



# BOSCH

Intrusion Alarm Systems  
Access Control Systems



## Building Integration System

Your platform for customized  
security and safety management

# One platform for everything

Efficient building management is becoming not only more important, but also a more complex challenge. Nowadays organizations use multiple systems to monitor and control their buildings, ranging from fire and intrusion alarm to access control, video surveillance and building automation systems.



# Complete solution for integrated building management

No matter how comprehensive and complex your building management requirements are, the BIS responds flexibly and is also easy to use. The Building Integration System combines a number of technical systems: fire and intrusion alarm, video monitoring, access control and evacuation systems. All on one modular platform.

## Efficient but simple

Monitoring, control, administration and maintenance of all these systems can be a huge challenge because individual systems only serve individual purposes. To completely secure and manage a building, you need a number of functions – and if you want them all, they have to run alongside each other. This approach is not only inefficient, unreliable and expensive, but also difficult to upgrade when your requirements change.

## A single system – but still flexible

This is where the Building Integration System (BIS) comes in. The idea is one solution that offers everything – combining different building management functions on one platform, and providing simple responses to difficult questions. But because every organization has unique building management requirements, the Building Integration System is modular. This means that, like with building blocks, you can add or remove single elements or create new combinations, which gives you maximum flexibility. This guarantees that you get the solution you need.

## A modular system for greater flexibility

To perform optimally, a building management system must suit your particular needs. But even more important: a good system should be able to cope with later changes. What you need today may turn out to be too little further down the road. And who wants to buy a whole new system just because the requirements have changed? This is why the Building Integration System is modular: different high-performance modules (engines) share a single platform and can be flexibly combined.

### Automation Engine:

Control and monitoring of intrusion and fire alarm systems, public address and any OPC-compliant third party device, such as building automation

### Video Engine:

Visual alarm verification and recording using Bosch or third party video systems



Automation Engine, Video Engine and Access Management System: combined to create a high-performance building management system.



# Building management with maximum benefits

## An optimal overview for maximum safety

It's only possible to protect something you can see. That's why the Building Integration System offers a complete overview of your organization with all subsystems, right down to showing the status of individual detectors. This is a major prerequisite for promptly and appropriately responding to dangerous situations.

## High scalability

The Building Integration System is a highly scalable solution that meets even the most demanding requirements. This makes the system the ideal solution even for very large applications such as airports or metro stations. For globally operating enterprises, a system consisting of multiple servers can be designed.

## Open standards for no-problem cooperation

The Building Integration System works exclusively with tested open global IT standards such as Classic OPC and OPC UA, AutoCAD, HTML5, SQL and Windows - which makes it easy to integrate both third party security and building management systems.

This results in numerous synergies and optimal service. It doesn't require much to train future users. Your return on previous investments is extended and your future options remain open. Plus, you have a security management system that is not only extraordinarily efficient but is also compatible with existing structures down to the last detail.

## Intelligent alarm management for appropriate reactions

In the event of danger, the system displays alarms based on location maps and other alarm documentation. Animated detector symbols and audible signals immediately indicate the source of the alarm. You can also define escalation scenarios to ensure immediate and appropriate responses.



