

Card Dispenser F3 API Instruction

This file include F3-1300 reader's API instruction.

Files list:

F3API.h

F3API.lib

F3API.dll

API Reference:

Basic Operate:

F3_Connect

A6_Connect Build a connection between Program and reader

LONG WINAPI F3_Connect

```
(  
IN DWORD dwPort,  
IN DWORD dwSpeed,  
IN BYTE bCRAAddr,  
OUT LPREADERHANDLE lphReader  
);
```

Parameter:

dwPort COM Port number, Available value: 1 ~ 256.

DwSpeed Baud rate, available value:

9600

19200

38400

57600

BCRAAddr Machine address, value at 00~15

phReader Return a mark with card reader connectoin's handle

Return Value:

Return 0 is success, other number are error.

F3_Disconnect Disconnect program and reader's communication

LONG

WINAPI

F3_Disconnect

```
( IN READERHANDLE hReader );
```

Parameter:

hReader Reference F3_Connect return handle value

Return Value:

Return 0 is success, other number are error.

F3_Initialize Reset card reader

LONG

WINAPI

F3_Initialize

```
(  
  IN READERHANDLE hReader,  
  IN BYTE bMode,  
  IN BOOL fEnableCounter,  
  OUT PSTR pszRevBuff,  
  IN OUT PDWORD pcbRevLength  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

bMode Reset model, available value:

 INIT_RETURN_TO_FRONT Reset and move card to exit port

 INIT_CAPTURE_TO_BOX Reset and reclaim card

 INIT_WITHOUT_Movement Reset but card no action

fEnableCounter on/off the collect card counter function

pszRevBuff return firmware version info

pcbRevLength provide "pbVerBuff" parameter data length (byte number), and receive reader
return data.

Return Value:

Return 0 is success, other number are error.

F3_GetCRStatus To get dispenser status

LONG WINAPI

F3_GetCRStatus

```
(  
  IN READERHANDLE hReader,  
  OUT PCRSTATUS lpStatus  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

lpStatus Point to return status.

Return Value:

Return 0 is success, other number are error.

F3_GetSenseDetail To get sensor status info

LONG

WINAPI

F3_GetSenserDetail

```
(  
IN READERHANDLE hReader,  
OUT BYTE (&bStatus)[NUM_SENSORS]  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

bStatus Return sensor status, it's from S1~S10、KS1、KS2, Value 0x31, mean detected card; 0x30, means no card.

Return Value:

Return 0 is success, other number are error.

F3_MoveCard Move card

LONG

WINAPI

F3_MoveCard

```
(  
IN READERHANDLE hReader,  
IN BYTE bMode  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

bMode Move mode, valid value:

MM_RETURN_TO_FRONT	Move card to front port and hold on
MM_RETURN_TO_IC_POS	Move card to reader IC position
MM_RETURN_TO_RF_POS	Move card to RFID reading position
MM_CAPTURE_TO_BOX	Reclaim card
MM_EJECT_TO_FRONT	Move card to front port and drop out

Return Value:

Return 0 is success, other number are error.

F3_PermitInsertion Enable card entry from front port

```
LONG  
WINAPI  
F3_PermitInsertion  
(  
    __in READERHANDLE hReader  
);
```

Parameter

hReader Quote F3_Connect return handle value.

Return Value:
Return 0 is success, other number are error.

