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# 1 Introduction

This manual describes an OEM program product FKAttend which provides interfaces for development of applications using FK6xx serial fingerprint time attendance terminals.

FKAttend consists of FKAttend. ocx, FKAttend.dll and FKViaDev.dll for development of programs.

FKAttend.ocx is an interface OCX for connection of the devices with the applications.

FKAttend.dll is an interface DLL for connection of the devices with the applications. It has the same functions as FKAttend.ocx.

FKViaDev.dll is a communication DLL for communicating with the devices.

The interface is composed of seven parts.

- **(1)** Connection and disconnection of devices To connect and disconnect with the devices
- Management of registered data To manage the registered data, i.e., to read, write and delete the
   data of the users(registrants) registered in the devices
- *③ Management of recorded data* To read out the data relating to the management and the attendances recorded in the devices
- Management of registrants` information To get or set the registrants` names, messages and other information
  - (5) Management of devices To get or set the time and status of the devices
  - **6** Management of bells To get or set the time of the bells
  - © Control of doors To get or set the information relating to the control of doors

# 2 FKAttend.OCX Interface

## 2.1 Connection and Disconnection of Devices

#### 2.1.1 ConnectComm

1 COMMCCTOC				
Туре		long ConnectComm(long nMachineNumber, long nComPort, long nBaudRate, char * pstrTelNumber, long nWaitDialTime, long nLicense)		
Functionality	To oper	n the COM	port to connect to the device via the RS-232/485 cable.	
	nMachi	ineNumber	Number granted to the device to be connected with	
	nComP	ort	Sequence number of COM port	
Parameter	nBaudRate		Communication baudrate	
Farameter	pstrTelNumber		Telephone number	
	nWaitI	DialTime	Standby time for phone connection (the unit is ms.)	
	nLicens	se	License for connection	
Return			failure returns the corresponding error code. For details of error to "4.2 Error Code Table".	
Othora	1	-	umber" and "nWaitDialTime" are used when connecting to the device e modem. Enter 0 when the modem is not used.	
Others	2		is a license number granted to the device for the connection. Enter the use nuber, or it is unable to connect with the device.	

### 2.1.2 ConnectNet

- Common Marie				
Туре	long ConnectNet(long nMachineNumber, char * strIpAddress, long nPort, long nTimeOut, long nProtocolType, long nNetPassword, long nLicense)			
Functionality	To open the networ	k port to connect with the device via the network cable.		
	nMachineNumber	Number granted to the device to be connected with		
	strIpAddress	TCP/IP address of the device to be connected with		
	nPort	Sequence number of network port		
Parameter	nTimeOut	Standby time for the connection (the unit is ms.)		
	nProtocolType	Kind of protocol		
	nNetPassword	Network password		
	nLicense	License for connection		
Return Success returns 1; failure returns the corresponding error code. codes, please refer to "4.2 Error Code Table".				
		error codes after waiting as long as "nTimeOut" designates if the evice has not been connected to the network,		
		2 "nProtocolType" designates the kind of protocol used for the network		
Others	connection			
		OCOL_TCPIP - TCP/IP communication		
	1 : PROT	OCOL_UDP - UDP communication		
	3 "nLicense"	has the same meaning as "2.1.1 ConnectComm".		

#### 2.1.3 ConnectUSB

Type	ong ConnectUSB(long nMachineNumber, long nLicense)		
Functionality	To open the USB port to connect with the device via the USB cable.		

Parameter	nMachineNumber  Number granted to the device to be connected with		
	nLicense	License for connection	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 "nLicense" has the same meaning as "2.1.1 ConnectComm".		

### 2.1.4 DisConnect

Type	void D	void DisConnect(void)		
Functionality To disconnect with the device			the device	
Parameter				
Return	None			
Others	1		nect with the device linked by ConnectComm or ConnectNet and close bonding open ports	

## 2.1.5 ConnectGetIP

Type	long	long ConnectGetIP(BSTR *strComName)		
Functionality	Generating IP address by name			
Parameter	rameter strComName		Name of machine to find its IP address	
Others	1 To disconn		nect with the device linked by ConnectComm or ConnectNet and close	
		the corresponding open ports		

# 2.2 Management of Registered Data

## 2.2.1 GetEnrollData

Туре	long GetEnrollData(long anEnrollNumber, long anBackupNumber, long *apnMachinePrivilege, long *apnEnrollData, long *apnPassWord)		
Functionality	To get the authorizatio	n and enrollment data of the registrants registered in the device	
Parameter	anEnrollNumber	Registration number	
	anBackupNumber	Number representing the kind of the enrollment data	
	apnMachinePrivilege	Variable pointer to the authorization of the registrants	
	apnEnrollData	Variable pointer to the fingerprint data	
	apnPassWord	Variable pointer of data relating to password or cards	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	When the execution successes, the corresponding enrollment data are returned to "apnEnrollData" or "apnPassWord" according to "anBackupNumber".		
	For the meanings of the operational authorization returned as "apnMachinePrivilege", please refer to "2.4.2 ModifyPrivilege".		

3	Every registrant can have three fingerprints, a password or a card number registered in the devices. The kind of these data is reflected in "anBackupNumber".
	The following values are returned to "anBackupNumber":  0: BACKUP_FP_0 - registered in the first zone for fingerprints
	9: BACKUP_FP_9 - registered in the ninth one
	10: BACKUP_PSW - passwords registered
	11 : BACKUP_CARD – cards registered

### 2.2.2 GetEnrollDataWithString

	30011 0110 01 1116			
Type		long GetEnrollDataWithString(long anEnrollNumber, long anBackupNumber, long *apnMachinePrivilege, char * apstrEnrollData)		
Functionality	To get th	e enrollment d	lata in the type of a string. It is equal to GetEnrollData.	
Parameter	anEnrollNumber		Registration number	
	anBackupNumber		Number classifying the kind of the enrollment data	
	apnMachinePrivilege		Variable pointer of operational authorization of the registrants	
	apstrEnrollData		Variable pointer of the enrollment datas	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 The enrollme		ent data is alwayse returned to "apstrEnrollData"	
	2	For other par	rameters, please refer to "2.2.1 GetEnrollData".	

## 2.2.3 PutEnrollData

Туре	long PutEnrollData(long anEnrollNumber, long anBackupNumber,s long anMachinePrivilege, long *apnEnrollData, long anPassword)			
Functionality	To transmit to the device the enrollment data and operational authorization of the persons to be registereds			
Parameter	anEnrollNumber		Registration number	
	anBacku	ıpNumber	Number classifying the kind of the enrollment data	
	anMach	inePrivilege	Operational authorization of the registrant	
	apnEnrollData		Variable pointer of the fingerprint data	
	anPassword		Password or card number data	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	As for "anBackupNumber", please refer to "2.2.1 GetEnrollData".		
	2 As for "anMachinePrivilege", please refer to "2.4.2 ModifyPrivilege"		achinePrivilege", please refer to "2.4.2 ModifyPrivilege"	
	3 "apnEnrollData" or "apnPassword" data are transferred according to "anBackupNumber".		<u>-</u>	
	The transferred data will be registered in the device when you should execu the command "SaveEnrollData" after execution of PutEnrollData. For the command "SaveEnrollData", please refer to "2.2.5 SaveEnrollData".			

