

1. Background to SchindlerID™

Most of the innovation in the 140 years history of the elevator industry has been in relation to component development and cost reduction. The passenger interface and the related process of elevator traveling have hardly been touched until now.

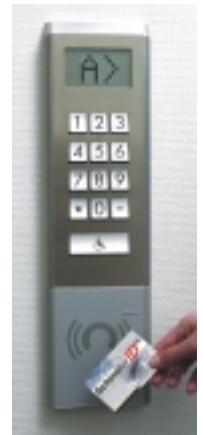
But since a machine can only meet a passenger's requirements as well as it can recognize them, conventional elevators clearly have limitations. Schindler's Miconic 10 control system allows a more detailed specification of the transportation needs, and therefore achieves increased handling capacity and reduced traveling time.

The SchindlerID study was initiated to investigate a further individualization of passengers' transportation requirements and additional functionality.

2. Description of SchindlerID™

SchindlerID is an enhanced user interface paired with a control overlay, which provides access control as a core service. The basic utilization of SchindlerID follows a generic scheme:

1. The passenger is identified by his identification medium or personal PIN code at a SchindlerID terminal in front of the elevator.
2. The planning algorithm checks the passenger's access rights and assigns a car (A, B, C,...) to the passenger. In doing so, the algorithm takes account of the following criteria:
 - overall traffic capacity
 - individual traveling time
 - security restrictions
 - attributes such as space required, handicapped passengers, preferences, privileges (VIP), or grouping
3. The passenger walks directly to the assigned car and will be transported to his destination without any need for further interaction.



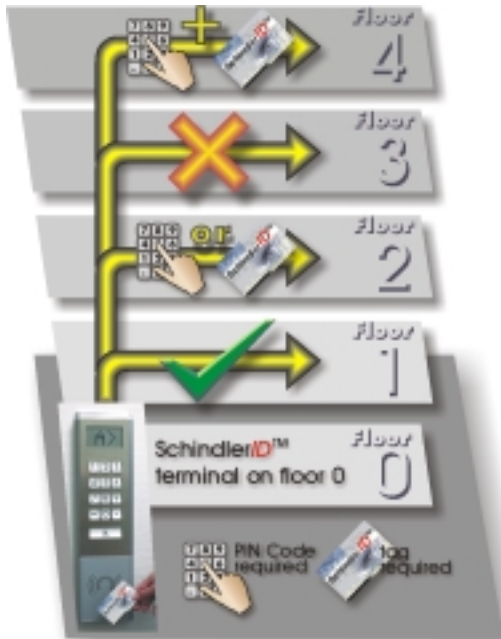
SchindlerID™ terminal



Intended as a platform, SchindlerID allows the integration of a variety of methods and services. For example, different identification means, such as PIN codes, tags (e.g. cards, keyrings, watches), biometric sensor systems, or even combinations of these, may be used. Services like handicapped support can be added individually according to specific needs.

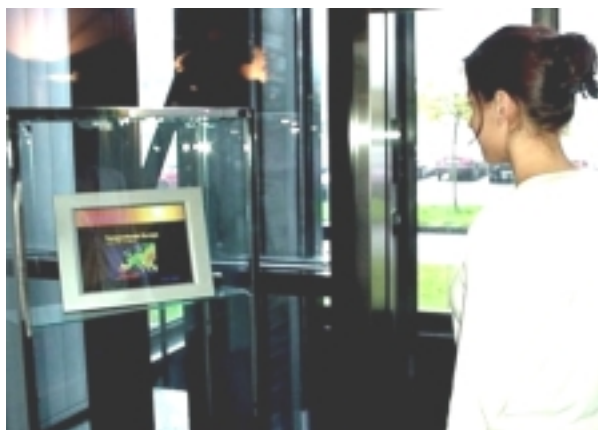
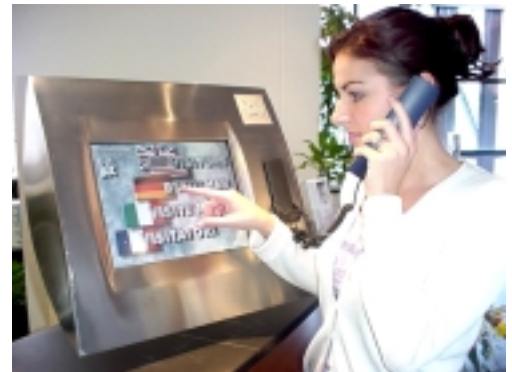
3. Benefits and Features of SchindlerID™

As described, SchindlerID combines a wide variety of applications and advantages compared to conventional elevator controls.



Access to the destination zones can be configured individually

- **Access Control:** By using SchindlerID as a security system, the building is divided into zones, each representing an area of the building with well-defined security needs. The building manager configures his specific needs on site by means of the SchindlerID software installed on a central control station. Based on this, the tags for the users can be commissioned according to the individual rights, authorizations, and requirements of each individual user. This is done with the help of a tag reader/writer at the same station.
- **Individualization:** The SchindlerID terminal, acting as a requirement handler, allows derivation of a detailed specification of the individual needs by the identification process. This may include a passenger's space requirements, the exclusion of undesirable or unacceptable groups joining the trip, or requirements relating to freight and goods (beds in hospitals, garbage or meal containers in a hotel, or shopping trolleys in a shopping mall).
- **Performance:** Thanks to the recurring planning process carried out by the algorithm, optimal utilization of the elevator system can be achieved. Results are increased handling capacity (up to 50% compared to conventional controls), higher availability of cars, and greater convenience.
- **Visitor Control & Guidance:** Visitors may look up residents allocated in a building with the help of an interactive touch screen. After that, telephone contact can be established and access means unlocked by the resident with a single keystroke. An automatic call is then sent to the elevator system which forces a transport to the resident's location. Furthermore, the touch screen allows users to configure their tags according to their personal preferences.



- **Infotainment:** As an option, SchindlerID can be augmented by screens or multimedia terminals for individualized information and entertainment (infotainment) applications. Placed in front of, or inside, the elevator, and paired with the user's identification, these devices allow the delivery of content like news, weather forecasts, or stock quotes, according to a personal profile and policy. The setup can therefore be done by users themselves, via a local touch screen or the Internet.