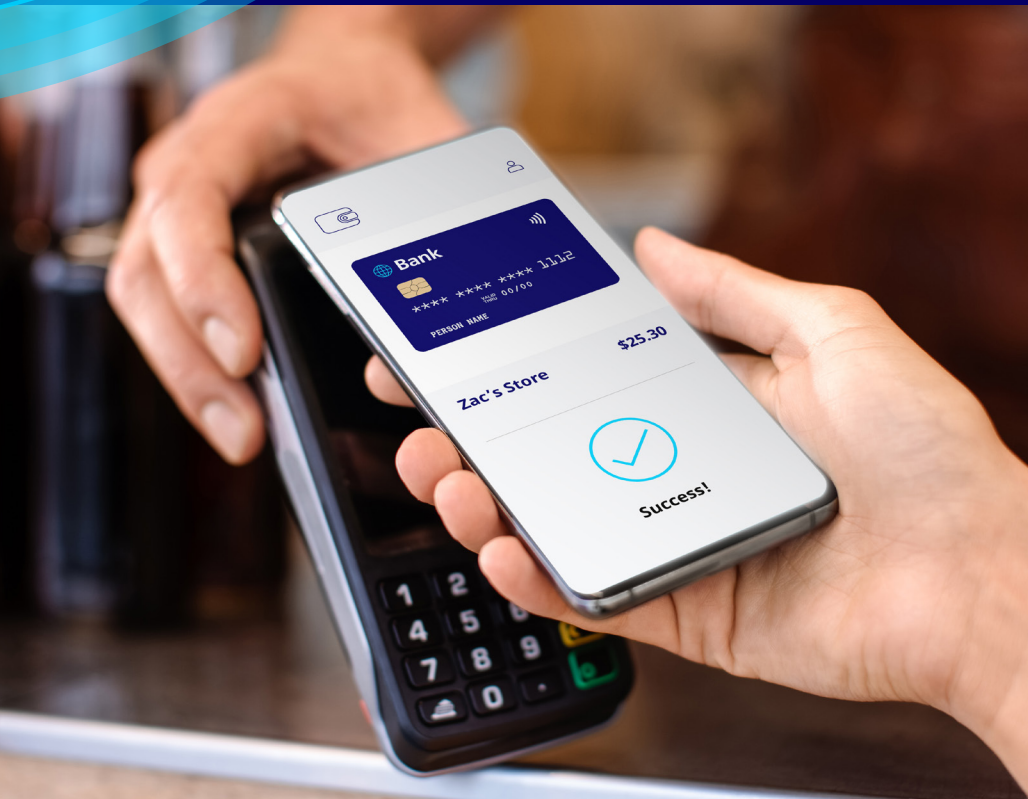




Giesecke+Devrient

Convego® CloudPay: elevating digital wallet experiences with NFC payments



Ensure you remain at the heart of your customers' increasingly mobile-first payment and banking journeys.

Today's customers demand personalized services tailored to their lifestyles. This shift is evident in mobile wallets, which are projected to dominate global transactions by 2027, with a projected \$25 trillion global transactions, nearly half of all e-commerce and POS sales. Banks must adapt to these changes to remain the center of consumers' digital lives and meet consumer demand. However, creating a solution that balances security and convenience with a smooth integration into existing infrastructure is a resource-intensive task.

New horizons for secure contactless payments

Following European Commission approval, Apple has expanded NFC access for third-party wallet apps on iPhones. Users in the European Economic Area (EAA) with iOS 17.4 or later can now execute NFC transactions directly through compatible iOS apps, powered by Host Card Emulation (HCE). This landmark move could redefine the digital wallet landscape.

Empowering financial institutions to secure top-of-the-wallet status

The Convego® Cloudpay solution, from Giesecke+Devrient (G+D), empowers banks to provide NFC-powered payment experiences within their mobile banking apps—either using HCE technology or, where technology or local regulation requires, leveraging the internal Secure Element (SE). Convego® Cloudpay integrates into banks' existing technology, and offers optimized user experiences, supports multiple payment schemes, and ensures state-of-the-art security so banks retain a competitive edge.

Benefits through Host Card Emulation (HCE)

For issuers:

Secure top-of-wallet status: enhanced mobile banking capabilities increase app interaction frequency, boosting trust and brand engagement.

Boost brand engagement: integrated payment functionality keeps customers engaged with your brand for longer.

Deliver state-of-the-art security: utilizes EMV payment tokenization and robust security measures for enhanced protection.

