3 MORE SECURE ALTERNATIVES TOPROXAND iclass® cards



Evolving cyberthreats require advanced credential options

The average data breach costs \$4.88 million and takes 11 months to resolve – causing massive reputational and financial damage.1

Yet many organizations still rely on outdated proximity (prox) cards and vulnerable iCLASS® cards that put their data at risk.

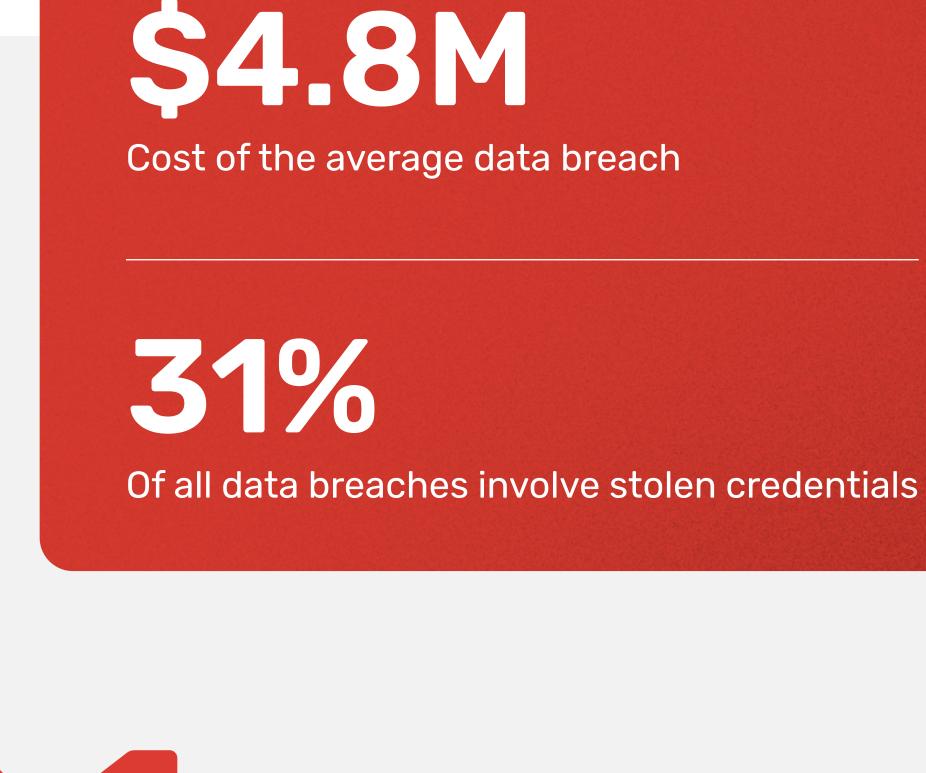
iCLASS credentials' simple encryption makes them relatively easy to clone, downgrade or emulate. Prox cards lack encryption entirely, leaving them even more vulnerable to account takeover (ATO) and other attacks. Credential theft, including attacks on prox cards, remains a significant factor in data breaches. In fact, stolen credentials have

