

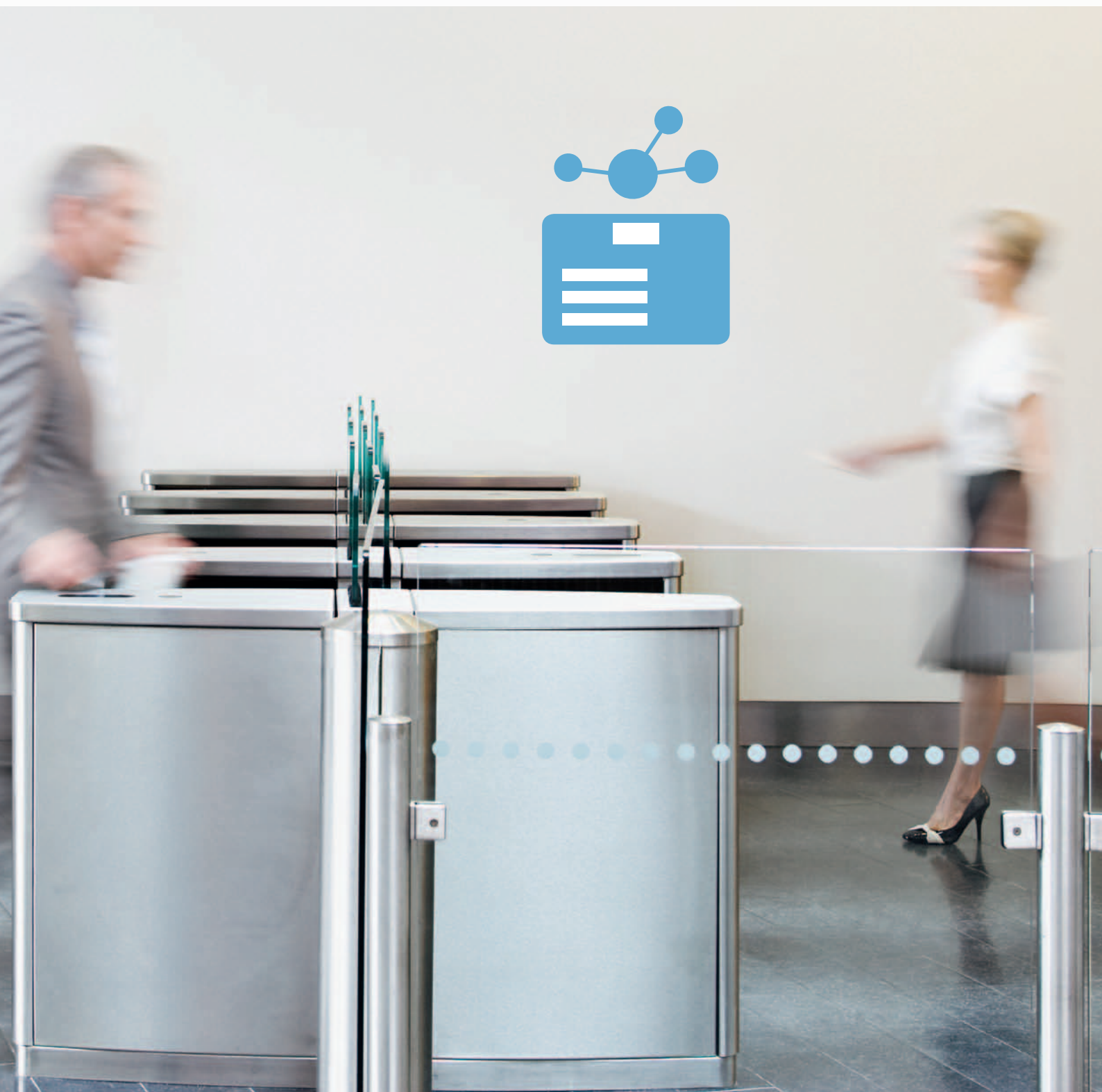
Access Control Systems

Maximize openness, availability and scalability



BOSCH

Invented for life



Access Control Systems by Bosch – your choice for a reliable security solution

Access Control is a key pillar of today’s security. The growing need to control access to buildings and areas, more flexible working time models and the limitations of mechanical locks make a modern and reliable access control system indispensable. Bosch offers complete, reliable and scalable access control solutions for any medium to large sized application.

