security.

150
Our products and solutions for bank branches and cash centers are available in over 150 countries worldwide

What drives commercial banks?

The same goals and aspirations that drive commercial banks, drive us. As experts in the cash cycle, we bring reliability, security, and robust knowledge to commercial bank branches and cash centers

Commercial banks operate in a fast-paced, competitive environment. As customer self-service ramps up at branches, banks need to excel in several key areas, such as automation and software. To support you as technology advances, G+D offers a range of scalable, innovative bank branch and cash center solutions and services to ensure all commercial banks' needs are met.

Additionally, we support commercial banks who have outsourced their cash

handling to cash-in-transit (CIT) companies in managing and monitoring their partners.

A portfolio of efficient solutions
Our suite of solutions enhances commercial bank processes, improves security, and leaves less room for error and more time to focus on vital banking operations. We offer customizable, end-to-end solutions that optimize cash levels and improve visibility across vaults, cash centers, branches, ATMs, and other cash points. We connect

high-performance hardware and software to automate processes, reduce manual labor in the cash center, free up branch tellers to focus on customer satisfaction, and enable more sustainable operations while improving process stability and security.

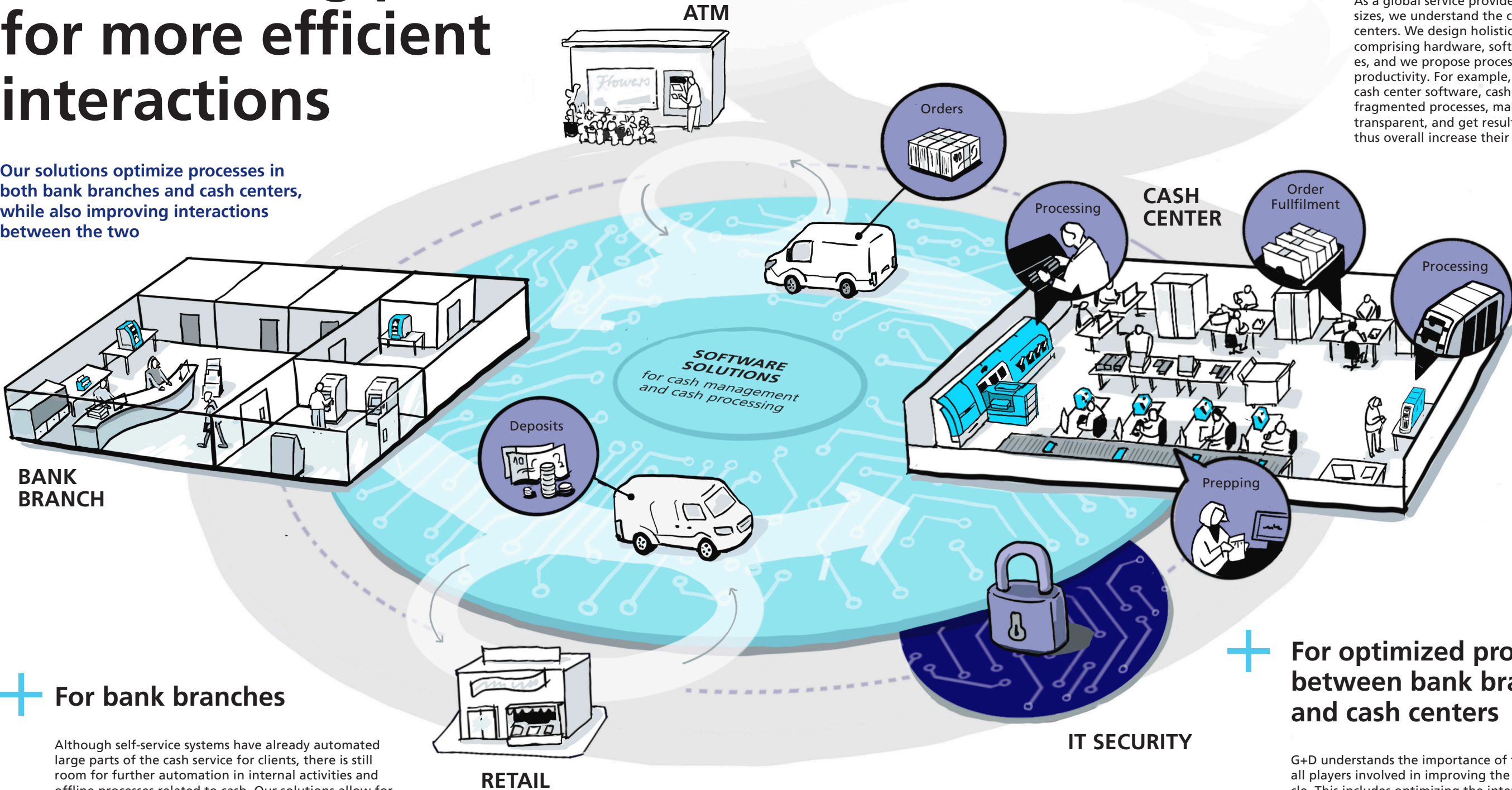
What you can expect from our holistic, customizable solutions:

- Optimization of branch and cash center interaction
- Advanced hardware and software for greater cash visibility and management
- Perfectly fitting portfolio of banknote and coin-processing systems designed for today's and future requirements
- Holistic improvements to front- and back-office processes
- Digitalization of all cash center processes, such as counting and reconciliation, stock management, cash handling, managing your CITs if you have outsourced cash centers, and more
- Exceptional service and maintenance
- Integration of ATM processes
- Professional consulting
- Automated processes to skip and eliminate redundant steps in the cash processing value chain that translate into cost and time savings



Streamlining processes for more efficient interactions

Our solutions optimize processes in both bank branches and cash centers, while also improving interactions between the two



+ For bank branches

Although self-service systems have already automated large parts of the cash service for clients, there is still room for further automation in internal activities and offline processes related to cash. Our solutions allow for greater efficiency and security, while cutting costs and allowing your staff to take care of customers.

+ For cash centers

As a global service provider for cash centers of all sizes, we understand the complex processes in cash centers. We design holistic, interoperable solutions comprising hardware, software, and service packages, and we propose processes to enable maximum productivity. For example, with the use of G+D's cash center software, cash centers can connect fragmented processes, make operations more transparent, and get results in optimized time and thus overall increase their productivity.

+ For optimized processes between bank branches and cash centers

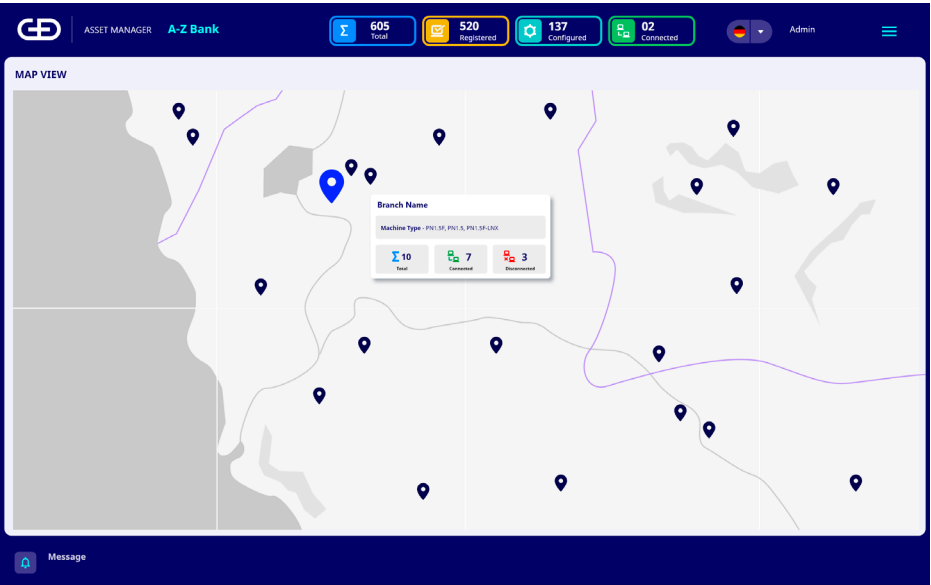
G+D understands the importance of the interaction between all players involved in improving the efficiency of the cash cycle. This includes optimizing the interface between the cash center and the bank branch.

Bank branches and cash centers must align on processes in order to avoid delays and maximize productivity. We offer appropriate solutions for every challenge that may arise. Our solutions focus on enhanced efficiency, security, and sustainability.