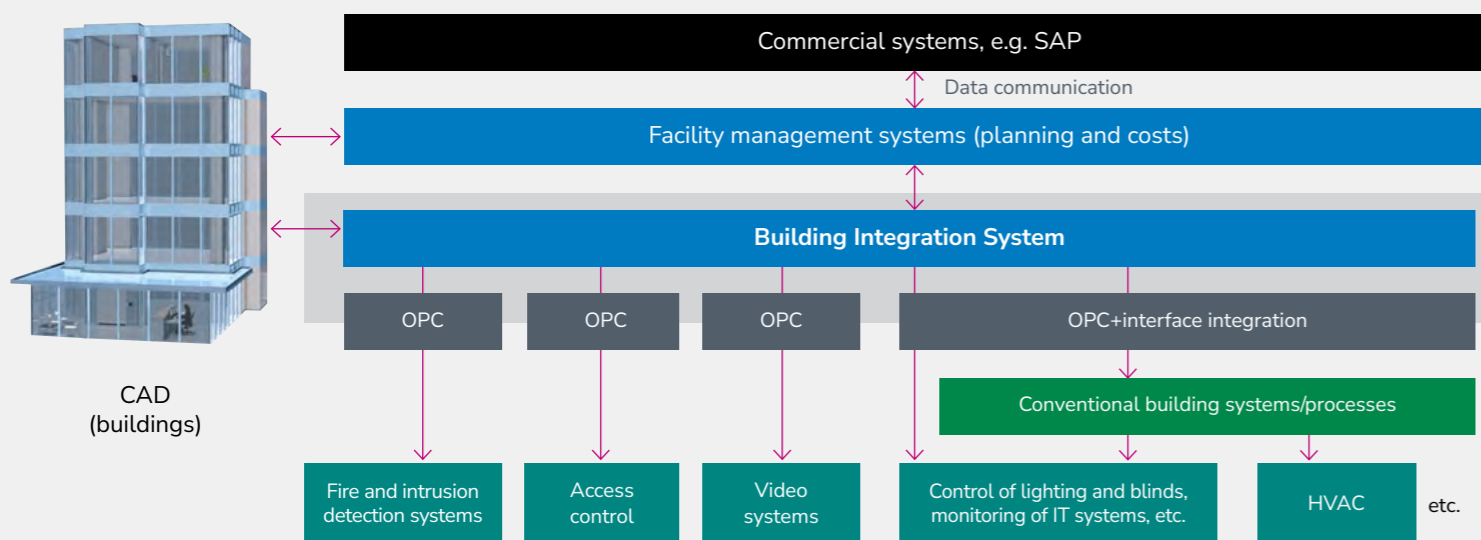
## Easy data integration for increased efficiency

Preexisting CAD data can be integrated without having to convert split diagrams. Subsystem configurations as well as personnel data from an HR or time management system can be directly imported - there's no need to reenter them in the Building Integration System. And because the system is OPC-compliant it interfaces with a range of standard field buses such as DALI, KNX, Modbus and BACnet.

## Seamless documentation for retrospective security

All events and operator activities are securely recorded in a logbook that prevents post-event changes. This protects data from manipulation. Moreover, all configuration changes can be logged to achieve highest compliance with any regulation or standard. The logbook is both easy to use and flexible, due to advanced filter functions and the ability to export data in standard CSV format.

Overview of the Building Integration System



# The Automation Engine

The efficient tool for comprehensive property security and monitoring of building automation systems



The larger the property, the more complex monitoring and control operations become. Simple building management systems are therefore essential for efficiently organizing these tasks.

The Automation Engine enables central management of both Bosch and third party fire and intrusion detection systems, all on one platform. In addition, this module

monitors automation systems for failure and can trigger automatically appropriate audio messages, e.g. for evacuation.

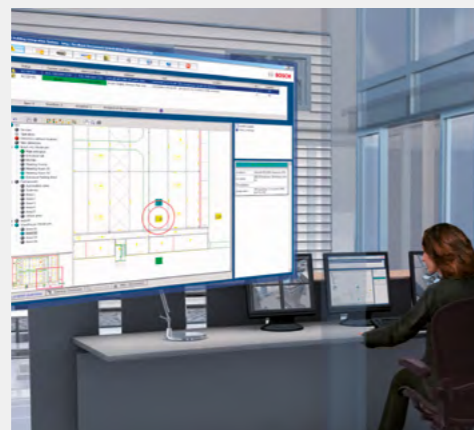
Location maps and alarm documentation provide detailed information and action plans (i.e. standard operating procedures).

And user-friendly operation translates into immediate and effective alarm management.

## Act faster, help sooner

When it really matters, every second counts. With the Automation Engine the operator knows immediately what to do because all the required information is provided in realtime on his screen. The corresponding alarm documentation is centrally stored and precisely tailored for its intended purpose, also including workflows and location plans with animated alarm symbols.

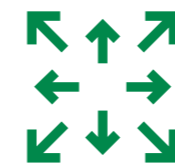
For even greater efficiency, certain alarms or events can be assigned to specific user groups, thus enabling the system to manage different events concurrently.



# Access Management System

Access control is an essential component of building security. You need a truly reliable software to manage the access profiles of different users of your facility. Starting from BIS 6.0 onwards, access management is no longer available through a component (Access Engine). Instead, this release marks a significant step in the integration of BIS with our specialized access control management software; Access Management System (AMS).

AMS is a future-proof access management system for medium to large-sized applications. It is easy to use, operate and expand. It offers the highest data security and several features found only in high-end security solutions.



