Access Control Integration with KONE elevators

Your access control system can be integrated with the elevators in your building.

Key benefits

- Integration between KONE elevators and all building access control systems
- Integration with both conventional elevators and Destination Control Systems (DCS)
- Easy and straightforward installation process
- Speeds up People Flow in building

Improved security with smoother People Flow

Offices, hospitals and industrial buildings, as well as an increasing number of residential buildings, use access control systems to improve security and convenience. Access Control Integration connects any access control system with the KONE elevator control system to increase security in the building while improving people flow.

Using an access card, users can move quickly and securely to the elevator and their destination floor. When turnstiles are integrated with a Destination Control System (DCS), guided transport operation can be activated when a person passes through turnstile, ensuring smooth movement through the lobby.

KONE supplies elevator group controllers and control panels, as well as space for installing card readers. The access control provider supplies the card readers, access control computer and network infrastructure.

Card reader in Car Operating Panel (COP)

Card reader in Destination Operator Panel (DOP)

The access control system can activate guided transport operation to the KONE Destination Control System (DCS) when the user passes through

Elevator integration with any access control system

Your preferred access control system can be integrated with the KONE elevator system. The card readers can be installed in KONE elevator calling devices such as the COP or DOP.

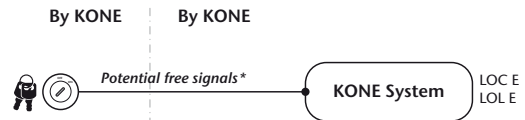*The internet protocol TCP/IP interface makes installation easy because both systems are connected to same LAN.*

Access Control Level		
Control system	**Non-personalised access**	**Personalised access**
Conventional	• Key switch in Car Operator Panel (COP) • Digital input in the elevator system	• Card reader in COP and/or in LCS • Potential free output in ACS • Digital input in the elevator system
DCS Traditional	• Card reader in Destination Operator Panel (DOP) • Potential free output in ACS • Digital input in the elevator system	• Card reader in DOP • TCP/IP interface
DCS Hybrid	• Card reader in DOP and COP • Potential free output in ACS • Digital input in the elevator system	• Card reader in DOP and COP • TCP/IP interface

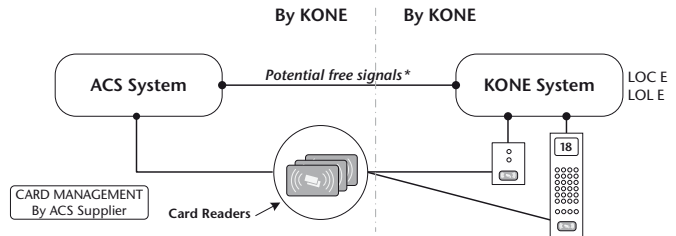*The TCP/IP interface requires some software development on the Access Control System (ACS) vendor side.*

Key switch

A key switch can be used to lock one or several floors. A potential free contact of the key switch is connected to elevator system.

By KONE | By KONE

Potential free signals* → KONE System — LOC E / LOL E
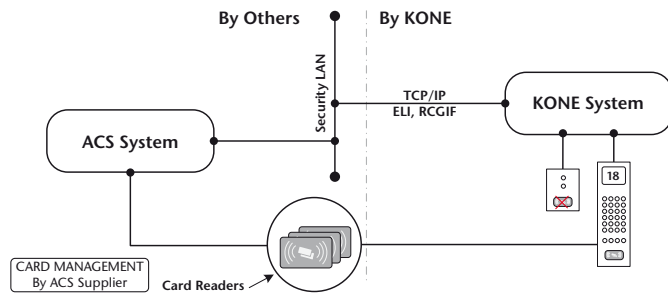

Interface with Potential Free Contacts

The access control system can be integrated using a potential free signal interface. In this case potential free signals from the access control system are connected to the elevator control system.

By KONE | By KONE

ACS System — *Potential free signals** → KONE System — LOC E / LOL E

CARD MANAGEMENT By ACS Supplier
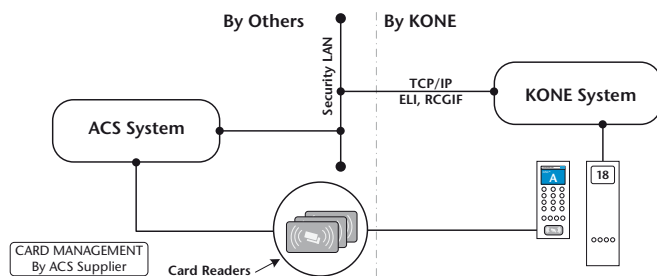
Card Readers

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TCP/IP interface

Conventional elevators can be integrated using a TCP/IP interface to the access control system. This interface supports card readers in the Car Operator Panel (COP) only.

By Others | By KONE

Security LAN

ACS System — TCP/IP ELI, RCGIF → KONE System

CARD MANAGEMENT By ACS Supplier
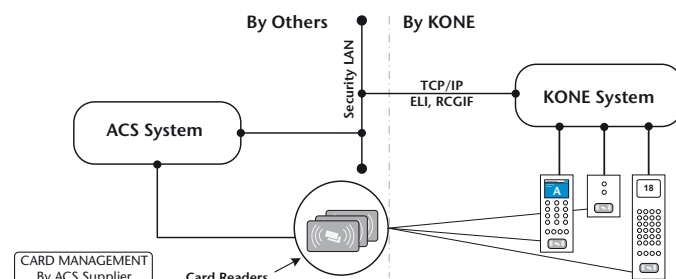
Card Readers

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TCP/IP interface

When a traditional DCS is used, the calls are given only from the Destination Operator Panel (DOP). For this reason, the card reader is integrated only with the DOP. Turnstile integration can be done to activate guided transportation operation when a person passes through it.

By Others | By KONE

Security LAN

ACS System — TCP/IP ELI, RCGIF → KONE System

CARD MANAGEMENT By ACS Supplier

Card Readers

A | 18

TCP/IP interface

When a hybrid DCS is used, the calls are given from the Destination Operator Panel (DOP), Car Operator Panel (COP) and LCS. For this reason, the card reader is integrated with the DOP and COP but not the LCS. Turnstile integration can be done to activate guided transportation operation when a person passes through it.

By Others | By KONE

Security LAN

ACS System — TCP/IP ELI, RCGIF → KONE System

CARD MANAGEMENT By ACS Supplier

Card Readers

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KONE

KONE provides innovative and eco-efficient solutions for elevators, escalators and automatic building doors. We support our customers every step of the way; from design, manufacturing and installation to maintenance and modernisation. KONE is a global leader in helping our customers manage the smooth flow of people and goods throughout their buildings.

Our commitment to customers is present in all KONE solutions. This makes us a reliable partner throughout the life-cycle of the building. We challenge the conventional wisdom of the industry. We are fast, flexible and we have a well-deserved reputation as a technology leader, with such innovations as KONE MonoSpace®, KONE MaxiSpace™ and KONE InnoTrack™. You can experience these innovations in architectural landmarks such as the Trump Tower in Chicago, the Northbridge Tower in Brisbane, the 30 St Mary Axe building in London, the Southern Cross Towers in Melbourne, the Schiphol Airport in Amsterdam, the Beijing, National Grand Theatre in China, 85 Castlereagh Street in Sydney, 140 William Street in Perth the City Central Tower 8 in Adelaide and the Skytower in Auckland New Zealand.

KONE employs on average 40,000 dedicated experts to serve you globally and locally in over 50 countries.

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