



Schindler PORT Overlay

For a hassle-free modernization

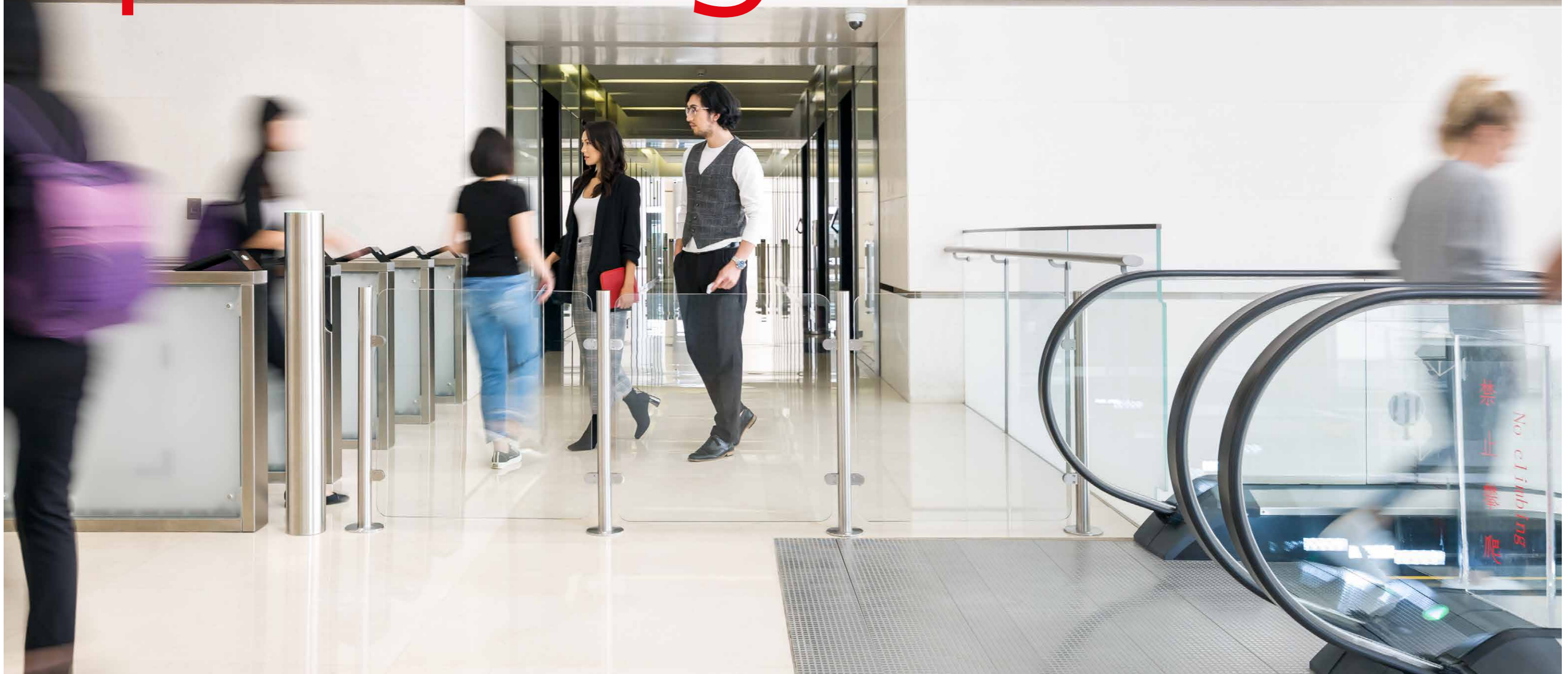
We Elevate



Schindler

Schindler modernization for an excellent

passenger experience



New operation frontier with Schindler PORT

Boosting traffic performance

Today, high-rise buildings demand their vertical transportation systems to be not only reliable and smart, but to provide the most innovative concepts and technologies, to brace the buildings for the future.



