

Reassuring Building Security Beginning with Elevators



The vertical gateway to your building, elevators play an important role in ensuring building security

RESIDENCE

Feeling safe and having privacy greatly affect the asset value of a residence.



Security Point

Only people who pass the security authentication process at the main entrance are allowed access to elevators.



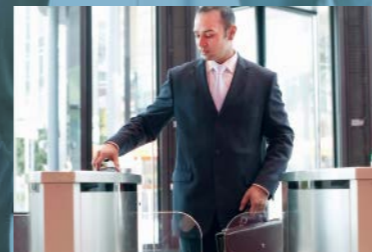
OFFICE

In office buildings, where large numbers of people come and go, security is the most important condition for corporate activities.



Security Point

Only employees who pass the security authentication process at the security gate can use the elevators.



HOTEL

For hotel guests, security is indeed the greatest form of hospitality.



Security Point

Only guests staying at the hotel can operate the elevator using hotel key verification in the elevator car.



Creating more secure, more convenient elevator systems as a key feature in building management systems.

Elevators play an important role in building security owing to their role of being the entrance to other floors.

The advanced security solution proposes linking Mitsubishi Electric elevators with the building security system, thereby enabling elevator access control, improved traffic efficiency, hands-free automatic operation and other convenient features. This total security system offers superior scalability, flexibility and convenience. In addition to greatly increasing security and safety, the system also provides customer satisfaction and improves a building's asset value.

Mitsubishi Electric elevator security systems link the access control system and group control system together for more efficient operation. Smooth and efficient operation is maintained even when a security function is being executed, realizing minimal waiting time.

Mitsubishi Electric elevator security does this!

Robust security



Improve operation efficiency

Mitsubishi Electric proposes security solutions that best match the building purpose through elevator.

OFFICE

Supporting business people on the go with reliable security and smooth traffic.

Solution: DOAS* integrated with security gate

Integration of elevator and security gate systems provides robust safeguard and creates seamless traffic flow.



- Security gates screen out suspicious persons and block unauthorized access to the elevator hall.
- When a card is verified at a gate, an optimum elevator car is automatically dispatched to the passenger to take him/her to the pre-registered floor without button operation.
- Our elevator group control system reduces congestion during peak hours through optimum car allocation that minimizes waiting time and traveling time.

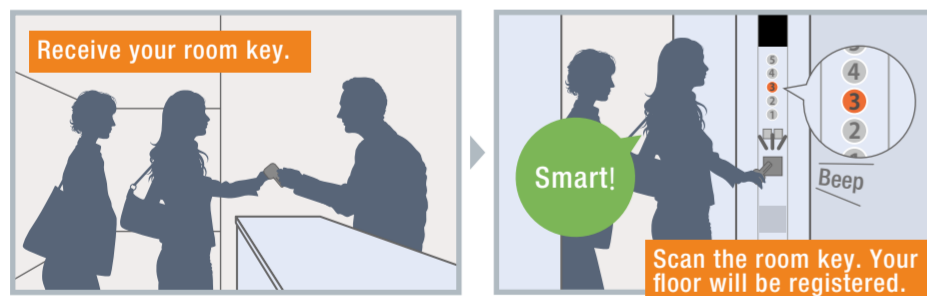
*DOAS (Destination Oriented Allocation System) is Mitsubishi Electric's elevator feature for assigning an optimum car in accordance with each passenger's destination.

