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# 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<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 . (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      .

**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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