Why is Access Control so important?



Unlocked doors in a prison can lead to severe problems







Locked doors in case of an emergency can have terrible consequences



Locked doors in a company can disrupt employees' access to the building and hamper business operations

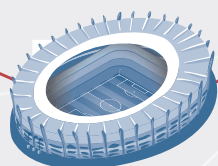
Basics of an Access Control System – get an overview of the relevant components

	Operation	Decision	Interface	Identification
				
	Server/Client	Controller	Reader	Credential
Function:	System operation, configuration and data-base management	Interface between server and reader to grant/deny access	Transfer credential information to controller	Provision of users' access rights
Our products:	Access Professional Edition, BIS Access Engine	Access Modular Controller	Comprehensive variety of readers	Wide range of cards and key-fobs

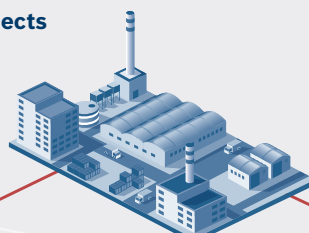
The perfect access control solution for large to medium sized projects



Airports



Stadiums



Factories



Office / Commercial Buildings

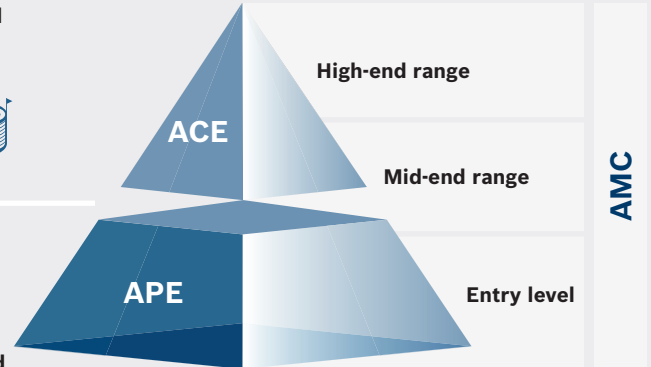
Our Access Control Solutions

- ▶ BIS Access Engine (ACE) is an ideal access control solution for high-end projects, such as airports or stadiums, that can also be used in medium sized applications
- ▶ For mid-end projects, we offer the Access Professional Edition (APE), which can also be used in the entry-level
- ▶ Both software products, ACE and APE use our Access Modular Controller (AMC)

