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# **Lift Control API**

API that configures the OM-120, which can control lifts.

- BS2 GetLift: Retrieves selected lifts.
- BS2 GetAllLift: Retrieves all lifts.
- BS2 GetLiftStatus: Retrieves the status of selected lifts.
- BS2 GetAllLiftStatus: Retrieves the status of all lifts.
- BS2 SetLift: Configures a lift.
- BS2 SetLiftAlarm: Configures the alarm status of the lift.
- BS2 RemoveLift: Removes selected lifts.
- BS2 RemoveAllLift: Removes all doors.
- BS2\_ReleaseFloor: Releases the activate/deactivate flag of the lift status. This initializes the priorities set to the lift.
- BS2\_ActivateFloor: Configures the priority of when the floor is activated. The activate priority must be higher than the deactivate to allow access to the floor.
- BS2\_DeActivateFloor: Configures the priority of when the floor is deactivated. The deactivate priority must be higher than the activate to deny access to the floor.
- BS2 GetFloorLevel: Retrieves selected floor levels.
- BS2 GetAllFloorLevel: Retrieves all floor levels.
- BS2\_SetFloorLevel: Configures a floor level.
- BS2 RemoveFloorLevel: Removes selected floor levels.
- BS2 RemoveAllFloorLevel: Removes all floor levels.

# **Structure**

### **BS2Lift**

```
typedef struct {
    BS2 LIFT ID
                       liftID;
                    name[BS2_MAX_LIFT_NAME_LEN];
    char
    BS2 DEVICE ID
                              deviceID[BS2_MAX_DEVICES_ON_LIFT];
    uint32 t
                    activateTimeout;
    uint32 t
                    dualAuthTimeout;
    uint8 t
                                numFloors;
    uint8 t
                                numDualAuthApprovalGroups;
    BS2 DUAL AUTH APPROVAL
                               dualAuthApprovalType;
    BS2 B00L
                        tamperOn;
    BS2 B00L
                             dualAuthRequired[BS2 MAX DEVICES ON LIFT];
    BS2 SCHEDULE ID
                            dualAuthScheduleID;
    BS2LiftFloor
                         floor[BS2_MAX_FLOORS_ON_LIFT];
    BS2 ACCESS GROUP ID
```

#### 1. liftID

Lift ID

#### 2. name

Name of the lift.

#### 3. deviceID

ID of the device taht is connected to the lift.

### 4. activateTimeout

Time for the lift to be closed after it has been opened. The unit is seconds.

### 5. dualAuthTimeout

Interval between the first user's authentication and the second user's authentication. The unit is seconds.

#### 6. numFloors

Number of floors that is configured to the lift.

# 7. numDualAuthApprovalGroups

Number of access groups having authority of dual authentication.

### 8. dualAuthApprovalType

Decides whether to distinguish if the user belongs to an access group having authority when accessing the door .

Value	Description	
0	None	
1	Check the last user's authority	

## 9. tamperOn

The status of the tamper.

### 10. dualAuthRequired

Flag that indicates whether dual authentication is enabled.

### 11. dualAuthScheduleID

Schedule for the dual authentication. Set the value as 0 for disable, 1 for enable, or set a schedule ID.

#### 12. floor

Floor information of the lift, which can be configured up to 255 floors.

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## 13. dualAuthApprovalGroupID

List of access groups having dual authentication authority, which can be configured up to 16 access groups.

### 14. alarm

Alarm that will be triggered when the sensor input gets detected, which can be configured up to 2 alarms.

# 15. tamper

Alarm that will be triggered when the tamper gets detected on the lift.

# 16. alarmFlags

Status of the door alarm.

## 17. reserved

Reserved space.

# **BS2LiftFloor**

```
typedef struct {
    BS2_DEVICE_ID deviceID;
    uint8_t port;
    BS2FloorStatus status;
} BS2LiftFloor;
```

### 1. deviceID

Device ID.

### 2. port

Relay port number.

#### 3. status

Status of the floor.

# **BS2FloorStatus**

```
typedef struct {
   BS2_B00L activated;
   BS2_FL00R_FLAG activateFlags;
   BS2_FL00R_FLAG deactivateFlags;
} BS2FloorStatus;
```

#### 1. activated

Determines whether the floor is activated or deactivated.

### 2. activateFlags

The priority of when the floor gets activated, which will not operate if the priority is lower than the deactivate priority. For example, if the floor is activated with the operator priority, all users entry will not be allowed. The deactivateFlags and activateFlags cannot have the same priority besides the default priority NONE.

Value	Description	Priority
0	None	Normal
1	Scheduled	High
4	Operator	Very High
2	Emergency	Highest

# 3. deactivateFlags

The priority of when the floor gets deactivated, which will not operate if the priority is lower than the activateFlags priority.

Value	Description	Priority
0	None	Normal
1	Scheduled	High
4	Operator	Very High
2	Emergency	Highest

## **BS2LiftSensor**

# 1. deviceID

Device ID.

## 2. port

Input port number.

# 3. switchType

Type of the switch.

Value	Description
0	Normally open
1	Normally closed

# 4. duration

다The time that will take to determine an input signal as a fire alarm. The unit is milliseconds.

## 5. scheduleID

ID of the time schedule when to operate the lift.

## BS2LiftAlarm

```
typedef struct {
   BS2LiftSensor sensor;
   BS2Action action;
} BS2LiftAlarm;
```

#### 1. sensor

Sensor that detects the activate/deactivate status of the lift.

### 2. action

Action that the lift will execute.

# **BS2LiftStatus**

## 1. liftID

Lift ID.

### 2. numFloors

Number of floors that is allocated to the lift.

## 3. alarmFlags

Alarm status of the lift.

Value	Description
0	None
1	First alarm
2	Second alarm
4	Tamper

# 4. tamperOn

The status of the tamper.

# 5. floors

Floor information of the lift, which can be configured up to 255 floors.

## **BS2FloorLevel**

### 1. *id*

Floor ID. The floor ID should start from 32768. This is due to the level ID used for access levels which is maximum 32767.

2. name

Name of the floor.

3. numFloorSchedules

Number of time schedules that is allocated to the floor.

Reserved space.

5. floorSchedules

List of time schedules allocated to the floor.

## **BS2FloorSchedule**

1. liftID

Lift ID.

2. floorIndex

Floor ID.

3. reserved

Reserved Space.

4. scheduleID

Time shceulde ID.

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