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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 reserved[2];
} BS2DoorSensor ;
```

1. *deviceId*
2. *port*  
port number
3. *switchType*

|   |  |
|---|--|
|   |  |
| 0 |  |
| 1 |  |

4. *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*

(OPERATOR),  
unlockFlags    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<br>door lock . (door open door가<br>close ) |
| 1 | autoLock timeout door open/close<br>door lock                          |

14. *forcedOpenAlarm*  
5 .

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](#) .

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<https://kb.supremainc.com/kbtest/> - **BioStar Device SDK**

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