

## **IMPLEMENTATION EXAMPLE WITH TOPOLOGY**

Intelligent, scalable IP access control -  
Ingeniously simple in function and operation

Kentix ist Mitglied im

**BSKI** 

Bundesverband für den Schutz  
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# Intelligent, scalable IP access control - Ingeniously simple in function and operation

## The requirement

*Access control in companies and organisations faces a variety of challenges. On the one hand, an appropriate level of protection must be established in the area of access management in accordance with legal and organisational requirements; on the other hand, efficient and resource-saving operation of the locking system, including the entire authorisation management, is essential.*

*In order to meet these challenges, controlled electronic access via RFID transponder and/or PIN code, including real-time documentation of access and door status, must be established.*

## The Kentix system solution

Access control is handled by the Kentix online IP access control system, in which each individual locking point is always online and is managed centrally in real time, e.g. via a web front.

IP wall readers with RFID and PIN code readers are used at the electromechanical access points (doors, gates, barriers, etc.), two of which are connected to a SmartRelay module. The SmartRelay module provides the power from its integrated PoE splitter that is required to open a lock in the event of an authorized booking. In addition, door contacts are connected to the SmartRelay module, which permanently monitor the status of the doors.

Doors into and in the building are equipped with the Kentix radio knob or the Kentix radio door handle, depending on the application. The radio locking units are connected via the Kentix AccessManager. Unlimited networking Access Manager and SmartRelay modules makes the system freely scalable across

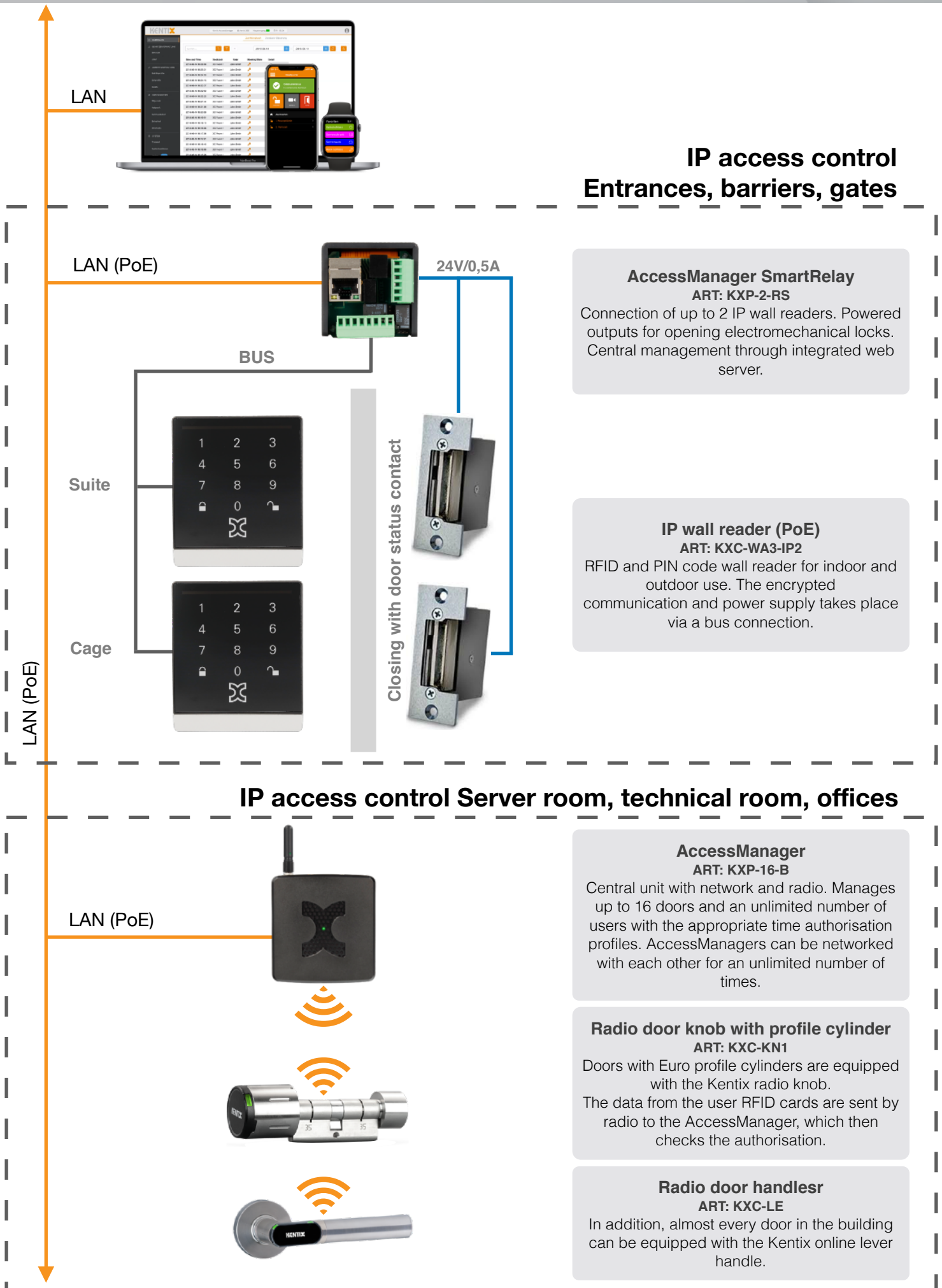
*The management of the entire system and all authorisations should be as automated as possible from a central location. All system statuses (open doors, etc.) should be clearly monitored in a dashboard from any location and undesired statuses should be alarmed.*

*Installation and operation should be cost-efficient and simple. Open interfaces should enable easy integration into third-party systems. Free scalability, modularity and cost-effective, simple maintenance must be part of the solution concept.*

locations. Alarm zones can be armed and disarmed by authorized persons at any access point, including checking for forced movement.

Via an integrated web server application and/or open interfaces (LDAP, ReST-API etc.), the system can be managed automatically from a central location in real time and authorizations can be granted or revoked. Furthermore, the system documents or, if necessary, alerts who has gained access, when and where. Remote opening of doors is also possible through the integrated software.

The simple, modern and resource-saving operation is realised by the KentixOS. The KentixOS is the integrated, freely scalable and modular IoT software platform that, in addition to the web front ends, provides open interfaces for easy integration into third-party systems (ReST-API, WebHooks, SNMP, LDAP, etc.). At the same time, the KentixOS is the basis for further AI analyses and visualiations.



## IP access control Entrances, barriers, gates

### AccessManager SmartRelay

ART: KXP-2-RS

Connection of up to 2 IP wall readers. Powered outputs for opening electromechanical locks. Central management through integrated web server.

### IP wall reader (PoE)

ART: KXC-WA3-IP2

RFID and PIN code wall reader for indoor and outdoor use. The encrypted communication and power supply takes place via a bus connection.

## IP access control Server room, technical room, offices

### AccessManager

ART: KXP-16-B

Central unit with network and radio. Manages up to 16 doors and an unlimited number of users with the appropriate time authorisation profiles. AccessManagers can be networked with each other for an unlimited number of times.

### Radio door knob with profile cylinder

ART: KXC-KN1

Doors with Euro profile cylinders are equipped with the Kentix radio knob. The data from the user RFID cards are sent by radio to the AccessManager, which then checks the authorisation.

### Radio door handles

ART: KXC-LE

In addition, almost every door in the building can be equipped with the Kentix online lever handle.