

# **Optoma Security Whitepaper**

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At Optoma, safeguarding our customers' data is at the heart of everything we do. In today's digital landscape, where data security is more critical than ever, we are dedicated to upholding the highest standards of privacy and protection for all our products. Unless otherwise specified, references to "products" in this white paper should be understood to include both hardware and software/services.

This white paper presents an overview of Optoma's comprehensive security framework, designed to defend customer data against a wide range of threats. Our robust, end-to-end approach spans from application-level to cloud-level security, reflecting our commitment to exceeding industry standards and offering genuine peace of mind to our users.

While the security measures and protections detailed in this white paper provide the foundation for our products, the specific measures implemented may vary across individual devices. We remain steadfast in our commitment to providing secure and reliable solutions for every Optoma user.



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#### Introduction

In recognising the critical importance of data security, Optoma has developed a multifaceted security strategy to defend against diverse threats, ensuring the integrity, confidentiality, and availability of sensitive information. Our security measures span the entire product ecosystem, from individual devices to cloud-based services, aligning with rigorous security standards to support your organisational security objectives. This white paper provides an overview of Optoma's security capabilities, including our robust encryption practices, secure access controls, and comprehensive risk mitigation strategies.

## **Application Level Security**

At the application level, Optoma employs stringent security protocols to thwart unauthorised access and mitigate risks:

- Authentication: We mandate strong password policies and device authentication to maintain a robust security posture for user access.
- Permission Control: A sophisticated permission management system ensures only verified users can access device functionalities. This framework restricts unauthorised access and offers customisable permission settings for granular control.
- Security Testing: Continuous security assessments identify and remediate
   vulnerabilities, reinforcing our commitment to maintaining robust security defences.

# **Device Level Security**

Optoma prioritises device security through various measures designed to protect against threats:

- Encryption: All data stored on devices is encrypted using state-of-the-art algorithms.
- Access Control: Multiple layers of access control, including security locks and screen lock mechanisms, prevent unauthorised device interactions.
- Data Wipe: A secure data-deletion feature erases sensitive information, ensuring data



privacy and protection.

## **Network Level Security**

Optoma's products incorporate various security protocols to mitigate network-related security risks. These protocols are designed to ensure the integrity and confidentiality of data as it traverses wireless and wired networks.

#### **Enterprise-Grade Authentication\***

- Encryption Protocols: Optoma prioritises protecting data transmitted over WiFi
  networks by implementing robust encryption protocols, notably WPA2. This level of
  encryption is pivotal in preventing unauthorised entities from intercepting and
  deciphering sensitive data.
- WPA2-Enterprise with 802.1x Authentication: For Wi-Fi networks, the standard has evolved to embrace WPA2-Enterprise, supplemented with 802.1x authentication. This setup provides a more secure authentication mechanism, ensuring only authorised users can access the network. Optoma supports various Wi-Fi protocols, including the advanced security features offered by WPA2 and WPA2-Enterprise with 802.1x authentication.
- WPA3-Enterprise: Builds upon the foundation of WPA2-Enterprise with the additional requirement of using Protected Management Frames on all WPA3 connections. Use Multiple Extensible Authentication Protocol (EAP) methods, including a minimum 128-bit Advanced Encryption Standard Counter Mode with Cipher Block Chaining Message Authentication (AES-CCMP 128) and a minimum 256-bit Hashed Message Authentication Mode (HMAC) with Secure Hash Security White Paper 5 Algorithm (HMAC-SHA256).

#### **Encrypted Data Transmission**

• Implementation: All data exchanged between Optoma devices and devices connected via Wi-Fi or Ethernet is encrypted. This is facilitated by the Transport Layer Security

<sup>\*</sup> Applied models: IFP52+, IFP53, IFP32, FP



(TLS) and Datagram Transport Layer Security (DTLS) protocols.

- TLS and DTLS Protocols: These protocols provide robust encryption for data in transit, safeguarding sensitive information against unauthorised access and interception.
  - **1. TLS (Transport Layer Security):** A cornerstone cryptographic protocol that provides communication security for securing HTTPS connections.
  - **2. DTLS (Datagram Transport Layer Security):** Tailored for datagram-based applications, DTLS ensures secure communication free from eavesdropping, tampering, or message forgery. It extends the principles of TLS to support scenarios where the underlying transport is less reliable.