Schindler Transit Management

Schindler Transit Management, driven by our leading transit management solution Schindler PORT, can reduce time to destination by up to 30%, compared to elevator operation under conventional control.



Security access control

The credentials of users can be verified through programmed cards, smartphones, or a biometric access control system, aligned with building management needs. In this way, security access control can be managed remotely and intelligently.



Impeccable personalization service

The Schindler PORT system can offer unique ride experiences tailored for individual passengers and specific requirements, including for passengers with disabilities or for exclusive VIP rides.



Smart mobility

Building managers can access real-time elevator status with their smartphones, as Schindler PORT synchronizes data through Internet of Things (IoT). It also creates a transparent ecosystem through which all key stakeholders could view real-time information about their Schindler equipment anytime, anywhere.



Passenger report

The passenger report provides accurate data of the movement of tenants and visitors throughout the building. The report serves as a security record for the building management to track, analyze, and respond swiftly when required.



Schindler myPORT

With Schindler myPORT, traveling throughout the building is quick, secure, seamless, and convenient – simply use your mobile phone to unlock doors and call elevators. Users can manage and create digital invitations (SMS) or use their mobile devices as a video intercom to speak directly with visitors. Schindler myPORT's user-friendly, customizable features can be adapted to commercial and residential projects.



Traffic simulation

Schindler's award-winning traffic simulation system applies the method specified in ISO 8100-32 for a comprehensive traffic analysis of the building and helps to work out the best solution accordingly.



Schindler PORT Overlay solutions

With the vision that a modernization project should be carried out largely unnoticed by the building occupants and without sacrificing traffic performance, Schindler PORT Overlay has been developed.



Schindler PORT 4D

Schindler PORT 4D is more than an evolution: it's a new version of our leading transit management solution Schindler PORT. The solution optimizes travel times via a proprietary smart phone app connected to the Schindler elevator systems. It not only lowers waiting times significantly, but also serves as a holistic vertical and horizontal transportation platform. In addition, Schindler PORT 4D reduces, with ECO Mode, the energy consumption of an elevator system by up to 40%.



Schindler CoLab

Schindler CoLab is our new open, secure and modular building integration toolbox that allows our customers to seamlessly integrate Schindler's pioneering digital services portfolio into their building management and user experience.



Schindler PORT Overlay

Seamless modernization

Many of the existing high-rise buildings are already aging – the conventional traffic handling system can no longer keep up with the modern-day building operation capacity and demands: it must be upgraded.

Bringing new technologies to reinvigorate existing buildings is the essence of effective modernization; not only do they add appeal but they generate genuine value for building owners as well. Nevertheless, customers are often reluctant to modernize elevators because they are concerned about possible disruption on daily traffic. Schindler PORT Overlay helps ensure a seamless and hassle-free modernization, without any inconvenience for tenants or passengers. And this Schindler solution could work with both Schindler and third-party elevator systems.

High elevator performance

A Schindler PORT upgrade can be implemented as the first step of a more comprehensive modernization, to achieve smart mobility in a minimum of time and with an immediate enhancement on traffic. This enables existing buildings to compete with newly constructed buildings.

The intelligent destination technology of Schindler PORT could improve elevator performance once it has been installed: at the beginning of a modernization, even with one car out of service, the overall performance of the elevator system would not be compromised.

