# Elevator

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## 2. Description

* System controls 8 elevators
* Each elevator has 20 ‘request floor’ buttons and a current floor indicator
* Each floor has 2 ‘request elevator’ buttons (up, down) and a floor indicator (on the highest and lowest floor there is only one ‘request elevator’ button)
* Both the elevator and the floor has a sliding door that open at the same time
* The floor dock has both pressure and optical sensors to detect obstructions (doors are opened if obstructed and closed again after 5 seconds)
* Speaker on each floor dock that announces requested elevator
* The system only send an idle elevator or an elevator going in the direction of the request (if none are available the request stays pending)
* When any request button is pressed a back-light is turned on until request is satisfied

## 3. Use cases

* Control 8 elevators to be able to move to each floor
* Make sure that you can safely load and unload the elevator
* The system makes moving between floors more efficient and easier compared to stairs
* User, Technician

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| --- | --- |
| Name |  |
| Description |  |
| Actor |  |
| Flow |  |
| Exception |  |
| Result |  |