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# Log Management API

## API

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```
typedef void (*OnLogReceived)(uint32_t deviceId, BS2Event* log);
```

### 1. OnLogReceived

## BS2Event

```
typedef struct {
    uint32_t id;
    uint32_t dateTime;
    uint32_t deviceId;
    union {
        char userID[BS2_USER_ID_SIZE];
        uint32_t uid;
        uint32_t doorID;
        uint32_t liftID;
        uint32_t zoneID;
        struct {
            uint32_t ioDeviceID;
            uint16_t port;
            int8_t value;
            uint8_t reserved[25];
        };
        struct {
            uint32_t zoneID;
            uint32_t doorID;
            uint32_t ioDeviceID;
        };
    };
};
```

```

        uint16_t port;
        uint8_t reserved[18];
    } alarm;
    struct {
        uint32_t zoneID;
        uint32_t doorID[4];
        uint8_t reserved[12];
    } interlock;
};
union {
    uint16_t code;
    struct {
        uint8_t subCode;
        uint8_t mainCode;
    };
};
uint8_t param;
#ifdef LESS_THAN_SDK_2_6_0
    BS2_B00L image;           // Deprecated in V2.6.0
#else
    uint8_t image: 1;         // bit           image   DST
    uint8_t isDST: 1;
    uint8_t half: 1;
    uint8_t hour: 4;
    uint8_t negative: 1;
#endif
} BS2Event;
    
