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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	
0x06	QR	
0x0A	Wiegand	BS2WiegandConfig.format (BS2WiegandConfig.CSNIndex 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 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 2 384
가 300 가 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			
26		PIN	
27		PIN	
28		PIN	
29			
30			PIN
31			
32			PIN

	1	2	3
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
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	
Secure Credential Card(SCC)	32 byte	Card ID(24 bytes), issueCount(4 byte)	Time
Stamp(4 byte)			
BS2UserBlob	cardObjs array가	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

From:

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

Permanent link:

https://kb.supremainc.com/kbtest/doku.php?id=ko:smartcard_api&rev=1769584755

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