Connecting systems

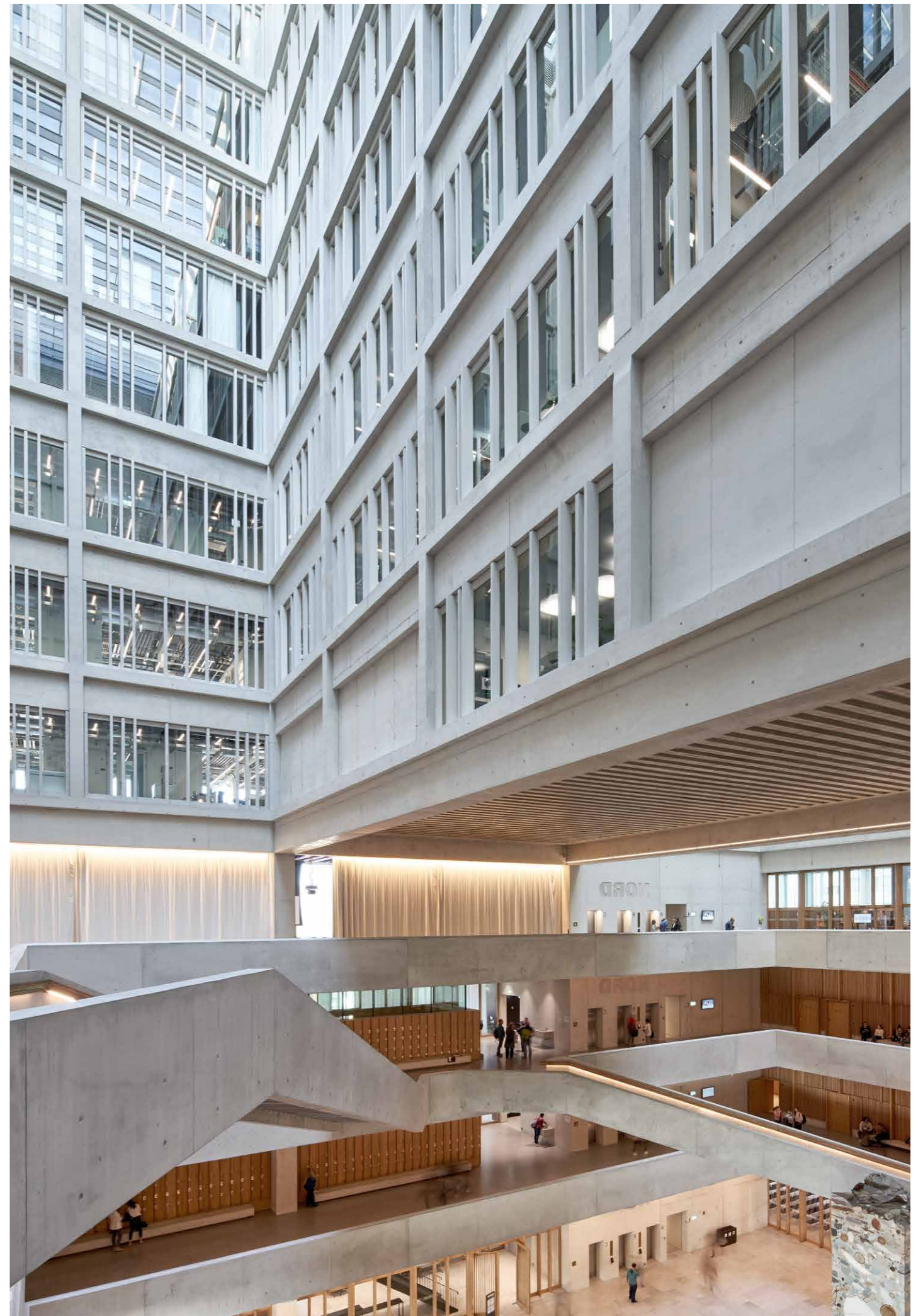
Schindler PORT Overlay connects the existing controllers with the Schindler PORT system. Schindler PORT enables smart transit management and optimizes traffic performance.

During the upgrading process, the new Schindler controller and the old controllers can work together through Schindler PORT Overlay.

Normal operation

Schindler PORT system significantly reduces the impact of modernization on elevator operation. Passengers will hardly notice which elevator has been taken out of service. And the traffic performance-level even remains slightly better than with a complete group under the control of the old conventional system. One after the other, the newly modernized elevator units can be seamlessly reintegrated upon completion, without causing any inconvenience to the passengers.

Schindler PORT Overlay helps ensure a seamless and hassle-free modernization, without any inconvenience for tenants or passengers.