#### **VPN Support**

**Functionality:** Optoma devices include Virtual Private Network (VPN) support, providing an essential layer of security for data transmitted over Wi-Fi networks. VPNs encrypt the entire communication channel between the device and the VPN server, effectively protecting data from interception and unauthorised access.

### **Cloud Level Security**

Optoma's cloud infrastructure is protected by industry-leading security services from Azure and AWS to safeguard sensitive data. Our cloud solution architecture is designed with a defence-in-depth strategy, leveraging the strengths of both platforms to ensure comprehensive data protection and compliance with a wide range of security standards.

- Azure Security Integration: Leveraging Microsoft Azure's robust security features, Optoma benefits from a multi-tenant platform that supports enhanced security, operational management, and threat mitigation. Azure's infrastructure offers exceptional protection against exploits, malware, and sophisticated attacks. Significantly, Azure maintains an expansive compliance portfolio, including ISO 27001:2022, ISO 27017:2015, ISO 27018:2019, ISO 20000-1:2018, ISO 22301:2019, and ISO 9001:2015, as well as the highest CSA STAR certification.
- AWS Security Services: AWS's Virtual Private Cloud (VPC) ensures secure service



operation, including stringent security rules and IAM role configurations.

Coı	mpliance Frameworks: Optoma's cloud solution adheres to critical security and
con	npliance frameworks, providing a secure environment for customer data. These
fran	neworks include:
	National Institute of Standards and Technology (NIST) 800-53
	NIST Cybersecurity Framework (CSF)
	NIST 800-171
	System and Organisation Controls (SOC) II
	Centre for Internet Security (CIS) Critical Controls v8.0
	ISO 27001
	North American Electric Reliability Corporation (NERC) Critical Infrastructure
	Protection (CIP)
	Payment Card Industry Data Security Standard (PCI-DSS) v4.0
	Department of Defence Cybersecurity Maturity Model Certification (CMMC)
	Health Insurance Portability and Accountability Act (HIPAA)

#### **Additional Security Measures:**

- Secure Connection: Our platform employs TLS 1.2 encryption for all connections, ensuring the privacy and security of your data during transmission. This encryption acts as a vital barrier against eavesdroppers and hackers, who may attempt to intercept data in transit.
- Data Encryption: We go a step further by encrypting all data stored in the cloud using industry-standard algorithms. This layer of encryption is crucial for protecting sensitive data against potential breaches, ensuring that even in such events, your data remains accessible and secure.
- Multi-Factor Authentication (MFA): Access to cloud services is strengthened with multi-factor authentication, a security measure that requires multiple authentication methods from distinct categories of credentials. MFA ensures that only authorised personnel can access sensitive data, significantly reducing the risk of unauthorised access.
- Data Redundancy: To ensure high availability and minimise data loss risk, data is



stored redundantly across multiple locations. This redundancy ensures that sensitive data is always accessible when needed, providing a reliable safety net against data loss scenarios.

# **Verification and Compliance Process\***

Optoma conducts a robust verification process to validate the integrity and effectiveness of our security measures. This multifaceted approach ensures our products and services not only meet but exceed industry standards for security, offering our clients the highest assurance of data protection.

- 1. Third-Party Audits: Our products undergo exhaustive audits conducted by independent, third-party security firms. These evaluations are designed to identify potential vulnerabilities and assess the effectiveness of our existing security measures. The insights gained from these audits enable us to continually fortify our defences against evolving cybersecurity threats.
- **2. Code Reviews:** Regular, comprehensive reviews of our codebase are a cornerstone of our security strategy. These reviews are conducted by security experts who scrutinise our code for vulnerabilities, adherence to best practices, and overall security hygiene. This proactive measure ensures our products' resilience against known and emerging threats.
- **3. Vulnerability Testing:** We employ ongoing vulnerability testing to discover and address potential security weaknesses pre-emptively. This proactive approach allows us to mitigate risks before they can be exploited, ensuring the ongoing security and reliability of our solutions.
- **4. Penetration Testing:** Penetration testing, or "ethical hacking," is pivotal in our verification process. Skilled security professionals simulate cyberattacks under controlled conditions to evaluate the effectiveness of our security measures. These tests help us identify and rectify vulnerabilities, enhancing our defence mechanisms against cyber threats.