Simplify certification: Convego® CloudPay HCE holds all necessary certifications, including PCI-DSS, ensuring compliance with payment scheme requirements. It seamlessly integrates and supports both international and domestic payment schemes.

Reduced maintenance and cost-efficiency: G+D handles the majority of any ongoing updates, reducing maintenance required by card issuers.

For customers:

Enjoy seamless payments on the go: our solution enables customers to make payments anytime, anywhere, within your mobile banking app.

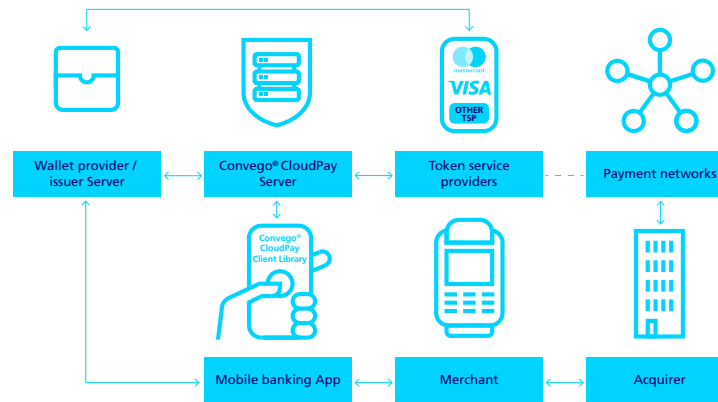
Rely on enhanced security: embeds payment cards within the app for maximum security, providing peace of mind to customers.

¹ <https://corporate.worldpay.com/news-release-details/worldpay-global-payments-report-2024-digital-wallet-maturitynews-releases>

Convego® CloudPay: step by step

1. The wallet provider/issuer banking app integrates Convego® CloudPay client SDK into their existing mobile app.
2. The wallet provider/issuer banking app integrates their wallet's server with Convego® CloudPay Server.
3. Their mobile banking app is then registered with the CloudPay Server.
4. The end user chooses to digitize or tokenize the card from their mobile banking app.
5. The CloudPay Server processes the tokenization request using the scheme (Token Service Providers) TSPs and delivers the token to the CloudPay Client SDK.
6. The user can then pay the desired merchant with a simple tap of an NFC enabled smartphone.
7. The acquirer processes the transaction using the TSP and card networks when tapped.
8. The mobile app is then notified of the transaction's status.
9. After a certain number of payments, new keys are automatically replenished from TSPs and are delivered to the CloudPay Client SDK in the background. This ensures that the user always has sufficient keys available without any noticeable interruption.

The CloudPay ecosystem



Convego® CloudPay—integration roadmap

The solution is built for iOS and Android devices to take advantage of HCE technology—in geographies where this is offered (specifically for Apple). Where devices, regulations, or regional restrictions mean HCE is not available, CloudPay can be used on iOS devices through its Secure Element (SE).

Pay By Account

Experience seamless checkout with Pay By Account (Mastercard), enabling payments in-store and online from any bank account or digital wallet wherever Mastercard is accepted. This solution empowers customers with convenience, security, and control, allowing them to view balances and authenticate payments effortlessly.

Why choose G+D as your mobile payments partner?

Reliable Banking Partner: G+D is a global leader in security technology, supporting over 5,000 banks and issuers. Our commitment to balancing security and convenience shapes the future of banking and payments.

Trusted expertise: 8 out of 10 top financial institutions trust G+D. By partnering with G+D, you can reduce certification needs and integration complexity. We offer a CloudPay harmonized solution that supports multiple international and domestic payment schemes, streamlining implementation efforts and reducing operational challenges.

One-stop shop for digital banking and payments: With a 170+ year track record in PayTech, gain access to a community of digital payment experts and a comprehensive off-the-shelf product portfolio, making G+D your go-to resource for the future of digital banking and payments.

For more information on Convego® CloudPay, please visit our website: [Convego® CloudPay](https://www.convego.com/cloudpay).

About Giesecke+Devrient

Giesecke+Devrient (G+D) is a global SecurityTech company headquartered in Munich, Germany. G+D makes the lives of billions of people more secure. The company shapes trust in the digital age, with built-in security technology in three segments: Digital Security, Financial Platforms and Currency Technology.

G+D was founded in 1852 and today has a workforce of more than 14,000 employees. In the fiscal year 2023, the company generated a turnover of 3 billion euros. G+D is represented by 123 subsidiaries and joint ventures in 40 countries.



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