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# Door Control API

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## BS2DoorRelay

```
typedef struct {
    uint32_t deviceID;
    uint8_t port;
    uint8_t reserved[3];
} BS2DoorRelay;
```

1. *deviceID*
2. *port*  
port number
3. *reserved*

## BS2DoorSensor

```
typedef struct {
    uint32_t deviceID;
    uint8_t port;
    uint8_t switchType;
    uint8_t apbUseDoorSensor;
    uint8_t reserved[1];
}
```

```
} BS2DoorSensor;
```

1. *deviceID*

2. *port*  
port number

3. *switchType*

0	
1	

4. *apbUseDoorSensor*  
APB door sensor

5. *reserved*

### BS2ExitButton

```
typedef struct {
    uint32_t deviceID;
    uint8_t port;
    uint8_t switchType;
    uint8_t reserved[2];
} BS2ExitButton ;
```

1. *deviceID*

2. *port*  
port number

3. *switchType*

0	
1	

4. *reserved*

### BS2DoorStatus

```
typedef struct {
```

```

uint32_t id;
uint8_t opened;
uint8_t unlocked;
uint8_t heldOpened;
uint8_t unlockFlags;
uint8_t lockFlags;
uint8_t alarmFlags;
uint8_t reserved[2];
uint32_t lastOpenTime;
} BS2DoorStatus;
    
```

1. *id*

2. *opened*

flag

3. *unlocked*

flag

4. *heldOpened*

flag

5. *unlockFlags*

unlockFlags (OPERATOR), lockFlags (NONE) 가

0		
1		
4		
2		

6. *lockFlags*

0		
1		
4		
2		

7. *alarmFlags*

0	
1	

4	
2	APB

8. *reserved*

9. *lastOpenTime*

## BS2Door

```
typedef struct {
    uint32_t doorID;
    char name[BS2_MAX_DOOR_NAME_LEN];
    uint32_t entryDeviceID;
    uint32_t exitDeviceID;
    BS2DoorRelay relay;
    BS2DoorSensor sensor;
    BS2ExitButton button;
    uint32_t autoLockTimeout;
    uint32_t heldOpenTimeout;
    uint8_t instantLock;
    uint8_t unlockFlags;
    uint8_t lockFlags;
    uint8_t unconditionalLock;
    BS2Action forcedOpenAlarm[BS2_MAX_FORCED_OPEN_ALARM_ACTION];
    BS2Action heldOpenAlarm[BS2_MAX_HELD_OPEN_ALARM_ACTION];
    uint32_t dualAuthScheduleID;
    uint8_t dualAuthDevice;
    uint8_t dualAuthApprovalType;
    uint32_t dualAuthTimeout;
    uint8_t numDualAuthApprovalGroups;
    uint8_t reserved2[1];
    uint32_t dualAuthApprovalGroupID[BS2_MAX_DUAL_AUTH_APPROVAL_GROUP];
    BS2AntiPassbackZone apbZone;
} BS2Door;
```

1. *doorID*

. 1 65535

2. *name*

BioStar

. 1

가

3. *entryDeviceID*

4. *exitDeviceID*

5. relay

6. sensor

/

7. button

Exit

8. autoLockTimeout

9. heldOpenTimeout

10. instantLock

가

flag

11. unlockFlags

(OPERATOR),

unlockFlags

lockFlags

(NONE)

가

0		
1		
4		
2		

12. lockFlags

0		
1		
4		
2		

13. unconditionalLock

autoLock timeout

door lock

flag

0	autoLock timeout door close door lock . (door open door가 close )
1	autoLock timeout door open/close door lock

14. forcedOpenAlarm

15. heldOpenAlarm

5

16. dualAuthScheduleID

0 , 1 ,

17. dualAuthDevice

가

flag

0	
1	
2	
3	

18. dualAuthApprovalType

가

flag

0	
1	

19. dualAuthTimeout

1 2

20. numDualAuthApprovalGroups

가

21. reserved2

22. dualAuthApprovalGroupID

가

16

23. apbZone

가

[Zone Control API](#)

From:

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