## 2.2.4 PutEnrollDataWithString

		5			
Type	long PutEnrollDataWithString(long anEnrollNumber, long anBackupNumber, long				
	anMachinePrivilege, BSTR apstrEnrollData)				
Functionality	To contain the enrollment data in the type of a string. It is equal to PutEnrollData.				
Parameter	anEnrollNumber	Registration number			

	anBackupN	Number	Number classifying the kind of the enrollment data
	anMachinePrivilege		Operational authorization of the registrants
	apstrEnrollData		Variable pointer of the enrollment data
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 T	The enrollment data are alwayse are contained by "apstrEnrollData".	
	2 A	s for the ot	ther parameters, please refer to "2.2.3 PutEnrollData".

### 2.2.5 SaveEnrollData

Type	long Sa	ong SaveEnrollData(void)			
		Fo register in the device the enrollment data transferred with a command 'PutEnrollData' or "PutEnrollDataWithString".			
Parameter					
Return		uccess returns 1; failure returns the corresponding error code. For details of error odes, please refer to "4.2 Error Code Table".			
Others		Before using this command, you should transmit to the device the data to be registered with a command "PutEnrollData" or "PutEnrollDataWithString".			

### 2.2.6 DeleteEnrollData

Type	long DeleteEnrollData(long anEnrollNumber, long anBackupNumber)			
Functionality	To delet	e the design	ated enrollment data from the device	
Parameter	anEnrol	nnEnrollNumber Registration number		
	anBackı	upNumber	Number classifying the kind of enrollment data	
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 The command fails to be executed if the enrollment data do not exist in the device.			

### 2.2.7 USBReadAllEnrollDataFromFile

Type	long US	long USBReadAllEnrollDataFromFile(char *apstrFilePath)			
Functionality	To reac	To read the enrollment data into the internal memory of the PC from the file composed			
	in the U	U <b>SB memor</b>	y, and analyse them		
Parameter	apstrFi	apstrFilePath File name			
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1	The command fails to be executed when the structure of the file is not correct.			
		To learn the method of using the USB memory in the device, please refer to the relevant user's manual.			

### 2.2.8 USBReadAllEnrollDataCount

Type	long US	ong USBReadAllEnrollDataCount(long *apnValue)		
	To return into the internal memory of the PC the number of the enrollment data read by using a command "USBReadAllEnrollDataFromFile".			
Parameter	apnVal	ue	Variable pointer of the enrollment data	
		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	You should first read the data out with a command USBReadAllEnrollDataFromFile" before executing this command.			

## 2.2.9 USBGetOneEnrol1Data

Туре	long USBGetOneEnrollData(long *apnEnrollNumber, long *apnBackupNumber, long *apnMachinePrivilege, long *apnEnrollData, long *apnPassWord, long *apnEnableFlag, BSTR *apnEnrollName)			
Functionality	To get the	enrollment d	ata read with a command "USBReadAllEnrollDataFromFile".	
Parameter	apnEnrollNumber		Variable pointer of registration numbers	
	apnBacku	pNumber	Variable pointer of number classifying the kind of enrollment data	
	apnMachi	nePrivilege	Variable pointer of the operational authorization of the registrants	
	apnEnrollData		Variable pointer of the fingerprint data	
	apnPassW	ord	Variable pointer of the password or card number data	
	apnEnableFlag apnEnrollName		Variable pointer of the flag enabling the registrant to use the device	
			Variable pointer of the enroll name	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	former uses USB memories without connecting dire		nd is similar to "GetEnrollData". The difference is that the USB memories without connecting directly to the device. For the of "GetEnrollData", please refer to "2.2.1 GetEnrollData".	
	2	To return a code "RUNERR_LOG_END" after getting all the data		
	3	The command fails to be executed when there is no enrollment data read into the PC with a command "USBReadAllEnrollDataFromFile".		
	4	For the mean	ning of "apnEnableFlag", please refer to "2.4.1 EnableUser".	

## 2.2.10 USBGetOneEnrollDataWithString

Туре	long USBGetOneEnrollDataWithString(long *apnEnrollNumber, long *apnBackupNumber, long *apnMachinePrivilege, BSTR* apstrEnrollData, long *apnEnableFlag, BSTR *apnEnrollName)			
Functionality	To get the enrollment data in the type of a string. It is equal to a "USBGetOneEnrollData".			
Parameter	apnEnroll	Number	Variable pointer of registration numbers	
	apnBacku	pNumber	Variable pointer of number classifying the kind of enrollment data	
	apnMachinePrivilege apstrEnrollData apnEnableFlag apnEnrollName		Variable pointer of the operational authorization of the registrants	
			Variable pointer of the enrollment data	
			Variable pointer of the flag enabling the registrant to use the device	
			Variable pointer of the enroll name	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	that the for As for "Get		nd is similar to "GetEnrollDataWithString". The difference is ner uses USB memories without connecting directly to the device. EnrollDataWithString", please refer to "2.2.2 ataWithString".	
	2	As for the ot	hers, please refer to "2.2.9 USBGetOneEnrollData".	

#### 2.2.11 USBSetOneEnrollData

Туре	long USBSetOneEnrollData(long anEnrollNumber, long anBackupNumber, long anMachinePrivilege, long *apnEnrollData, long anPassWord, long anEnableFlag, LPCTSTR anEnrollName)			
Functionality	To take a form in the internal memory of the PC in order to file the operational authorization and enrollment data of the person to be registered. The file can be used in USB memories.			
Parameter	anEnroll	Number	Registration number	
	anBacku	pNumber	Number classifying the kind of the enrollment data	
	anMachinePrivilege		Operational authorization of the registrant	
	apnEnrollData		Variable pointer of the fingerprint data	
	anPassWord		Password or card number data	
	anEnableFlag		Flag enabling the registrant to use the device	
	anEnrollName		Variable pointer of the enroll name	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	This command is similar to "PutEnrollData". The difference is that the former uses USB memories without connecting directly to the device. As for "PutEnrollData", please refer to "2.2.3 PutEnrollData".			
	2	For the mean	ning of "anEnableFlag", please refer to "2.4.1 EnableUser".	

