

Access Control

Compliance guaranteed, whatever changes.



Introducing AEOS Access Control

Your company needs to define a security policy based on a risk assessment and compliance regulations, and the defined policy needs to accommodate potential changes in the future. This brochure explains how AEOS Access Control enables you to comply with rules and regulations in the ever-changing world of security.

When policies vary, adapt easily

In the security world, change is the only constant factor. No other solution is able to cope with compliance regulations, security threats and trends like AEOS does. AEOS is more than a solution for access control; it offers a unique architecture that is extendable and adaptable in every way. Unlike many other security management products, AEOS is a commercial off-the-shelf platform that is based on open standards and is highly configurable and customisable.

Moreover, AEOS has a unique software-based approach. This means you can change your system's functionality and security levels using software alone, making it easier and more cost-effective to adapt to changing rules and regulations.

Increase automation, improve security

Your security policy consists of both technical measures and procedures, and work instructions for security staff. Procedures are enforced through AEOS's unique functionalities, and its user friendliness ensures security staff are motivated to comply. Specific tasks are automated and accountability is registered. This, ultimately, increases your organisation's security levels.

Operating AEOS

AEOS offers a web-based application that is tailored to users' specific needs. The AEOS configuration application allows you to amend your security policy easily. Staff working with the system will comply more closely with your security policy as the application supports them in their daily work. AEOS is also so intuitive people need little training and are much more efficient in completing tasks.



Tailor profiles

AEOS was designed following analysis of the various types of employees who use it: the receptionist, security guard, security manager and system administrator. There are different, highly customisable profiles for these different users of the system.

Restrict user permissions

You can ensure that each user only has access to the tasks and data needed to do their job. You can, for example, set which areas of the building specific users can monitor.

Increase efficiency

Each profile supports the tasks needed by that particular user, which helps to increase efficiency and reduces the temptation to skip procedures that would be complex or time consuming on other systems. Usability is further improved by applying principles that enable users to stay on the page, reduce the number of clicks, take context-sensitive actions and avoid unnecessary searches.

Automate processes

Many processes in AEOS are automated to ensure compliance, even in emergency situations. You can define and set how staff must respond to events. Or you can predefine security levels, which can be implemented immediately after an event occurs, for example.

System administration

AEOS gives you the freedom to configure and adapt your system so policies are always met. You can determine who can manage which elements of the system, and track the tasks they perform. Moreover, by using mandatory fields, AEOS enforces specific procedures such as enrolments being completed in full. Or you can define automatic responses so events are followed up appropriately.

Define permissions

You can assign profiles to each user's role, such as a receptionist or security guard, and define specific tasks and settings for each role. Filters define which functions and fields each user can see and edit. You can also restrict monitoring permissions to certain parts of the building, and control the areas for which a user can assign authorisations.

Control login

AEOS will conform to your company's existing authentication infrastructure. It supports login through, for example, LDAP and the active directory. AEOS also allows you to select specific workstations that users can log on from, and enables you to restrict permissions for these workstations.

Optimise workflow

AEOS provides insight on all operations performed in the system. This helps you to optimise the workflow for users by configuring AEOS to make the most frequent tasks easily accessible.

Predefine responses

AEOS enables you to predefine responses to specific user actions. Users can be blocked from the system if they assign authorisations that conflict with your policy, for example. Or an email or SMS can be sent to badge holders if a replacement badge is issued in their name.

Capture data

You can define mandatory fields when a new employee or visitor is enrolled into the system. You can also add free fields to capture data specific to your company, such as a mandatory corporate ID.

Update information

AEOS can be configured to inform employees and contractors when their personal data expires, helping to ensure all data stays up-to-date. If someone's picture needs to be updated every two years, AEOS notifies you and can automatically send them a text message when their picture expires.

Authorisation management

AEOS ensures the authorisations you set for people always match your security policy by offering a unique stratification in authorisation management. AEOS allows you to define authorisation templates, which determine the times and days of the week when access is granted and for which entrances. Templates can be assigned to groups of people so you don't need to create access profiles for each individual. When someone requires access to additional rooms, for example, you can add individual entrances to their profile. This ability to combine templates with individual entrances or entrance groups and time schedules offers outstanding freedom to align fine-grained authorisations with your security policy.



Build templates

Templates predefine both when and where access is granted, by combining day/time schedules with entrances or entrance groups. They can be assigned to many different people, so authorisations can be set for an entire department at once.

Create exceptions

You can deal with exceptions to templates by assigning or withdrawing individual entrances for a specific person in relation to a specified time schedule.

Automate authorisations

AEOS can assign and manage authorisations automatically by applying rules, which you can define based on selected characteristics and corresponding authorisations. When someone's personal data matches a rule, their authorisations are set or changed accordingly. If someone moves to a different department, for example, their access rights to specific rooms will change automatically.

