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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 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]
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**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**

**5. templateSize**

BioStar 2 가 300 384 가 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
33			PIN
34			PIN
35			PIN
254			

	1	2	3
255	(	)	

11. numOffFaceTemplate

template 가 ( :384, :552)  
 BS2SmartCardCredentials templateData

12. reserved

==== BS2SmartCardCredentials ==== <code cpp> typedef struct { uint8\_t pin[BS2\_PIN\_HASH\_SIZE]; uint8\_t templateData[BS2\_SMART\_CARD\_MAX\_TEMPLATE\_COUNT \* BS2\_FINGER\_TEMPLATE\_SIZE]; } BS2SmartCardCredentials; </code> 1. pin  
 pin code

2. templateData

4  
 ==== BS2AccessOnCardData ==== <code cpp> typedef struct { uint16\_t accessGroupID[BS2\_SMART\_CARD\_MAX\_ACCESS\_GROUP\_COUNT]; BS2\_DATETIME startTime; BS2\_DATETIME endTime; } BS2AccessOnCardData; </code> 1. accessGroupID

2. startTime

가 , 0

3. endTime

가 , 0

==== BS2SmartCardData==== <code cpp> typedef struct { BS2SmartCardHeader header; uint8\_t cardID[BS2\_CARD\_DATA\_SIZE]; BS2SmartCardCredentials credentials; BS2AccessOnCardData accessOnData; } BS2SmartCardData; </code> 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 , SC Card  
 cardObjs

3. credentials

pin code

4. accessOnData

AOC 가  
 ==== BS2Card ==== <code cpp> typedef struct { uint8\_t isSmartCard; union { BS2CSNCard card; BS2SmartCardData smartCard; }; }BS2Card; </code> 1. isSmartCard  
 SmartCard flag

2. card

### 3. *smartCard*\*\* SmartCard

From:

<https://kb.supremainc.com/kbtest/> - **BioStar 2 Device SDK**

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Last update: **2020/08/21 13:09**