We are always close by.

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Intelligent Building Technologies Powered by Schindler's BuilT-In

We Elevate

Schindler

Jardine Schindler

Schindler

Integrate. Optimise. Enhance

Schindler's BuilT-In, a state-of-the-art Building Transit Integrator specially designed to meet all of a modern-day buildings' present and future needs.

BuilT-In sits at the core of a building's mobility system to streamline operations and information flows across multiple applications, from facial recognition to security access systems and robot services.

BuilT-In Robot Service Connection
Automate tasks

A futuristic experience

Service robots, a marvel to behold, can transform a building's dynamics. They are highly adaptable to new environments thanks to advanced localisation technologies that create a local map of a building and compute routes that are optimal.

BuilT-In provides integration with robotics applications, so that robots can easily navigate busy building environments, place elevator calls to their destination floors, and request elevator status information.

Benefits at a glance

Real time tracking
With BuilT-In Robot Service Connection, building management can track a robot's location and status in real time, and swiftly respond whenever required.

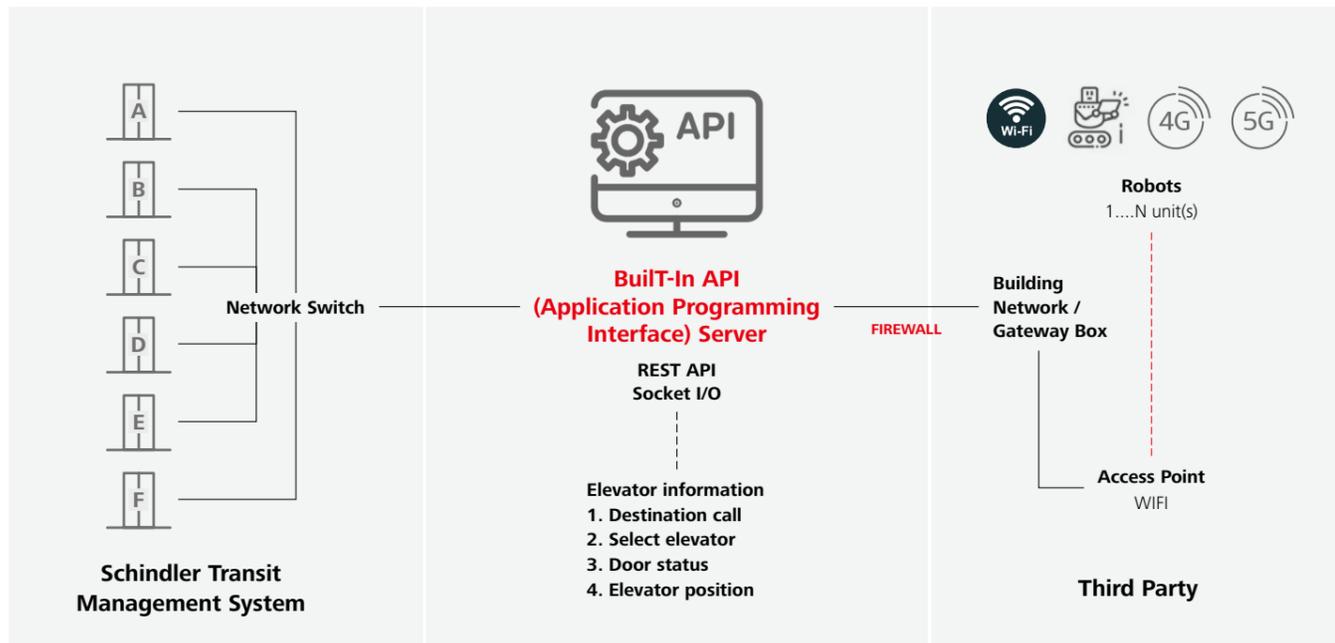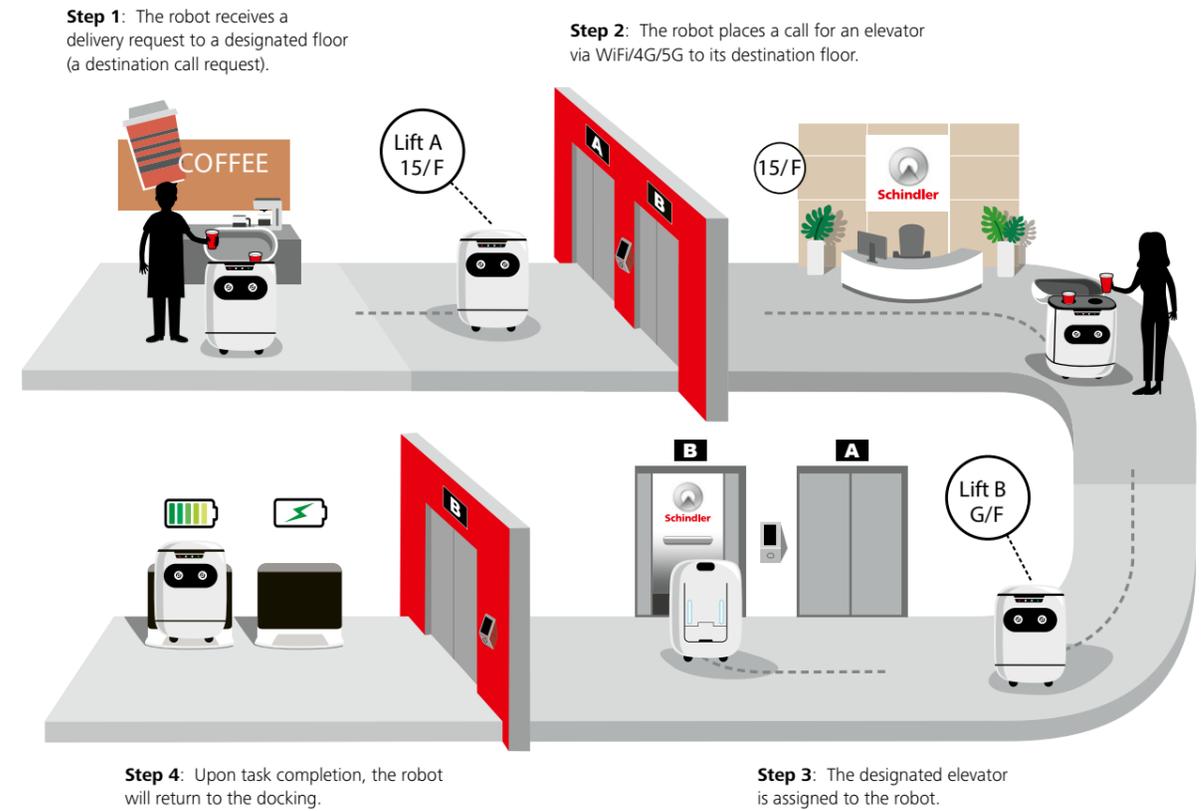**Mitigate risks ahead of deployment**
BuilT-In provides a cloud-based development environ-ment for robotics applications to simulate various scenarios and minimise uncertainties ahead of deployment, for instance to verify that the communications and connection status between elevators and robots are not interrupted.

