OSS STANDARD OFFLINE

Standard Offline Access Application

There are many different off-line electronic locks. They are not connected by a cable to an access control system, but function autonomously and are powered by a battery.

The access rights are read from the card and the lock will remain unlocked or locked accordingly. These access rights are written to the card by the system – but since each manufacturer has its own approach this can lead to incompatibility. Thanks to the OSS Standard Offline protocol, locks supplied by different manufacturers can read the same access rights from the card and interpret them in the same way.

Access rights on the card

Unlike off-line locks the access rights for online locks and readers are stored in the database of an access control system. As a result, they can be programmed flexibly. The OSS Standard Offline file on the card is specified in such a way that this flexibility is largely maintained. Using the OSS Standard Offline approach – it is possible, to assign many different access rights, regardless of the available memory on the card. These access rights are written to the card when the card is presented to an online reader with "Updater" functionality.

Feedback of events

Even with off-line locks, it is possible to report various events to an administrator. As a result, the operator can maintain control over doors that are managed off-line, in a similar way to their online doors. If a card is read by an off-line lock, information from the lock can be written onto the card. This information is then transported to the database of the host access control system when that same card is presented to an online reader (updater).

Reliable

An important advantage of off-line locks is that they can even function reliably in a system in the event of a power failure. The access rights are stored on the card so that card-based access is granted, or not granted. If a card is lost with valid access rights, the card number can be transported through other cards, or a programmer, into the "Black List" of off-line locks. Alternatively, the cards used have a limited validity period so that security is completely guaranteed for a lost card after this period.

System size

The card structure is designed so that one person can be programmed with numerous access rights. Larger systems can be divided into "sites", where new access rights are written to the card for each "site". In this way, a large number of locks can be accommodated in the system.

The OSS Standard Offline file on the map

The file on the card plays a central role in the OSS Standard Offline protocol. The information is written according to the OSS Standard Offline defined structure. The file size is specified in the OSS Standard Offline file and the lock will know if, and how much, information should be read.

Did you know that the use of OSS Standard Offline is free of charge!

CONTACT

OSS-Association e.V.®
In der Aue 41
14480 Potsdam
Germany

www.oss-association.com/standards