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# Smartcard API

## API

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## BS2CSNCard

```
typedef struct {
    uint8_t type;
    uint8_t size;
    uint8_t data[BS2_CARD_DATA_SIZE];
} BS2CSNCard;
```

### 1. type

Access

가

0x00		
0x01	CSN	
0x02	Secure	
0x03	Access	
0x0A	Wiegand	BS2WiegandConfig.format (                    BS2WiegandConfig.CSNIndex BS2WiegandConfig.CardMask가 0
0x0B	Config	
0x1A	Wiegand	BS2WiegandMultiConfig.formats[0]
0x2A	Wiegand	BS2WiegandMultiConfig.formats[1]
0x3A	Wiegand	BS2WiegandMultiConfig.formats[2]
0x4A	Wiegand	BS2WiegandMultiConfig.formats[3]
0x5A	Wiegand	BS2WiegandMultiConfig.formats[4]
0x6A	Wiegand	BS2WiegandMultiConfig.formats[5]
0x7A	Wiegand	BS2WiegandMultiConfig.formats[6]
0x8A	Wiegand	BS2WiegandMultiConfig.formats[7]
0x9A	Wiegand	BS2WiegandMultiConfig.formats[8]
0xAA	Wiegand	BS2WiegandMultiConfig.formats[9]
0xBA	Wiegand	BS2WiegandMultiConfig.formats[10]
0xCA	Wiegand	BS2WiegandMultiConfig.formats[11]
0xDA	Wiegand	BS2WiegandMultiConfig.formats[12]
0xEA	Wiegand	BS2WiegandMultiConfig.formats[13]

0xFA	Wiegand	BS2WiegandMultiConfig.formats[14]
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**2. size**

**3. data**

**BS2SmartCardHeader**

```
typedef struct {
    uint16_t hdrCRC;
    uint16_t cardCRC;
    BS2_CARD_TYPE cardType;
    uint8_t numOfTemplate;
    uint16_t templateSize;
    uint16_t issueCount;
    uint8_t duressMask;
    uint8_t reserved[5];
} BS2SmartCardHeader;
```

**1. hdrCRC**

card header . (cardCRC - reserved)

**2. cardCRC**

card data . (BS2SmartCardHeader.cardType - BS2SmartCardData.accessOnData)

**3. cardType**

0x00	
0x01	CSN
0x02	Secure
0x03	Access
0x0A	Wiegand
0x0B	Config

**4. numOfTemplate**

**5. templateSize**

BioStar 2 가 300 384 가 300

**6. issueCount**

## 7. *duressMask*

### BS2SmartCardCredentials

```
typedef struct {
    uint8_t pin[BS2_PIN_HASH_SIZE];
    uint8_t templateData[BS2_SMART_CARD_MAX_TEMPLATE_COUNT *
BS2_FINGER_TEMPLATE_SIZE];
} BS2SmartCardCredentials;
```

#### 1. *pin*

pin code

#### 2. *templateData*

4

### BS2AccessOnCardData

```
typedef struct {
    uint16_t accessGroupID[BS2_SMART_CARD_MAX_ACCESS_GROUP_COUNT];
    BS2_DATETIME startTime;
    BS2_DATETIME endTime;
} BS2AccessOnCardData;
```

#### 1. *accessGroupID*

#### 2. *startTime*

가 , 0

#### 3. *endTime*

가 , 0

### BS2SmartCardData

```
typedef struct {
    BS2SmartCardHeader header;
    uint8_t cardID[BS2_CARD_DATA_SIZE];
    BS2SmartCardCredentials credentials;
    BS2AccessOnCardData accessOnData;
} BS2SmartCardData;
```

#### 1. *header*

SmartCard

#### 2. *cardID*

Access on Card	32 byte	Card ID	,	
Secure Credential card	24 byte	Card ID	.	
Secure Credential Card(SCC) Stamp(4 byte)	, 32 byte	Card ID(24 bytes), issueCount(4 byte)		Time
, BS2UserBlob	cardObjs array가	SC Card	, SC Card	cardObjs

### 3. credentials

pin code

### 4. accessOnData

AOC 가

## BS2Card

```
typedef struct {
    uint8_t isSmartCard;
    union {
        BS2CSNCard card;
        BS2SmartCardData smartCard;
    };
}BS2Card;
```

### 1. isSmartCard

SmartCard flag

### 2. card

### 3. smartCard

SmartCard

From: <http://kb.supremainc.com/bs2sdk/> - **BioStar Device SDK**

Permanent link: [http://kb.supremainc.com/bs2sdk/doku.php?id=ko:smartcard\\_api&rev=1590999036](http://kb.supremainc.com/bs2sdk/doku.php?id=ko:smartcard_api&rev=1590999036)

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