Seamless links between robots and elevators
The BuilT-In API (Application Programming Interface) creates a communication link between robots and elevators by connecting the elevators' network switch with the local building network or gateway box via WIFI, 4G or 5G, so that robots can effortlessly transit between floors.

The vertical journey of robots

On their way up or down, robots will transmit a destination call to a dedicated or dynamic elevator(s) and enquire about the elevator's position and door status. Upon completion of its task, the robot will automatically return to the docking station and wait for its next order.

Step 1: The robot receives a delivery request to a designated floor (a destination call request).

Step 2: The robot places a call for an elevator via WiFi/4G/5G to its destination floor.

COFFEE

Lift A 15/F

15/F

Schindler

Step 4: Upon task completion, the robot will return to the docking.

Lift B G/F

Schindler

Step 3: The designated elevator is assigned to the robot.

A
B
C
D
E
F

Network Switch

Schindler Transit Management System

API

BuilT-In API (Application Programming Interface) Server

REST API
Socket I/O

Elevator information
1. **Destination call**
2. **Select elevator**
3. **Door status**
4. **Elevator position**

FIREWALL

Wi-Fi 4G 5G

Robots
1....N unit(s)

Building Network / Gateway Box

Access Point
WIFI

Third Party

Note: Robot's specifications and options are subject to change. All illustrations in this brochure are representative only. The samples shown may vary from the actual product.

BuilT-In API
A seamless integration
that offers building
management peace of mind

Consolidated operations

The BuilT-In API provides building owners
and managers with a single, consolidated
platform where they can conveniently and
efficiently manage building access systems,
security applications and Schindler Transit
Management System.

First-class security

Communications between the BuilT-In API
and third-party systems are secured and
encrypted in a local area network.

High availability

The redundant BuilT-In API architecture
offers high availability to cater the aspect
of fault-tolerance, warranty on service
provided and data integrity.

Fast project deployment

To facilitate and expedite on-site implemen-
tation, Schindler provides a cloud-based API
development environment to simulate and
optimise third-party system integration.

Accommodating future innovations

By using a standard protocol (Restful
API), the BuilT-In API allows effortless
programming in a common web-based
environment, as well as the integration of
new systems by leveraging existing server
components - without any interference with
overall operations.

Surveillance

System database
integration

Mobile app

QR code
system

Palm vein

BuilT-In API

Infotainment
display

Robot service
connection

Visitor
management
system

Facial
recognition
system

Self-kiosk

Crowd
sensing