



BITWARDEN SECURITY PERSPECTIVES

# Trusted security solutions

What you need to know

## What exactly are trusted security solutions?

Trusted Security Solutions refers to products and services that have been independently verified to meet strict security standards. In most cases, this relies on the transparency of an open source solution. Trusted solutions can come in many forms, from firewalls, intrusion detection systems, and anti-virus software to encryption technologies and identity management solutions. They typically share transparent open-source architectures, along with rigorous testing through professional audits, bug bounty programs, and community reviewers. These solutions also retain strong industry certifications.



In the financial services sector,

## 70% of organizations

report improved security through OSS adoption, according to the 2024 State of Open Source in Financial Services report by the Linux Foundation.

Source: 2024 State of Open Source in Financial Services report by the Linux Foundation.

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## How does password management fit in here?

Password management platforms play a vital role in protecting sensitive credentials. Users of these solutions deserve the utmost in transparency to develop trust. The most effective Trusted Security Solutions make use of many ways to achieve this, including:

- **Open-source transparency:** allowing global scrutiny ensures quick identification and remediation of vulnerabilities.
- **Proven encryption standards:** adopting AES-256 encryption and end-to-end encryption allows for comprehensive data security.
- **Secure development practices:** using frameworks like OWASP minimizes security vulnerabilities at the foundational coding level.
- **Rigorous third-party audits:** regular security audits validate effectiveness, proactively identify vulnerabilities, and demonstrate reliability.
- **Compliance with industry standards:** these solutions align with GDPR, HIPAA, SOC 2, and ISO 27001, simplifying compliance and regulatory adherence.
- **Secure authentication integration:** incorporating standards like FIDO2/WebAuthn, SAML, and OAuth 2.0 further strengthens authentication security.
- **Phishing resistance:** features like URL autofill protection and domain matching significantly reduce the risks posed by credential phishing.
- **Secure backup and recovery:** emergency access and secure backups ensure full data recovery without compromising security.
- **Advanced role-based access control controls (RBAC):** granular access management aligns credentials with the principle of Least Privilege Access.

- **Continuous community improvement:** open-source development allows the security community to rapidly address emerging threats and vulnerabilities.

Using a trusted security solutions approach, password managers can provide companies with proven, highly-secure methods for protecting their most sensitive data.

### How trusted security solutions keep today's business safer

In today's digital landscape, businesses everywhere face a growing number of increasingly sophisticated cyber threats. From phishing and ransomware to data breaches and insider attacks, the threats continue to evolve. Choosing trusted security solutions allows you to:

- **Enhance security while reducing risk:** transparency and ongoing involvement of the global security community help minimize vulnerabilities.
- **Increase credibility and trust:** established vendors maintain a reputation for secure, highly reliable products.
- **Adapt to evolving threats:** continuous updates ensure protection against new and emerging cyber threats.
- **Maintain compliance:** these solutions simplify adherence to stringent security standards and regulations.
- **Reduce vendor lock-in risks:** open-source solutions offer greater flexibility, control, and integration options.
- **Scale easily:** modular architectures scale effortlessly to keep pace with organizational growth.
- **Adopt advanced passwordless authentication:** support for passkeys and biometric solutions significantly enhances login security.
- **Be proactive on threat intelligence:** trusted vendors allow monitoring and response to threats, maximizing security integrity.
- **Improve user adoption:** transparent, intuitive solutions increase employee trust, adoption, and productivity.

Organizations of all sizes choose Trusted Security Solutions to protect sensitive data and systems from unauthorized access, use, disclosure, modification, or destruction.

### How Bitwarden supports trusted security solutions

By combining transparency, proven security frameworks, and modern authentication methods, Bitwarden empowers businesses to protect sensitive credentials while ensuring reliability, compliance, and user confidence. Bitwarden exemplifies trusted security with:

- **Open-source transparency:** the open-source model invites continuous peer review, removing hidden vulnerabilities.
- **Robust encryption protocols:** employing AES-256 encryption, PBKDF2 key strengthening, and zero-knowledge principles protects data comprehensively.
- **Regular independent security audits:** conducting frequent third-party assessments ensures ongoing validation of security measures.

- **Regulatory compliance:** achieving SOC 2, GDPR, HIPAA, and other certifications demonstrates commitment to high security standards.
- **Advanced authentication support:** integration of passwordless authentication methods, biometrics, and hardware keys like YubiKey strengthens security.
- **Granular role-based access control and secure sharing:** facilitates precise control of credential access and secure sharing mechanisms.
- **Comprehensive audit logs:** provides detailed tracking of activities, supporting accountability, compliance, and risk management.
- **Flexible deployment options:** cloud and self-hosted solutions accommodate a broad range of organizational needs.
- **Active development and support:** continuous updates ensure that Bitwarden remains secure, even against the newest emerging threats.

### The bottom line

Bitwarden leverages the best of today's Trusted Security Solutions to provide businesses with a secure, reliable, transparent platform that continues to grow and evolve. As an open-source solution, Bitwarden customers benefit from continuous updates, driven by both their core development team and the global security community.

This comprehensive set of cyber tools is purpose-built to enhance security posture, regulatory compliance, and operational efficiency. Just one more reason Bitwarden is regarded as the most trusted name in password management.

### What makes Bitwarden stand out from the pack?

Among enterprise password managers, Bitwarden is the only provider with a trusted open-source architecture. This provides unmatched transparency while ensuring that Bitwarden customers understand completely how their sensitive information is handled.

Specifically:

- Bitwarden is the only enterprise password manager with a trusted open source architecture, ensuring the most transparent approach to maintaining the highest degree of security.
- No other leading competitor offers this option
- If you can't see or know what your password manager is doing with your sensitive information, how can you trust it?

## More security perspectives

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## Password management for global organizations

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## Least privilege access

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### Zero-knowledge encryption

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## Scalable password sharing

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## Application and employee-centric credential management

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### Credential lifecycle management

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