




## Protecting your physical access control system: Nedap's new end-to-end security solution

### Technical Specification

Make	Nedap AEOS	
Company	Nedap Security Management	
Model code	AEOS 3.2 	
Additional info	<p>Nedap's <del>new</del> end-to-end security solution is the first to offer digital protection for access control by unifying best practices from both IT and physical security. Nedap has applied the digital security principles used in IT to AEOS, Nedap's physical access control system.</p> <p>AEOS end-to-end security solution is available in  <del>AEOS 3.2.1</del>.</p>	

### Product profile


~~Exhibiting at IFSEC, stand F420~~



Nedap's new end-to-end security solution is the first to offer digital protection for access control by unifying best practices from both IT and physical security.

## **Protecting access control systems**

Until now, the latest best practices protecting IT systems from digital threat haven't been used for physical access control systems. This is an oversight that is leaving many companies vulnerable to cyber attacks. Nedap and AET Europe have worked together to overcome this by developing AEOS end-to-end security. Taking a forward-thinking new approach, they have combined the best practices of both IT and physical security in an all-in-one access control system.

~~Albert Dercksen, Head of R&D at Nedap,~~  explains why AEOS end-to-end security is needed: "IT and physical security have been following different rules to protect systems. But modern access control systems are, in fact, IT systems connected to corporate networks and should be treated as such. That's why we've applied the digital security principles used in IT to AEOS, our physical access control system."

## **Communication secured from end-to-end**

In AEOS end-to-end security, Nedap and AET Europe have combined the IT principles of encryption and strong authentication. This ensures storage in every element of AEOS is secure, as is communication between all elements.

Both DESFire keys and digital certificates are stored in a Secure Access Module (SAM) inside door controllers. This leaves card readers with no role in decrypting data, so secure communication between card and controller is guaranteed and, by storing digital certificates in the same SAM, strong authentication is achieved to ensure secure communication between controller and server.

## **Protect critical infrastructure**

In this way, AEOS end-to-end security offers far higher protection against both physical and digital threats. It also enables keys to be updated securely and centrally, without having to physically attend each card reader.

AEOS end-to-end security meets a stringent level of security requirements across Europe, and is already being used to protect critical infrastructures in several countries. In France, for example, it has gained CSPN certification from the French information security agency, ANSSI.