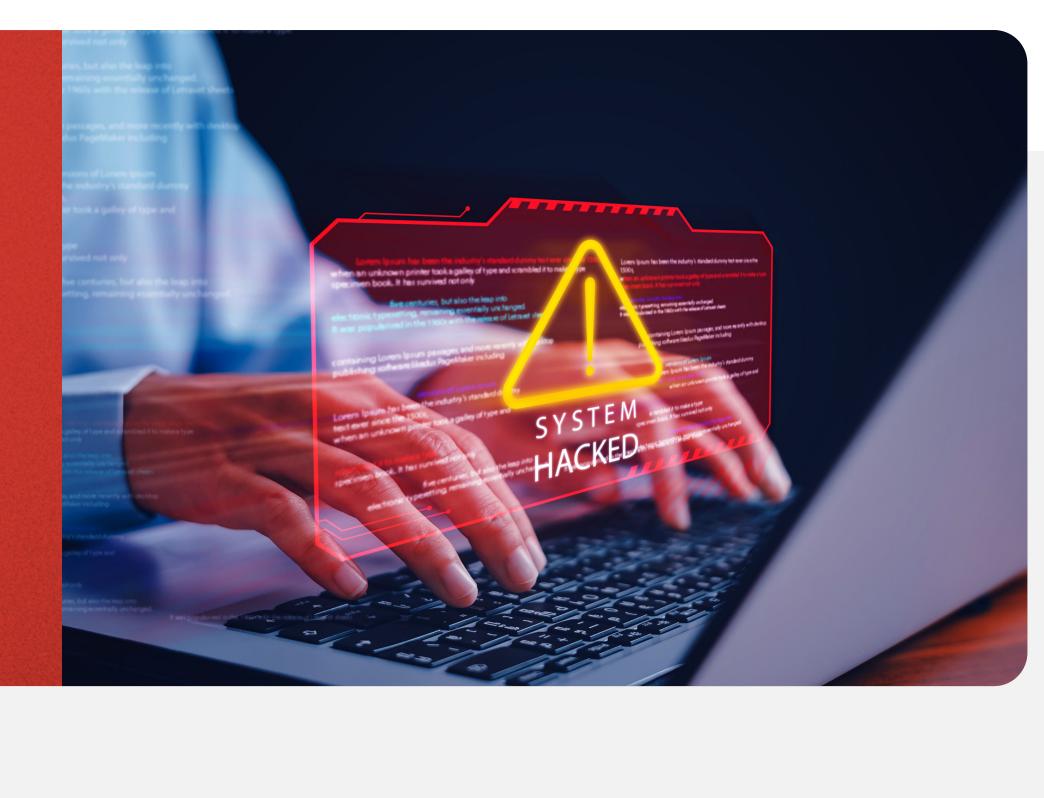
over the past decade.² You may feel stuck with these legacy credentials

been involved in nearly 31% of all data breaches

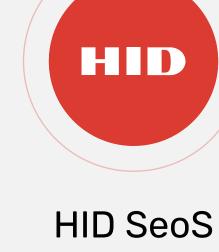
due to budgetary constraints. However, delaying an upgrade will only leave your organization more vulnerable. An inevitable data breach costs more than an initial security investment. Fortunately, there are more sophisticated

authentication methods available. Strong encryption and other safeguards make smart cards, mobile credentials and FIDO passkeys better-suited to combat ATO attacks and keep your users secure.





SMART CARDS









LEAF Universal⁺

What are they?

Smart cards are encrypted, high-frequency credentials that authenticate users with embedded microchips, similar to contactless credit cards. Advanced security features from providers like LEGIC, HID Global and NXP prevent cloning.



How can rf IDEAS help?

rf IDEAS' WAVE ID® Plus Mini, WAVE ID® Nano and WAVE ID® SP Plus are dual-frequency readers that support a variety of smart card configurations, enabling a phased transition away from prox and iCLASS cards.

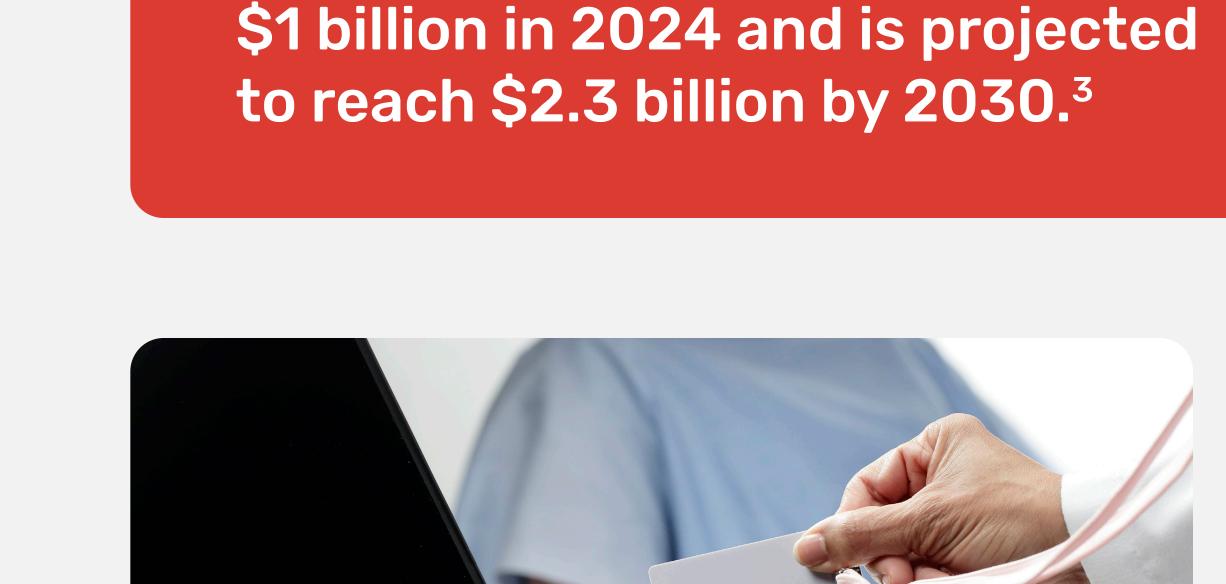
Smart cards are great for organizations that are transitioning to multi-factor authentication (MFA) or looking to preserve

