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Log Management API

API

- [BS2_GetLog](#): 가 .
- [BS2_GetFilteredLog](#): 가 .
- [BS2_ClearLog](#): .
- [BS2_StartMonitoringLog](#): .
- [BS2_StopMonitoringLog](#): .
- [BS2_GetLogBlob](#): EventMask 가 .
- [BS2_GetFilteredLogSinceEventId](#): 가 .

```
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 ioDeviceID;
    };
    union {
        uint16_t code;
        struct {
            uint8_t subCode;
            uint8_t mainCode;
        };
    };
    uint8_t param;
    uint8_t image;
} BS2Event;
```

1. *id*
가 1 가 .
2. *dateTime*
가 , UTC (sec) .
3. *deviceId*
가 .
4. *userID*
0 .
5. *ioDeviceID*
Door Input Door Input 0 .
6. *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

7. 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

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	0x2600	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
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

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_START	0x6900	
	BS2_EVENT_ZONE_FORCED_LOCK_END	0x6A00	
	BS2_EVENT_ZONE_FORCED_UNLOCK_START	0x6B00	
	BS2_EVENT_ZONE_FORCED_UNLOCK_END	0x6C00	

8. 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

9. image

가 .

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_DOOR_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 .
1 .

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	,		
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*
.

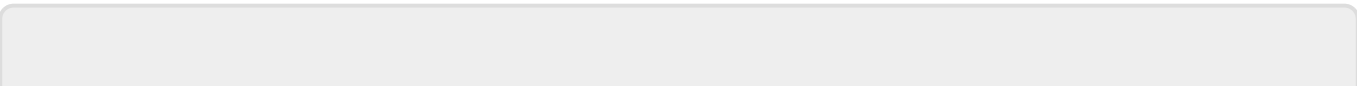
BS2EventExtIoDevice

```
typedef struct {  
    uint32_t ioDeviceID;  
    uint16_t port;  
    uint8_t value;  
    uint8_t reserved[1];  
} BS2EventExtInfo;
```

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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Last update: **2018/02/06 09:45**