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

.

0x00		
0x01	CSN	
0x02	Secure	
0x03	Access	
0x06	QR	
0x0A	Wiegand	BS2WiegandConfig.format (BS2WiegandConfig.CSNIndex BS2WiegandConfig.CardMask O .
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*

． 384 ．
BioStar 2 300
300
．

6. *issueCount*
．

7. *duressMask*
．

8. *cardAuthMode*
FaceStation F2 ．
FaceStation F2 **cardAuthModeEx** ．

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

9. *useAlphanumericID*
Alphanumeric ID flag ．

10. *cardAuthModeEx*
FaceStation F2 **cardAuthMode** ．
[+ V2.7.1] FaceStation F2 ．

	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 (: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*

, O   .

3. *endTime*

, O   .

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 array   SC Card   , SC Card   cardObjs
            .

3. *credentials*
pin code   .

4. *accessOnData*
AOC   .

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 Device SDK**

Permanent link:
http://kb.supremainc.com/bs2sdk/doku.php?id=ko:smartcard_api&rev=1631597829

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