

SMOOTH PEOPLE FLOW DURING ELEVATOR MODERNISATION

KONE Modernisation Overlay

During elevator modernisation, you might expect people flow capacity to decrease when elevators are out of service or there are both old and new elevator groups operating in the same lobby area. With the KONE Modernisation Overlay, you can eliminate capacity decrease during modernisation and even increase people flow capacity during the project.

The KONE Modernisation Overlay is a temporary group control system that is compatible with both old and new elevator systems. It keeps an integrated elevator group during the modernisation project. Passengers use common landing stations for calling both old and new elevators. The overlay allocates landing calls between the old and new elevators, giving priority to the new, more efficient ones.

The KONE Modernisation Overlay can be used with the KONE Destination Control System (DCS), with traditional Full Collective (FC) elevator control systems, and with most types of existing electrification systems. It is also compatible with both machine-room and machine-room-less elevators.



KEY BENEFITS

Usability

- Common landing stations for old and new elevators
- Consistent user interface at landing
- Smooth transition from conventional control to destination control

Traffic capacity

- Improves call allocation – no double calls
- Improves capacity during modernisation with benefits of Destination Control System (DCS)

Eco-efficiency

- Decreases energy consumption during modernisation
- Traffic allocated mainly to new, more energy-efficient elevators

Compatibility

- For different group sizes (three or more elevators)
- Can interface with most types of existing elevator controls
- Compatible with Destination Control Systems (DCS) and Full Collective (FC) systems, and with most types of existing electrification systems
- Compatible with machine-room and machine-room-less elevators

Minimised disturbance

- Short installation time – KONE Modernisation Overlay is modular, fast to install, even during one weekend
- Minimised out-of-service time when setting up overlay system

How it works

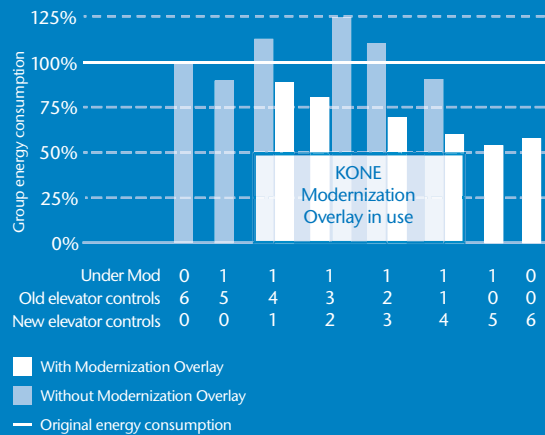
The KONE Modernisation Overlay is a temporary high-level group control tool for use during modernisation. Its basic function is to allocate landing calls between the new, modernised elevators and the old elevator system. The overlay gives priority to the new elevators, maximising the use of elevators with the highest people flow capacity and lowest energy consumption. The old elevator group is allocated on a secondary basis.

The modernisation process

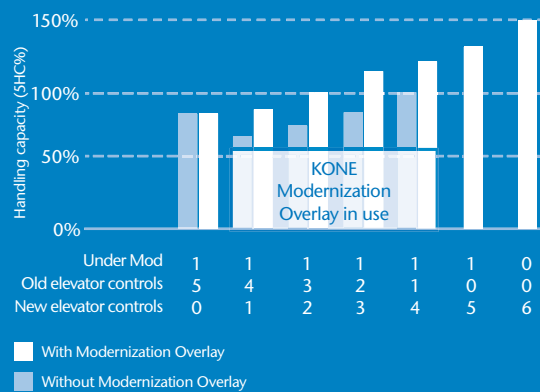
After the first elevator has been modernised, the KONE Modernisation Overlay is installed at a time that will cause the least disturbance to passengers, for example during a weekend. Depending on the installation, individual elevators may be out of service for only a few hours when connecting them to the KONE Modernisation Overlay. The overlay uses the final modernised elevator components, such as the KONE group controller, UPS and communication network, which keeps costs low.

Each elevator is modernised in turn, adding to the number of new elevators and increasing people flow capacity. In a conventional modernisation, handling capacity will decline considerably during the first phases of the project. The KONE Modernisation Overlay maintains the people flow capacity and increases it as more elevators are completed. Before modernisation of the last elevator, the overlay is removed and the final KONE group controller takes full responsibility for call allocation.

Examples of group energy consumption with and without KONE Modernization Overlay



Examples of group handling capacity with and without Modernization Overlay in DCS modernization



For more information go to www.kone.co.uk