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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	
0x06	QR	
0x0A	Wiegand	BS2WiegandConfig.format ( BS2WiegandConfig.CSNIndex 가 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 cardAuthMode;
    uint8_t useAlphanumericID;
    uint8_t cardAuthModeEx;
    uint8_t numOfFaceTemplate;
    uint8_t reserved[1];
} 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**

AOC	template	BS2SmartCardCredentials	
AOC	template		, numOfFacetemplate 0

**5. templateSize**

BioStar 2 가 300 가 384 300

**6. issueCount**

**7. duressMask**

**8. cardAuthMode**

IR Face  
 Visual Face cardAuthModeEx

2	
3	
4	PIN
5	PIN
6	, , PIN
254	
255	( )

**9. useAlphanumericID**

Alphanumeric ID flag

**10. cardAuthModeEx**

IR Face cardAuthMode  
 [+ V2.7.1] Visual Face

	1	2	3
21			
22			
23			
24		PIN	
25			

	1	2	3
26		PIN	
27		PIN	
28		PIN	
29			
30			PIN
31			
32			PIN
33			PIN
34			PIN
35			PIN
254			
255	) (		

**11. numOfFaceTemplate**

template 가 ( :384, :552)  
 BS2SmartCardCredentials templateData

AOC	template	BS2SmartCardCredentials
AOC	template	, numOfTemplate 0

**12. reserved**

**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**

## 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 array	가 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

**BS2LockOverride**

```

typedef struct {
    uint8_t cardID[BS2_CARD_DATA_SIZE];    ///< 32 bytes
    uint16_t issueCount;                  ///< 2 bytes

    BS2_CARD_TYPE type;                   ///< 1 byte
    uint8_t size;                          ///< 1 byte

    BS2_USER_ID userID;                   ///< 32 bytes
    uint8_t reserved[4];                   ///< 4 bytes
} BS2LockOverride;
    
```

**1. cardID**

32byte ID .

**2. issueCount**

**3. type**

Lock Override

0x01	CSN	
0x02	Secure	

**4. size**

ID , 32 .

**5. userID**

가 , ID

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