```

1. *id*
  - 가
  - 1
  - 가
2. *dateTime*
  - 가
  - , UTC
  - (sec)
3. *deviceID*
  - 가
4. *userID*
  - 0
5. *uid*
  - doorID , zoneID ,
  - uid
  - uid, doorID, liftID, zoneID union
6. *doorID*
  - 가
7. *liftID*
  - 가

8. *zoneID*

가

9. *ioDeviceID*

Door Input Door Input 0

10. *port*

ioDeviceID port

11. *value*

ioDeviceID port value

BS2\_PORT\_VALUE\_UNKNOWN : -1

BS2\_PORT\_VALUE\_OPEN : 0

BS2\_PORT\_VALUE\_CLOSED : 1

BS2\_PORT\_VALUE\_SUPERVISED\_SHORT : 2

BS2\_PORT\_VALUE\_SUPERVISED\_OPEN : 3

12. *alarm.zoneID*

13. *alarm.doorID*

14. *interlock.zoneID*

15. *interlock.doorID*

16. *subCode*

가 가

Verify	BS2_SUB_EVENT_VERIFY_ID_PIN	0x01	PIN
	BS2_SUB_EVENT_VERIFY_ID_FINGER	0x02	
	BS2_SUB_EVENT_VERIFY_ID_FINGER_PIN	0x03	PIN
	BS2_SUB_EVENT_VERIFY_ID_FACE	0x04	
	BS2_SUB_EVENT_VERIFY_ID_FACE_PIN	0x05	PIN
	BS2_SUB_EVENT_VERIFY_CARD	0x06	
	BS2_SUB_EVENT_VERIFY_CARD_PIN	0x07	PIN
	BS2_SUB_EVENT_VERIFY_CARD_FINGER	0x08	
	BS2_SUB_EVENT_VERIFY_CARD_FINGER_PIN	0x09	, , PIN
	BS2_SUB_EVENT_VERIFY_CARD_FACE	0x0A	
	BS2_SUB_EVENT_VERIFY_CARD_FACE_PIN	0x0B	, , PIN
	BS2_SUB_EVENT_VERIFY_AOC	0x0C	AOC
	BS2_SUB_EVENT_VERIFY_AOC_PIN	0x0D	AOC PIN
	BS2_SUB_EVENT_VERIFY_AOC_FINGER	0x0E	AOC
	BS2_SUB_EVENT_VERIFY_AOC_FINGER_PIN	0x0F	AOC , , PIN
Identify	BS2_SUB_EVENT_IDENTIFY_FINGER	0x01	
	BS2_SUB_EVENT_IDENTIFY_FINGER_PIN	0x02	PIN
	BS2_SUB_EVENT_IDENTIFY_FACE	0x03	
	BS2_SUB_EVENT_IDENTIFY_FACE_PIN	0x04	PIN
Auth	BS2_SUB_EVENT_DUAL_AUTH_FAIL_TIMEOUT	0x01	( 2 )
	BS2_SUB_EVENT_DUAL_AUTH_FAIL_ACCESS_GROUP	0x02	2
Credential	BS2_SUB_EVENT_CREDENTIAL_ID	0x01	
	BS2_SUB_EVENT_CREDENTIAL_CARD	0x02	
	BS2_SUB_EVENT_CREDENTIAL_PIN	0x03	PIN
	BS2_SUB_EVENT_CREDENTIAL_FINGER	0x04	
	BS2_SUB_EVENT_CREDENTIAL_FACE	0x05	
	BS2_SUB_EVENT_CREDENTIAL_AOC_PIN	0x06	AOC PIN
	BS2_SUB_EVENT_CREDENTIAL_AOC_FINGER	0x07	AOC
Auth	BS2_SUB_EVENT_AUTH_FAIL_INVALID_AUTH_MODE	0x01	
	BS2_SUB_EVENT_AUTH_FAIL_INVALID_CREDENTIAL	0x02	
	BS2_SUB_EVENT_AUTH_FAIL_TIMEOUT	0x03	

Access	BS2_SUB_EVENT_ACCESS_DENIED_ACCESS_GROUP	0x01	
	BS2_SUB_EVENT_ACCESS_DENIED_DISABLED	0x02	
	BS2_SUB_EVENT_ACCESS_DENIED_EXPIRED	0x03	
	BS2_SUB_EVENT_ACCESS_DENIED_ON_BLACKLIST	0x04	
	BS2_SUB_EVENT_ACCESS_DENIED_APB	0x05	APB
	BS2_SUB_EVENT_ACCESS_DENIED_TIMED_APB	0x06	Timed APB
	BS2_SUB_EVENT_ACCESS_DENIED_FORCED_LOCK	0x07	
APB	BS2_SUB_EVENT_ZONE_HARD_APB	0x01	APB
	BS2_SUB_EVENT_ZONE_SOFT_APB	0x02	APB

17. mainCode

Auth	BS2_EVENT_VERIFY_SUCCESS	0x1000	1:1	
	BS2_EVENT_VERIFY_FAIL	0x1100	1:1	
	BS2_EVENT_VERIFY_DURESS	0x1200	1:1	
	BS2_EVENT_IDENTIFY_SUCCESS	0x1300	1:N	
	BS2_EVENT_IDENTIFY_FAIL	0x1400	1:N	
	BS2_EVENT_IDENTIFY_DURESS	0x1500	1:N	
	BS2_EVENT_DUAL_AUTH_SUCCESS	0x1600	( 2 )	
	BS2_EVENT_DUAL_AUTH_FAIL	0x1700	( 2 )	
	BS2_EVENT_AUTH_FAILED	0x1800		
	BS2_EVENT_ACCESS_DENIED	0x1900	가	APB
	BS2_EVENT_FAKE_FINGER_DETECTED	0x1A00		
User	BS2_EVENT_USER_ENROLL_SUCCESS	0x2000		
	BS2_EVENT_USER_ENROLL_FAIL	0x2100		
	BS2_EVENT_USER_UPDATE_SUCCESS	0x2200		
	BS2_EVENT_USER_UPDATE_FAIL	0x2300		
	BS2_EVENT_USER_DELETE_SUCCESS	0x2400		
	BS2_EVENT_USER_DELETE_FAIL	0x2500		
	BS2_EVENT_USER_DELETE_ALL_SUCCESS	0x2600		
	BS2_EVENT_USER_ISSUE_AOC_SUCCESS	0x2700	Access card	

Device	BS2_EVENT_DEVICE_SYSTEM_RESET	0x3000	
	BS2_EVENT_DEVICE_SYSTEM_STARTED	0x3100	
	BS2_EVENT_DEVICE_TIME_SET	0x3200	
	BS2_EVENT_DEVICE_LINK_CONNECTED	0x3300	LAN