Schedule access

You can determine when specific areas in your building can be accessed by setting time schedules in AEOS. These schedules can apply to everyone or specific people only. Moreover, during holidays you can control access for specific people and for selected buildings and areas.

Set emergency responses

AEOS allows you to predefine different security scenarios and corresponding actions, so you can respond quickly in emergencies by switching to a different security level. If need be, for example, you can restrict access so only safety personnel can enter.

Update authorisations

When you need to change authorisations for several people at once, you can change the templates so authorisations update automatically for anyone with that template. If you have created rules to determine authorisation profiles, the authorisations will change automatically if either the rule or a person's data changes.

Automate expiry

Authorisations can be set for a specific time period after which they expire automatically. So you can be assured that authorisations stay up-to-date without your system getting cluttered.

Add extra rules

To help you meet your security policy easily, AEOS enables you to implement additional access rules such as the four-eye-principal, anti pass back or visitation for specific doors.

Lifecycle management

A key benefit of the AEOS platform is the way it takes care of lifecycle management, which relates to the registration, updating and deactivation of cards. In AEOS, authorisations are assigned to people instead of cards. This stops people with several cards accruing numerous profiles, and prevents your system getting cluttered. It enables you to link multiple types of identification to each person so that, when their authorisations change, the changes apply to all types of identification at once. Efficiency in the enrolment process is improved as AEOS links to multiple devices, including biometric enrolment devices, passport scanners, badge readers and webcams.

Manage identity groups

Most companies have specific policies for employees, visitors, contractors and vehicles, so relevant data needs to be captured for each group. As these groups are often managed by different parts of the organisation, AEOS manages identity groups separately using different forms and defaults.

Automate data entry

AEOS can fill fields automatically from your Facility Management or HR system when enrolling new people, and connecting a passport reader enables automatic upload of passport data.

Register biometric data

You can connect a biometrics enrolment station to ensure a person's fingerprint, or other biometric identification template, is added to their authorisation profile automatically.

Scan badge numbers

A USB desktop reader can be connected to AEOS, allowing badge numbers to be entered automatically when badges are scanned.

Print badges quickly

When all authorisations are assigned and a badge-printing device is connected, badges can be printed immediately from AEOS.

Replace cards easily

As authorisations are linked to the person rather than their card, it is easy to replace badges. If someone loses their badge, a new one can be activated and the lost one deactivated without having to assign new authorisations.

Block access automatically

All access is denied when blocking someone from the system. You can also set AEOS to block access automatically if someone has not entered your premises for a set period of time. This increases security in case a badge is lost, for example. Blocking access can also be automated by setting an expiry date for people with temporary contracts.

Send expiry warnings

When authorisations are set to expire on a specific date, AEOS can send an email or SMS to notify the person that their authorisations are due to expire.

Manage violations & blacklists

You can record policy violations and set corresponding sanctions in AEOS. Ultimately, a person can be blacklisted and a new badge can only be granted for them after they have been removed from the blacklist.



Monitoring and control

The possibilities for monitoring and control are abundant in AEOS and can serve many purposes. AEOS gives real-time feedback on your system's security state, for example if doors are open too long or there are technical defects. It also allows you to take control via manual or automatic reactions to events, such as enforcing how alarm situations are handled using predefined instructions. This helps to ensure that all AEOS users comply with your policies. AEOS helps to monitor and control aspects such as people flow and presence too. All of these factors contribute to a more effective management of your company.



Monitor events

Events can be monitored in a graphical alarm handler, photo event monitor or text event monitor. The graphical alarm handler provides floor plans, which visualise the building's security status and facilitate actions such as opening doors remotely.

Handle alarms

To enforce uniform handling, you can predefine instructions for how to respond to specific events. Alarms are automatically escalated to all system users when they are not responded to within a certain time.

Automate responses

You can set AEOS to react automatically to specific events. The detection of an unauthorised badge can trigger a camera to turn, for example, and an attempt to tamper authorisations can send a text message to notify key people.

Manage guard tours

AEOS Guard Tour ensures you can track guards on their tours. You can monitor their progress when performing actions at checkpoints and an alarm will be raised if irregularities occur.

Audit operations

AEOS provides an audit trail of all operations performed in the system, including the issuing of replacement badges and the way in which events are followed up. You will gain insight into all tasks executed in the system and who was accountable for them, including an exact time stamp.

Monitor the system

AEOS allows you to monitor the status of your system and network architecture, so you are aware if parts of the system stop working due to technical defects or network problems. You will be notified automatically via email or SMS if a malfunction occurs.

Check presence

A search engine and multiple filter options allow you to monitor whether specific people are present and in which part of the building. A list of everyone in the building can be generated instantly, if there is an emergency for example.

Control occupancy

AEOS counts the people accessing and leaving an area, allowing you to control the number of people that can be present there at any one time. Access will be blocked once the maximum number is reached, and a warning event can be generated in advance.