# $2.\,2.\,\underline{12}\ \mathtt{USBSetOneEnrollDataWithString}$

Туре	long USBSetOneEnrollDataWithString(long anEnrollNumber, long anBackupNumber, long anMachinePrivilege, BSTR apstrEnrollData, long anEnableFlag, LPCTSTR anEnrollName)			
Functionality	To set the	e enrollment (	data in the type of string. This is equal to "USBSetOneEnrollD	
Parameter	anEnroll	Number	Registration number	
	anBacku	pNumber	Number classifying the kind of the enrollment data	
	anMachinePrivilege		Operational authorization of the registrant	
	apstrEnrollData		Variable pointer of the enrollment data	
	anEnableFlag		Flag enabling the registrant to use the device	
	anEnrollName		Variable pointer of the enroll name	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	This command is similar to "PutEnrollDataWithString". The difference is that the former uses USB memories without connecting directly to the device. As for "PutEnrollDataWithString", please refer to "2.2.4 PutEnrollDataWithString".			
	2 As for the others, please refer to "2.2.11 USBSetOneEnrollData".			

### 2.2.13 USBWriteAllEnrollDataToFile

20 000 2 2 00112	COD II I COM I I I I I I I I I I I I I I I I I I I			
Type	long USBWriteAllEnrollDataToFile(char *apstrFilePath)			
	To file the enrollment data formed in the internal memory of the PC by "USBSetOneEnrollData" or "USBSetOneEnrollDataWithString"			
Parameter	apstrFilePath File name			
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	Before the execution of the command, there should be the data formed by the command "USBSetOneEnrollData" or "USBSetOneEnrollDataWith String".			

2	For the method of using USB memories in the devices, please refer to the
4	
	corresponding user`s manuals.

### 2.2.14 ReadAllUserID

Type	long ReadAllUserID(void)			
Functionality	To read into the internal memory of the PC the information relating to all the registrants enrolled in the device			
Parameter				
Return		uccess returns 1; failure returns the corresponding error code. For details of error odes, please refer to "4.2 Error Code Table".		
Others		The read information can be got with a command "GetAllUserID".  As for "GetAllUserID", please refer to "2.2.15 GetAllUserID".		
	2	The command fails to be executed if the enrolled registrant does not exist.		

## 2.2.15 GetAllUserID

Туре	long GetAllUserID(long *apnEnrollNumber, long *apnBackupNumber, long *apnMachinePrivilege, long *apnEnableFlag)				
Functionality	To get one by one the registrants` information read with "ReadAllUserID".				
Parameter	apnEni	rollNumber	Variable pointer of the registration number		
	apnBackupNumber		Variable pointer of number classifying the kind of enrollment data		
	apnMachinePrivilege		Variable pointer of the operational authorization of the registrant		
	apnEnableFlag		Variable pointer of the flag enabling the registrant to use the device		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1	The command fails to be executed if there is no registrant's information read by "ReadAllUserID".			
	<ul> <li>Code "RUNERR_LOG_END" is returned after the data are all got.</li> <li>For the meaning of the operational authorization returned with "apnMachinePrivilege", please refer to "2.4.2 ModifyPrivilege".</li> </ul>				
	4				

## 2.2.16 EmptyEnrollData

Type	long EmptyEnrollData(void)				
Functionality	To dele	To delete all the registered data from the device			
Parameter					
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	1 Before the execution of this command, it is necessary to backup the registered data.			

## 2.2.17 ClearKeeperData

Type	long ClearKeeperData(void)			
Functionality	To delete all of the registered and recorded data from the device (it means to initialize			
	the device.)			
Parameter				

	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others		Before the execution of this command, it is necessary to backup the registered and recorded data.	

## 2.2.18 BenumbAllManager

Type	long Be	long BenumbAllManager(void)			
Functionality	To delete all the information relating to the administrative authorization in the enrollment data and to set the registrants to general users				
Parameter					
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1				

## 2.2.19 GetVerifyMode

Type	long Ge	long GetVerifyMode(long anEnrollNumber, long *apnVerifyMode)			
Functionality	To get	To get veify mode information relating to the users to set the registrants to general users			
Parameter	anEnrollNumber		Variable of registration numbers		
Farameter	apnVerifyMode		Variable pointer of verify mode of the users		
Return	Success returns 1; failure returns the corresponding error code. For details of error				
	codes, please refer to "4.2 Error Code Table".				
Others	1				

### 2.2.20 SetVerifyMode

Type	long SetVerifyMode(long anEnrollNumber, long anVerifyMode)				
Functionality	To set v	To set veify mode information relating to the users to set the registrants to general users			
Parameter	anEnrollNumber		Variable of registration numbers		
1 at afficter	anVeri	fyMode	Variable of verify mode of the users		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1				

## 2.2.21 USBGetOneEnrol1Data\_1

Туре	long USBGetOneEnrollData_1(long *apnEnrollNumber, long *apnBackupNumber, long *apnVerifyMode, long *apnMachinePrivilege, long *apnEnrollData, long *apnPassWord, long *apnEnableFlag, BSTR *apnEnrollName)				
Functionality	To get the enrollment d	ata read with a command "USBReadAllEnrollDataFromFile".			
Parameter	apnEnrollNumber	Variable pointer of registration numbers			
	apnBackupNumber	Variable pointer of number classifying the kind of enrollment data			
	pnVerifyMode Variable pointer of verify mode of the users				
	apnMachinePrivilege Variable pointer of the operational authorization of the registrants				
	apnEnrollData Variable pointer of the fingerprint data				
	apnPassWord Variable pointer of the password or card number data				
	apnEnableFlag	Variable pointer of the flag enabling the registrant to use the device			
	apnEnrollName Variable pointer of the enroll name				

Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1	This command is similar to "GetEnrollData". The difference is that the former uses USB memories without connecting directly to the device. For the description of "GetEnrollData", please refer to "2.2.1 GetEnrollData".	
	2	To return a code "RUNERR_LOG_END" after getting all the data	
	3	The command fails to be executed when there is no enrollment data read into the PC with a command "USBReadAllEnrollDataFromFile".	
	4	For the meaning of "apnEnableFlag", please refer to "2.4.1 EnableUser".	

## $2.\,2.\,22\ {\tt USBGetOneEnrollDataWithString\_1}$

Туре	long USBGetOneEnrollDataWithString_1(long *apnEnrollNumber, long *apnBackupNumber, long *apnVerifyMode,long *apnMachinePrivilege, BSTR* apstrEnrollData, long *apnEnableFlag, BSTR *apnEnrollName)		
Functionality	To get the enrollment data in the type of a string. It is equal to a "USBGetOneEnrollData".		
Parameter	apnEnroll	Number	Variable pointer of registration numbers
	apnBackupNumber		Variable pointer of number classifying the kind of enrollment data
	apnVerify	Mode	Variable pointer of verify mode of the users
	apnMachinePrivilege apstrEnrollData apnEnableFlag		Variable pointer of the operational authorization of the registrants
			Variable pointer of the enrollment data
			Variable pointer of the flag enabling the registrant to use the device
	apnEnroll	Name	Variable pointer of the enroll name
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	that the form As for "GetI		nd is similar to "GetEnrollDataWithString". The difference is ner uses USB memories without connecting directly to the device. EnrollDataWithString", please refer to "2.2.2 ataWithString".
	2	As for the ot	hers, please refer to "2.2.9 USBGetOneEnrollData".