F3_DenielInsertion Disable card entry from front port

```
LONG  
WINAPI  
A6_DenielInsertion  
(  
    __in READERHANDLE hReader  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

Return Value:
Return 0 is success, other number are error.

F3_DetectIccType Analyse IC card type

```
LONG  
WINAPI  
F3_DetectIccType  
(  
    IN READERHANDLE hReader,  
    OUT PBYTE pbCardType  
);
```

Parameter:

hReader Quote F3_Connect return handle value.
pbCardType Return IC card type, value may as :

ICCTYPE_UNKNOWN
ICCTYPE_TO_CPU
ICCTYPE_T1_CPU
ICCTYPE_SLE4442
ICCTYPE_SLE4428
ICCTYPE_AT24C01
ICCTYPE_AT24C02
ICCTYPE_AT24C04
ICCTYPE_AT24C08
ICCTYPE_AT24C16
ICCTYPE_AT24C32
ICCTYPE_AT24C64
ICCTYPE_AT24C128
ICCTYPE_AT24C256

Return Value:

Return 0 is success, other number are error.

F3_DetectRfcType Detect RFID card type

```
LONG  
WINAPI  
F3_DetectRfcType  
(  
IN READERHANDLE hReader,  
OUT PBYTE pbCardType  
);
```

Parameter:

hReader Quote F3_Connect return handle value.
pbCardType Return RFID card type may as:

RFCTYPE_UNKNOWN
RFCTYPE_MIFARE_S50
RFCTYPE_MIFARE_S70
RFCTYPE_MIFARE_UL
RFCTYPE_TYPEA_CPU
RFCTYPE_TYPEB_CPU

Return Value:

Return 0 is success, other number are error.

Contact CPU Card Operate

F3_CpuActivate CPU card activate (cold reset)

LONG
WINAPI
F3_CpuActivate
(
IN READERHANDLE hReader,
OUT PBYTE pbProtocol,
OUT PBYTE pbATRBuff,
IN OUT PDWORD pcbATRLength,
IN OPTIONAL BYTE bVCC = VCC_5V_EMV
);

Parameter:

hReader Quote F3_Connect return handle value.

pbProtocol Return CPU card type, value may as:

ICC_PROTOCOL_T0

ICC_PROTOCOL_T1

pbATRBuff Point to return reset info. If not NULL, pcbATRLength can not be NULL.

pcbATRLength Provide pbATRBuff parameter length (byte numbers) and receive reader return's length.

bVCC Activate IC card voltage, valid value:

VCC_5V_EMV Use 5V and EMV standard

VCC_5V_ISO7816 Use 5V and ISO7816 standard

VCC_3V_ISO7816 Use 3V and ISO7816 standard

Return Value:

Return 0 is success, other number are error.

F3_CpuDeactivate CPU card dis activate

LONG
WINAPI
F3_CpuDeactivate
(
IN READERHANDLE hReader
);

Parameter:

hReader Quote F3_Connect return handle value.

Return Value:

Return 0 is success, other number are error.

F3_CpuGetStatus Get CUP card status

LONG

WINAPI

F3_CpuGetStatus

```
(  
IN READERHANDLE hReader,  
OUT PBYTE pbStatus  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

pbStatus Return CPU card status, value may as:

STATUS_DEACTIVATION CPU card haven't activated

STATUS_CLKFREQ_3_57 CPU card have activated, working frequency at 3.57 MHz

STATUS_CLKFREQ_7_16 CPU have activated, working frequency at 7.16 MHz

Return Value:

Return 0 is success, other number are error.

F3_CpuWarmReset CPU card warm reset

LONG

WINAPI

F3_CpuWarmReset

```
(  
IN READERHANDLE hReader,  
OUT PBYTE pbProtocol,  
OUT PBYTE pbATRBuff,  
IN OUT PDWORD pcbATRLength  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

pbProtocol Return CPU card protocol type, value may as:

ICC_PROTOCOL_T0

ICC_PROTOCOL_T1

pbATRBuff Point to return reset info. If not NULL, pcbATRLength can not be NULL.

pcbATRLength Provide pbATRBuff parameter length (byte numbers) and receive reader return's length.

Return Value:

Return 0 is success, other number are error.

F3_CpuTransmit CPU Card data transmit

LONG

WINAPI

F3_CpuTransmit