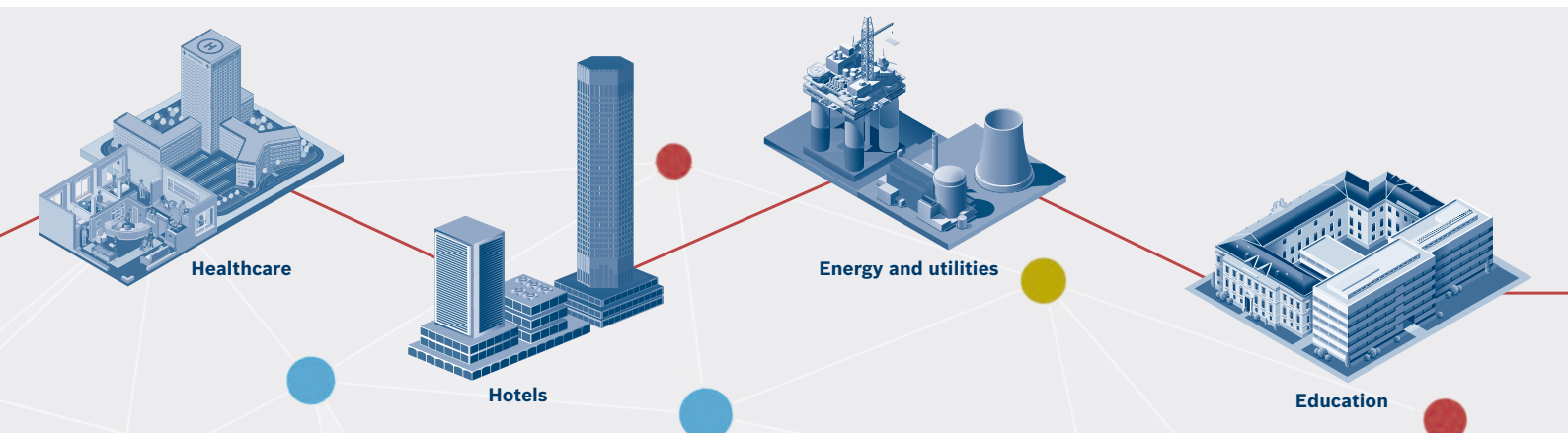
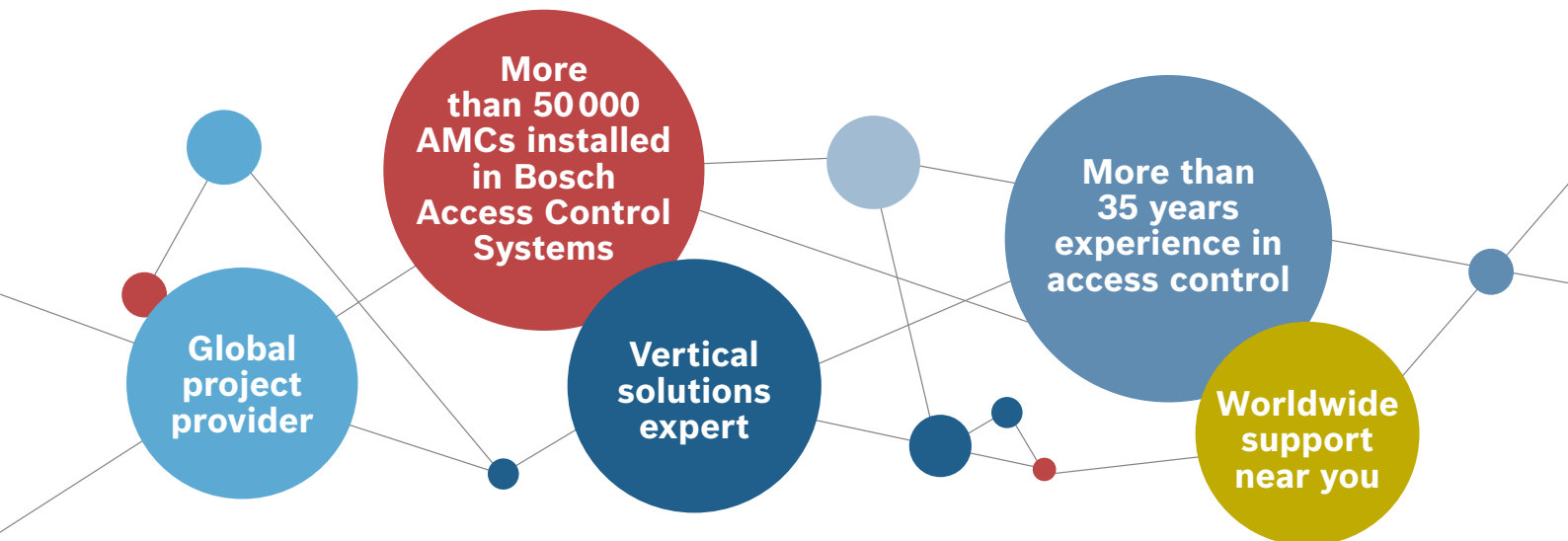
Medium to large sized access solutions



Small to medium sized access solutions



We are **experts in the security industry** and have proven our competence in many projects



Access Professional Edition

Access control software designed for medium sized projects

The Access Professional Edition (APE) is an easy-to-use, scalable software for small and medium sized enterprises with high security requirements. It administers up to 10000 cardholders, 512 readers, 16 workplace clients and 128 cameras. The modular system is flexible and grows with your needs. It can be integrated with a broad range of access and security functions, including video, intrusion and elevator management. The support of Open Supervised Device Protocol (OSDP) allows for a bidirectional encrypted communication between reader and controller, enhancing data security.