## $2.\,2.\,23\ USBSetOneEnrollData\_1$

Туре	long USBSetOneEnrollData_1(long anEnrollNumber, long anBackupNumber, long anVerifyMode,long anMachinePrivilege, long *apnEnrollData, long anPassWord, long anEnableFlag, LPCTSTR anEnrollName)					
Functionality	To take a form in the internal memory of the PC in order to file the operational authorization and enrollment data of the person to be registered. The file can be used in USB memories.					
Parameter	anEnrollNumber Registration number					
	anBackupNumber	Number classifying the kind of the enrollment data				
	anVerifyMode Variable pointer of verify mode of the users					
	anMachinePrivilege Operational authorization of the registrant					
	apnEnrollData Variable pointer of the fingerprint data anPassWord Password or card number data					
	anEnableFlag	anEnableFlag Flag enabling the registrant to use the device				
	anEnrollName	Variable pointer of the enroll name				

Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1	This command is similar to "PutEnrollData". The difference is that the former uses USB memories without connecting directly to the device. As for "PutEnrollData", please refer to "2.2.3 PutEnrollData".	
	2	For the meaning of "anEnableFlag", please refer to "2.4.1 EnableUser".	

## 2.2.24 USBSetOneEnrollDataWithString\_1

24 USDSetOllel	enrollDatawithString_i			
Type	long USBSetOneEnrollDataWithString_1(long anEnrollNumber, long anBackupNumber,			
	_	long anVerifyMode, long anMachinePrivilege, BSTR apstrEnrollData, long anEnableFlag, LPCTSTR anEnrollName)		
Functionality	To set the	e enrollment	data in the type of string. This is equal to "USBSetOneEnrollD	
Parameter	anEnroll	Number	Registration number	
	anBacku	pNumber	Number classifying the kind of the enrollment data	
	anVerify	Mode	Variable of verify mode of the users	
	anMachinePrivilege		Operational authorization of the registrant	
	apstrEnrollData		Variable pointer of the enrollment data	
	anEnableFlag		Flag enabling the registrant to use the device	
	anEnrollName		Variable pointer of the enroll name	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	This command is similar to "PutEnrollDataWithString". The difference is that the former uses USB memories without connecting directly to the device. As for "PutEnrollDataWithString", please refer to "2.2.4 PutEnrollDataWithString".			
	2 As for the others, please refer to "2.2.11 USBSetOneEnrollData".			

# $2.\,2.\,\underline{25}\ USBRead All \underline{EnrollDataFromFile\_Color}$

Type	long USBReadAllEnrollDataFromFile_Color(char *apstrFilePath)			
Functionality	To reac	d the enrolln	nent data into the internal memory of the PC from the file composed	
	in the U	JSB memory	y, and analyse them	
Parameter	apstrFi	apstrFilePath File name		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	The command fails to be executed when the structure of the file is not correct.		
		To learn the method of using the USB memory in the device, please refer to the		
		relevant use	er`s manual.	

## ${\tt 2.2.26~USBWriteAllEnrollDataToFile\_Color}$

Type	long USBWriteAllEnrollDataToFile_Color(char *apstrFilePath, long anNewsKind)		
•	To file the enrollment data formed in the internal memory of the PC by "USBSetOneEnrollData" or "USBSetOneEnrollDataWithString"		
	apstrFilePath File name		
Parameter	anNewsKind	News Kind : NewKind = 0x02 : 60 chineses characters	
		NewKind = 0x01 : 24 chineses characters	
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		

Others	Before the execution of the command, there should be the data formed by the command "USBSetOneEnrollData" or "USBSetOneEnrollDataWith String".
	For the method of using USB memories in the devices, please refer to the corresponding user's manuals.

### 2.2.27 USBGetOneEnrol1Data\_Color

_ csscccine	toneEnitoTibata_color			
Туре	long USBGetOneEnrollData_Color(long *apnEnrollNumber, long *apnBackupNumber, long *apnMachinePrivilege, long *apnEnrollData, long *apnPassWord, long *apnEnableFlag, BSTR *apnEnrollName, long anNewsKind)			
Functionality	To get the	enrollment da	ata read with a command "USBReadAllEnrollDataFromFile".	
Parameter	apnEnroll	Number	Variable pointer of registration numbers	
	apnBacku	pNumber	Variable pointer of number classifying the kind of enrollment data	
	apnMachi	nePrivilege	Variable pointer of the operational authorization of the registrants	
	apnEnroll	Data	Variable pointer of the fingerprint data	
	apnPassW	ord	Variable pointer of the password or card number data	
	apnEnableFlag		Variable pointer of the flag enabling the registrant to use the device	
	apnEnrollName		Variable pointer of the enroll name	
	anNewsKind		News Kind : NewKind = 0x02 : 60 chineses characters	
			NewKind = 0x01 : 24 chineses characters	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	nd is similar to "GetEnrollData". The difference is that the		
	former uses USB memories without connecting directly to the device. For the description of "GetEnrollData", please refer to "2.2.1 GetEnrollData".			
	To return a code "RUNERR_LOG_END" after getting all the data			
	The command fails to be executed when there is no enrollment data read int the PC with a command "USBReadAllEnrollDataFromFile".			
	4			

## ${\tt 2.2.28\ USBGetOneEnrollDataWithString\_Color}$

Туре	long USBGetOneEnrollDataWithString_Color(long *apnEnrollNumber, long *apnBackupNumber, long *apnMachinePrivilege, BSTR* apstrEnrollData, long *apnEnableFlag, BSTR *apnEnrollName, long anNewsKind)			
Functionality	To get the enrollment d "USBGetOneEnrollDat	lata in the type of a string. It is equal to a ta".		
Parameter	apnEnrollNumber	Variable pointer of registration numbers		
	apnBackupNumber	Variable pointer of number classifying the kind of enrollment data		
	apnMachinePrivilege Variable pointer of the operational authorization of registrants  apstrEnrollData Variable pointer of the enrollment data			
	apnEnableFlag	Variable pointer of the flag enabling the registrant to use the device		
	Variable pointer of the enroll name			
	anNewsKind	News Kind : NewKind = 0x02 : 60 chineses characters NewKind = 0x01 : 24 chineses characters		

Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1	This command is similar to "GetEnrollDataWithString". The difference is that the former uses USB memories without connecting directly to the device. As for "GetEnrollDataWithString", please refer to "2.2.2 GetEnrollDataWithString".	
	2	As for the others, please refer to "2.2.9 USBGetOneEnrollData".	