```
(  
IN READERHANDLE hReader,  
IN BYTE bProtocol,  
IN PBYTE pbSendBuff,  
IN USHORT cbSendLength,  
OUT PBYTE pbRecvBuff,  
IN OUT PDWORD pcbRecvLength  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

bProtocol CPU card communicate protocol type, value as:

ICC_PROTOCOL_T0 T = 0 Protocol

ICC_PROTOCOL_T1 T = 1 Protocol

ICC_PROTOCOL_AUTO Automatic select T=0 Or T=1 Protocol

pbSendBuff Point to data which was written. Can not be "NULL"

cbSendLength Provide pbSendBuff parameter length. (bytes)

pbRecvBuff Point to return data. Can not be "NULL"

pcbRecvLength Provide pbRecvBuff parameter length. (bytes), and receive the real return data length, Can not be "NULL"

Return value:

Return 0 is success, other number are error.

SAM Card Operate Functions:

F3_SamActivate SAM Activate(cold reset)

LONG

WINAPI

F3_SamActivate

```
(  
IN READERHANDLE hReader,  
OUT PBYTE pbProtocol,  
OUT PBYTE pbATRBuff,  
IN OUT PDWORD pcbATRLength,  
IN OPTIONAL BYTE bVCC = VCC_5V_EMV  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

pbProtocol Return SAM card protocol type, value as:

ICC_PROTOCOL_T0

ICC_PROTOCOL_T1

pbATRBuff Point to return reset info. If not NULL, pcbATRLength also can not be NULL.

pcbATRLength Provide pbATRBuff parameter length, and receive the real return data length

bVCC Aticate card voltage, value as:

VCC_5V_EMV	5V with EMV standard
VCC_5V_ISO7816	5V with ISO7816 standard
VCC_3V_ISO7816	3V with ISO7816 stadnard

Return value:

Return 0 is success, other number are error.

F3_SamDeactivate SAM card release(Deactivate)

LONG

WINAPI

F3_SamDeactivate

```
(  
IN READERHANDLE hReader  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

Return value:

Return 0 is success, other number are error.

F3_SamGetStatus , Check SAM card status

LONG

WINAPI

F3_SamGetStatus

```
(  
IN READERHANDLE hReader,  
OUT PBYTE pbStatus,  
OUT PBYTE pbSAMNumber  
);
```

Parameter:

hReader Quote F3_Connect return handle value.

pbStatus Return SAM card status, value as:

STATUS_DEACTIVATION CPU Card haven't activated

STATUS_CLKFREQ_3_57 CPU card have activated, working frequency at 3.57 MHz

STATUS_CLKFREQ_7_16 CPU card have activated, working frequency at 7.16 MHz

pbSAMNumber Return present SAM card number, value may be: 1, 2, 3, ...

Return value:

Return 0 is success, other number are error code.

F3_SamWarmReset SAM card warm reset.

LONG

WINAPI

F3_SamWarmReset

```
(  
IN READERHANDLE hReader,  
OUT PBYTE pbProtocol,  
OUT PBYTE pbATRBuff,
```

IN OUT PDWORD pcbATRLength

);

Parameter:

hReader Quote F3_Connect return handle value.

bSAMNumber SAM card number, available value: 1, 2, 3, ...

Return value:

Return 0 is success, other number are error code.

SLE4442 Card Operation function:

F3_Sle4442 Activate Activate SLE4442 card

LONG

WINAPI

F3_Sle4442Activate

(

IN READERHANDLE hReader,

OUT PBYTE pbATRBuff,

IN OUT PDWORD pcbATRLength

);

Parameter:

hReader Quote F3_Connect return handle value

pbATRBuff Point to the returned reset info. If it is not NULL, bpbATRLength can also not NULL.

pcbATRLength Provide pbATRBuff parameter length (byte numbers) and receive the real return length from reader.

Return value:

Return 0 is success, other number are error code.

