

P2000 Security Management System KONE® IP Elevator System Interface

Description

The P2000 KONE® IP Elevator System Interface integrates the P2000 Security Management System (SMS) with a KONE IP Elevator system. This high-level integration allows the features of the KONE IP Elevator system to be merged into the overall building security provided by the P2000 SMS.

Multi-floor commercial and residential buildings that use both a KONE elevator system and a P2000 Security Management System can benefit from the integration of these two disparate systems. The P2000 system can track the individuals authorized to be in certain areas of the building. The KONE elevator system works with the P2000 system, which grants authorized individuals access to certain floors, or denies unauthorized individuals access if they fail to present a valid credential.

The P2000 KONE IP Elevator System Interface supports KONE IP conventional elevator systems.

Currently, only the CK721-A running firmware Version 3.1 can be integrated with a KONE IP elevator system.

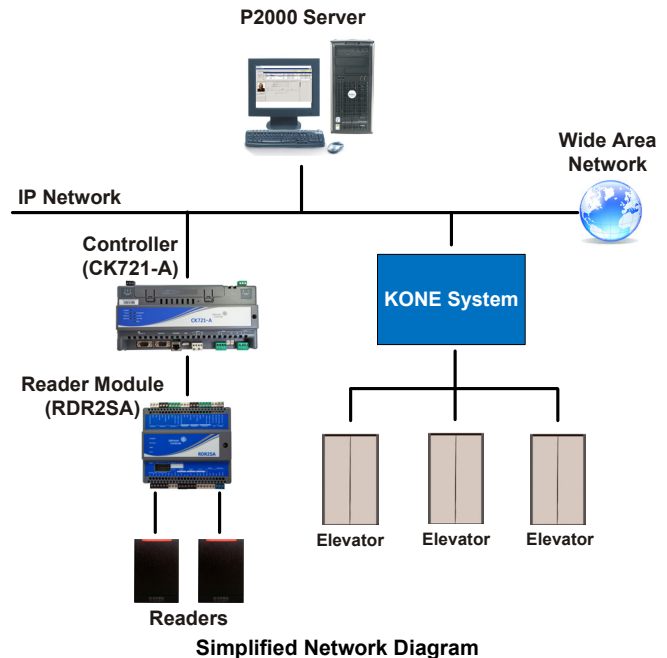
Features and Benefits

- **Reduced building costs** – Connecting system components over an IP network reduces the cost of each controlled floor by eliminating unnecessary power, wiring, enclosures, and panels.
- **Speeds up the flow of building visitors and occupants** – Using a valid credential, users can reach their destination floor via the KONE elevator system quickly and securely.
- **Integration with building security** – The operation of the elevator system is integrated with the security policies for the entire building.
- **Intelligent response to events** – An event that happens in the elevator system can trigger responses elsewhere in the building. For example, if an access request to the elevator is granted to the company officers, that could trigger the lights in their offices and turn off intrusion detection in the penthouse.
- **Integrated reporting** – Elevator system events are included in the security reporting system for the entire building.
- **Integrated hardware** – Readers can be installed in KONE elevator calling devices such as the Car Operator Panel (COP) and Destination Operator Panel (DOP).

Simple, Efficient, and Secure

Whether readers are installed in the COP or at the DOP, users present their credential before selecting their destination, so that the P2000 can determine to which floors the user has access, and the KONE system can take them to their destination in the quickest and most efficient manner possible.

With floor tracking enabled, the CK721-A controller can generate a history message identifying the badge number, cardholder's name, elevator, and floor selected when the car-call button is pressed. This feature provides added visibility of occupant movement through the building.



The screenshot shows the 'Kone IP Controller Configuration Edit' window. The settings are as follows:

- Panel Name: North Tower
- Panel Id: 19
- Kone IP Controller Id: (empty)
- Kone IP Type: KIC (dropdown)
- Controller Name: KONE North Tower
- IP Address: 200 . 0 . 0 . 55
- Backup Controller Name: (empty)
- Backup IP Address: 0 . 0 . 0 . 0
- Send COP: ☒
- Send DOP: ☐
- Heartbeat Interval: 15
- TCP Port: 1

The 'Group And Floor Configuration' section shows a table with the following data:

Group Address	Defined
0	Defined
1	Not Defined
2	Not Defined
3	Not Defined
4	Not Defined

There is a 'Defined' checkbox checked and a 'Floors' button. At the bottom are 'OK' and 'Cancel' buttons.

KONE IP Elevator Configuration

P2000 Security Management System KONE® IP Elevator System Interface (Continued)

Installation and Operation

The KONE IP elevator interface connects to the P2000 Security Management System via an IP connection to the same network as the P2000 server and CK721-A running firmware Version 3.1 or later.

The integration with KONE IP high level interface supports the following KONE controllers:

- KONE IP controller equipped with a KONE Interface Computer (KIC)
- KONE IP controller without KIC

The CK721-A supports the following 3 modes of operation:

- **One KONE KIC controller handling multiple elevator groups**
In this scenario, all elevator groups use the same TCP port number and are connected to a single KONE KIC controller and a single CK721-A controller.
- **One KONE KIC controller handling multiple elevator groups, connected to multiple CK721-A controllers**
In this scenario, a single KONE IP controller communicates with multiple CK721-A controllers. The TCP port numbers are different for the KONE IP controller to distinguish the heartbeats.
- **Pair(s) of KONE IP controllers, each pair handling one elevator group**
In this scenario, one KONE IP controller of each pair becomes a primary controller, while the other becomes a backup controller. Both KONE IP controllers share the same floor layout. The elevator group address is set to 1.

The KONE IP elevator interface provides two types of group controllers: the KONE KIC and the Primary/Backup KONE Group Controller (KGC). There are different rules when interfacing to a KONE KIC as opposed to a Primary/Backup KGC controller. KONE KIC controllers only support COPs, not DOPs.

You can define up to 33 elevator groups for each KONE KIC controller.

Each CK721-A controller can connect to multiple KONE IP group controllers, each controller with up to 8 elevators, and each elevator serving up to 128 floors.

The P2000 system supports public use and secure use of elevator cabs; it also supports special access privileges for ADA compliance and VIPs.

Ordering Information

Part Number	Description
P2K-ELV-KONE312 ¹	KONE High Level Elevator IP integration

1. This option is available only with the P2K-SW-CORE312 software package.

Related Documentation

Document Title	Document Number
P2000 Software User Manual	Part No. 24-10685-157
CK721-A Installation and Operation Manual	Part No. 24-10349-8