### 2.2.29 USBSetOneEnrol1Data\_Color

29 USDSe tollel	nii OIIDa t	a_00101			
Туре	long USBSetOneEnrollData_Color(long anEnrollNumber, long anBackupNumber, long anMachinePrivilege, long *apnEnrollData, long anPassWord, long anEnableFlag, LPCTSTR anEnrollName, long anNewsKind)				
Functionality	To take a form in the internal memory of the PC in order to file the operational authorization and enrollment data of the person to be registered. The file can be used in USB memories.				
Parameter	anEnroll	Number	Registration number		
	anBacku	pNumber	Number classifying the kind of the enrollment data		
	anMachi	nePrivilege	Operational authorization of the registrant		
	apnEnrollData Variable pointer of the fingerprint data				
	anPassWord Password or card number data				
	anEnableFlag Flag enabling the registrant to use the device				
	anEnroll	Name	Variable pointer of the enroll name		
	anNewsK	ind	News Kind : NewKind = 0x02 : 60 chineses characters		
	NewKind = $0x01 : 24$ chineses characters				
Return	Success returns 1; failure returns the corresponding error code. For details of error				
	codes, ple	codes, please refer to "4.2 Error Code Table".			
Others	1 This command is similar to "PutEnrollData". The difference is that the				
		former uses USB memories without connecting directly to the device. As for			
		"PutEnrollD	ata", please refer to "2.2.3 PutEnrollData".		
	2	For the mean	ning of "anEnableFlag", please refer to "2.4.1 EnableUser".		

## $2.\,2.\,\underline{30}\ USBS et 0 ne Enroll Data With String\_Color$

Туре	long USBSetOneEnrollDataWithString_Color(long anEnrollNumber, long anBackupNumber, long anMachinePrivilege, BSTR apstrEnrollData, long anEnableFlag, LPCTSTR anEnrollName, long anNewsKind)					
Functionality	To set the enrollment ata"	data in the type of string. This is equal to "USBSetOneEnrollD				
Parameter	anEnrollNumber	Registration number				
	anBackupNumber	Number classifying the kind of the enrollment data				
	anMachinePrivilege	Operational authorization of the registrant				
	apstrEnrollData	Variable pointer of the enrollment data				
	anEnableFlag	Flag enabling the registrant to use the device				
	anEnrollName	Variable pointer of the enroll name				
	anNewsKind	News Kind : NewKind = 0x02 : 60 chineses characters				
		NewKind = $0x01 : 24$ chineses characters				
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".					

Others	1	This command is similar to "PutEnrollDataWithString". The difference is that the former uses USB memories without connecting directly to the device. As for "PutEnrollDataWithString", please refer to "2.2.4 PutEnrollDataWithString".
	2	As for the others, please refer to "2.2.11 USBSetOneEnrollData".

# 2.3 Management of Recorded Data

#### 2.3.1 LoadSuperLogData

	2065444				
Type	long Lo	long LoadSuperLogData(long anReadMark)			
Functionality		To read the management data from the device into the internal memory of the PC and analyse them			
Parameter	anRead	anReadMark Read mark flag			
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others		The read data can be got by "GetSuperLogData" Please refer to "0  GetSuperLogData".			
	2	anReadMark = 1 permits reading the newly-added recorded data alone.  anReadMark = 0 permits reading all of the recorded data.			

## 2.3.2 USBLoadSuperLogDataFromFile

Type	long USBLoadSuperLogDataFromFile(char *apstrFilePath)			
Functionality	To read the management data from the the management data file formed in the USB memory into the internal memory of the PC and analyse them			
Parameter	apstrFilePath File name			
Return	uccess returns 1; failure returns the corresponding error code. For details of error odes, please refer to "4.2 Error Code Table".			
Others	1 Similar to LoadSuperLogData, this command can be used to get the administrative data when the device has not been connected with the	Similar to LoadSuperLogData, this command can be used to get the administrative data when the device has not been connected with the PC.		
	The incorrect structures of the files result in a failure of the execution.			
	For the method of using USB memories in the devices, please refer to corresponding user's manual.	For the method of using USB memories in the devices, please refer to the		

### 2.3.3 GetSuperLogData

	00 02 up 0120 02 u 0			
Туре	long GetSuperLogData(long *apnSEnrollNumber, long *apnGEnrollNumber, long *apnManipulation, long *apnBackupNumber, DATE *apnDateTime)			
•	To get, one by one, the management data read into the memory of the PC with a command "LoadSuperLogData" or "USBLoadSuperLogDataFromFile".			
Parameter	apnSEnrollNumber Variable pointer of the registration number of the manager			
	apnGEnrollNumber   Variable pointer of the registration number of the managed			
	apnManipulation	Variable pointer of the identification number of the managed		

	apnBackupNumber apnDateTime		Variable pointer of the number classifying the kind of the enrollment data of the managed person		
			Variable pointer of the time and the date when the management was recorded		
Return			lure returns the corresp "4.2 Error Code Table"	onding error code. For details of error	
Others	1	After all th	ne data are got, a code "	RUNERR_LOG_END" is return.	
	2		nand fails to be executed  SuperLogDataFromFil	d if "LoadSuperLogData" or le" is not first executed.	
	3	3 : LOG_ 4 : LOG_ 5 : LOG_ 6 : LOG_ 8 : LOG_ 9 : LOG_ devices 10 : LOG_ management 12 : LOG_	ENROLL_USER ENROLL_MANAGER ENROLL_DELFP ENROLL_DELPASS ENROLL_DELCARD LOG_ALLDEL SETUP_SYS  SETUP_TIME SETUP_LOG ent data SETUP_COMM PASSTIME	to "apnManipulation":     To register general users     To register manager(s)     To delete fingerprint data     To delete passwords     To delete card data     To delete all the management data     To modify the information about the  To modify the time of the devices     To modify the limit values of the  To modify the communication modes     To set the duration for which the door	
		_	SETUP_DOOR	- To set the information about control of	

### 2.3.4 EmptySuperLogData

Type	long Eı	long EmptySuperLogData(void)		
Functionality	To dele	To delete all the management data from the device		
Parameter				
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	1 Before the execution of this command, it is necessary to backup the managemen data.		

## 2.3.5 LoadGeneralLogData

Type	long LoadGeneralLogData(long anReadMark)				
Functionality		To read the attendance data from the device into the internal memory of the PC and nake an analysis of them			
Parameter	anRead	eadMark Read mark flag			
Return		decess returns 1; failure returns the corresponding error code. For details of error des, please refer to "4.2 Error Code Table".			
Others	1	The read data can be got by "GetGeneralLogData". Please, refer to "2.3.7 GetGeneralLogData".			
	2	anReadMark = 1 allows to read newly-added recorded data alone. anReadMark = 0 allows to read all the recorded data.			

