

IMPLEMENTATION EXAMPLE WITH TOPOLOGY

The modern IT cage -
Secure, efficient and scalable

Kentix ist Mitglied im

BSKI 

Bundesverband für den Schutz
Kritischer Infrastrukturen e. V.

The modern IT cage - Secure, efficient and scalable

The requirement

As a result of internal, industry-specific and legal requirements for IT security, there is often a need for further control and transparency of the standardised security measures of cages in the data center.

For this purpose, real-time remote access to access authorisations, access documentation and the permanent monitoring of the locking and locking status of all doors must be established at cage and rack level. In addition, granular remote monitoring of potential hazards (climate, fire, unauthorised access, sabotage, leakage, etc.) in the cages and racks must be ensured in order to identify irregularities at a very early stage and prevent failures. A calibrated measurement of

power consumption, including DGUV V3-compliant leakage current measurement, is to provide additional transparency and security as an option and if required, in order to further optimise operation in the cage.

All data should be clearly monitored in a central dashboard from any location and alarms can be sent. 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.

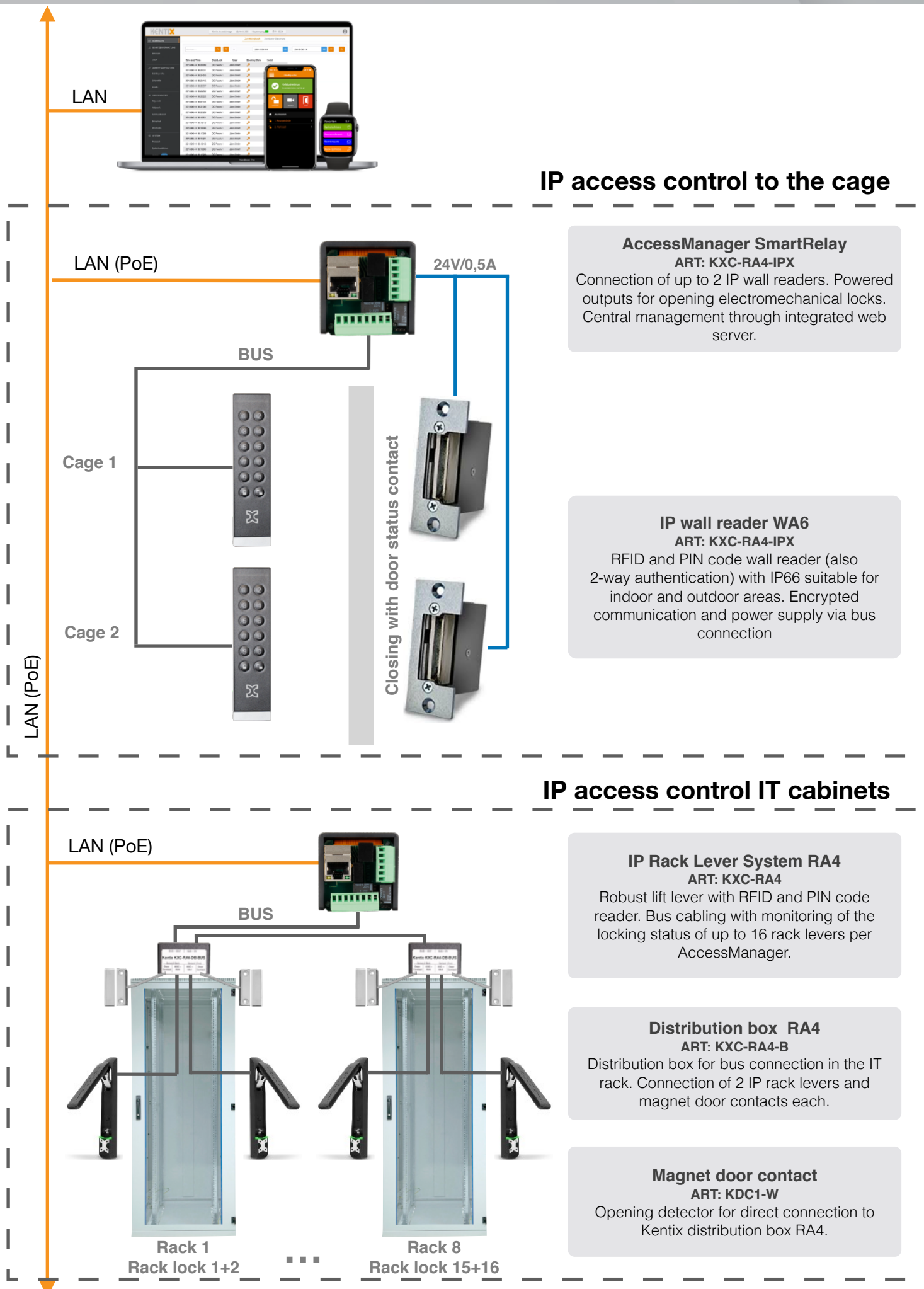
The Kentix system solution

Access control is handled by the Kentix online IP access control system at the cage entrances with WA6 IP wall readers and directly at the IT rack with RA4 IP cabinet locks. Locking and interlocking contacts monitor the status of all doors. Via an integrated web server application or open interfaces (LDAP, ReST-API, etc.), the system can be managed remotely from a central location in real time and authorisations can be granted or revoked. Furthermore, it is documented who, when and where access was granted.

