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Smartcard API

API

- [BS2_ScanCard](#):
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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.CardMask가 0 BS2WiegandConfig.CSNIndex |
| 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 2 가 300 가 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*

Secure Credential card Access on Card 32 byte Card ID

24 byte Card ID

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 2 Device SDK**

Permanent link:

http://kb.supremainc.com/bs2sdk/doku.php?id=ko:smartcard_api&rev=1519172439

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