## 2.3.6 USBLoadGeneralLogDataFromFile

Type	long U	long USBLoadGeneralLogDataFromFile(BSTR apstrFilePath)			
Functionality		To read the recorded data into the internal memory of the PC from the attendance data file formed in the USB memory			
Parameter	apstrF	apstrFilePath File name			
Return		access returns 1; failure returns the corresponding error code. For details of error odes, please refer to "4.2 Error Code Table".			
Others	1	Similar to "LoadGeneralLogData", this command can be used to get the attendance data when the device is not connected with the PC.			
	2	The incorre	The incorrect structure of the file results in a failure of the execution.		
	3	For the method of using USB memories in the devices, please refer to the corresponding user's manual.			

### 2.3.7 GetGeneralLogData

Type	long GetGeneralLogData(long *apnEnrolslNumber, long *apnVerifyMode, long *apnInOutMode, DATE *apnDateTime)		
Functionality	0 / 0 /	the attendance data read in the memory of the PC by a command Data" "USBLoadGeneralLogDataFromFile".	
Parameter	apnEnrollNumber	Variable pointer of the registration number of the registrant coming in or going out	
	apnVerifyMode	Variable pointer of the verification mode	
	apnInOutMode	Variable pointer of the mode of coming in or going out	
	apnDateTime Variable pointer of the time and day when the registrant came in went out		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 A code "RUNERR_LOG_END" is returned after the data are all got.		

2	The following values are return	ed to "apnVerifyMode":
	1:LOG_FPVERIFY	- Verified as fingerprints
	2:LOG_PASSVERIFY	- Verified as passwords
	3: LOG_CARDVERIFY	- Verified as cards
	4: LOG_FPPASS_VERIFY	- Verified as passwords added to fingerprints
	5: LOG_FPCARD_VERIFY	- Verified as cards added to fingerprints
	6: LOG_PASSFP_VERIFY	- Verified as fingerprints added to passwords
	7: LOG_CARDFP_VERIFY	- Verified as fingerprints added to cards
		ne models with a function of controlling doors. "2.7 Control of Doors".)
	10 : LOG_OPEN_DOOR	- The signal of opening the door is
	transmitted after the verification	on.
	11 : LOG_CLOSE_DOOR after the verification	- The signal of closing the door is transmitted
	12 : LOG_OPEN_HAND transferred.	- The signal of opening the door with the key is
	13 : LOG_OPEN_THREAT threatened fingerprints is trans	- The signal of opening the door by verifying ferred.
	14: LOG_PROG_OPEN from the controlling device.	- The signal of opening the door is transferred
	15 : LOG_PROG_CLOSE from the controlling device.	- The signal of closing the door is transferred
	16 : LOG_OPEN_IREGAL transferred.	- The signal of opening the door is illegally
	17 : LOG_CLOSE_IREGAL transferred.	- The signal of closing the door is illegally
	18 : LOG_OPEN_COVER	- The cover of the device opened
	19 : LOG_CLOSE_COVER	- The cover of the device closed
3		ted unless "LoadGeneralLogData" or
	"USBLoadGeneralLogDataFro	<u> </u>
4	The following values are return	ed to "apnInOutMode":
	0:LOG_IOMODE_IO - V	Verified with the general mode
	1:LOG_IOMODE_IN1 - V	Verified with the mode1 of coming in
	2:LOG_IOMODE_IN2 - V	Verified with the mode2 of coming in
		Verified with the mode3 of coming in
	4: LOG_IOMODE_OUT1 -	Verified with the mode1 of going out
		Verified with the mode2 of going out
	6: LOG_IOMODE_OUT3 -	Verified with the mode3 of going out

## 2.3.8 EmptyGeneralLogData

Type	long Eı	long EmptyGeneralLogData(void)		
Functionality	To dele	To delete all the data relating to incoming and outgoing from the device		
Parameter				
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others		It is necessary to backup the data relating to incoming and outgoing before the execution of this command.		

## 2.3.9 GetGeneralLogData\_1

Type	GetGeneralLogData_1(long *apnEnrollNumber, long pnVerifyMode , long *apnInOutMode, long *apnYear, long *apnMonth, long *apnDay,long *apnHour,			
	<del>                                     </del>	onMinute, lon	<del>-</del>	
Functionality				read in the memory of the PC by a command neralLogDataFromFile".
Parameter	apnEnr	ollNumber	Variable pointer coming in or goin	of the registration number of the registrant g out
	apnVeri	ifyMode	Variable pointer	of the verification mode
	apnInO	utMode	Variable pointer	of the mode of coming in or going out
	apnYea	r,apnMonth	Variable pointer	of the time and day when the registrant came in
	apnDay	, apnHour	or went out	
	apnMin	ute, apnSec		
Return		·	lure returns the co "4.2 Error Code T	orresponding error code. For details of error Table".
Others	1	A code "RUI	NERR_LOG_END	)" is returned after the data are all got.
	2	1		ned to "apnVerifyMode":
		1:LOG_FI	_	- Verified as fingerprints
			ASSVERIFY	- Verified as passwords
		_	ARDVERIFY	- Verified as cards
		_		- Verified as passwords added to fingerprints
				- Verified as cards added to fingerprints
				- Verified as fingerprints added to passwords
		_	<del>-</del>	- Verified as fingerprints added to cards
				he models with a function of controlling doors.
		(======================================		o "2.7 Control of Doors".)
		10 : LOG_O	PEN_DOOR	- The signal of opening the door is
			after the verificati	
		11 : LOG_C after the veri	LOSE_DOOR ification	- The signal of closing the door is transmitted
		12 : LOG_O transferred.	PEN_HAND	- The signal of opening the door with the key is
			PEN_THREAT	- The signal of opening the door by verifying
			ingerprints is trans	
		14 : LOG_PI	ROG_OPEN	- The signal of opening the door is transferred
		from the con	trolling device.	
			ROG_CLOSE	- The signal of closing the door is transferred
			trolling device.	
		16 : LOG_O transferred.	PEN_IREGAL	- The signal of opening the door is illegally
		17 : LOG_Cl transferred.	LOSE_IREGAL	- The signal of closing the door is illegally
		18 : LOG_O	PEN_COVER	- The cover of the device opened
		19 : LOG_C	LOSE_COVER	- The cover of the device closed
	3			uted unless "LoadGeneralLogData" or omFile" is first executed.
	4			ned to "apnInOutMode":
			_	Verified with the mode of coming in
		_	_	Verified with the mode of going out
		_	<del>-</del>	Verified with the general mode