## Flexible and scalable

Our access control solution can easily grow with the needs of the customer. It offers a large range of cardholders and doors enabling an easy upgrade when your organization grows. Up to 400.000 cardholders and up to 10.000 doors can be administered in the largest bundle. This outstanding scalability makes the software a truly future-proof investment.



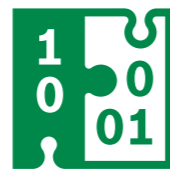
## Easy to use

Onboarding is straightforward: enrollment and assignment of access rights are all implemented in one dialog manager, even the registration of biometric data, for instance facial recognition. The data of several thousand cardholders held in legacy or HR systems can also be quickly imported with just a few clicks, thanks to the importer / exporter tool. The possibility to create access profiles with a certain scope of access privileges makes the assignment of authorizations simple, as it is not necessary to assign every single authorization to the cardholder but just one pre-defined role profile. To facilitate easy selection of available readers and controllers from the Bosch product catalogue, they are displayed with product photo and CTN number in the device configuration.



## High data security

Bosch applies the highest standards with regard to data security and (GDPR compliant) privacy protection. To protect against cybercrime and the loss of personal data, all communication is encrypted at all stages. Our access control software also has trusted digital certificates for mutual authentication between server and client and uses secure design principles such as 'secure-by-default' and 'principle of least privilege'. Your data is definitely safe with the industry-leading Bosch products.