Who are they ideal for?

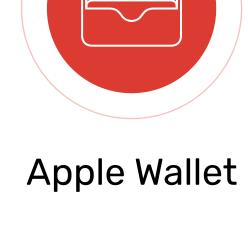
the familiar form factor of a physical badge.

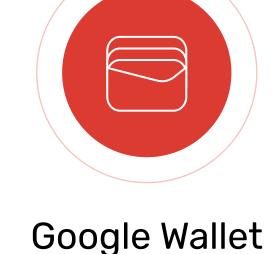
The global market for healthcare

smart card readers was valued at



MOBILE CREDENTIALS







Mobile credentials use digital versions of ID badges stored on smartphones, replacing physical ID cards entirely.

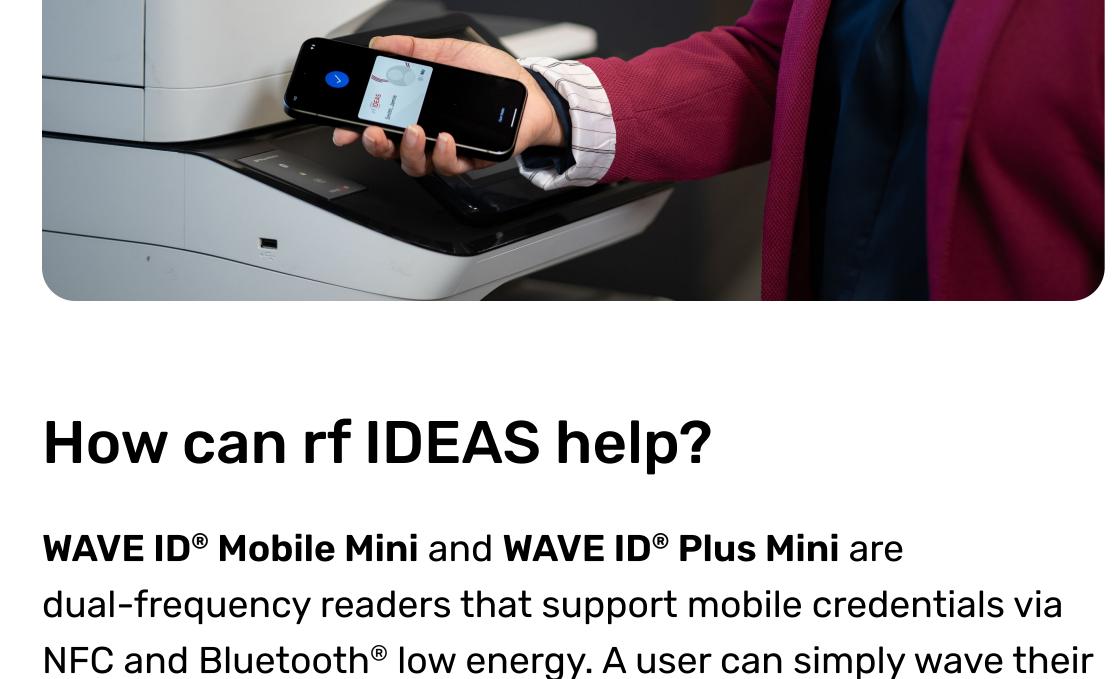
What are they?

Mobile credentials from providers like Gallagher, CBORD, Transact, Wavelynx and LEGIC are stored in a phone's Apple

the risk of lost cards, smartphones' built-in biometric authentication measures further boost security.