HOTEL

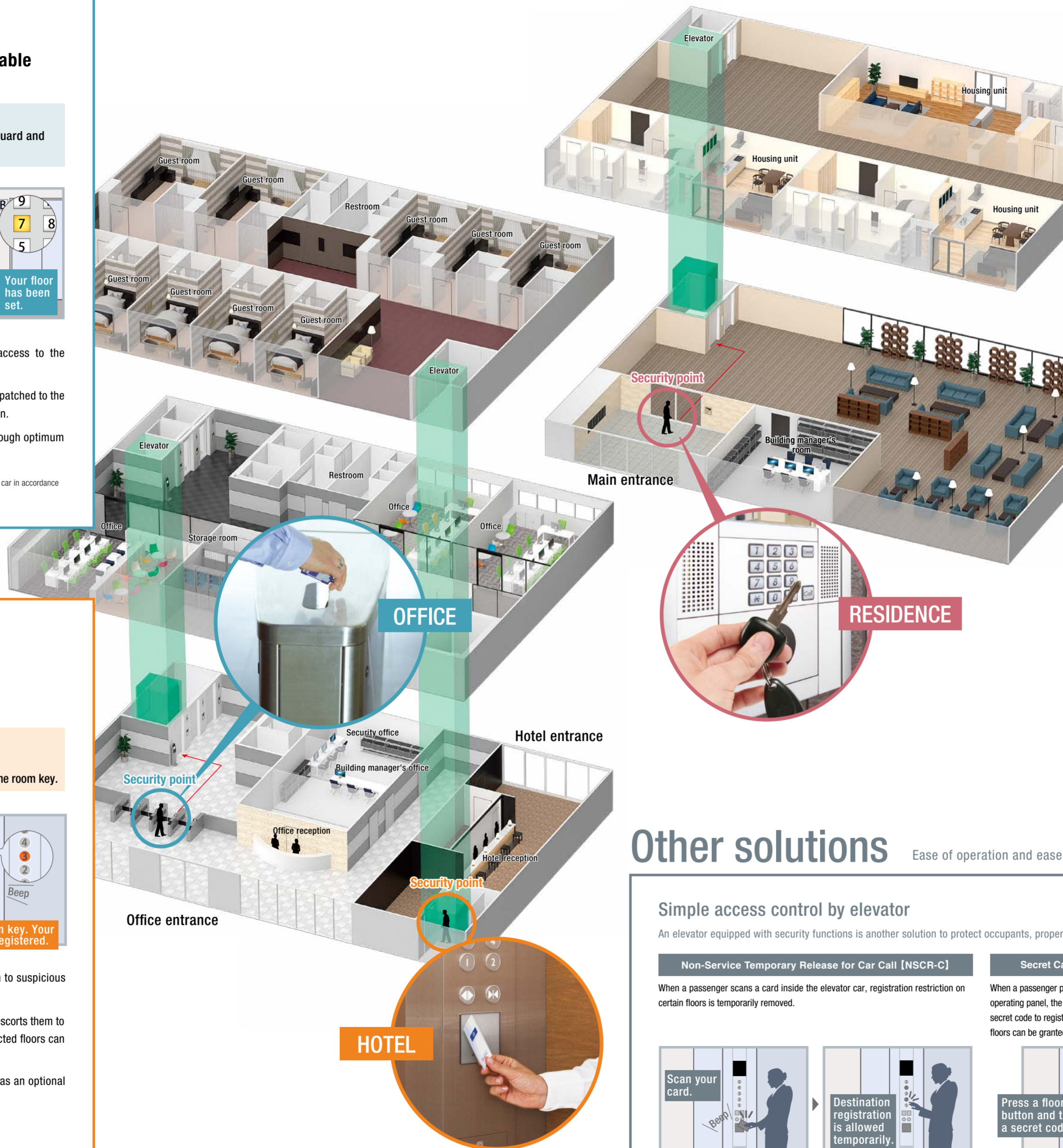
A high sense of reassurance and convenience improve guest satisfaction.

Solution: Authentication inside elevator car

Elevator use is limited to hotel guests with a room key. The elevator automatically escorts the guest to the floor which is pre-set in the room key.



- The authentication process inside the elevator car denies elevator operation to suspicious people.
- Once guests scan their room key in the elevator car, the system automatically escorts them to their guest room floor without requiring any button operation. Access to restricted floors can also be controlled by the room key.
- A non-stop operation exclusive to certain guests such as VIP may be added as an optional feature.