Our holistic, scalable solutions

Solutions for cash handling operations are not one-size-fits-all. Every bank is different, as are the needs for each branch type. Our scalable cash cycle solutions offer greater efficiency and security for bank branches of all sizes

Compass Asset Manager provides a consolidated overview of connected banknote processing systems in all locations



Give your bank branch personnel more time for customers

Make use of future growth opportunities today: commercial bank branches require flexibility to meet the changing needs of customer and operational demands. G+D provides a holistic suite of solutions for optimized cash handling and management.



The apparent contradiction between cutting operational costs while serving customers better, is an opportunity for bank branches keen to increase competitiveness and lead the way with customer excellence.

With an end-to-end solution that optimizes existing resources, enhances efficiency, and reduces cost of cash, bank branches can embrace a changing, digital world. The broad cash handling portfolio covers banknote and coin solutions and ranges from simple counting systems to sorting systems meeting different volumes and sorting requirements.

Banknote systems can be updated remotely by the Compass Asset Manager, making them fast and easy to maintain and cost-effective to operate.

G+D's holistic, modular solutions allow commercial banks to reduce costs by optimizing cash levels across all cash points. Use our solutions to leverage real-time data for more accurate cash forecasting, automate processes to free up valuable bank branch personnel for customer interactions, and use machine-learning to predict cash demands, optimize resources, and take control of assets.

Improve cash center performance

Speed up cash processing, optimize cash logistics, and increase security: G+D solutions for cash processing, intelligent automation, and logistics reduce manual labor, while significantly improving reliability and cash center efficiency



In an environment where margins face continuous pressure and cost reductions are essential to long-term profitability, automation is key. Automation makes cash processing without manual intervention a reality by reducing cost, increasing efficiency, and supporting sustainability. In addition, automation enables efficient, transparent, and secure processing of transactions.

In large cash centers, systems such as the BPS M3 or BPS M5 with NotaTracc and NotaPack perfectly complement each other, when combined, and lead to streamlined processes and greater efficiency gains.

In the future, BPS M systems will also be able to stack loose banknotes automatically into a tray after processing. This brings many advantages such as filling ATM cassettes in a more efficient manner while simultaneously reducing packaging waste.

These systems enable ergonomic, professional handling of cash by seamlessly automating the secure feeding, processing, and packaging of banded and bundled banknotes.

Furthermore, as NotaTrays in line with logistical norms are used, overall logistical benefits in handling are created. This results from the fact that the very same trays can be utilized to move and even

store banknotes within the premises. Moreover, these trays also provide a lever to transport banknotes between different cash cycle participants, providing maximum efficiencies and making the entire cash cycle greener.

By using automated banknote banding in our compact processing systems BPS C5 or BPS C6, significantly higher throughput and enhanced security can be achieved in small and medium-size cash centers.

Automation eliminates the need for many manual processes as well as reducing the risk of error. Each processing system provides reports that send counting data automatically to the core banking system, saving time and effort. Processing systems can also record and send video surveillance reports, which save on resources and efforts, and protect against human error.

Consulting and implementation for solutions that are the perfect fit
Our experts analyze the individual needs, existing processes, special requirements, system environment and more. Based on this analysis, we will recommend solution alternatives, consisting of hardware, software, optimized processes, and a tailored service for your operation. Furthermore, we can support the implementation to ensure a smooth introduction into your production processes.

Intelligent automation improves efficiency and security and reduces the risk of error while enabling more sustainable processing



Use sophisticated software for smarter management

Harness the benefits of a data-driven future today. Advanced solutions for digital cash management use data intelligently, while increasing visibility and reach for all cash players. Based on best practices, G+D continuously improves and develops software solutions that help you unlock the full potential of optimized cash processes



G+D has developed a robust software suite with end-to-end, modular solutions. These solutions allow commercial banks to reduce costs by optimizing cash levels across vaults, cash centers, branches, ATMs, and other cash points.

Banks can manage software rollouts remotely and leverage real-time data for improved visibility of outsourced services and accurate cash forecasting. The monitoring system takes preventive measures to diagnose and resolve problems before they become critical. It optimizes the interface between branches and cash centers, and identifies how the two operate together.

Our advanced, comprehensive software solutions enhance efficiency and security in cash centers, while also reducing efforts and failures by avoiding paper and limiting reliance on manual labor. State-of-the-art Compass software provides an easy and cost-effective way to manage resources across all operations and locations and take control of assets.

