

Lock 20.0 DLL Instruction

DLL: HUNERF.dll. Return 0 when success.

*****Note*****

Note1: The HUNERF.DLL need the support of the files inside the folder “List”, please copy the files inside the folder “List” to your executed file directory.

Note2: For Guest Card, when issue “new card”, please use the following function to get the RPass based on the current Datatime, and record it. (Different room should have its own RPass). When issue “old card”, please use the RPass last time. The “new card ” will stop all of the old guests cards.

String CompactCipherTime(TDateTime DT) //Function to creat RPass for the “new card”.

```
{
String   Scipher;
char     Buffer[16];
DWORD dw;
Word Year, Month, Day, Hour, Min, Sec, MSec;
DecodeDate(DT, Year, Month, Day);
DecodeTime(DT, Hour, Min, Sec, MSec);
dw= (Min/4 )+ Hour*2^4 + Day*(2^9)+ Month*(2^14) +(((Year-8) % 1000)%63)* (2^18);
itoa(dw,Buffer,16);
for(int i=0;i<8;i++)
Buffer[i]=UpCase(Buffer[i]);
Scipher=Buffer;
return(Scipher);
}
```

Explain:

DWORD, double word;

<<, Left move bit; left move 5bit means multiply 2 power 5;

>>, Right move bit; right move 5bit means divide 2 power 5;

% Mode;

/ Divide;

itoa, translate Dec to Hex char;

*****Function declaration*****

1. Key Card, it is used to unlock the lock.

EXTERN_API int WINAPI KeyCard(int Com,int CardNo,int nBlock,int Encrypt,char*

CardPass,char* SystemCode,

char* HotelCode, char* RPass, char* Address, char* SDIn,char* STIn, char* SDOut,char* STOut,

int LEVEL_Pass,int PassMode,int AddressMode,int AddressQty,int TimeMode,

int V8, int V16, int V24, int AlwaysOpen, int OpenBolt,int TerminateOld,

int ValidTimes);

Explain:

Com, the COM port to connect the encoder.

CardNo , card number, 1 to 16777215.

Nblock=4.

Encrypt=1.

CardPass="82A094FFFFFF"

SystemCode , from Database "HDATA".

HotelCode , from Database "HDATA".

RPass, the room password, please the Note2 above.

Address, the lock address, please get this information at Room page of the lock system(Please see the chart attached below).11 Decimal Code,"01"(fixed value)+Building(2 number)+Floor(2 number)+Room(3number)+ Door (2 number).

Example "01020300400", Guest Card of Room 4 ,Floor 3,Building2 .

SDIn: The In Date, format "yy-mm-dd", cannot use "yyyy-mm-dd".

STIn: The In Time, format "hh:nn:ss".

SDOut: The End Date, format "yy-mm-dd", cannot use "yyyy-mm-dd".

STOut: The End Time, format "hh:nn:ss".

LEVEL_Pass, =3 Guest Card, only one room; =13 Guest Card, can open max 7 rooms.

constant long LEV_ROOM_PASS=3 //Guest Card, only one room

constant long LEV_ROOM2_PASS=13// Guest Card, can open max 7 rooms.

PassMode, If LEVEL_Pass =3 then PassMode= 1,otherwise 0

AddressMode, If LEVEL_Pass =3 then AddressMode= 0; If LEVEL_Pass =13 then AddressMode= 2,

AddressQty, the address quantity,

example "01020300400" means AddressQty=1

example "0102030040001020300500" means AddressQty=2

example "01020300400010203005000102030090001020301000" means AddressQty=4

TimeMode= 0

V8,V16,V24 =255.

AlwaysOpen, 1 means always open, 0 means no. Please note that, the Key card has OpenBolt function will make the lock always unlock.

OpenBolt, 1 means can open bolt, 0 means no. Please note that, the Key card has OpenBolt function will make the lock always unlock.

TerminateOld, for Guest Card 1 means Terminate the old Guest Card, 0 means no.(only use for 1 card 1 room, cannot use for 1 card more room)
ValidTimes=255

2. Read Card. It is used to read the card.

```
EXTERN_API int WINAPI ReadMessage(int Com ,int nBlock,int Encrypt,int* DBCardno,int* DBCardtype,int* DBPassLevel,
    char* CardPass,char* DBSystemcode,char* DBAddress, char* SDateTime);
```

Explain:

Com, the COM port to connect the encoder.

Nblock=4

Encrypt=1

DBCardNo , card number, read from the card.

DBCardtype, card type, read from the card. undefined yet.

DBPassLevel, undefined yet.

CardPass="82A094FFFFFF"

DBSystemcode, SystemCode, read from the card.

DBAddress, undefined yet.

SdateTime, undefined yet.

Attached:

See the room information. At the room page, it shows all room information, for example, Room206, Address="01010200600".

Room Management

Building&1

Floor&2

Room&3

Select the floor before editing the room

Building

B1

Floor

F2

Room No

006

Room Type

Single Room

Room Name

206

Price

.00

Tel

Environment

Initialization Card

Initialization Card 2

Clock Card

Clear Card

Add

Edit

Cancel

OK

Delete

Close

	Room Name	Type	Price	Room Addr	Floor
	202	Single Ro		01010200200	2
	203	Single Ro		01010200300	2
	204	Single Ro		01010200400	2
	205	Single Ro		01010200500	2
	206	Single Ro		01010200600	2
	207	Single Ro		01010200700	2

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char room information