Schindler PORT Overlay

Basic principles and procedures

The Schindler PORT Overlay method presents two advantages: seamless upgrading of individual cars that brings no inconvenience to users, as well as boosted overall traffic performance steadily improved by Schindler PORT during the process.



Phase 1
The pre-assembly of the Schindler PORT upgrade control cabinets and the interface boxes (the black ones in the machine room) starts. The system is connected to the existing elevator controllers.

The new cabling and wiring to the existing Landing Operation Panels (LOP) are installed in each elevator shaft one after the other.



Phase 2
All the Schindler PORT terminals, floor designation plates, car operation panels, and destination indicators, are installed but temporary covered and not in use for the moment.

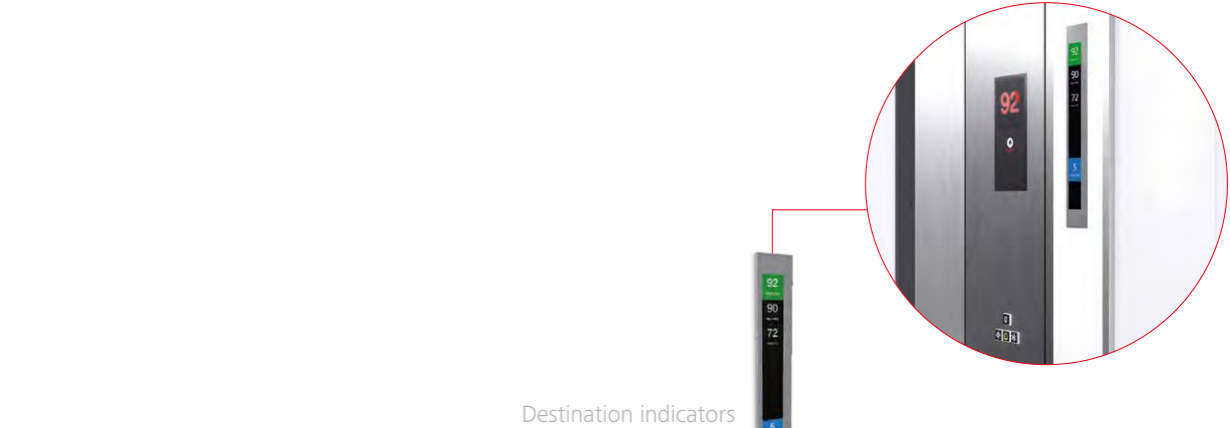
During low traffic times such as during a weekend, the conventional control is upgraded to the Schindler PORT destination control.

For a smooth transition for building tenants and users, user manuals and necessary introductions are duly provided.



Floor designation plates (temporarily covered)

Schindler PORT Terminal (temporarily covered)



Destination indicators



Phase 3
The old elevator call buttons and indicators are either replaced or covered and the new ones uncovered.

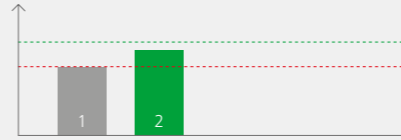
The newly installed Car Operating Panels (COP) and Schindler PORT terminals as well as the destination indicators and the floor designation plates are now activated and tested.

The overall elevator system is switched to Schindler PORT. Building occupants start using the features and functions of Schindler PORT.



Phase 4
As the entire elevator group now runs on Schindler PORT, the traffic performance boosts with reduced time to destination and reduced waiting time. Furthermore, the handling capacity is clearly optimized.

