

LIFT IO SDK

We haven't allotted Lift IO SDK section in our SDK, but the below will give you some ideas of how to integrate into your system.

Compatibility

LIFT IO is compatible with Xpass, Xpass Slim, and BioEntry Plus.

LIFT setting information is saved as 16byte(128bits), such as unsigned char liftRelay[16]; // 128bit, in the user information structure of BEUserHdr, and the information is transferred to the device.

User transferring uses BS_EnrollUserBEPlus.

[unsigned char liftRelay[16]; // 128bit]

- LIFT IO has twelve OUTPUT(Relay). Each LIFT IO requires 12bit to conduct OUTPUT
 - Current Lift Relay[16] has 128 bit and can conduct up to 10(120bit) LIFT IO. The left 8bit in 128bit is not usable.
 - This is not declared so add it to the structure manually.
- Among the total 128bit Lift relay variables, mark the relay(Output) to use with Bit Mask.
- According to connected ID and Relay(Output) order, mark in order from the front.

Ex) The condition of connecting Lift IO ID from 0 to 9,

Number 0 uses Lift IO's 0,2 relay, Number 2 uses Lift IO's 10,11 Relay

Lift IO ID 0 1 2 3 ... 9

Bit Sequence : 10100000 0000 | 0000 00000000 | 00000000 0011 | 0000 00000000 | ... | ...

Caution) It's necessary to save and use designated mapping floor information to manage the LIFT IO, because floor buttons connected to LIFT IO's Number 0 relay can become arbitrary.

Contents

```
struct BEUserHdr {
    enum {
        // version
        VERSION_1 = 0x01,

        // card Version
        CARD_VERSION_1 = 0x13,
        CARD_VERSION_1_5 = 0x15,

        // command card Flag
        NO_COMMAND = 0x00,
        ENROLL_CARD = 0x01,
        DELETE_CARD = 0x02,
        ENROLL_N_DELETE_CARD = 0x03,

        // card Flag
        NORMAL_CARD = 0x00,
        BYPASS_CARD = 0x01,
    };

    int version;
    unsigned userID;
    time_t startTime;
    time_t expiryTime;
    unsigned cardID;
    unsigned char cardCustomID;
    unsigned char commandCardFlag;
    unsigned char cardFlag;
    unsigned char cardVersion;
    unsigned short adminLevel;
    unsigned short securityLevel;
    unsigned accessGroupMask;
    unsigned short numOfFinger; // 0, 1, 2
    unsigned short fingerChecksum[2];
    unsigned char isDuress[2];
    int disabled;
```

```
int opMode;  
int dualMode;  
char password[16];  
unsigned fullCardCustomID;  
  
unsigned char liftRelay[16]; // 128bit  
  
int reserved2[10];
```