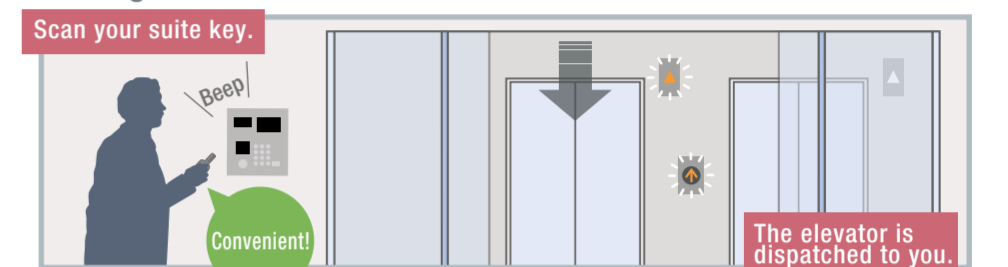
RESIDENCE

A reassuring and stress-free home environment enhances building value.

Solution: Elevator access control from main entrance and dwelling rooms

Verifying elevator users by using intercoms eliminates the risk of intrusion and operation of elevator buttons.

Coming home



- Authentication with a suite key at the main entrance restricts elevator access to residents only.
- After authentication, an elevator is immediately dispatched to the lobby floor to save passenger waiting time.

Welcoming visitors



- Residents can identify and authorize visitors, and send an elevator car to the lobby floor remotely from their suites by using the intercom. The elevator with its destination registered automatically escorts the visitor to the resident's floor.

Integrating security tokens



Other solutions

Ease of operation and ease of management are both important aspects for building security.

Simple access control by elevator

An elevator equipped with security functions is another solution to protect occupants, property and assets.

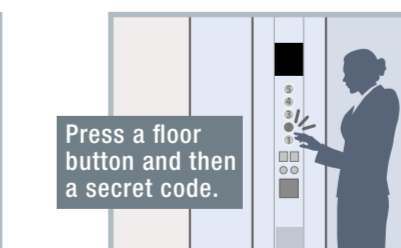
Non-Service Temporary Release for Car Call [NSCR-C]

When a passenger scans a card inside the elevator car, registration restriction on certain floors is temporarily removed.



Secret Call Service [SCS-B]

When a passenger presses a floor button on the car operating panel, the button flashes on and off. Enter a secret code to register the floor. Access to restricted floors can be granted only those who know the code.



Access control by building managers

Building managers can boost building security by altering elevator operation according to the circumstances: disabling service to vacant floors and taking elevators out of service at night.

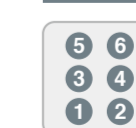
MeiEye* [WP-W]

Elevators can be monitored and controlled remotely from a computer in the building manager's office. For example, service to/from specific floors can be disabled.

*Mitsubishi Elevators & Escalators Monitoring and Control System

Non-Service to Specific Floors [NS-CB]

Elevator service to a specific floor can be disabled through car operating panels.



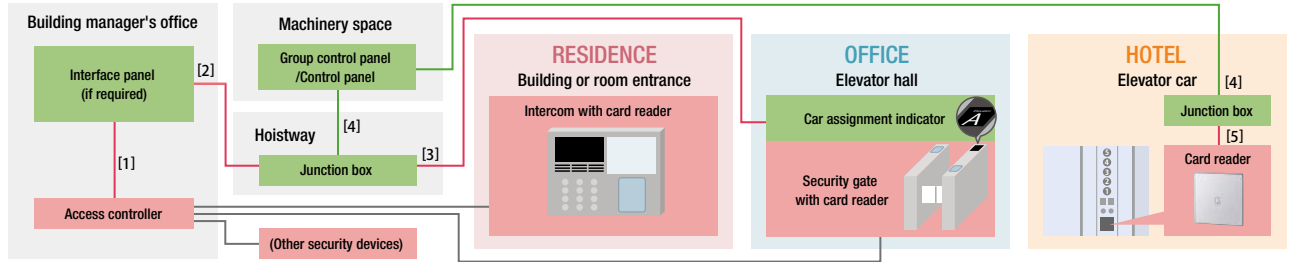
These security solutions are merely a few examples. Mitsubishi Electric can customize products to meet a building purpose and customer requests including security points, authentication frequency and automatic call registration. For more details, please contact our local agents.

