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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<br>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] |

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

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 | .       |   |

**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

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