F3_Sle4442Deactivate

Release SLE4442 card:

LONG

WINAPI

F3_Sle4442Deactivate

(

IN READERHANDLE hReader

);

Parameter:

hReader Quote F3_Connect return handle value

Return value:

Return 0 is success, other number are error code.

F3_Sle4442GetStatus

Get SLE4442 card status:

LONG

WINAPI

F3_Sle4442GetStatus

```
(  
    IN READERHANDLE hReader,  
    OUT PBOOL pfActivated  
);
```

Parameter:

hReader Quote F3_Connect return handle value

pfActivated retrun value is TRUE, means card have been activated, return value is FALSE, means card didn't activated.

Return value:

Return 0 is success, other number are error code.

F3_Sle4442ReadMainMemory

Read the main storage memory:

LONG

WINAPI

F3_Sle4442ReadMainMemory

```
(  
    IN READERHANDLE hReader,  
    IN BYTE bStartAddress,  
    IN BYTE bBytesToRead,  
    OUT PBYTE pbBuffer,  
    IN OUT PDWORD pcbLength  
);
```

Parameter:

HReader Quote F3_Connect return handle value

BstartAddress Address want to operate

bBytesToRead Byte numbers want to read

pcbLength Provide pbBuffer parameter length (byte numbers) and receive the real return length from reader.

Return value:

Return 0 is success, other number are error code.

F3_Sle4442UpdateMainMemory

Update main memory:

LONG

WINAPI

F3_Sle4442UpdateMainMemory

```
(  
IN READERHANDLE hReader,  
IN BYTE bStartAddress,  
IN BYTE nBytesToWrite,  
IN PBYTE pbBuffer  
);
```

Parameter:

hReader Quote F3_Connect return handle value

bStartAddress Address want to operate

bBytesToWrite Byte numbers want to write

pbBuffer Point to the data which want to write to a card. Can not be NULL.

Return value:

Return 0 is success, other number are error code.

F3_Sle4442ReadProtectionMemory

Read protected memory:

LONG

WINAPI

F3_Sle4442ReadProtectionMemory

```
(  
IN READERHANDLE hReader,  
IN BYTE bStartAddress,  
IN BYTE bBytesToread,  
OUT PBYTE pbBuffer  
IN OUT PDWORD pcbLength  
);
```

Parameter:

hReader Quote F3_Connect return handle value

bStartAddress Address want to operate

bBytesToRead Byte numbers want to read

pbBuffer Point to return value, can not be NULL

pcbLength Provide pbBuffer parameter length (byte numbers) and receive the real return length from reader.

Return value:

Return 0 is success, other number are error code.

F3_Sle4442WriteProtectionMemory

Write protect memory

LONG

WINAPI

F3_Sle4442WriteProtectionMemory

```
(  
IN READERHANDLE hReader,  
IN BYTE    bStartAddress,  
IN BYTE    bBytesToread,  
OUT PBYTE  pbBuffer,  
IN OUT PDWORD pcbLength  
);
```

Parameter:

hReader Quote F3_Connect return handle value
bStartAddress Address want to operate
bBytesToWrite Byte numbers want to write
pbBuffer Point to the data which want to write to a card. Can not be NULL.

Return value:

Return 0 is success, other number are error code.

F3_Sle4442ReadSecurityMemory

Read security memory:

LONG

WINAPI

F3_Sle4442ReadSecurityMemory

```
(  
IN READERHANDLE hReader,  
IN BYTE bStartAddress,  
IN BYTE bBytesToRead,  
OUT PBYTE pbBuffer,  
IN OUT PDWORD pcbLength  
);
```

Parameter:

hReader Quote F3_Connect return handle value
bStartAddress Address want to operate
bBytesToRead Byte numbers want to read
pbBuffer Point to return value, can not be NULL
pcbLength Provide pbBuffer parameter length (byte numbers) and receive the real return

length from reader.

Return value:

Return 0 is success, other number are error code.