Wallet, Google Wallet or other NFC-based digital wallet, enabling

employees easy access to secure endpoints. Besides reducing



Digital wallets are a good option for organizations looking to eliminate the burden of printing and managing physical access cards. Instead, IT can

trend in 2025.4

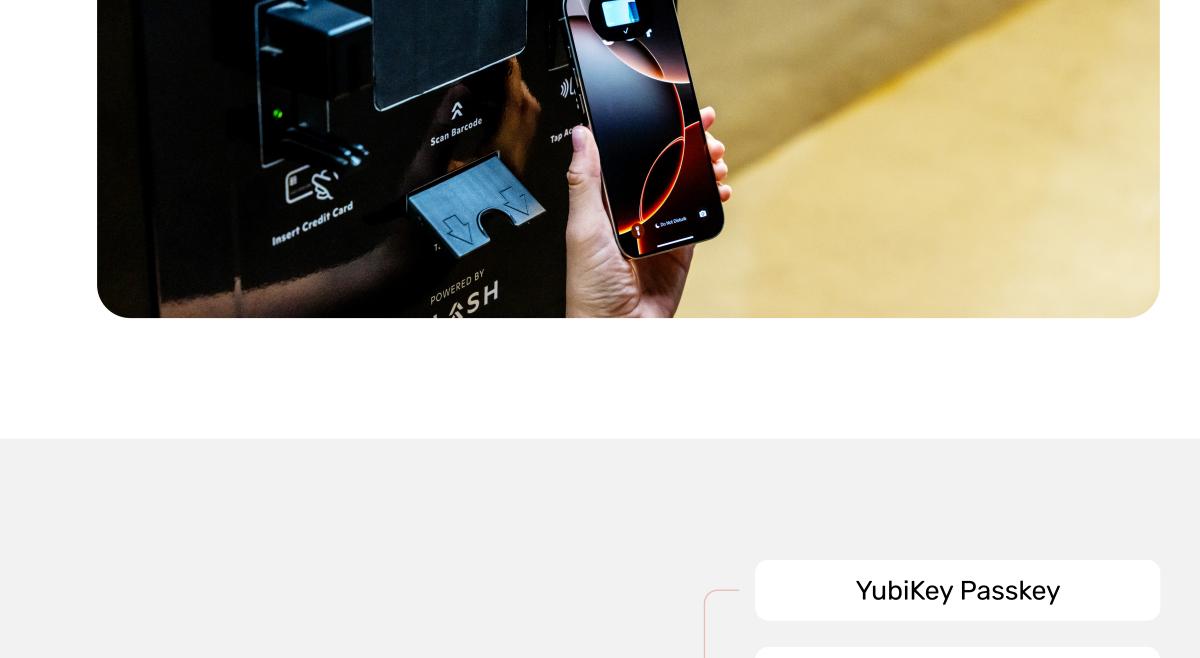
Who are they ideal for?

onboarding and security processes.

61% of security leaders say

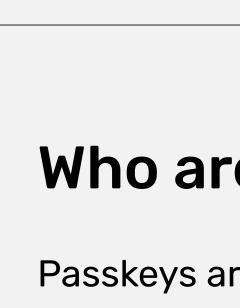
that mobile identity is a top

grant or revoke access remotely, streamlining



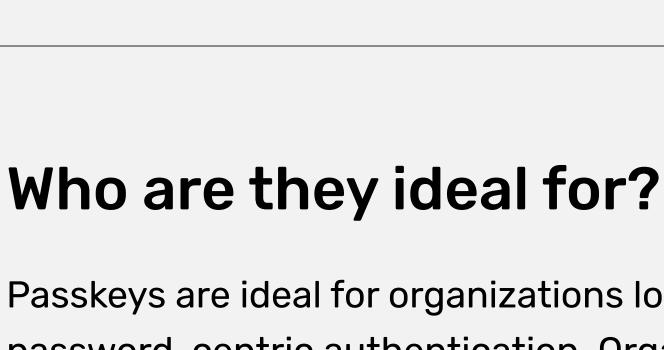
FIDO PASSKEYS

smartphone or tablet at the reader to gain authentication.