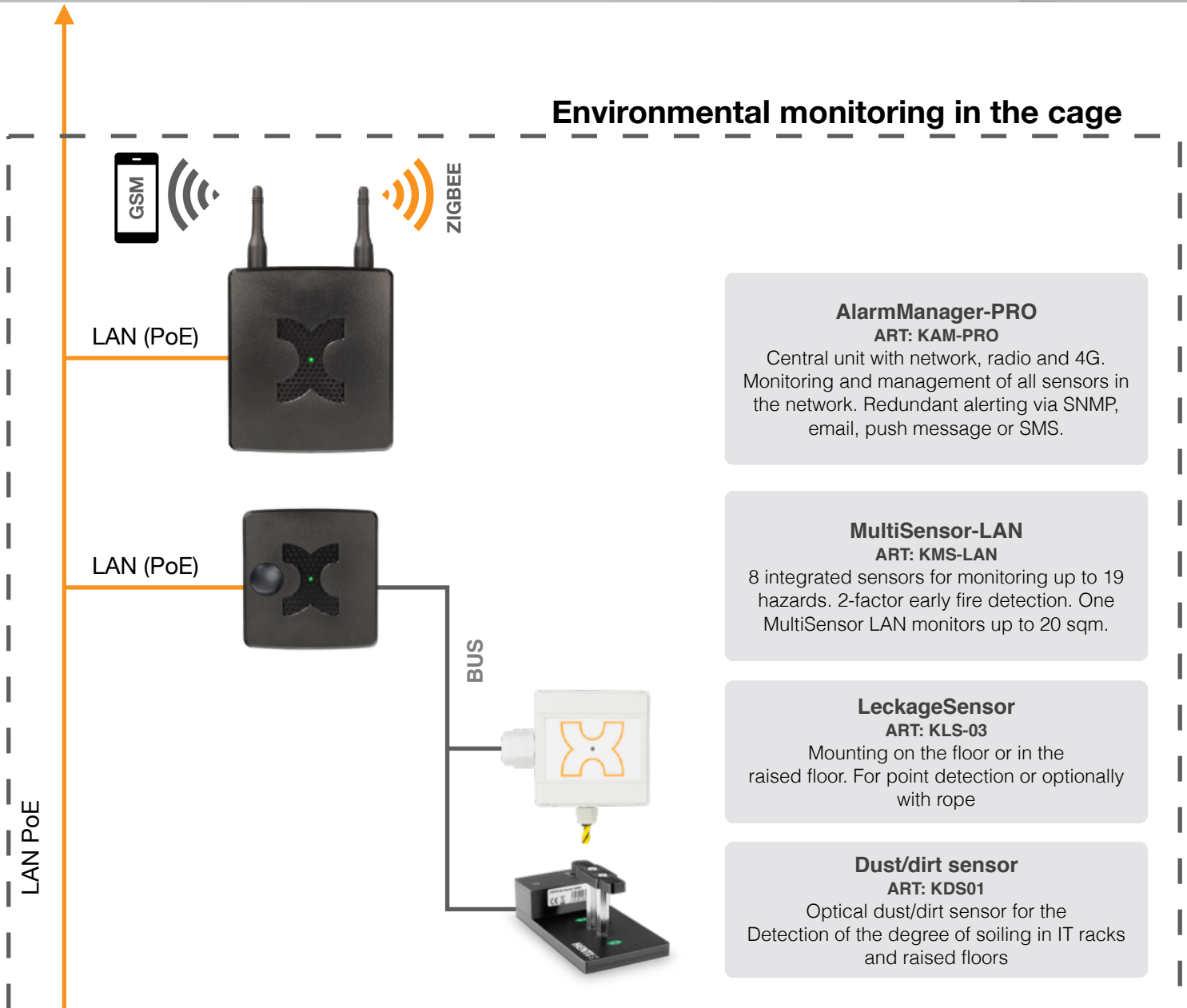
The MultiSensor-LAN is used to monitor undesirable environmental conditions in the cage. It reliably monitors up to 20 square metres for temperature, humidity, early fire detection, movement, sabotage, etc. The MultiSensor-LAN can also be used to monitor leaks and seals. Up to 2 leakage and/or dirt sensors are connected to each of the MultiSensors to monitor leakage and dirt. The Kentix Alarm Manager manages the connected sensors and monitors all detected values. If threshold values are exceeded, it sends alarms to users via SNMP, email, push message and redundantly via SMS.

In order to further increase the level of protection of operating data in case of need, the intelligent and highly available Kentix SmartPDUs are used as a Kentix complete system solution. In addition to the calibrated current measurement, a DGUV V3-compliant leakage current measurement is carried out and all important consumption parameters are fed into the monitoring system. Optionally, all IEC C13/C19 ports are switched and measured individually. The MultiSensor installed in the PDU provides measured values for temperature, humidity, fire gas and manipulation directly in the rack, thus creating additional granular transparency and security. The Kentix IP rack locking system RA4 is directly connected to the SmartPDU, simplifying installation, operation and maintenance.

Simple, up-to-date and resource-saving operation is realised by the Kentix OS. The Kentix OS 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 Kentix OS is the basis for further AI analyses and visualisations.



Environmental monitoring in the cage



System supplement for monitoring and alerting