F3_Sle4442VerifyPSC

Verify security code:

LONG

WINAPI

F3_Sle4442VerifyPSC

```
(  
IN READERHANDLE hReader,  
IN BYTE (&bPSCBytes)[3]  
);
```

Parameter:

hReader Quote F3_Connect return handle value

bPSCBytes Security code byte groups quantities

Return value:

Return 0 is success, other number are error code.

F3_Sle4442UpdatePSC

Update Security code:

LONG

WINAPI

F3_Sle4442UpdatePSC

```
(  
IN READERHANDLE hReader,  
IN BYTE (&bPSCBytes) [3]  
);
```

Parameter:

hReader Quote F3_Connect return handle value

bPSCBytes Security code byte groups quantities

Return value:

Return 0 is success, other number are error code.

F3_Sle4442WriteErrorCounter

Write password incorrect counter:

```
LONG  
WINAPI  
F3_Sle4442WriteErrorCounter  
(  
IN READERHANDLE hReader,  
IN BYTE bValue  
);
```

Parameter:

hReader Quote F3_Connect return handle value
bValue Incorrect count value

Return value:

Return 0 is success, other number are error code.

RFID Card Operation Function

RFID Card Operation Function

```
F3_RfcActivate  
RFID Card Activated  
LONG  
WINAPI  
F3_RfcActivate  
(  
IN READERHANDLE hReader,  
OUT PBYTE pbATRBuff,  
IN OUT PDWORD pcbATRLength,  
IN BYTE bFirstProtocol = RFC_PROTOCOL_NONE,  
IN BYTE bSecondProtocol = RFC_PROTOCOL_NONE  
);
```

Parameter:

hReader Quote F3_Connect return handle value

pbATRBuff Point to return reset info, if not NULL, pcbATRLength also can't be NULL
pcbATRLength Provide pbATRBuff Parameter length (quantity of bytes) and receive reader real
return length.

bFirstProtocol First option protocol, available value:
RFC_PROTOCOL_NONE
RFC_PROTOCOL_TYPE_A
RFC_PROTOCOL_TYPE_B
F3_RfcActivate

bSecondProtocol Second option protocol, available value:
RFC_PROTOCOL_NONE
RFC_PROTOCOL_TYPE_A
RFC_PROTOCOL_TYPE_B

Return value:
Return 0 is success, other number are error code.

F3_RfcDeactivate

RFID Card Released

LONG WINAPI
F3_RfcDeactivate
(
IN READERHANDLE hReader
);

Parameter:

hReader Quote F3_Connect return handle value

Return value:
Return 0 is success, other number are error code.

F3_RfcGetStatus

Check RF Card Status

LONG
WINAPI
F3_RfcGetStatus
(
IN READERHANDLE hReader,

OUT PBYTE pbActivatedCard
);

Parameter:

hReader Quote F3_Connect return handle value

pbActivatedCard Return the activated RF card type, Value maybe:

RFCTYPE_UNKNOWN No RF card was activated

RFCTYPE_MIFARE_S50

RFCTYPE_MIFARE_S70

RFCTYPE_MIFARE_UL

RFCTYPE_TYPEA_CPU

RFCTYPE_TYPEB_CPU

Return value:

Return 0 is success, other number are error code.

Mifare Operation:

F3_MfVerifyPassword

Verify sector

LONG

WINAPI

F3_MfVerifyPassword

(

IN READERHANDLE hReader,

IN BYTE bSectorNumber,

IN BOOL fWithKeyA,

IN BYTE (&bKeyBytes)[6]

);

Parameter:

hReader Quote F3_Connect return handle value

bSectorNumber Sector number which want to verify

fWithKeyA Value is TRUE, verify KEY-A; Value is FALSE, verify KEY-B

bKeyBytes Groups quantity of password byte

Return value:

Return 0 is success, other number are error code.

