



SECURITY

# Securing your IoT Edge devices

Balena ensures robust IoT security for your edge devices, protecting your fleet, data, and operations. Our secure platform supports reliable IoT fleet management and compliance with modern security standards.

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## ISO 27001

privacy protection — Information security management systems

## Balena Trust Center

Explore our **Trust Center** to find detailed information about IoT security best practices, industry certifications, and how we keep your data safe.

[Visit our Trust Center](#)

## Our Whitepaper

Learn about **balena's approach to IoT security** in our whitepaper. Discover how we implement secure device management, data encryption, and compliance measures.

[Download our Whitepaper](#)

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# Are you ready for the CRA?

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balena

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...more security, design and integration  
**their lifecycle.** It applies to nearly every connected product on the EU market, from smart fridges to SaaS platforms.



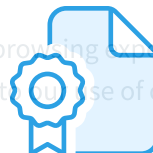
But what exactly counts as a “product with digital elements”? What are “essential cybersecurity requirements”? And how does this affect manufacturers, importers, or devs working with open-source?

[Learn more about the CRA](#)

## Why Trust balena with Your Next Project?



**Harden Your Edge and IoT Solutions**



**Built for Security and Compliance**

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balena's end-to-end security features.

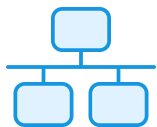
- ✔ Secure from the Start
- ✔ Minimalist & Hardened OS
- ✔ Remotely Patch Vulnerabilities
- ✔ Ensure Supply Chain Integrity

Learn more about balenaOS →

with balena's integrated security platform.

- ✔ CRA-Ready SBOMs
- ✔ Lifecycle Security
- ✔ Secure Update & Patching
- ✔ Auditable Security

Learn more about the CRA →



## Build Resilient Edge Devices

From secure boot to remote patching, use balena's foundational security to harden your devices against emerging threats.

- ✔ Secure Boot & Disk Encryption



## End-to-End Edge Devices Security

Secure your entire device lifecycle—from development and supply chain to deployment and EOL—all on one platform.

- ✔ Secure by Design

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management

✔ Failsafe Updates

Learn more about secure boot and FDE →

protection

✔ Secure Decommissioning

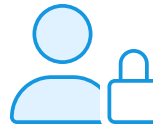
Learn more about supply chain security →



## OTA Updates for Enhanced Security

Safeguarding security with reliable, verifiable updates, providing consistent application and kernel updates to keep fleets protected from potential attacks.

HostOS updates → [OTA docs](#) →



## User Access Management

Offering secure authentication methods, including credential-based login, OpenID Connect (e.g. GitHub, Google), 2FA, TOTP, and SAML-based Single Sign-On for enterprises.

[Single Sign-On docs](#) →

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# Security Acknowledgments

At Balena, we welcome collaboration with external security researchers who discover vulnerabilities in our platform. We encourage researchers to responsibly introduce themselves and work with us to address issues. Please contact us at [security@balena.io](mailto:security@balena.io) to report potential vulnerabilities, or for further information about our responsible security disclosure process.

Last Updated: June 14, 2024

Name	Affiliation	Contribution	Disclosure Date	Resolution Date
Marco Jansen of Lorkeers	ThreatLabs	Marco reported a vulnerability in the 2FA recovery key management	April 22, 2024	June 14, 2024
Marco Jansen of Lorkeers	ThreatLabs	Marco reported a vulnerable gap in the 2FA setup	May 22, 2024	May 30, 2024
Santhoshkumar Chandramohan	—	Santhoshkumar reported a vulnerability in the email invite	January 19, 2025	February 27, 2025

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Rudi Kosiór	Secure Channel	Rudi reported a bug in our cookie consent banner ignoring preferences for visitors who customized their experience	July 28, 2025	July 28, 2025
Vasileios Flengas	—	Vasileios reported a privilege escalation vulnerability in balenaEtcher for Windows (versions prior to 2.1.4)	May 12, 2025	July 29, 2025

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## More on security at balena

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