

A photograph of an elevator shaft with a control panel. The shaft is made of dark metal beams and glass panels. A control panel with several buttons is mounted on a metal beam. The background shows a cloudy sky.

# Bosch Elevator Cloud

Intelligent Solutions for Your Elevator

Bosch Service Solutions



**BOSCH**

# Bosch Elevator Cloud

In growing cities elevators are becoming an indispensable part of everyday life. Growing cities means growing connections between buildings, people and technical systems. This interconnectedness offers opportunities: The Bosch Elevator Cloud helps to make the operation of elevators safer and more efficient.

With more than 30 years of control center experience and more than 60,000 connected elevators, Bosch Service Solutions now combines this experience with the Internet of Things (IoT). The interaction of sensors, software and services is the basis for creating intelligent elevator solutions.

The Bosch Elevator Cloud combines all elevator-related services from Bosch Service Solutions: Whether elevator monitoring, elevator emergency calls, trapped passenger rescue or visual inspections – our services simplify operation and maintenance. The relevant standards and guidelines provide the foundation.

- ▶ Elevator monitoring
- ▶ Elevator emergency support
- ▶ Rescue of trapped people
- ▶ Risk assessment
- ▶ Technical trainings
- ▶ Visual inspection

Please note that some services might not be available in all countries.



# Elevator monitoring

Using an easy-to-install sensor box, elevator operating parameters are transmitted to the cloud, analyzed and, if necessary, troubleshooting measures through our associates are initiated. We also coordinate and document any necessary on-site repairs.

An easy-to-install sensor box detects and reports defined operating conditions such as elevator stops due to faults, door malfunctions and other elevator malfunctions. The transmitted data is also used to centrally display operating information of the elevator, such as the number of trips and the current position of the car. Automatic detection and reporting of faults reduces downtime to a minimum. Documentation is central and comprehensive.

## RETROFITTING

“Plug-and-play”: very easy-to-install retrofit solution

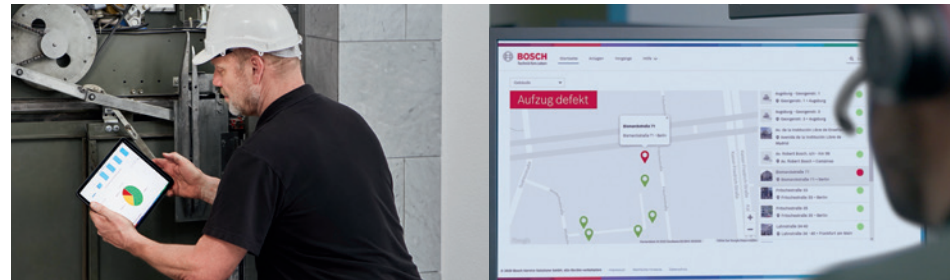
## ALL MANUFACTURERS

For all elevator types: no connection to the elevator control, thus no interference with existing systems



## ADVANTAGES:

- ▶ Clear display of the elevator status: number of rides, number of door openings, vibrations in the elevator car, starting and stopping processes, and emergency stops are analyzed in the Bosch Elevator Cloud. If necessary, the Bosch Service Center will initiate measures. Downtimes are thus reduced to a minimum. The elevator documentation is saved in the Bosch Elevator Cloud.
- ▶ Determination of optimal maintenance cycles: Maintenance recommendations are derived based on actual use.
- ▶ Save costs and conserve resources: Expensive on-site visits by technicians are reduced by means of status monitoring.
- ▶ Fast and cost-effective elevator retrofit: the elevators will be of service for less than 30 minutes during the installation of the sensor box.



### 1. SENSORS

Sensors detect and record in real time the elevator's status and data



### 2. SOFTWARE

The data acquired are evaluated in detail in the Elevator Cloud



### 3. SERVICES

This evaluation is used to generate customized service plans for elevators



# Elevator emergency support & trapped passenger rescue

## Technology and services from a single source

Operators are required to equip elevators with an EN 81-28-compliant emergency call system which connects to a permanently staffed call center. According to the German Ordinance on Industrial Safety and Health (BetrSichV), older elevator systems must be retrofitted.

As soon as an emergency call is triggered, our specially trained associates of the emergency call and service control center will intervene to take care of the trapped passengers. We inform either one of the approximately 180 intervention partners or a third party specified by the customer, who will free the trapped passengers on site. We provide fast and competent assistance in case of an emergency according to EN 81-28 and the German Ordinance on Industrial Safety and Health (BetrSichV).



- ▶ **Elevator emergency call services**
  - Connection to the alarm receiving center
  - Trapped passenger rescue
- ▶ **Elevator emergency technology**
  - Delivery the following business day
  - Installation
  - Technical support by phone and on site
  - Training of technicians
- ▶ **Elevator components**



### ADVANTAGES:

- ▶ Long-term and economically strong partner
- ▶ General contractor and project management possible
- ▶ Germany-wide partner network
- ▶ Customized solutions



# More services

## Risk assessment

The risk assessment of your elevator systems is required by law, as it serves to protect the safety and health of all users. With our solution, you receive documentation created by specialists that meets the applicable legal requirements and is adapted to your specific local conditions.



## Technical training

As a long-standing partner of the elevator industry, we not only offer you the technology, but also technical training for your employees: from installation and programming to troubleshooting elimination of SafeLine elevator emergency devices.



## Visual inspection

The safe and compliant operation of elevator systems means continuous effort for operators. Our solution includes the regular visual inspection and adapts flexibly to their local conditions. Operators can adjust the frequency of inspection of the elevator individually and according to the use of their individual elevators and receive reliable proactive feedback on the condition of the systems.



# WOULD YOU LIKE TO LEARN MORE ABOUT THE BOSCH ELEVATOR CLOUD?

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Subject to change