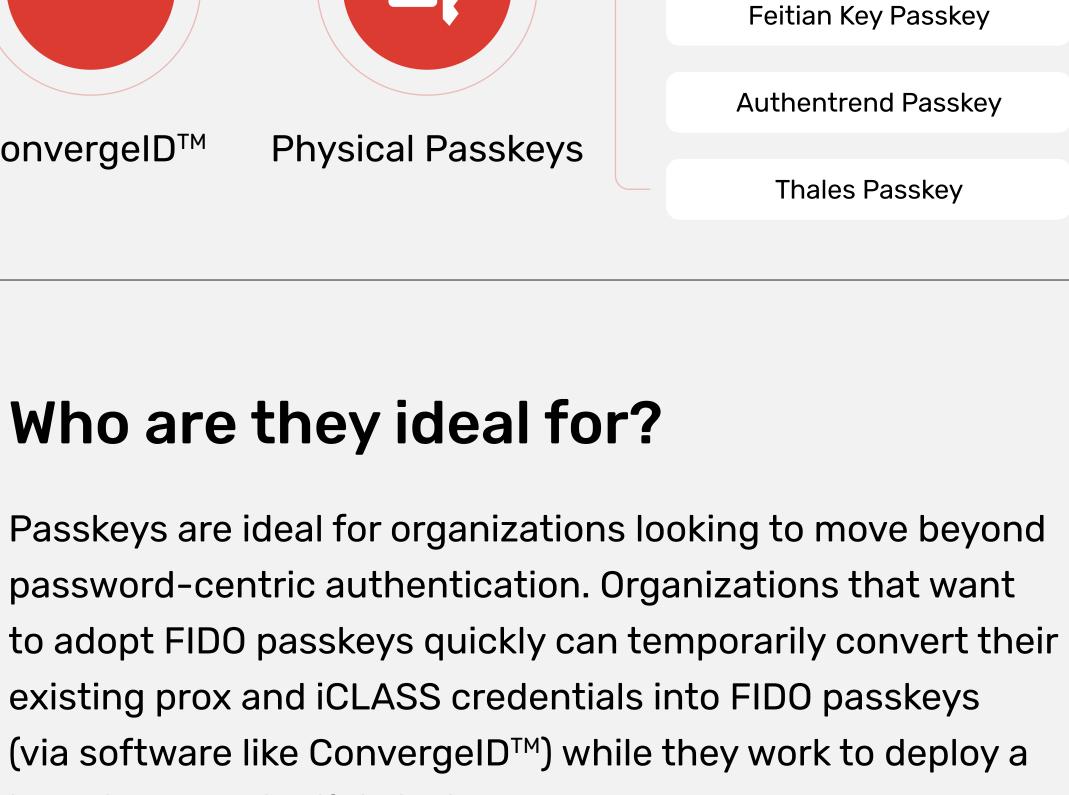
ConvergeID¹

ConvergelD™



long-term credential strategy.

Physical Passkeys



Nymi Passkey

HID Crescendo Passkey

Built on FIDO standards, passkeys eliminate passwords and enable secure, phishing-resistant authentication across devices.

secure methods.

What are they?

FIDO passkeys are cryptographic credentials linked to a user's

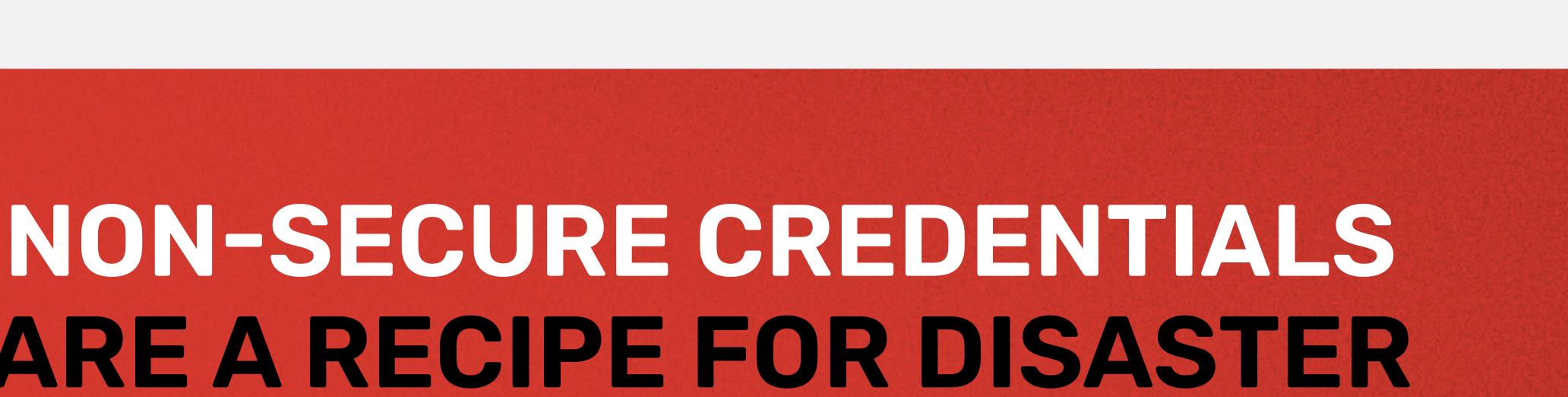
with authentication occurring through biometrics or other

