

**User Management API** ..... 1

..... 1

BS2User ..... 1

BS2UserSetting ..... 2

BS2UserPhoto ..... 3

BS2UserBlob ..... 4

BS2Job ..... 5

BS2UserBlobEx ..... 5

BS2UserSmallBlob ..... 6

BS2UserSmallBlobEx ..... 7

BS2UserSettingEx ..... 8

# User Management API

API		
• <a href="#">BS2_GetUserList</a> :	ID	가
• <a href="#">BS2_RemoveUser</a> :		
• <a href="#">BS2_RemoveAllUser</a> :		
• <a href="#">BS2_GetUserInfos</a> :	ID	가
• <a href="#">BS2_GetUserInfosEx</a> :	ID	가 . ([+ 2.4.0] Job code, User phrase )
• <a href="#">BS2_EnrollUser</a> :		
• <a href="#">BS2_EnrollUserEx</a> :		.([+ 2.4.0] Job code, User phrase )
• <a href="#">BS2_EnrollUser</a> : [+ 2.6.3]		
• <a href="#">BS2_EnrollUserEx</a> : [+ 2.6.3]		.(Job code, User phrase )
• <a href="#">BS2_GetUserDatas</a> :		가
• <a href="#">BS2_GetUserDatasEx</a> :		가 .([+ 2.5.0] Job code, User phrase )
• <a href="#">BS2_GetSupportedUserMask</a> :		가
• <a href="#">BS2_EnrollUserSmall</a> : [+ 2.6.3]		,
• <a href="#">BS2_EnrollUserSmallEx</a> : [+ 2.6.3]		,
• <a href="#">BS2_GetUserSmallInfos</a> : [+ 2.6.3]		,
가		ID
• <a href="#">BS2_GetUserSmallInfosEx</a> : [+ 2.6.3]		,
가		ID
• <a href="#">BS2_GetUserSmallDatas</a> : [+ 2.6.3]		,
가		,
• <a href="#">BS2_GetUserSmallDatasEx</a> : [+ 2.6.3]		,
가		,

## BS2User

```
typedef struct {
    char userID[BS2_USER_ID_SIZE];
    uint8_t formatVersion;
    uint8_t flag;
    uint16_t version;
    uint8_t numCards;
    uint8_t numFingers;
    uint8_t numFaces;
    uint8_t reserved2[1];
    uint32_t authGroupID;
    uint32_t faceChecksum;
} BS2User;
```

1. *userID*  
 , 1 ~ 4294967295 가 .

2. *formatVersion*

3. *flag*

flag OR 가

0x00	None
0x01	가
0x02	가
0x04	가
0x80	가

4. *version*

5. *numCards*

6. *numFingers*

7. *numFaces*

8. *authGroupID*

ID.

9. *faceChecksum*

BS2UserSetting

```
typedef struct {
    uint32_t startTime;
    uint32_t endTime;
    uint8_t fingerAuthMode;
    uint8_t cardAuthMode;
    uint8_t idAuthMode;
    uint8_t securityLevel;
} BS2UserSetting;
```

1. *startTime*

가 0

2. *endTime*

가 0

3. *fingerAuthMode*

0	
1	PIN
254	
255	( )

4. cardAuthMode

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

5. idAuthMode

ID

7	ID
8	ID PIN
9	ID PIN
10	ID PIN
254	
255	( )

6. securityLevel

0	
1	
2	
3	
4	
5	

BS2UserPhoto

```
typedef struct {
    uint32_t size;
    uint8_t data[BS2_USER_PHOTO_SIZE];
} BS2UserPhoto;
```

1. *size*

2. *data*

, 16kb

BS2UserBlob

```
typedef struct {
    BS2User user;
    BS2UserSetting setting;
    uint8_t name[BS2_USER_NAME_SIZE];
    BS2UserPhoto photo;
    uint8_t pin[BS2_PIN_HASH_SIZE];
    BS2CSNCard* cardObjs;
    BS2Fingerprint* fingerObjs;
    BS2Face* faceObjs;
    uint32_t accessGroupId[BS2_MAX_NUM_OF_ACCESS_GROUP_PER_USER];
} BS2UserBlob;
```

1. *user*

2. *setting*

3. *name*

UTF-8

4. *photo*

Jpeg

5. *pin*

PIN *BS\_MakePinCode*

6. *cardObjs*

**user.numCards**

[Smartcard API](#)

7. *fingerObjs*

**user.numFingers**

[Fingerprint API](#)

8. *faceObjs*

**user.numFaces**

[Face API](#)

9. *accessGroupId*

가 16

## BS2Job

```
typedef struct {
    uint8_t numJobs;
    uint8_t reserved[3];

    struct {
        BS2_JOB_CODE code;
        BS2_JOB_LABEL label;
    } jobs[BS2_MAX_JOB_SIZE];
} BS2Job;
```

1. *numJobs*

Job .

2. *reserved*

.

