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	
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*

데이터의 크기.

3. *data*

데이터.

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 의 체크섬. (cardCRC - reserved)

2. *cardCRC*

card data 의 체크섬. (BS2SmartCardHeader.cardType - BS2SmartCardData.accessOnData)

3. *cardType*

카드의 타입.

0x00	
0x01	CSN
0x02	Secure
0x03	Access
0x0A	Wiegand
0x0B	Config

4. *numOfTemplate*

지문 템플릿의 개수.

5. *templateSize*

지문 템플릿의 크기. 하나의 지문 템플릿은 384 바이트로 고정되어 있습니다.
BioStar 2 에서 사용하는 지문 템플릿은 300 바이트이므로 지문 템플릿 크기를 300
바이트로 지정하여야 합니다.

.

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. *numOfFaceTemplate*

template (: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*
, 0 .

3. *endTime*
, 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 array SC Card** , **SC Card**
cardObjs .

3. *credentials*
pin code .

4. *accessOnData*
AOC .

==== 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:
http://kb.supremainc.com/bs2sdk/ - **BioStar Device SDK**

Permanent link:
http://kb.supremainc.com/bs2sdk/doku.php?id=ko:smartcard_api&rev=1597982962

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