Configuration and Specifications

Solution for residence, office and hotel

Integration with building's security system

System configuration



* Please contact our local agents for provision of interface panel.
 * If a card reader is provided at the elevator hall, an emergency release switch is required in the building manager's office. Please contact our local agent for the arrangement and wiring.

Device	Supplier	Cable	Supplier	Cable type and communication protocol
	Mitsubishi Electric		Mitsubishi Electric	See Specifications below
	Security system supplier		Security system supplier	See Specifications below
			Security system supplier	To be selected by the supplier

Specifications

◆ Applicable product scale

Item	Maximum
Elevator groups (per interface panel)	4 groups
Stops (per group)	64 stops
Access controllers	127 units
Card readers (per group)	255 units
Security gates (per floor in a group)	8 gates
Floors with security gates (per group)	2 floors

◆ Interface panel (if provided)

Size	300 × 300 × 100
Installation	The panel is fixed on a wall. Secure the working space of 700mm (including the panel depth) on the front side and a clearance of 50mm on the right side of the panel. Also, secure the space for wiring.

◆ Cable type and communication protocol

Wiring from access controller to junction box in hoistway (Main signal transmission)

Case A: An interface panel is provided.

- Cables between access controller and interface panel [1]: Ethernet (100BASE-TX), Communication protocol: UDP/IP
- Cables between interface panel and junction box [2]: Minimum two twisted-pair cables (to be shielded)

Case B: An interface panel is not provided.

- Cables between access controller and junction box [1] & [2]: Minimum two twisted-pair cables (to be shielded), Communication protocol: RS485

Wiring for other devices

For residence

- No additional cable is required.

For office

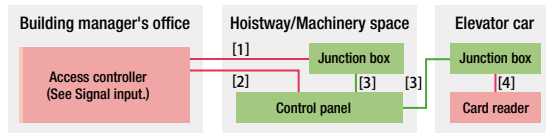
- Cables between junction box in hoistway and car assignment indicator [3]: Minimum two twisted-pair cables (to be shielded) (Coordination with power supply cable is required.)
- A terminal block is required for each security gate.

For hotel

- Cables between access controller and junction box in hoistway [1] & [2], and cables between junction box on car top and card reader in elevator car [5]: In addition to main signal transmission, cables need to be provided for a card reader in each car. Select the cables on the basis of the specification of the following cables supplied by Mitsubishi Electric. The cables do not need to pass through the interface panel.
- Cables between junction box in hoistway and junction box on car top [4]: Two twisted-pair shielded cables for signals and four general conductors for power supply

Other solutions

Non-Service Temporary Release for Car Call (NSCR-C)



Secret Call Service (SCS-B) / MeEye (WP-W) / Non-Service to Specific Floors (NS-CB)
 No special security device is required. For system configuration and specification of MeEye, please refer to the MeEye brochure.

◆ Signal input

Normally-open dry contact (Voltage: 48 VDC, Current: 100 mA)
 Case A: One contact per elevator car to release the restrictions on all floors
 Case B: One contact per floor to release the restriction individually

◆ Cable type

- Cables between access controller and junction box in hoistway [1]: General conductors for signals (The number of conductors depends on that of contacts.)
- Cables between access controller and control panel [2] and cables between junction box on car top and card reader [4]: Select the cables on the basis of the specification of the following cables supplied by Mitsubishi Electric.
- Cables between junction box in hoistway and junction box on car top [3]: Two twisted-pair shielded cables for signals, and four general conductors for power supply

Close collaboration with the security system supplier is required for system integration between elevator and building security. For more information, please consult our local agents.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

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Visit our website at:
<http://www.Mitsubishi Electric.com/elevator/>



Safety Tips: Be sure to read the instruction manual fully before using this product.