Some of these solutions, such as our Compass Cash Center suite, are robust software solutions that optimize transparency and help provide a 360-degree overview of operations. G+D's Compass Cash Center suite is used for inventory management and reconciliation, helping you keep track of the deposit life cycle.

Compass Asset Manager provides one central, comprehensive overview of all connected BPS systems, regardless of geography.

Other solutions are for more specific areas: Retail Forecasting helps commercial banks and CITs to provide a better service to their retail clients, while ATM+Branch Forecasting helps them to optimize cash flows and maintain high ATM service levels, for example.

Whatever your demand, G+D has a modular, flexible solution that can help optimize processes.



Maximize efficiency with Smart Service Solutions

Focus on your key value areas and make use of G+D's Smart Service Solutions to ensure optimal performance, security, and efficiency: with more than 1,400 service experts and G+D Remote Solutions, help is there when you need it. G+D is your premium partner for system maintenance and optimization



G+D offers comprehensive service concepts for high-performance solutions. We understand the intense competition and high expectations commercial banks face these days, and we offer premium support throughout every phase of the cash cycle. Long-term customer satisfaction and a long life for your cash management systems and solutions are G+D's top priorities.

With a passion for services, G+D supports customers in more than 130 countries in achieving maximum productivity and uninterrupted performance. With more than 1,400 service experts around the world, support is never far away.

Efficient, worldwide support, whenever you need it
Thanks to G+D Remote Solutions, many machine stops can be resolved swiftly and effectively. By diagnosing and analyzing system malfunctions over the phone, via Visual Support or via Remote Support, you can take advantage of G+D's expert advice and quickly resolve issues before they affect operations. This keeps downtime periods to a minimum and maximizes your productivity.

G+D Remote Support is based on a highly secure connection between the installed G+D systems and the G+D Technical Support Team. This connection makes it possible to link technical expertise from G+D directly to the banknote processing system

(BPS) of the customer. Receive immediate support, anytime and anywhere in the world – in a secure way.

With G+D Visual Support, our experts can connect to the on-site operator directly. In this way, we can provide rapid troubleshooting assistance visually in real time and provide service guidance remotely with high-level experts.

Minimizing downtime, maximizing productivity
G+D continuously works on optimizing our service model, which utilizes data and artificial intelligence to offer you smarter maintenance in the near future. Stay tuned!

Advantages of choosing G+D services:

- Maximize the uptime of the your G+D systems
- Maximize availability by ensuring problems are resolved quickly
- Highly qualified service personnel, enabled by the manufacturer
- Secure connectivity based on the trusted G+D IT environment



End-to-end software solutions for maximum productivity

Partner with G+D

170 years of industry experience and a comprehensive, scalable portfolio provide you with end-to-end solutions for all of your cash needs

The same goals and aspirations that drive commercial banks, drive us. Our end-to-end, holistic solutions for commercial banks promise efficiency, security, and robust, sustainable, and cost-effective operational solutions. Get to know our philosophy on partnership and collaboration and see for yourself.

G+D is a global security technology provider, creating innovative solutions with passion and precision. Our solutions offer reliable protection in four major playing fields: enabling secure payment transactions, providing trusted connectivity, safeguarding identities, and protecting digital infrastructures. With G+D at your side, you will have a trusted partner who is ready to tackle the challenge of reducing costs while cultivating the conditions for further growth.

As partners to global institutions in the currency cycle – be it central banks, commercial banks, CITs or casinos, – we have a unique, intimate understanding of the needs of commercial banks and cash centers. We will walk with you every step of the way, offering scalable, customized solutions and first-class service.



+ Are you ready for a new level of efficiency and security? Contact us today! We would be happy to advise you.



Contact one of our experts and find out how, together, we can create an efficient and robust cash cycle: info@gi-de.com



Giesecke+Devrient
Creating Confidence



Giesecke+Devrient
Creating Confidence

Giesecke+Devrient GmbH
Prinzregentenstrasse 161
P.O. Box 80 07 29
81607 Munich, Germany
Phone: +49 (0) 89 41190
Web: www.gi-de.com

© Giesecke+Devrient GmbH, 2022
All technical data subject to change



Find more information
on our website:
www.gi-de.com/payment/cash