Traffic Performance

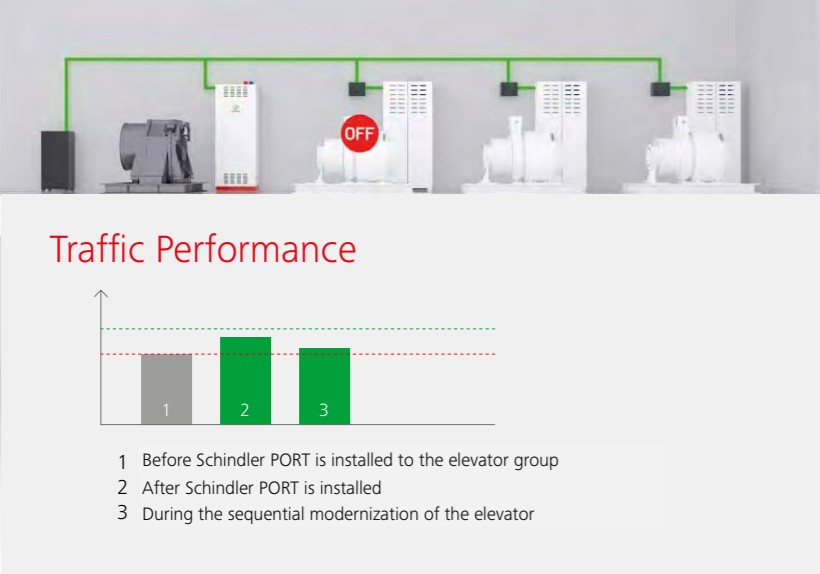


- 1 Before Schindler PORT is installed to the elevator group
- 2 After Schindler PORT is installed

The immediate performance boost of the Schindler PORT solution allows now individual elevators to be taken out of the group for modernization without significant impact on the overall elevator traffic performance.

Schindler PORT Overlay

Basic principles and procedures

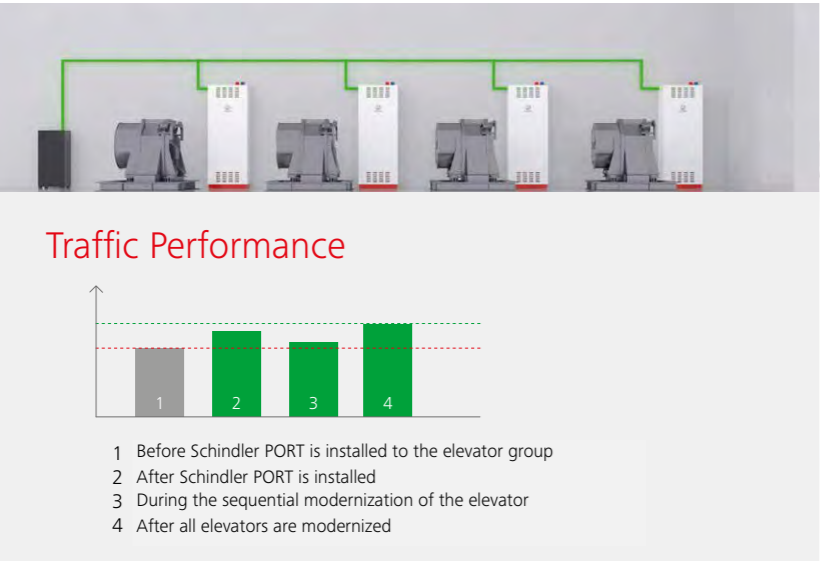


Phase 5

Now the core modernization process begins, without any disruption to the tenants. One elevator at a time is taken out for modernization, and re-integrated seamlessly into the group, when its modernization is completed.

Schindler PORT Overlay connects the existing controllers and the new Schindler controllers in operation.

Thanks to Schindler PORT Overlay, traffic performance can be maintained at a good or sometimes even slightly higher level, although one elevator after the other is taken out for modernization.