3. *jobs*

T&A Job .

## BS2UserBlobEx

```
typedef struct {
    BS2User user;
    BS2UserSetting setting;
    uint8_t name[BS2_USER_NAME_SIZE];
    BS2UserPhoto photo;
    uint8_t pin[BS2_PIN_HASH_SIZE];
    BS2CSNCard* cardObjs;
    BS2Fingerprint* fingerObjs;
    BS2Face* faceObjs;
    BS2Job job;
    BS2_USER_PHRASE phrase;
    uint32_t accessGroupId[BS2_MAX_NUM_OF_ACCESS_GROUP_PER_USER];
} BS2UserBlobEx;
```

1. *user*

.

2. *setting*

.

3. *name*

UTF-8 .

4. *photo*

Jpeg .

5. *pin*

PIN	BS_MakePinCode	.
6. cardObjs	user.numCards	.
Smartcard API		
7. fingerObjs	user.numFingers	.
Fingerprint API		
8. faceObjs	user.numFaces	.
Face API		
9. job		
10. phrase		
UI	(FS2 FW 1.0.0	가 )
11. accessGroupId	16	.
가		

BS2UserSmallBlob

```
typedef struct {
    BS2User user;
    BS2UserSetting setting;
    uint8_t name[BS2_USER_NAME_SIZE];
    BS2UserPhoto* photo;
    uint8_t pin[BS2_PIN_HASH_SIZE];
    BS2CSNCard* cardObjs;
    BS2Fingerprint* fingerObjs;
    BS2Face* faceObjs;
    uint32_t accessGroupId[BS2_MAX_NUM_OF_ACCESS_GROUP_PER_USER];
} BS2UserSmallBlob;
```

1. user	.
2. setting	.
3. name	UTF-8
4. photo	Jpeg
5. pin	
PIN	BS_MakePinCode

6. <i>cardObjs</i>	<b>user.numCards</b>	
Smartcard API		
7. <i>fingerObjs</i>	<b>user.numFingers</b>	
Fingerprint API		
8. <i>faceObjs</i>	<b>user.numFaces</b>	
Face API		
9. <i>accessGroupId</i> 가	16	

BS2UserSmallBlobEx

```
typedef struct {
    BS2User user;
    BS2UserSetting setting;
    uint8_t name[BS2_USER_NAME_SIZE];
    BS2UserPhoto* photo;
    uint8_t pin[BS2_PIN_HASH_SIZE];
    BS2CSNCard* cardObjs;
    BS2Fingerprint* fingerObjs;
    BS2Face* faceObjs;
    BS2Job job;
    BS2_USER_PHRASE phrase;
    uint32_t accessGroupId[BS2_MAX_NUM_OF_ACCESS_GROUP_PER_USER];
} BS2UserSmallBlobEx;
```

1. <i>user</i>		
2. <i>setting</i>		
3. <i>name</i>	UTF-8	
4. <i>photo</i>	Jpeg	
5. <i>pin</i> PIN	BS_MakePinCode	
6. <i>cardObjs</i>	<b>user.numCards</b>	
Smartcard API		



7. *fingerObjs*

Fingerprint API

**user.numFingers**

8. *faceObjs*

Face API

**user.numFaces**

9. *job*

10. *phrase*

UI (FS2 FW 1.0.0 가 )

11. *accessGroupId*

가 16

**BS2UserSettingEx**

```
typedef struct {
    uint8_t faceAuthMode;
    uint8_t fingerprintAuthMode;
    uint8_t cardAuthMode;
    uint8_t idAuthMode;
    uint8_t reserved[28];
} BS2UserSettingEx;
```

FaceStation F2

1. *faceAuthMode*

	1	2	3	4
11				
12				
13		PIN		
14		PIN		
15			PIN	
254				
255	(			
	)			

2. *fingerprintAuthMode*

	1	2	3	4
--	---	---	---	---

	1	2	3	4
16				
17				
18		PIN		
19		PIN		
20			PIN	
254				
255	( )			

3. cardAuthMode

	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			
255	( )		

4. idAuthMode

ID

	1	2	3
--	---	---	---

	1	2	3
36	ID		
37	ID		
38	ID	PIN	
39	ID		
40	ID	PIN	
41	ID	PIN	
42	ID	PIN	
43	ID		
44	ID		PIN
45	ID		
46	ID		PIN
47	ID		PIN
48	ID		PIN
49	ID		PIN
254			
255	( )		

5. reserved

.

From:

[https://kb.supremainc.com/bs2sdk./](https://kb.supremainc.com/bs2sdk/) - **BioStar 2 Device SDK**

Permanent link:

[https://kb.supremainc.com/bs2sdk./doku.php?id=ko:user\\_management\\_api&rev=1597909744](https://kb.supremainc.com/bs2sdk./doku.php?id=ko:user_management_api&rev=1597909744)

Last update:

**2020/08/20 16:49**