



S-KEY™

Simple. Safe. Secure.

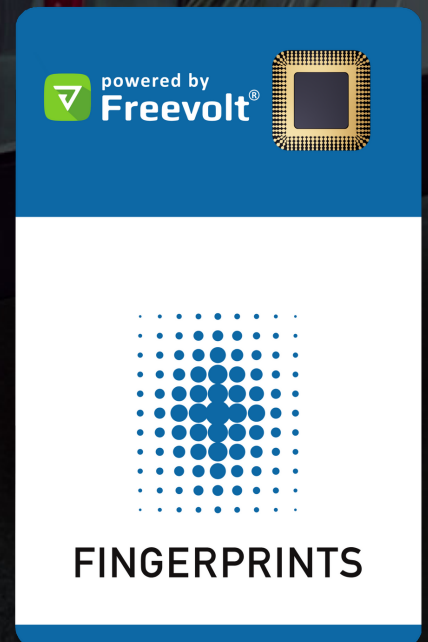
Case Study

Improving access security for biometrics pioneer, Fingerprints.

S-Key's battery-less biometric access card solution implemented to further strengthen security for leading Swedish technology company, Fingerprint Cards AB.

Protecting confidential files, intellectual property, and customer information is paramount for a technology innovator, where handling important data, both physically and digitally, is common practice. Furthermore, as an EMVCo member, and a publicly traded company, having a secure access control process is fundamental where the risk of any failure in security measures, including those with two-factor authentication, could have severe consequences.

S-Key's biometric, fingerprint activated, access control cards improved security at this technology company at low cost, posing no operational impact, and with extra benefits.





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The Issue:

how to upgrade security using existing readers

Being part of EMVCo, Fingerprints have a double entry door system to enter their office and also have restricted secure areas for their hardware and software labs. Despite being a security conscious company, speed and convenience remains important for employees, who are often in and out of the office. The firm were keen to enhance security where possible, and particularly through the use of biometrics, without requiring a significant overhaul of their entire system.

Biometric fingerprint authentication provides an additional security layer which eliminates the risk of a fob being used by an unauthorised person.

Fingerprints was keen to evaluate how S-Key fingerprint activated access control cards would work for them their Headquarters in Gothenburg, asking six key questions:

We already have a two-factor access system – Do I really need more security?

How long will it take for our employees to enrol themselves on the cards?

How fast are the cards to use compared to using my cards with a 4-digit pin?

Our lab areas are critical, can we protect those too?

What are the costs for us to use this for the whole office?

Can we use biometric access control cards for our printers or PCs?



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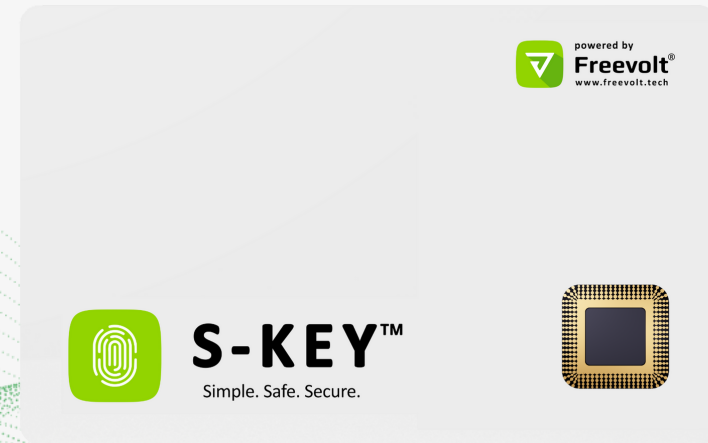
The Solution: biometric access control cards

Fingerprints has rolled out S-Key across their whole office at their Headquarters in Gothenburg, Sweden.

All staff were efficiently set-up with new cards and their fingerprints enrolled. The cards work across all of their access readers for the entire office.

“With our customer Freevolt, we are happy to roll-out biometric access cards to be used to access the office for our employees. S-Key state-of-the art biometric access card solution will strengthen our security measures across the premises. Last but not least it’s a fantastic way to see the result of our peoples’ work in our own hands!”

Chief Human Resource Officer at Fingerprints, Caroline Krüger.



-  **Tighter Control:** Maintain 2-Factor Authentication, with additional security layer possible (3FA)
-  **Removes Threat from Card Loss:** Only named individual can use the card to gain access
-  **Scalable & Easy to Adopt:** Works with existing access control systems, no changes required
-  **Better Privacy & GDPR Compliance:** Fingerprint hash encrypted and stored on the card (never leaves the card)
-  **Improved Hygiene:** Secure, contactless entry now possible post COVID-19 pandemic



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The Results:

1 More Secure than two-factor authentication (2FA) via Pin:

Pins can be forgotten or shared so ensuring a robust 2FA process, using a fingerprint, which cannot be copied or shared, significantly increases security for Fingerprints' organisation.