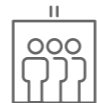







Phase 6

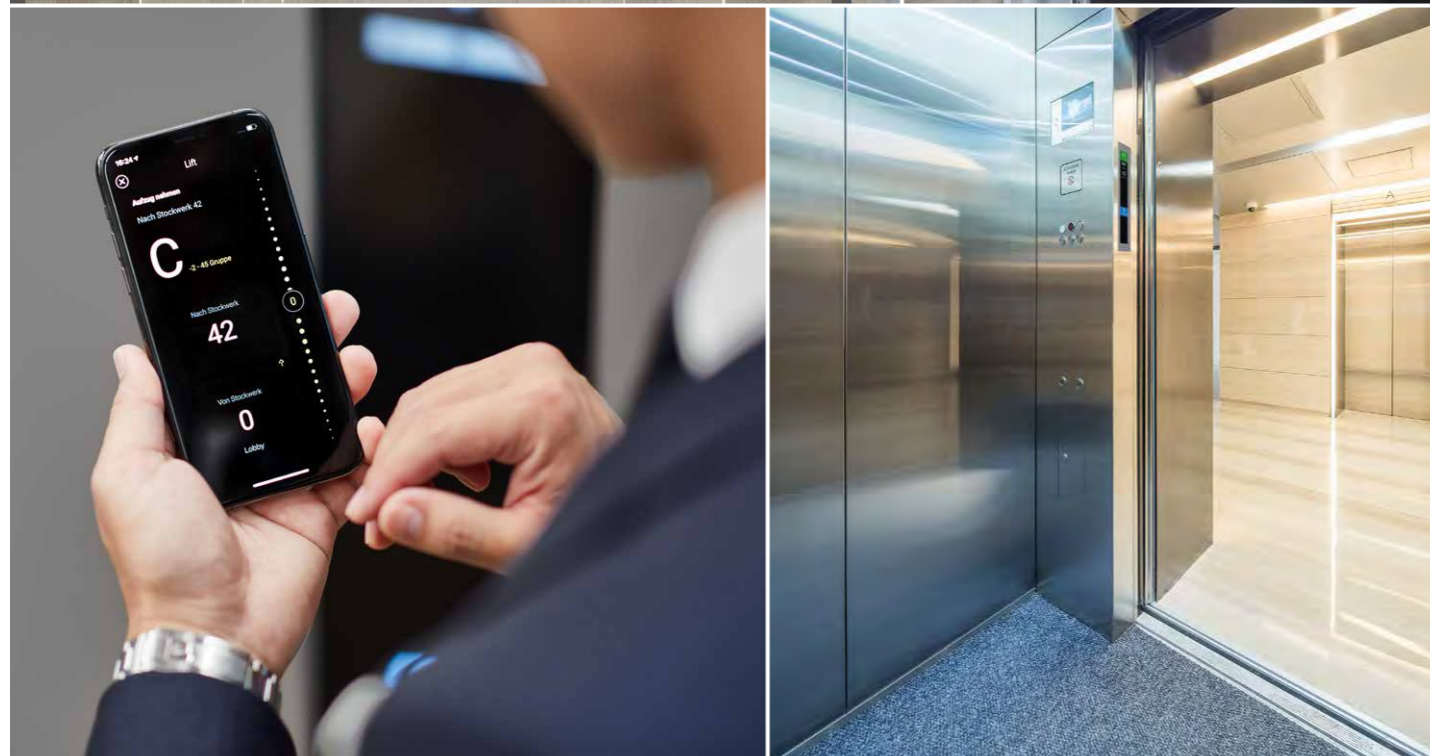
Once all elevators have been modernized and upgraded, the traffic performance increases to an even higher level. Now the modernized elevator group helps the building to meet the high transportation demands and readies the building for the rapid pace of urbanization.

The elevator system is prepared for future extensions and compatible with the latest technologies.

The compelling benefits of the Schindler PORT Overlay solution

		
Unrivaled transportation performance during sequential modernization process	No interruption to building and tenants	Integrated access control
		
Improved efficiency and existing equipment optimization	Compatible with all Schindler elevators and third-party elevators	Shorter modernization time and greater flexibility for project management

* The illustrations for traffic performance presented here are for reference only. Please consult our sales representatives to carry out a traffic analysis on your existing building to obtain a traffic performance report that more accurately reflects the traffic performance of your building.