	BS2_EVENT_DEVICE_LINK_DISCONNECTED	0x3400	LAN
	BS2_EVENT_DEVICE_DHCP_SUCCESS	0x3500	DHCP IP
	BS2_EVENT_DEVICE_ADMIN_MENU	0x3600	
	BS2_EVENT_DEVICE_UI_LOCKED	0x3700	
	BS2_EVENT_DEVICE_UI_UNLOCKED	0x3800	
	BS2_EVENT_DEVICE_COMM_LOCKED	0x3900	RS485
	BS2_EVENT_DEVICE_COMM_UNLOCKED	0x3A00	RS485
	BS2_EVENT_DEVICE_TCP_CONNECTED	0x3B00	TCP
	BS2_EVENT_DEVICE_TCP_DISCONNECTED	0x3C00	TCP
	BS2_EVENT_DEVICE_RS485_CONNECTED	0x3D00	RS485
	BS2_EVENT_DEVICE_RS485_DISCONNECTED	0x3E00	RS485
	BS2_EVENT_DEVICE_INPUT_DETECTED	0x3F00	가
	BS2_EVENT_DEVICE_TAMPER_ON	0x4000	가
	BS2_EVENT_DEVICE_TAMPER_OFF	0x4100	가
	BS2_EVENT_DEVICE_EVENT_LOG_CLEARED	0x4200	
	BS2_EVENT_DEVICE_FIRMWARE_UPGRADED	0x4300	가
BS2_EVENT_DEVICE_RESOURCE_UPGRADED	0x4400	가	
BS2_EVENT_DEVICE_CONFIG_RESET	0x4500	가	
BS2_EVENT_DEVICE_DATABASE_RESET	0x4501	가	
BS2_EVENT_DEVICE_FACTORY_RESET	0x4502		
BS2_EVENT_DEVICE_CONFIG_RESET_EX	0x4503	가	
Supervised Input	BS2_EVENT_SUPERVISED_INPUT_SHORT	0x4600	Supervised Input ( )
	BS2_EVENT_SUPERVISED_INPUT_OPEN	0x4700	Supervised Input ( )
Device-Ex	BS2_EVENT_DEVICE_AC_FAIL	0x4800	AC Power
	BS2_EVENT_DEVICE_AC_SUCCESS	0x4900	AC Power
Door	BS2_EVENT_DOOR_UNLOCKED	0x5000	
	BS2_EVENT_DOOR_LOCKED	0x5100	
	BS2_EVENT_DOOR_OPENED	0x5200	
	BS2_EVENT_DOOR_CLOSED	0x5300	
	BS2_EVENT_DOOR_FORCED_OPEN	0x5400	
	BS2_EVENT_DOOR_HELD_OPEN	0x5500	
	BS2_EVENT_DOOR_FORCED_OPEN_ALARM	0x5600	BS2_EVENT_DOOR_FORCED_OPEN
	BS2_EVENT_DOOR_FORCED_OPEN_ALARM_CLEAR	0x5700	BS2_EVENT_DOOR_FORCED_OPEN
	BS2_EVENT_DOOR_HELD_OPEN_ALARM	0x5800	BS2_EVENT_DOOR_HELD_OPEN
	BS2_EVENT_DOOR_HELD_OPEN_ALARM_CLEAR	0x5900	BS2_EVENT_DOOR_HELD_OPEN
	BS2_EVENT_DOOR_APB_ALARM	0x5A00	APB
	BS2_EVENT_DOOR_APB_ALARM_CLEAR	0x5B00	APB
	BS2_EVENT_DOOR_RELEASE	0x5C00	
	BS2_EVENT_DOOR_LOCK	0x5D00	
BS2_EVENT_DOOR_UNLOCK	0x5E00		

Zone	BS2_EVENT_ZONE_APB_VIOLATION	0x6000	APB
	BS2_EVENT_ZONE_APB_ALARM	0x6100	BS2_EVENT_ZONE_APB_VIOLATION
	BS2_EVENT_ZONE_APB_ALARM_CLEAR	0x6200	BS2_EVENT_ZONE_APB_VIOLATION
	BS2_EVENT_ZONE_TIMED_APB_VIOLATION	0x6300	TIMED APB
	BS2_EVENT_ZONE_TIMED_APB_ALARM	0x6400	BS2_EVENT_ZONE_TIMED_APB_VIOLATION
	BS2_EVENT_ZONE_TIMED_APB_ALARM_CLEAR	0x6500	BS2_EVENT_ZONE_TIMED_APB_VIOLATION
	BS2_EVENT_ZONE_FIRE_ALARM_INPUT	0x6600	
	BS2_EVENT_ZONE_FIRE_ALARM	0x6700	BS2_EVENT_ZONE_FIRE_ALARM_INPUT
	BS2_EVENT_ZONE_FIRE_ALARM_CLEAR	0x6800	BS2_EVENT_ZONE_FIRE_ALARM_INPUT
	BS2_EVENT_ZONE_FORCED_LOCK_VIOLATION	0x6900	
	BS2_EVENT_ZONE_FORCED_LOCK_START	0x6A00	
	BS2_EVENT_ZONE_FORCED_LOCK_END	0x6B00	
	BS2_EVENT_ZONE_FORCED_UNLOCK_START	0x6C00	
	BS2_EVENT_ZONE_FORCED_UNLOCK_END	0x6D00	
	BS2_EVENT_ZONE_FORCED_LOCK_ALARM	0x6E00	
	BS2_EVENT_ZONE_FORCED_LOCK_ALARM_CLEAR	0x6F00	

18. param

가 가 ,  
가 . 가 .

BioStation 2	BS2_TNA_UNSPECIFIED	(N/A)	0
	BS2_TNA_KEY_1	F1	1
	BS2_TNA_KEY_2	F2	2
	BS2_TNA_KEY_3	F3	3
	BS2_TNA_KEY_4	F4	4
	BS2_TNA_KEY_5	1	5
	BS2_TNA_KEY_6	2	6
	BS2_TNA_KEY_7	3	7
	BS2_TNA_KEY_8	4	8
	BS2_TNA_KEY_9	5	9
	BS2_TNA_KEY_10	6	10
	BS2_TNA_KEY_11	7	11
	BS2_TNA_KEY_12	8	12
	BS2_TNA_KEY_13	9	13
	BS2_TNA_KEY_14	Call	14
	BS2_TNA_KEY_15	0	15
BS2_TNA_KEY_16	Esc	16	

19. image

SDK V2.6.0

1byte



- 가 (true/false).
- SDK V2.6.0 1byte bit
- 가
- DST

SDK 2.6.0	8	image	가
SDK 2.6.0	1	image	가
	1	isDST	가 DST
	1	half	DST가 30 . 0 0 , 1 30
	4	hour	. 1~12
	1	negative	0 + , 1 -

### BS2EventBlob

