

Claims

1. A method for operating a system with an elevator system (10) and an interface (26) for communication via a communication network (30), wherein the elevator system (10) comprises an elevator control (14), an elevator car (20) and a drive unit (16), which moves the elevator car (20) between floors (L1, L2, L3) of the building (1) upon activation by the elevator control (14), wherein a camera (24) is arranged in the elevator car (20) in order to produce a camera recording of an interior of the elevator car (24), and wherein the method comprises the steps of:
- receiving a first input signal by means of the interface (26), wherein the first input signal indicates that a host (2) initiates a movement of the elevator car (20) to a first defined floor (L1, L2, L3), on which a visitor (8) would like to enter the elevator car (20), by means of an input on a communication device (7);
- generating a first elevator control signal by means of the interface (26) based on the first input signal;
- transmitting the first elevator control signal to the elevator control (14) by means of the interface (26) in order to initiate the movement of the elevator car (20) to the first defined floor (L1, L2, L3);
- receiving a camera recording of the interior of the elevator car (24) by means of the interface (26) once the visitor (8) has entered the elevator car (20);
- transmitting the camera recording to the communication device (7) by means of the interface (26) via the communication network (30);
- receiving a second input signal by means of the interface (26) via the communication network (30), wherein the second input signal is generated in that the host (2) initiates a movement of the elevator car (20) to a second defined floor (L1, L2, L3), on which the visitor (8) would like to exit the elevator car (20), by means of an input on the communication device (7);
- generating a second elevator control signal by means of the interface (26) based on the second input signal;
- transmitting the second elevator control signal to the elevator control (14) by means of the interface (26) in order to initiate the movement of the elevator car (20) to the second defined floor (L1, L2, L3); and
- transmitting a camera recording produced by the communication device (7) to a mobile device (6) of the visitor (8) by means of the interface (26),

wherein the camera recording shows the host (2).

2. The method according to claim 1, furthermore comprising the steps of:

5 receiving a third input signal by means of the interface (26) via the communication network (30), wherein the third input signal is generated in that the host (2) confirms an identity of the visitor (8) by means of an input on the communication device (7);

generating a door control signal based on the third input signal; and
10 transmitting the door control signal to a building control (28) by means of the interface (26) in order to initiate the release of a building entrance (12).

3. The method according to claim 2, furthermore comprising the step of transmitting a reply to the communication device (7) by means of the interface (26) via the communication network (30) in order to inform the host (2) that the building entrance
15 (12) has been opened.

4. The method according to one of the preceding claims, in which the camera recording is transmitted to the communication device (7) as long as the visitor (8) is located in the elevator car (20).
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5. The method according to one of the preceding claims, furthermore comprising the steps of receiving a status signal generated by the elevator control (14) by means of the interface (26), wherein the status signal indicates that the elevator car (20) has reached the second defined floor (L1, L2, L3), and transmitting the status signal to the
25 communication device (7) in order to inform the host (2) that the visitor (8) has arrived on the destination floor.

6. The method according to one of the preceding claims, in which the first elevator control signal switches the elevator system (10) from a normal operating mode into a
30 visitor operating mode.

7. The method according to claim 6, in which the elevator system (10) is switched from the visitor operating mode into the normal operating mode once the elevator car (20) has reached the second defined floor (L1, L2, L3).

8. The method according to one of the preceding claims, furthermore comprising the steps of

5 receiving a fourth input signal by means of the interface (26) via the communication network (30), wherein the fourth input signal is generated in that the host (2) initiates opening or closing of an elevator door (21) by means of an input on the communication device (7);

generating a third elevator control signal by means of the interface (26) based on the fourth input signal; and

10 transmitting the third elevator control signal to the elevator control (14), wherein the third elevator control signal causes the elevator door (21) to open or close.

9. A system for a building (1) with multiple floors (L1, L2, L3), comprising:
15 an elevator system (10) with an elevator control (14), an elevator car (20) and a drive unit (16), which moves the elevator car (20) between the floors (L1, L2, L3) of the building (1) upon activation by the elevator control (14), wherein a camera (24) is arranged in the elevator car (20) in order to produce a camera recording of an interior of the elevator car (24); and

20 an interface (26) that is communicatively linked to the elevator control (14) and the camera (24), wherein the interface (26) has a processing unit (31) and a transmitting and receiving unit (32) in order to communicate with a communication device (7) of a host (2) and a mobile device (6) of a visitor (8) via a communication network (30), and wherein the processing unit (31) carries out a method with the following steps during the operation of the system:

25 receiving a first input signal by means of the interface (26), wherein the first input signal indicates that the host (2) initiates a movement of the elevator car (20) to a first defined floor (L1, L2, L3), on which a visitor (8) would like to enter the elevator car (20), by means of an input on a communication device (7);

30 generating a first elevator control signal by means of the interface (26) based on the first input signal;

transmitting the first elevator control signal to the elevator control (14) by means of the interface (26) in order to initiate the movement of the elevator car (20) to the first defined floor (L1, L2, L3);

receiving a camera recording of the interior of the elevator car (24) by means of the interface (26) once the visitor (8) has entered the elevator car (20);

transmitting the camera recording to the communication device (7) by means of the interface (26) via the communication network (30);

5 receiving a second input signal by means of the interface (26) via the communication network (30), wherein the second input signal is generated in that the host (2) initiates a movement of the elevator car (20) to a second defined floor (L1, L2, L3), on which the visitor (8) would like to exit the elevator car (20), by means of an input on the communication device (7);

10 generating a second elevator control signal by means of the interface (26) based on the second input signal; and

transmitting the second elevator control signal to the elevator control (14) by means of the interface (26) in order to initiate the movement of the elevator car (20) to the second defined floor (L1, L2, L3).

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10. The system according to claim 9, in which the communication network (30) comprises an infrastructure for cloud computing.

11. The system according to one of claims 9-10, in which the transmitting and
20 receiving unit (32) is equipped for communicating via radio.

12. The system according to one of claims 9-11, in which the communication device (7) is linked to a building installation, wherein the building installation is connected to the interface (26).

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13. The system according to one of claims 9-11, in which the communication device (7) is a mobile device that communicates with the interface (26) via a radio link.