<sup>\*</sup> Applied to: Display Share, Whiteboard, My Account, and OMS.



### **Compliance Management and Review Processes**

**General Data Protection Regulation (GDPR):** Optoma's Product adheres to GDPR principles and prioritises safeguarding customer data, reflecting our deep commitment to privacy and data protection. If a user wishes to delete their account, our comprehensive procedure is as follows:

- Identity Verification: We verify the user's identity when the deletion request is made.
   This critical step ensures the request's legitimacy, protecting against unauthorised attempts to access or alter user data.
- Data Deletion: Upon confirming the user's identity, we delete the user's data from our databases. This includes removing personal information, transaction history, and any other data linked to the user's account, ensuring their privacy is fully protected.
- Data Anonymisation: When data cannot be entirely deleted due to legal or other binding obligations, we anonymise this information. By doing so, the data is stripped of any personally identifiable information, ensuring the user's privacy remains intact even when data retention is required by law.
- Record Keeping: We maintain a detailed record of each deletion request and the subsequent actions taken. This documentation is crucial for transparency and accountability, providing a clear audit trail in the event of regulatory inquiries or audits.

**California Consumer Privacy Act (CCPA):** Compliance with the CCPA reflects our dedication to safeguarding the privacy and rights of California residents, offering transparency, control, and accountability in the handling of personal information.

Product Security and Telecommunications Infrastructure (PSTI): Compliance with the UK PSTI Act covers the following three main security features:

- Devices will not be allowed to have universal default passwords: This makes it easier for consumers to configure their devices securely to prevent them from being hacked by cyber criminals
- A vulnerability disclosure policy: This means manufacturers must have a plan for how to deal with weaknesses in software, which means it's more likely that such weaknesses will be addressed properly



 Disclose how long they will receive software updates: This means that software updates are created and released to maintain the device's security throughout its declared lifespan.

**ISO/IEC 27001:** Optoma software solution undergoes regular independent third-party audits for ISO/IEC 27001 compliance, which provide built-in initiative definitions to view a list of controls and compliance domains by responsibility – customer, Optoma, or shared.

Compliance with ISO/IEC 27001, certified by an accredited auditor, demonstrates that Optoma uses internationally recognised processes and best practices to manage the infrastructure and organisation that support and deliver its products. The certificate validates that Optoma has implemented the guidelines and general principles for initiating, implementing, maintaining, and improving the management of information security.

**EN18031:2024:** Optoma's products—including interactive displays, projectors, and LED displays—are developed in accordance with the cybersecurity provisions of the EU Radio Equipment Directive (RED) 2014/53/EU. We employ security-focused engineering practices and partner with accredited third-party laboratories to conduct formal RED conformity and cybersecurity testing. These independent assessments verify that Optoma products fully meet all relevant EU requirements prior to market entry.

Adhering to the RED not only reinforces product reliability and enhances compatibility across diverse deployment environments, but also ensures that every device complies with EU-wide safety and cybersecurity standards.

# **A Comprehensive Security Assurance**

In conclusion, Optoma ensures comprehensive security by integrating robust measures across our product suite. We focus on:

 Application Security: Implement strong authentication and access controls, complemented by regular security assessments to safeguard applications.

<sup>\*</sup> More detail: https://www.optomaeurope.com/company/statements/product-security-psti



- Device Security: Deployment of encryption, strict access controls, and data protection features to secure devices against unauthorised access.
- Network Security: Utilisation of WPA2 and WPA3 encryption, secure transmission protocols, and VPN support to protect data during transmission.
- Cloud Security: Leveraging cloud security features like encryption, multi-factor authentication, and compliance with industry standards to secure data storage and processing.
- Verification and Compliance: Continuous security evaluations, including third-party audits and adherence to data protection regulations, ensure our commitment to maintaining high-security standards.

Our commitment to security is not just protocol; it reflects our deeply held core values of customer focus, innovation, and integrity. These guiding principles ensure that Optoma's security framework meets our partners' expectations, embedding trust and reliability at the core of your experience with us.

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