BIS Access Engine

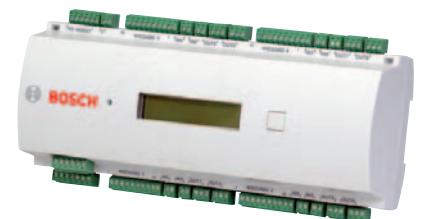
Access control software designed for large sized projects

The Access Engine (ACE) of the Building Integration System (BIS) is a scalable software for large and complex projects and satisfies even the most demanding security needs. It administers from 200 to 400000 cardholders, up to 120 AMCs per Master Access Controller (MAC) and up to 10000 doors. Furthermore, the system supports crucial features such as guard tours, random screening, elevator management or evacuation lists. Its ability to integrate third-party devices such as signature scanners or video management systems allows you to fully integrate your access control with other security, safety and building management systems. Thanks to its modularity and scalability, it allows you to systematically build the right solution to meet all your security needs. The support of Open Supervised Device Protocol (OSDP) allows for a bidirectional encrypted communication between reader and controller, enhancing data security.

Access Modular Controller

Access control hardware application designed for medium to large sized projects

The Access Modular Controller (AMC) is an intelligent access manager for 1 to 8 readers which stores locally up to 200000 cardholders. It is the perfect controller element for BIS ACE and APE as it has been designed specifically to work with these two systems. Thanks to the support of both RS485 and Wiegand technology, it is suitable for many different readers. The AMC has a storage capacity of 2GB and is able to carry out independent authorization checks on access points, take access decisions, control closing/opening elements and register movement events even when the unit is offline.





Effective security

High level security thanks to facilities such as badge enrollment, entrance control monitoring or alarm management with video verification



Integration and openness

Possibility of a complete security solution through integration with other devices such as security and elevator management. Thanks to SDK, OSDP and OPC third-party functionalities can be integrated too



Future-proof investment

Possibility to start with APE and switch to a more powerful BIS ACE solution, using the same hardware components



Highest resilience

An additional third layer of security – Master Access Controller – between the workstation and the controllers ensures that the controllers still communicate with each other even if the workstation fails



Multiple applications

A comprehensive system with many features such as car park management, visitor management or guard tours



Future-proof investment

The connection of 32 to 10 000 doors allows for high scalability. Regular software updates ensure that the system keeps up with the latest IT advanced speed



Speed of installation

The modular concept makes system planning and stocking very easy and the service display allows for quick trouble shooting and system maintenance. Thanks to the fast and reliable Ethernet host interface, cardholder updates are realized within seconds



Reliability

The AMC is continuously working thanks to its offline capability and supervised battery extensions. To not lose any data, the event buffer memory stores up to 2 million offline events



Future-proof investment

Fit for growth and for technology change, thanks to the modular design

Readers & Cards

Comprehensive portfolio of readers and cards

Bosch offers a wide range of readers and cards, from full-featured high-end to inexpensive entry-level. Most of the models are available with or without keypad, or as biometric versions. To make sure that the portfolio fits your needs also technology-wise, both Wiegand and RS-485 are supported. Just choose the option which matches your requirements best.

Mifare classic and EV1



- ▶ High security level
- ▶ Most common standard in Europe
- ▶ Open standard, thus compatible with a broad range of readers in different designs
- ▶ Wiegand and OSDP/RS485 panel interface available
- ▶ Fingerprint readers available

iClass and iClass SE



- ▶ High security level
- ▶ Most common standard in the US
- ▶ Wiegand and OSDP/RS485 panel interface available
- ▶ Fingerprint readers available

EM and HID Prox



- ▶ Entry-level pricing
- ▶ Easy to install and handle
- ▶ Fingerprint readers available

Integration with third-party devices

Through our Integration Partner Program (IPP) we ensure that Bosch access control solutions are compatible with third-party products to provide end-to-end solutions.

Do you want to learn more about our integrations with third-party devices?
Get to know our Integration Partner Program!



Access Control Systems by Bosch

– the system that grows with your needs

The Bosch access control components offer you a perfectly flexible system for medium to large sized projects. Thanks to the scalability of the hardware components – Access Modular Controllers, readers and credentials – the systems grows according to your security needs. Start out with the APE software for medium sized projects and switch later to ACE when your security requirements grow – the hardware stays the same.



A Tradition of Quality and Innovation

For over 125 years, the Bosch name stands for quality and reliability. Bosch is the global supplier of choice for innovative technology, backed by the highest standards for service and support.



Bosch Security Systems proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.

Bosch Security Systems

To learn more about our product offering, please visit www.boschsecurity.com

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