F3_MfUpdatePassword

Update the sector password

LONG

WINAPI

F3_MfUpdatePassword

```
(  
IN READERHANDLE hReader,  
IN BYTE bSectorNumber,  
IN BYTE (&bKeyBytes)[6]  
);
```

Parameter

hReader Quote F3_Connect return handle value
bSectorNumber Sector number
bKeyBytes New password byte group number

Return value:

Return 0 is success, other number are error code.

F3_MfLoadPassword

Loading password from EEPROM and verify sector

LONG

WINAPI

F3_MfLoadPassword

```
(  
IN READERHANDLE hReader,  
IN BYTE bSectorNumber,  
IN BOOL fWithKeyA  
);
```

Parameter:

hReader Quote F3_Connect return handle value
bSectorNumber Sector number which want to verify
fWithKeyA Value is TRUE, verify KEY-A; Value is FALSE, verify KEY-B

Return value:

Return 0 is success, other number are error code.

F3_MfDownloadPassword

Download password to EEPROM

```
LONG  
WINAPI  
F3_MfDownloadPassword  
(  
    IN READERHANDLE hReader,  
    IN BYTE bSectorNumber,  
    IN BOOL fWithKeyA,  
    IN BYTE (&bKeyBytes)[6]  
);
```

Parameter:

hReader Quote F3_Connect return handle value
bSectorNumber Sector number which want to verify
fWithKeyA Value is TRUE, verify KEY-A; Value is FALSE, verify KEY-B
bKeyBytes Groups quantity of password byte

Return value:

Return 0 is success, other number are error code.

F3_MfReadSector

Read sector block data

```
LONG  
WINAPI  
F3_MfReadSector  
(  
    IN READERHANDLE hReader,  
    IN BYTE bSectorNumber,  
    IN BYTE bStartBlockNumber,  
    IN BYTE bBlocksToRead,  
    OUT PBYTE pbBuffer,  
    IN OUT PDWORD pcbLength  
);
```

Parameter:

hReader Quote F3_Connect return handle value
bSectorNumber Sector number which want to operate
bStartBlockNumber The start block number


```
IN READERHANDLE hReader,  
IN BYTE bSectorNumber,  
IN BYTE bBlockNumber,  
IN UINT32 iValue  
);
```

Parameter:

hReader	Quote F3_Connect return handle value
bSectorNumber	Sector number which want to operate
bBlockNumber	Block number which want to operate
iValue	value to the Initialize block

Return value:

Return 0 is success, other number are error code.

F3_MfReadValue

Read value block

LONG

WINAPI

F3_MfReadValue

```
(  
IN READERHANDLE hReader,  
IN BYTE bSectorNumber,  
IN BYTE bBlockNumber,  
OUT UINT32 *piValue  
);
```

Parameter:

hReader	Quote F3_Connect return handle value
bSectorNumber	Sector number which want to operate
bBlockNumber	Block number which want to operate
piValue	Return block value

Return value:

Return 0 is success, other number are error code.

F3_MfIncrementValue

Increase value

LONG
WINAPI
F3_MfIncrementValue
(
IN READERHANDLE hReader,
IN BYTE bSectorNumber,
IN BYTE bBlockNumber,
IN UINT32 iValue
);
Parameter:

hReader Quote F3_Connect return handle value
bSectorNumber Sector number which want to operate
bBlockNumber Block number which want to operate
iValue Value which want to add to block

Return value:
Return 0 is success, other number are error code.

F3_MfDecrementValue

Minus value

LONG
WINAPI
F3_MfDecrementValue
(
IN READERHANDLE hReader,
IN BYTE bSectorNumber,
IN BYTE bBlockNumber,
IN UINT32 iValue
);

Parameter:

hReader Quote F3_Connect return handle value
bSectorNumber Sector number which want to operate
bBlockNumber Block number which want to operate
iValue Value which want to minus from the block

Return value:
Return 0 is success, other number are error code.