### 2.3.10 GetSuperLogData\_1

10 GetSuperLo	oguata_i				
Туре	*apnMani	long GetSuperLogData_1(long *apnSEnrollNumber, long *apnGEnrollNumber, long *apnManipulation, long *apnBackupNumber, long *apnYear, long *apnMonth, long *apnDay, long *apnHour,long *apnMinute, long *apnSec)			
Functionality				l into the memory of the PC with a dSuperLogDataFromFile".	
Parameter	apnSEnrol	llNumber	Variable pointer of the	registration number of the manager	
	apnGEnro	llNumber	Variable pointer of the registration number of the managed		
	apnManip	ulation	Variable pointer of the	identification number of the managed	
	apnBacku	pNumber	Variable pointer of the enrollment data of the	number classifying the kind of the managed person	
	apnYear, a	apnMonth	Variable pointer of the	time and the date when the management	
	apnDay, a	pnHour	was recorded		
	apnMinute	e, apnSec			
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	After all th	e data are got, a code "l	RUNERR_LOG_END" is return.	
	2	This comm	and fails to be executed	if "LoadSuperLogData" or	
		"USBLoad	<b>SuperLogDataFromFile</b>	e" is not first executed.	
	3	The follow	ing values are returned	to "apnManipulation":	
		_	ENROLL_USER	- To register general users	
		_	<del>-</del>	- To register manager(s)	
		_	ENROLL_DELFP	- To delete fingerprint data	
		_	ENROLL_DELPASS	- To delete passwords	
		_	ENROLL_DELCARD	- To delete card data	
		_	LOG_ALLDEL	- To delete all the management data	
		_	SETUP_SYS	- To modify the information about the	
		devices	CETUD TIME	To modify the time of the devices	
		_	SETUP_TIME SETUP LOG	<ul><li>To modify the time of the devices</li><li>To modify the limit values of the</li></ul>	
		manageme	_	- 10 mounty the mint values of the	
		_		- To modify the communication modes	
			PASSTIME	- To set the duration for which the doors	
		are passed			
		14 : LOG_	SETUP_DOOR	- To set the information about control of	
		the doors			

### 2.3.11 GetRealTimeInfo

II GGGHGGHIIM	0 2 11 2 0			
Type	Long GetRealTimeInfo(long* apGetRealTime)			
Functionality	To export to the PC the waiting time for transfer of blocks and sectors of time for automatic uploading of transactions			
Parameter	ppGetRealTime Getting Data			
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			

## 2.3.12 SetRealTimeInfo

Type	Long SetRealTimeInfo(long* apSetRealTime)
Functionality	To write into machines the waiting time for transfer of blocks and sectors of time for
	automatic uploading of transactions

Parameter	apSetRealTime	Setting data
	,	lure returns the corresponding error code. For details of error "4.2 Error Code Table".

# 2.4 Management of Registrants` Information

### 2.4.1 EnableUser

Type	long En	long EnableUser(long anEnrollNumber, long anBackupNumber,long anEnableFlag)			
Functionality	To enab	To enable/forbid the registrant to use the device			
Parameter	anEnrollNumber		Registration number		
	anBackupNumber		Number classifying the kind of the enrollment data		
	anEnableFlag		Enabling flas		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1 anEnableF possibility.		ag = 0 stands for impossibility of the use; anEnableFlag = 1		

### 2.4.2 ModifyPrivilege

Type	long ModifyPrivilege(long anEnrollNumber, long anBackupNumber, long anMachinePrivilege)			
Functionality		0 /	authorization of the registrant	
Parameter	anEnrol	lNumber	Registration number	
	anBacku	ıpNumber	Number classifying the kind of the enrollment data	
	anMachi	inePrivilege	Operational authorization	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	the operational authorization. This authorization is reflected in "anMachinePrivilege".		
		The following values are returned to "anMachinePrivilege":		
		0: MP_NONE - General user (can only be verified through the device.)		
		1: MP_AL	L - Manager (can operate the device.)	

#### 2.4.3 GetUserName

Type	long G	long GetUserName(long anEnrollNumber, char *apstrUserName)			
Functionality	To get	the name as	signed to the registrant		
Parameter	anEnrollNumber		Registration number		
	apstrU	serName	Variable pointer containing the name		
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others		1 The maximum size of the name contained by "apstrUserName" is 10byte (10 English letters or 5 other letters at most).			
	2 The command fails to be executed if no name is assigned.				

### 2.4.4 SetUserName

Type	long SetUserName(long anEnrollNumber, char *apstrUserName)
Functionality	To assign a name to the registrant

Parameter	anEnro	ollNumber	Registration number		
	apstrU	serName	Variable pointer containing the name		
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1		The maximum size of the name contained by "apstrUserName" is 10byte (10 English letters or 5 other letters at most).		
	2	The comm	The command fails to be executed if no name is assigned.		

#### 2.4.5 GetNewsMessage

	20 01/01/21/2020				
Type	long G	long GetNewsMessage(long anNewsId, char *apstrNews)			
Functionality	To get	the designated message from the device			
Parameter	anNew	sId ID number of the message			
	apstrN	ews Variable pointer of the message data			
Return		Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	1 "anNewsId" is a number designating messages. The range is from 0 upto 255.			
		The maximum size of the name contained by "apstrUserName" is 48byte (48 English letters or 24 other letters at most).			
		Engine letters of 24 other letters at most).			

## 2.4.6 SetNewsMessage

Type	long Se	ong SetNewsMessage(long anNewsId, char *apstrNews)				
Functionality	To set a	To set a message in the device				
Parameter	anNewsId		ID number of the message			
	apstrNews		Variable pointer of the message data			
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		• •			
Others	1	For the details, please refer to "2.4.5 GetNewsMessage".				

### 2.4.7 GetUserNewsID

Type	long GetUserNewsID(long anEnrollNumber, long *apnNewsId)					
Functionality	To get the ID num	To get the ID number of the message assigned to the registrant				
Parameter	anEnrollNumber	Registration number				
	apnNewsId	Variable pointer of the ID number				
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".					
Others	1 "apnNewsId" is a value to be set under "2.4.6 SetNewsMessage".					

## 2.4.8 SetUserNewsID

Type	long Se	long SetUserNewsID(long anEnrollNumber, long anNewsId)				
Functionality	To assi	To assign the registrant the ID number of the message				
Parameter	anEnrollNumber		Registration number			
	anNewsId		ID number			
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".					
Others	1 "apnNewsId" is a value to be set under "2.4.6 SetNewsMessage".					

# 2.5 Management of Devices

### 2.5.1 EnableDevice

Type	long Eı	long EnableDevice(long anEnabledFlag)			
Functionality	To allo	Γο allow/forbid the operation on the device			
Parameter	anEnal	anEnabledFlag Enabling flag			
Return	Success	ccess returns 1; failure returns the corresponding error code. For details of error			
	codes,	s, please refer to "4.2 Error Code Table".			
Others	1	It can be us	t can be used when forbidding the operation on the device for the		
		communication between the PC and the device.			
	2	anEnabled	anEnabledFlag=0 forbids the operation with a message "Working" prompted;		
		anEnabled	Flag=1 allows it with the normal display shown.		

### 2.5.2 PowerOnAllDevice

Type	void Po	void PowerOnAllDevice(void)		
Functionality	To run	the connect	ted devices	
Parameter				
Return	None			
Others	1	This comm	and can be only used with the RS-485 communication.	