```

typedef struct {
    uint16_t eventMask;
    uint32_t id;
    BS2EventExtInfo info;
    union
    {
        BS2_USER_ID userID; // valid if eventMask has
        BS2_EVENT_MASK_USER_ID
        uint8_t cardID[BS2_CARD_DATA_SIZE]; // valid if eventMask has
        BS2_EVENT_MASK_CARD_ID
        BS2_D00R_ID doorID; // valid if eventMask has
        BS2_EVENT_MASK_DOOR_ID
        BS2_ZONE_ID zoneID; // valid if eventMask has
        BS2_EVENT_MASK_ZONE_ID
        BS2EventExtIoDevice ioDevice; // valid if eventMask has
        BS2_EVENT_MASK_IODEVICE
    };
    uint8_t tnaKey;
    uint32_t jobCode;
    uint16_t imageSize;
    uint8_t image[BS2_EVENT_MAX_IMAGE_SIZE];
    uint8_t reserved;
} BS2EventBlob;
    
```

#### 1. eventMask

Event mask . mask ID(User, card, door, zone)

0	
1	BS2EventExtInfo
2	User ID
4	Card ID

8	Door ID
16	Zone ID
32	BS2EventExtIoDevice
64	Door ID
128	Zone ID
256	TNA Key
512	Job Code
1024	Image
65535	ALL

2. id

가 1 가 .

3. info

BS2EventExtInfo .

4. userID

0 .

5. cardID

card card 0 .

6. doorID

door door 0 .

7. zoneID

zone zone 0 .

8. ioDevice

Door Input Door Input 0 .  
(BS2EventExtIoDevice )

9. tnaKey

가 가 가 ,

10. jobCode

JobCode가 , JobCode JobCode

11. imageSize

size .

12. image

가

13. reserved

.

### BS2EventExtInfo

```

typedef struct {
    uint32_t dateTime;
    uint32_t deviceID;
    union {                                     ///< 2 bytes
        BS2_EVENT_CODE code;
        struct {
            uint8_t subCode;
            uint8_t mainCode;
        };
    };
    uint8_t reserved[2];
} BS2EventExtInfo;

```

1. *dateTime*  
가 , UTC (sec) .
2. *deviceID*  
가 .
3. *subCode*  
. 가 가
4. *mainCode*  
.
5. *reserved*  
.

### BS2EventExtIoDevice

```

typedef struct {
    uint32_t ioDeviceID;
    uint16_t port;
    uint8_t value;
    uint8_t reserved[1];
} BS2EventExtIoDevice;

```

1. *ioDeviceID*  
Door Input Door Input 0 .
2. *port*  
port number .
3. *value*

port

-1	UNKNOWN
0	Open
1	Closed
2	Supervised Short
3	Supervised Open

4. *reserved*

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