account. Upon registration, public and private keys are created,

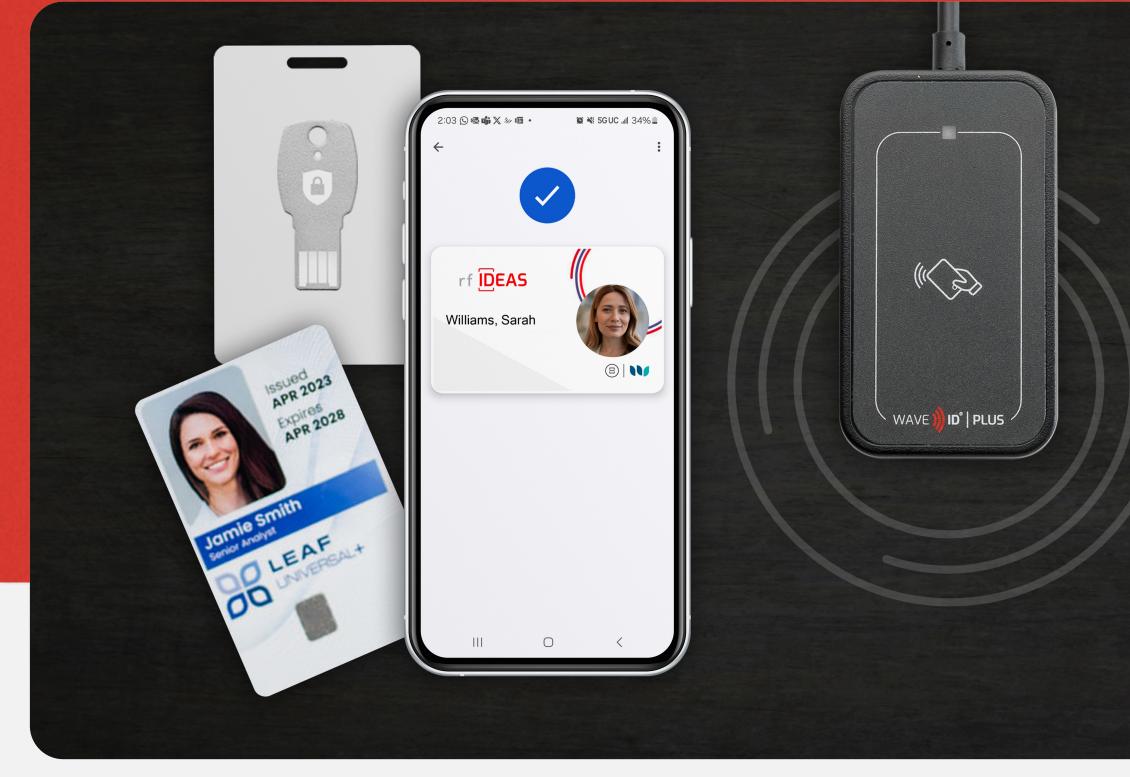
How can rf IDEAS help? rf IDEAS' ConvergeID™ software solution enables your organization to turn your existing credentials into a FIDO passkey. Our diverse range of FIDO-compliant products include the WAVE ID® Nano and WAVE ID® Embedded OEM.

have already deployed passkeys for employee sign-ins.⁵

87% of U.S. and U.K. workplaces



ARE A RECIPE FOR DISASTER

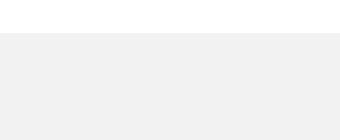


CREDENTIAL SOLUTION? Make the switch now to strengthen security, reduce long-term risk and future-proof your access strategy.

TO A MODERN, SECURE

READY TO UPGRADE

Learn more





rf IDEAS_3 More Secure Alternatives to Prox and iCLASS Cards_Info-912

¹IBM Cost of a Data Breach Report

²Verizon 2024 Data Breach Investigations Report