A modern design to uplift your building

Matching aesthetics

Elevators are striking architectural elements. They determine the impression of a building's interior. Schindler high-rise elevators blend independently but harmoniously into the overall building concept.

In the course of modernization, the opportunity arises to make adjustments to various design elements, such as hall lanterns, designation plates, destination indicators, landing operation panels, and car operation panels. The car interior can also be upgraded to a more pristine look, adding a breath of fresh air to the building.

A new look

With a state-of-the-art design, your elevators will impress your tenants with a brand-new ride experience.

Minimum disruption

We offer a hassle-free elevator modernization with minimal disruption to the building's operation.

Touchless solution

Schindler's touchless solutions enable contactless interaction between passengers and the elevators. The passengers could use Schindler's app to call the elevator and choose the destinations from their smartphones.

Schindler PORT terminal

Stylish touch screen design: Inspired by the latest design and architectural trends, the Schindler PORT terminals feature sleek glass touch screens. The monitors are available in different forms: on the wall, mounted on a pedestal or integrated to the turnstile.

Digital media services

Schindler's digital media services, such as Schindler Ahead DoorShow, Schindler Ahead SmartMirror, and Schindler Ahead AdScreen turn elevators into engaging entertainment and service platforms, presenting to passengers the attractions of the building and sharing the latest information.

Schindler PORT Overlay

Selected references



Exchange Square

Hong Kong, China

Office building / height 188 m
Surrounded by a large public plaza, the three towers are located in the financial heart of the city. A total of 67 elevators drive the people stream within these towers. The modernization includes conventional control system upgraded to Schindler PORT, Miconic V controllers to TX-GC2, Thyristor inverters to Power Factor 1 inverters, and DC machines to the latest AC VF machines.

- New Schindler products:
- Schindler PORT
 - Controller including fixtures and indicators
 - AC gearless machine
 - Door drive



Tour Ariane

Paris, France

Office building / height 152 m
Tour Ariane is an office skyscraper located in La Défense, a high-rise business district situated west of Paris, France. The tower has 36 floors with a facade of original cladding. 18 units of third-party elevators were fully replaced with Schindler modernization solutions and Schindler PORT.

- New Schindler products:
- Schindler PORT
 - Controller including fixtures and indicators
 - Card reader system
 - AC gearless machine



30 Rockefeller Plaza

New York, USA

Office building / height 259 m
30 Rockefeller Plaza forms the centerpiece of Rockefeller Center in Manhattan. Completed in 1933, the skyscraper is known as the landmark that soars majestically behind the Rockefeller Center ice skating rink.

New Schindler destination dispatch systems have been added to the eight service and passenger elevators, as well as four sky shuttles.

- New Schindler products:
- Schindler PORT
 - Controller including fixtures and indicators
 - AC gearless machine

CITIC Pacific Plaza

Shanghai, China

Office building / height 193 m
Home to several diplomatic missions and Fortune 500 companies, CITIC Pacific Plaza has been an icon of West Nanjing Road since the early 2000s.

- New Schindler products:
- Schindler PORT
 - Controller including fixtures and indicators
 - AC gearless machine



80 Collins Street

Melbourne, Australia

Office building / height 182 m
Collins Street in Melbourne has been known as the "best address" for commercial developments for over a century. The 52-story North Tower of 80 Collins was built in 1977 and upgraded in 2020 with Schindler modernization solutions and Schindler PORT.

- New Schindler products:
- Schindler PORT
 - Controller including fixtures and indicators
 - Card reader system
 - AC gearless machine



Scotia Plaza

Toronto, Canada

Office building / height 275 m
Scotia Plaza is one of the largest elevator modernization projects in North America, including the upgrading of 31 elevating devices, the integration of Schindler PORT, and 22 double-deck elevators with machine replacement. This project has set a new standard in the whole complex.

- New Schindler products:
- Schindler PORT
 - Controller including fixtures and indicators
 - AC gearless machine
 - Door drive
 - Double-deck elevators





We Elevate... Modernization

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