

Smartcard API

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BS2CSNCard

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BS2SmartCardHeader

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2

BS2SmartCardCredentials

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3

BS2AccessOnCardData

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BS2SmartCardData

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3

BS2Card

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4

Smartcard API

API

- [BS2_ScanCard](#):
- [BS2_WriteCard](#): SmartCard
- [BS2_EraseCard](#): SmartCard

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
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]

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

2. *cardCRC*

card data

3. *cardType*

0	
1	CSN
2	Secure
3	Access
4	Wiegand

4. *numOfTemplate*

5. *templateSize*

BioStar 2가300384가300

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 .
3. **credentials**
pin code .

4. **accessOnData**

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BS2Card

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

1. **isSmartCard**

SmartCard

flag

.

2. **card**

3. **smartCard**

SmartCard

From:

<https://kb.supremainc.com/kbtest/> - **BioStar 2 Device SDK**

Permanent link:

https://kb.supremainc.com/kbtest/doku.php?id=ko:smartcard_api&rev=1519172524

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