Cybersecurity for Schools

How to achieve security requirements with Endian

EndianOS, a comprehensive and easy-to-manage security solution that simplifies the management and protection of school networks.

The importance of school network protection

Protecting schools network is not only an important regulatory compliance but it is an important act of responsibility to both students and staff. Providing a safe and secure digital environment means improving the well-being of those who work within the institution and ensuring peace of mind for the families of the children and young people engaged in their education.

EndianOS is at the heart of Endian's solutions and offers all the features needed to secure school networks of any size.

What kind of protection do schools need today?

Protection from external attacks

Any connection to the Internet can be targeted by malicious users to see if there is a network behind it with some resources to exploit or some data to steal. Although attacks that schools may receive are not targeted, this does not mean they are any less dangerous. The devices provided by connectivity providers offer virtually no protection, which can be easily unhinged by many attack systems, even the automated ones that scan the Internet day by day. Having an Endian integrated security system means zeroing in on this risk without adding complexity to the network of the school.

Protection from uncontrolled internal access

One of the main characteristics of school networks is that two very different categories of users must coexist within them. On the one hand we have the staff, engaged in their teaching, administrative and management activities, while on the other we find students and children, not always impeccable from a disciplinary point of view, sometimes with advanced technical skills and, in some cases, engaged in trying to use school resources for purposes other than educational ones. The solutions offered by Endian allow to manage these situations, starting with the separation of resources for students and laboratories from those for staff, and ending with more advanced controls.
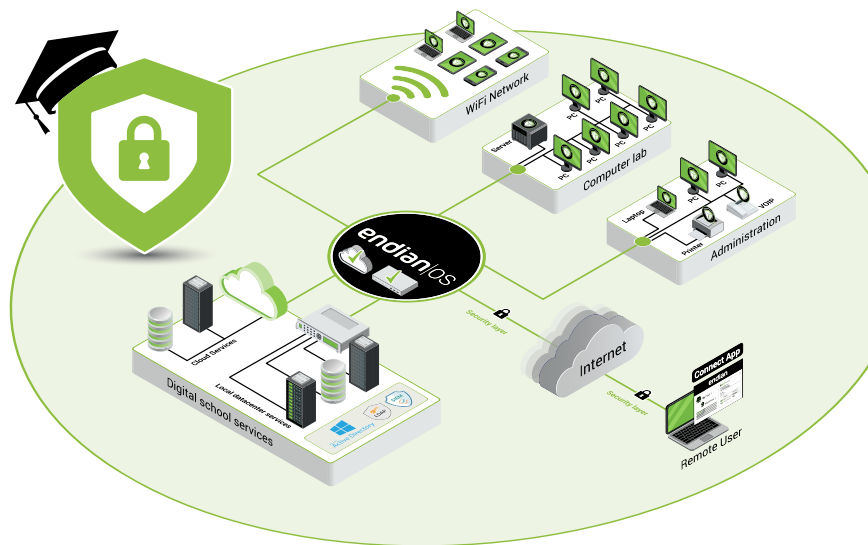
GDPR Compliance with Endian Security Gateways

In the era of data-driven businesses, the General Data Protection Regulation (GDPR) emphasizes the protection and privacy of individual personal data within the European Union. Endian Security Gateways are at the forefront, providing solutions that ensure businesses are not just compliant but also resilient against data breaches and intrusions.

Why schools need effective but simple protection

In a context such as schools, where the availability of resources and specialized technical staff is often reduced to the bare essentials, it is necessary to identify a solution that takes this need into account and ensures reliable and constant operations, after an agile initial configuration phase, while still retaining a good level of flexibility for any subsequent changes.

Browsing control / Children protection

This issue is extremely topical: the Internet contains resources of all kinds, and even the most punctual and effective supervision may not cover 100% of each learner's time. Thanks to the navigational control systems included in Endian solutions, it is possible to protect learners, especially children, from dangerous or harmful sites and resources, in a fully automatic way, leaving them the needed freedom, suitable for their educational level and age.

Liability in case of attack / Data leak

Information technology incidents happen, and, as with any other incident, it is not possible to avoid 100% of them. The presence of an adequate and standards-compliant protection system, however, is a useful fulfilment in scaling down the liability of staff, officials, managers, and supervisors in the event of an attack or data theft.

Inadequate devices from connectivity vendors

As we have mentioned, the devices provided as a default option by connectivity vendors have only an extremely basic level of security, which any malicious attacker or automated attacker can overcome in seconds. EndianOS reduces to zero this risk and is available in many different solutions, from physical devices to virtual machines.

Total protection, zero intervention

No structural intervention required

Devices or virtual machines equipped with Endian solutions do not require changes to existing systems or infrastructures, they simply need to be connected to the local network. All subsequent steps to get them up and running are done at the software level, without the need for structural interventions.

Little technical activities after initial configuration

Endian solutions for schools are designed to require minimal technical input after the configuration phase: in principle, once they are installed and verified to be working, technical intervention will only be required to fulfill specific policy requirements. Endian offers a system that "simply works," without headaches.

Complete all-in-one package: equipment and support

Since the deployment and routine maintenance of equipment are two particularly critical points for schools, especially from the point of view of contract management, Endian makes an all inclusive package offer dedicated to schools, capable of providing equipment and support service for the duration of the contracted supply.

How Endian meets the requirements of School needs

How it is necessary to comply with the needs for a "Common safety, welfare, and privacy requirements must be guaranteed for both in-presence and digital learning environments, including the provision of specific educational actions about the risks related to the misuse of technologies."

Endian products and services enable schools to meet all these requirements through simple and effective implementations, accompanied by dedicated service and operational support for installation technicians.