Set presence time

When you have set the maximum time someone may be present in a specific area of the building, an event will be triggered if they exceed the time limit.

Restrict movements

You can monitor and control the maximum number of movements a person can make within a specific area by setting the number of times they can re-enter a zone. An alarm is triggered when the number is exceeded, or AEOS can block access automatically.

Diagnosis and investigation

AEOS provides information that can be used to improve security and business processes and execute forensic research. AEOS's reporting functionality can provide you with insight on alarms that occurred, irregularities in people flow and operations executed by staff. You can define reports to suit your specific needs, but AEOS also offers a variety of reports as standard.



Analyse people flow

AEOS offers an overview of everyone coming in and out around the clock, divided into employees, visitors, contractors and vehicles. This allows you to analyse people flow and the use of buildings and parking places.

Assess authorisations

AEOS shows the areas each person is authorised to use and whether they have accessed them during a specific period. This information can indicate that someone has too many authorisations, and can be used when revising authorisations.

Manage badges

Badge reports provide information such as the number of badges in total and how many replacement badges were provided. This helps to prevent your system getting cluttered and offers other practical benefits such as alerting you when new badges need to be ordered.

Monitor doors

Reporting provides insight into occurrences at selected doors, allowing you to take measures to improve security. It shows, for example, when unauthorised badges were presented, the direction people walk in and whether a door has been open too long.

Investigate forensically

AEOS's reporting ability also helps you to investigate events. An event log shows which events occurred, where and when. Following that, an audit trail shows which alarms were followed up by which user, and whether they followed procedure.

AEOS and your IT infrastructure

AEOS offers you freedom of choice, even beyond access control, and provides a wide range of integration capabilities. Whether AEOS is used for access control or for a combination of other solutions, it is often integrated into a company's IT infrastructure with business processes such as identity management and network monitoring.

Import data

AEOS links to third party databases so you can use one source of information and on board employees and contractors more efficiently. You can import data automatically and authorisations will change once a person's data changes in the database.

Export data

Third party systems can retrieve data from AEOS. This includes personal data, means of identification and verification, authorisations and rules such as day or time schedules, entrances and authorisation templates.

Export events

AEOS allows you to define and filter events that will be exported from the AEOS database. The exported data can be used by third party systems, such as PSIM and time and attendance systems.

Connect services

AEOS helps you to improve convenience for employees, visitors and contractors by integrating with other services. You can, for example, link AEOS to room booking systems. So, once a room is booked in that system, authorisations for the room are automatically sent to AEOS.

AEOS and your physical access environment

AEOS was built on open standards, ensuring you can integrate AEOS with a wide range of third party solutions. This offers you the freedom to select the measures that best match your security policy. It also allows you to integrate your organisation's legacy systems. Not only can AEOS be used with any type of bus structure, it also offers integration with the industry's major access control products.

Card readers

We supply Nedap card readers, but AEOS also supports integration with virtually any card reader in the security industry, allowing you to deal with legacy or select the brand and type that match your budget and security policy.

Online & offline locks

AEOS can handle third party locks, including offline, online, wired and wireless. This allows you to manage the access rights for various brands and types of locks in a single application.

Biometric systems

AEOS integrates with the security industry's major biometric systems, offering enrolment and verification as well as storage and data backup. AEOS takes data from third party devices, such as fingerprint readers, transforms it to badge data and sends it to AEOS, which treats it as a normal badge.

Lockers

AEOS ensures you can apply access control to your organisation's lockers and cabinets. This allows you to set authorisations so employees can use a single card to access lockable compartments as well as buildings.

Key cabinets

AEOS shows the status of taken and returned keys, including the names of the people keys were issued to. If a key is not returned, AEOS can block the person's exit from the building.

Controllers

We develop our own controllers. To offer you freedom of choice, however, and allow you to use your existing infrastructure to its fullest capacity, AEOS can integrate with other third party controllers. This allows you to leverage your investments while making use of AEOS functionality.

Harness the power of AEOS

We have it covered

When it comes to access control, AEOS has set the bar for the industry. Its wide-ranging functionality, unique architecture, and the ease with which it allows authorisations to be managed, really set it apart. What's more, you can add built-in intrusion detection and video management functionality, and integrations with best of breed third party products, making AEOS a powerful security management platform.

A people-first approach

We have been making life easier for people for almost a century. It was 1929 when Nedap sprang into action, and today we have 750 people working with us across the world. Our experience in access control stretches back 35 years, and led to us developing AEOS, the first software-based security management system. At our headquarters in the Netherlands, we focus first on people and the challenges they face. Then we apply the latest technologies to solve their problems in new ways with products that are relevant, elegant and very user-friendly.

Why not get in touch to discuss the challenges you are facing? We're here to help.