Lindab OneSync
Cybersecurity overview

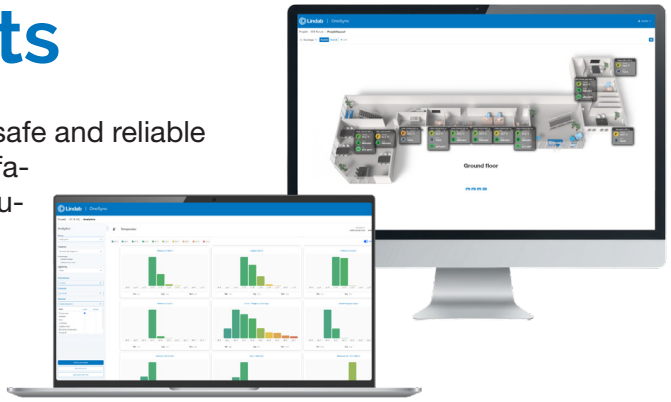
Current security measures for software and gateway infrastructure

This document is for informational purposes only and provides a current overview of the cybersecurity of OneSync. While we strive for accuracy, content may change without notice. For questions, please contact your local Lindab sales representative.

Lindab®

A digital platform for indoor climate insights

In modern buildings, cybersecurity is critical to ensuring safe and reliable operations. Lindab OneSync is designed to protect your facility's data, devices, and infrastructure using proven, industry-standard security practices.



About this document

This document provides a high-level overview of the cybersecurity measures implemented in Lindab OneSync, covering both the software infrastructure and the OneSync Gateway hardware. It is intended as a reference for IT security assessments and customer reviews and is not a comprehensive technical specification. Content reflects our current setup and may be updated as solutions evolve.

System overview

Lindab OneSync is a secure, cloud-based platform that provides an overview and insights of ventilation system performance and indoor climate data. Connected via the OneSync Gateway, it offers real-time access to performance metrics, user management, and historical data. Hosted in Microsoft Azure, the system is built with a strong focus on cybersecurity, including encrypted communication, role-based access control, and continuous monitoring of potential threats.

Built-in security

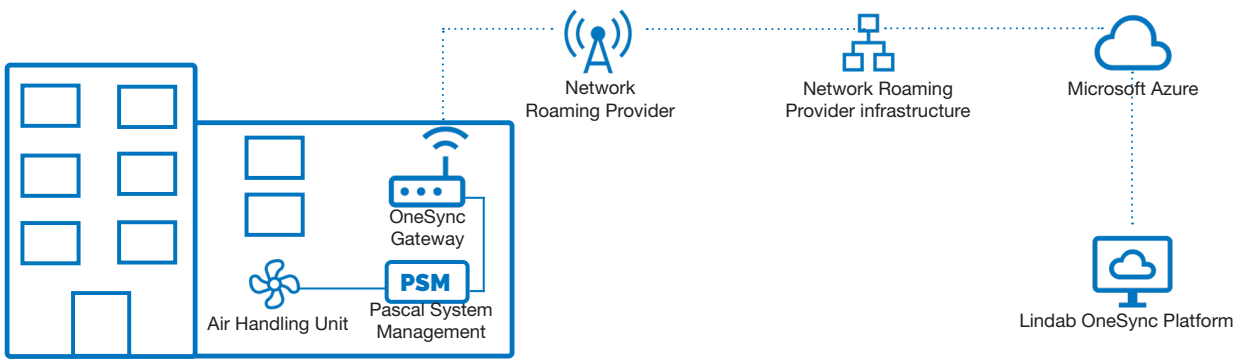
- TLS 1.2+ encryption for data in motion
- Industry-standard encryption for data at rest
- Secured with Azure Entra External ID using role-based access control for granular permission
- File areas secured with Microsoft Defender for Cloud
- Hosted in Microsoft Azure (primarily in Sweden, secondary in Europe)

Operational assurance

- Event logging of user activity, exceptions, faults (retained for minimum of 3 months)
- Recurring internal penetration tests
- Development and software changes are tested in a secured environment
- Continous monitoring of security breaches and potential attack vectors
- 24/7 monitoring of developer accounts and internal infrastructure

Infrastructure overview

OneSync connects to the same network as Lindab Pascal System via the OneSync Gateway. The gateway acts as an isolated bridge between the internal building network and Lindab's cloud infrastructure. It polls predefined IP-Addresses at regular intervals, retrieves data using Modbus/TCP, and transmits it securely via our Network Roaming Provider's encrypted 4G network.



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OneSync Gateway

Secure hardware via trusted Network Roaming Provider

The OneSync Gateway is a dedicated hardware unit provided in partnership with a trusted Network Roaming Provider. It runs a custom firmware developed by Lindab and is designed for secure, autonomous data collection and transmission.
The device is locked down by design. It cannot be modified, reconfigured, or managed locally. There are no user-accessible settings, no local interfaces, and no ability to install additional software. All Modbus addresses are predefined in the firmware and cannot be modified directly on the device. Advanced configuration is possible via backend tools, but not accessible through the device interface. The Network Roaming Provider continuously scans the software for vulnerabilities according to industry best practices. The hardware and software stack is fully customised and immutable, minimising the risk of misconfiguration or drift.

Gateway higlights

- Certified with EEN18031 and EEN18031-2
- CE-marked
- Trusted hardware supplier (ISO 9001 & ISO 27001)
- Custom firmware based on FreeRTOS
- Supports OTA firmware and OS updates
- Secure 4G connection via trusted provider network
- Recurring external penetration testing and continuous monitoring

Network connection & security

- The gateway uses the mobile roaming network to connect
- Communication is restricted to our suppliers designated servers
- All data is encrypted at industry standard
- No other ports or protocols are exposed

Device communication flow

Internal polling

- Sends read-only Modbus/TCP requests every two minutes to predefined IP addresses over port 502
- Only specific Modbus registers are queried
- The device does not expose any open ports for internal network access such as SSH, HTTP, or other protocols
- All communication is initiated by the device; it does not accept incoming traffic

External transmission

- Transmits collected data via encrypted HTTP over 4G to Network Roaming Provider
- Network Roaming Provider securely forwards the data to Lindab's OneSync infrastructure in Sweden

Configuration management

- Software version checks and updates via encrypted channel, in accordance with industry-standard security protocols
- IP configuration (DHCP or static) is managed via OneSync
- Modbus data transmitted securely via 4G

Regulatory compliance & standards

EU Cybersecurity (RED 2025)
OneSync is developed according to the principles of the upcoming EU RED 2025 requirements for connected devices, supporting future compliance with cybersecurity, privacy, and data protection standards.

GDPR
OneSync processes and stores data according to the General Data Protection Regulation (GDPR), ensuring that personal data is handled securely, transparently, and with respect for user privacy.

Cyber Resilience Act (CRA)
OneSync is developed according to the principles of the EU Cyber Resilience Act (CRA), implementing security measures throughout the product lifecycle to reduce vulnerabilities and maintain resilience against evolving cyber threats.

Questions? We're here to help

If you have any further questions or would like to learn more, please contact your Lindab representative or visit www.lindab.com

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Most of us spend the majority of our time indoors. Indoor climate is crucial to how we feel, how productive we are and if we stay healthy.

We at Lindab have therefore made it our most important objective to contribute to an indoor climate that improves people's lives. We do this by developing energy-efficient ventilation solutions and durable building products. We also aim to contribute to a better climate for our planet by working in a way that is sustainable for both people and the environment.

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