2 Easy to Set-Up: 100% of the staff were enrolled with their fingerprint into S-Key in less than 30 seconds.



3 Convenient and Secure:

Users found S-Key straightforward to use, simply presenting your card with your finger on it to the reader and not worry about 4-digit pins. S-Key cards authenticate the user within 1 second of being presented to an access control reader.

4 Worked with Existing Readers Across All Areas:

S-Key cards worked out-of-the-box with the company's existing access readers, including those for the Hardware and Software labs. Users were simply issued an S-Key card with their respective access privileges updated in the access control software.

5 Convenient and Secure:

Users found S-Key straightforward to use, simply presenting your card with your finger on it to the reader and not worry about 4-digit pins. S-Key cards authenticate the user within 1 second of being presented to an access control reader.

6 Forget about PINs: The existing multi-function printer at their office works with S-Key too, so they can now securely release print jobs only to the intended user. FIDO2.1 will be available on S-Key in June 2024 which will also enable biometric verification for passwordless login to computers and other systems.

“Using a personalized access card incorporating a biometric sensor from Fingerprints is a great way to use and feel our own technology. Being able to keep labs secure with our own capacitive sensor, in S-Key's battery-less card platform is a great manifest of the extensive R&D work and innovation we contribute as tech leaders”

Fredrik Ramberg, Vice President of R&D at Fingerprints



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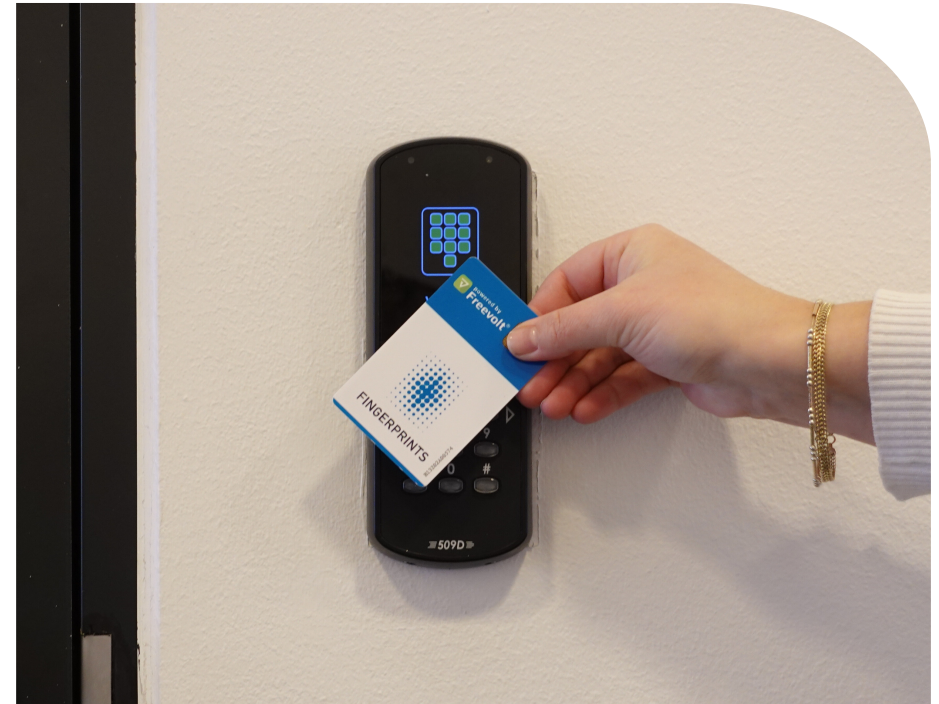
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Sustainable and Reliable access control

S-Key's biometric access control cards were able to deliver a secure solution to Fingerprints' access control for their HQ office. The cards are robustly designed and water resistant, so they will last for many years through everyday handling and conditions.

S-Key's innovative power-harvesting technology, combined with Fingerprints' ultra-efficient FPC 1323 capacitive sensor, enables the cards to work without a battery. New security features require additional power, but unlike other cards, S-Key will never require users to recharge or replace their cards. Instead, Freevolt technology collects Radio Frequency (RF) energy from card readers: a more sustainable choice for Fingerprints, aligning with their sustainability strategy.



Please check out the official announcement here:

[CLICK HERE](#)



S-Key access control cards work with all major biometric card readers:



GET IN TOUCH

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