

# Bio-metric Authentication: Enhancing Password Security

Where passwords alone don't provide sufficient protection against cyberattacks, biometric authentication can be the solution to improve security measures!

## The power of biometrics

When using unique characteristics, such as fingerprints or facial features, organisations can reduce fraud risks. This leads to a robust and effective security infrastructure (Rimol.M, 2021).



## Integration with passwords

This boosts security by adding another layer of authentication, reducing risk of data breaches (Rimol.M, 2021).



## Challenges and considerations

Potential privacy concerns, interoperability problems, and spoofing risks must be looked into to make sure they are prevented effectively (Keyser, A.D. et al. 2021).



## WHY ADD BIOMETRICS?

In 2023  
biometrics were the  
**MOST PREFERRED  
SECURITY  
AUTENTICATION  
METHOD.**



of data breaches involve weak passwords, showing the vulnerability of using a traditional password system only. (O'Shea, B. 2023).

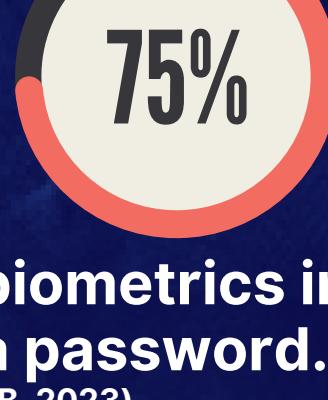
Biometrics help  
**MIGITATE DATA  
BREACHES.**

Biometrics enhance  
**SECURITY**  
for organisations.



Lalchand, S. (2023)

of hacking related issues are because of weak passwords.



Fraud rates can be reduced by 75% when using biometrics in addition to a password. (O'Shea, B. 2023)



FACE OR FINGERPRINT

RECOGNITION

enhance security and doesn't need extra effort.



VOICE BIOMETRICS

can catch offenders or fraudsters. (O'Shea, B. 2023).

## USER EXPERIENCE

**40%** of consumers prefer when security levels are high but fast at the same time (Lalchand, S. 2023).

**85%** of users say their perception of a business improves when they pay attention to security (O'Shea, B. 2023).

## References:

1. Rimol, M. (2021), The IAM Leader's Guide to Biometric Authentication. (Gartner) Available at: <https://www.gartner.com/smarterwithgartner/the-iam-leaders-guide-to-biometric-authentication> (Accessed: 26 March 2024).
2. Keyser, A.D. et al. (2021) Opportunities and challenges of using biometrics for business: Developing a research agenda, Journal of Business Research. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S0148296321005014> (Accessed: 26 March 2024).
3. O'Shea, B. (2023) Which is safer: Biometrics or passwords?, Experian. Available at: <https://www.experian.com/blogs/ask-experian/biometrics-vs-passwords-which-is-safer/> (Accessed: 26 March 2024).
4. Lalchand, S. (2023) Using biometrics to combat synthetic identity fraud - WSJ, Wall Street Journal. Available at: <https://deloitte.wsj.com/riskandcompliance/using-biometrics-to-combat-synthetic-identity-fraud-d2e30d4f> (Accessed: 26 March 2024).