Card dispenser Structure Status:

Channel information structure:

```
typedef struct _CRSTATUS
{
BYTE bLaneStatus;
BYTE bCardBoxStatus;
BOOL fCaptureBoxFull;
} CRSTATUS, *PCRSTATUS;
```

Members:

bLaneStatus Channel status, available value:

LS_NO_CARD_IN Have no card in the machine
LS_CARD_AT_GATE_POS Card in the export card position
LS_CARD_IN Have card in

bCardBoxStatus Card stacker status, available value:

CBS_EMPTY Card stacker is empty
CBS_INSUFFICIENT Card stacker card less
CBS_ENOUGH Card stacker have enough card inside

fCaptureBoxFull Value is TRUE, Means collect stacker was full; Value is FALSE, means haven't full.

Error Code descriptions:

F3_S_SUCCESS Operate success

F3_E_PORT_UNAVAILABLE COM are not exist OR was occupied

F3_E_DEV_NOT_RECOGNIZED Device not detected, may cause by:

1 COM number incorrect

2 Baud rate incorrect

3 Address incorrect

4 COM cable has problem

(Remark: only after quote F3_Connect functions, then may return such error)

F3_E_COMM_ERROR Communicate error, may cause by:

1 The receive character haven't define in the communication protocol.

2 Return response info's head package, package tail or BBC incorrect.

3 Return response data length different from the communication protocol define.

F3_E_COMM_TIMEOUT	Communication time-out
F3_E_UNKNOWN_ERROR	Inner error, need to check
F3_E_MESSAGE_TOO_LONG	message length over 1024 byte
F3_E_NO_MEMORY	Has no enough RAM for present operate
F3_E_BUFFER_TOO_SMALL	Receive return data's Buffer too small.
F3_E_INVALID_HANDLE	invalid handle
F3_E_UNDEFINED_COMMAND	Undefine command
F3_E_INVALID_PARAMETER	Provide one or several parameter invalid or be NULL value.
F3_E_DISABLED_COMMAND	Command can't execute in present status.
F3_E_UNSUPPORTED_COMMAND	Un support command
F3_E_CONTACT_NO_RELEASE	IC contact haven't released
F3_E_CARD_JAMMED	Card jam
F3_E_SENSOR_ABNORMALITY	Sensor abnormity
F3_E_TOO_LONG_CARD	Card length too long
F3_E_TOO_SHORT_CARD	Card length too short
F3_E_CARD_WITHDRAWN	When collect card, the card was taken
F3_E_IC_SOLENOID_ERROR	IC Electromagnetic coil error
F3_E_CANT_MOVED_TO_IC_POS	Can't move card to IC contact position
F3_E_CARD_POSITION_CHANGE	Card position was change by hand operate
F3_E_COUNTER_OVERFLOW	Collect card counter overflow
F3_E_MOTOR_ABNORMALITY	Motor abnormity
F3_E_POWER_SHORT	IC Card power supplier short circuit
F3_E_ICC_ACTIVATION_ERROR	IC card activated error
F3_E_ICC_NOT_ACTIVATED	IC card didn't activate
F3_E_UNSUPPORTED_ICC	Not support such IC card
F3_E_ICC_RECEPTION_ERROR	Receive data from IC card error
F3_E_ICC_COMM_TIMEOUT	IC card communication time out
F3_E_MISMATCH_EMV	CPU/SAM card not compatible with EMV2000 directive
F3_E_CARD_BOX_EMPTY	Card stacker empty
F3_E_CAPTURE_BOX_FULL	Card collect stacker was full
F3_E_WAITING_FOR_RESET	Waiting for reset
F3_E_COMMAND_FAILURE	◆ Command execute fail
F3_E_DISAGREEMENT_OF_VC	Verify code incorrect
F3_E_CARD_LOCKED	Card was locked
F3_E_ADDRESS_OVERFLOW	Operate address overflow
F3_E_LENGTH_OVERFLOW	Operate length overflow