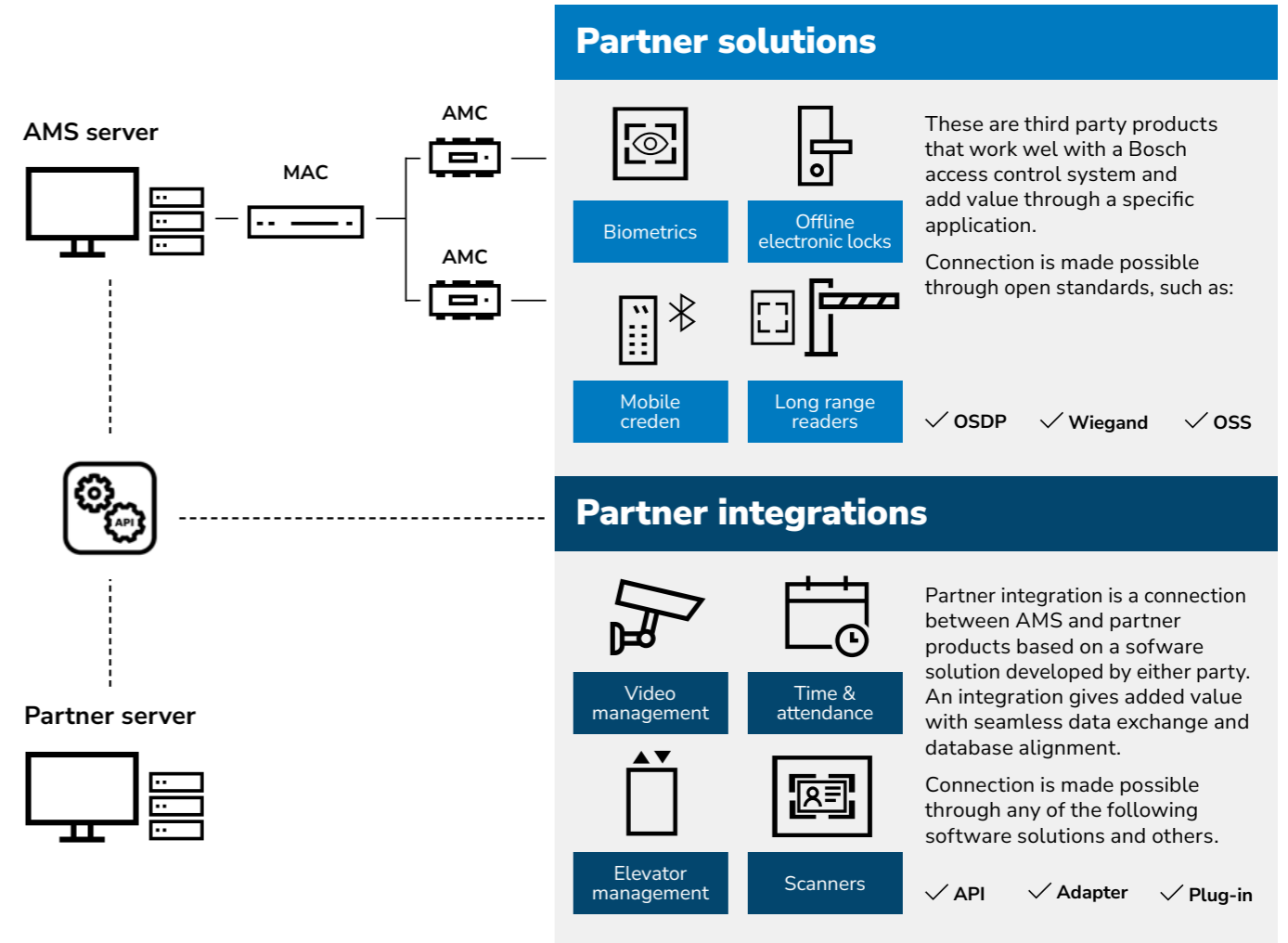


## Open for integration

Flexibility and openness are very important to us. We designed our system to offer full integration functionality, while remaining as reliable and safe as you are used to. The Access Control API is available to allow third party developers to design applications. This way you can offer much faster complete solutions to your customers.

# Third party integrations

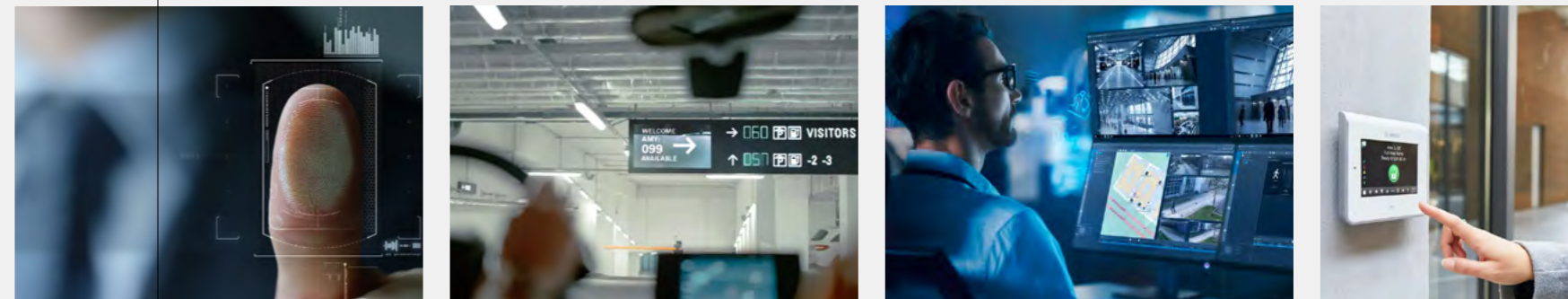
Integration of third party hardware and software for enhanced functionalities



[keenfinity-group.com/access-integration](https://keenfinity-group.com/access-integration)

### Integration examples

- Video management
- Intrusion alarm management
- Facility management (mobile apps)
- Identity management (workflow based)
- Visitor and supplier management
- Guard tour management
- Safety and personnel protection
- Time and attendance management
- Mobile and biometric reader integration
- Parking and occupancy management



# The Building Integration System in practice

The Building Integration System offers a suitable solution for every requirement and is correspondingly versatile. The examples here are only some of the areas in which the system is now being used with success:



## Commercial applications:

- Banks
- Office buildings
- Exhibition halls and conference centers
- Medical complexes
- Shopping malls and retail chains
- Server rooms

## Industrial applications:

- Automotive industry
- Chemical industry
- Energy distribution
- Power plants
- Electronics manufacturer

## Government and public institutions:

- Correctional facilities
- Government offices
- Museums
- University campuses
- Military sites

## Transportation and logistics:

- Airports
- Train stations
- Warehouses and shipping facilities

## Typical applications for the Building Integration System:

- Fire monitoring and alarms, with evacuation management including monitoring of escape routes and announcements
- Intrusion detection and alarms, with live video surveillance and analysis of archived footage
- Video monitoring with video-motion detection and central AutoDome control
- Access control for normal and high-security areas
- Parking lot management
- Door management with intercom, video monitoring and access control
- Elevator control with management of floor access privileges
- Perimeter fence or wall monitoring with video surveillance
- Guard tour system with corresponding alarm functionality
- Failure monitoring for vital systems and equipment
- Light and blind control in connection with access control



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