#### 2.5.3 PowerOffDevice

Type	long Po	ong PowerOffDevice(void)		
Functionality	To pow	To power off the device		
Parameter				
Return		returns 1; failure returns the corresponding error code. For details of error blease refer to "4.2 Error Code Table".		
Others	1	After the execution of this command, the device is disconnected and powered off.		

### 2.5.4 GetDeviceTime

Type	long Ge	ong GetDeviceTime(DATE* apnDateTime)					
Functionality	To get	To get the time and date of the device					
Parameter	apnDat	teTime	Variable pointer of time and dates				
Return	Success	Success returns 1; failure returns the corresponding error code. For details of error					
	codes, please refer to "4.2 Error Code Table".						
Others	1						

### 2.5.5 SetDeviceTime

Type	long Se	long SetDeviceTime(DATE anDateTime)					
Functionality	To set t	To set time and a date on the device					
Parameter	apnDateTime		Time and date data				
Return		Success returns 1; failure returns the corresponding error code. For details of error					
	codes, please refer to "4.2 Error Code Table".						
Others	1						

### 2.5.6 GetDeviceStatus

Type	long G	long GetDeviceStatus(long anStatusIndex, long *apnValue)				
Functionality	To get	the current	status values	s of the device		
Parameter	anStati	ısIndex	ID number	ID number of the device status		
	apnVal	lue	Variable poi	inter of status values		
Return				ns the corresponding error code. For details of error r Code Table".		
Others	1	This comm	and helps sei	ize the current status of the device through the PC.		
	2	The follow	ing values ar	e returned to "anStatusIndex":		
		1: GET_	MANAGERS	S - The number of managers existing currently		
	2 : GET_		USERS	- The number of general users existing currently		
		3: GET_1	F <b>PS</b>	- The number of fingerprint data existing currently		
		4 : GET_1	PSWS	- The number of password data existing currently		
		5: GET_S currently	SLOGS	- The number of new management data existing		
		6 : GET_0	GLOGS	- The number of new Income/Outgoing existing-data.		
		7: GET_		- The number of the entire management existing –data.		
		8 : GET_A	AGLOGS	- The number of the entire Income/Outgoing		
		existing-da	ta.			
		9: GET_0	CARDS	- The number of card data existing currently		

## 2.5.7 GetDeviceInfo

Type	long GetDeviceInfo(long anInfoIndex, long *apnValue)					
Functionality	To get the informa	To get the information of the device				
Parameter	anInfoIndex	nInfoIndex ID number of the information about the device				
	apnValue	Variable pointer of information values				
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".					

Others	1 The following values are returned to "anInfoIndex":	
J 12222	1: DI_MANAGERS - The maximum number of re-	gisterable managers
	2: DI MACHINENUM - ID number of the device	,
	3: DI_LANGAUGE - Language displayed on the d	evice
	4: DI_POWEROFF_TIME - Auto-poweroff duration	
	5: DI_LOCK_CTRL - Door control flag	
	6: DI_GLOG_WARNING - The number of recorded data	a generating an alarm
	against overflow of incoming and outgoing data. When recvalue, the alarm rings during the record operation.	0
	7: DI_SLOG_WARNING - The number of recorded data against overflow of management data. When recording data alarm rings during the record operation	
	8: DI_VERIFY_INTERVALS- Interval for recording vertime, the repeated verification is not recorded.	rification. Within this
	9 : DI_RSCOM_BPS – Baudrate of the serial communica	tion
	Each of the baudrates has the following value.	
	BPS_9600 = 3	
	BPS_19200 = 4	
	BPS_38400 = 5	
	BPS_57600 = 6	
	BPS_115200 = 7	
	10: DI_DATE_SEPARATE- Type of displaying time as	nd dates
	11: DI_VERIFY_KIND: setting of matching modes	
	the setting values for matching modes are the followings.	
	0: F/P/C	
	1: F + P	
	2: F + C	
	3: C	

### 2.5.8 SetDeviceInfo

Type	long Se	long SetDeviceInfo(long anInfoIndex, long anValue)				
Functionality	To set i	To set information in the device				
Parameter	anInfoIndex		ID number of the information about the device			
	apnValue		Information values			
Return	Success returns 1; failure returns the corresponding error code. For details of ecodes, please refer to "4.2 Error Code Table".					
Others	1 The values of "anInfoIndex" are the same as "2.5.7 GetDeviceInfo" gives.					

### 2.5.9 GetProductData

Type	long GetProductData(long anProductIndex, char *apstrProductData)			
Functionality	To get the information about the sale of products the seller wrote			
Parameter	anProductIndex	nProductIndex ID number of the information about the sale		
	apstrProductData	Variable pointer of the information about the sale		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			

Others	1	The following values are returned	ed to "anProductIndex":
		1 : PRODUCT_SERIALNUMI	BER - Serial number
		2 : PRODUCT_BACKUPNUM	IBER - Subscription number
		3: PRODUCT_CODE	- Model number
		4 : PRODUCT_NAME	- Model name
		5: PRODUCT_WEB	- Homepage of the seller
		6: PRODUCT_DATE	- Sale date
		7 : PRODUCT_SENDTO	- Name of the buyer

### 2.5.10 GetDeviceVersion

Туре	long Ge	long GetDeviceVersion(long *apnVersion)			
Functionality	To get	To get the version containing the revision history of every model			
Parameter	apnVersion		Variable pointer of versions		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1				

## 2.5.11 GetDeviceTime\_1

	long GetDeviceTime_1( long *apnYear, long *apnMonth, long *apnDay, long *apnHour, long *apnMinute, long apnSec, long *apnDayOfWeek)			
Functionality	To get th	e time and date of the device		
Parameter	apnYear	apnYear,apnMonth Variable pointer of time and dates		
	apnDay,	apnHour		
	apnMinu apnDay(	te,apnSec ofWeek		
Return	Success returns 1; failure returns the corresponding error code. For details of error			
	codes, please refer to "4.2 Error Code Table".			
Others	1			

## 2.5.12 SetDeviceTime\_1

Type	long SetDeviceTime_1(long anYear, long anMonth, long anDay, long anHour, long anMinute, long anSec, long anDayOfWeek)			
Functionality	To set tim	ne and a date on the device		
Parameter	apnYear,a	apnYear,apnMonth Time and date data		
	apnDay, apnHour			
	apnMinute, apnSec			
	anDayOfWeek			
Return	Success returns 1; failure returns the corresponding error code. For details of error			
	codes, please refer to "4.2 Error Code Table".			
Others	1			

# 2.6 Management of Bells

#### 2.6.1 GetBellTime

Type	long GetBellTime(long *apnBellCount, long *aptBellInfo)
Functionality	To get the information about setting a bell

Parameter	apnBellCount		Variable pointer of times of the bell ringing	
	aptBellInfo		Variable pointer of the bell information structure	
Return			failure returns the corresponding error code. For details of error to "4.2 Error Code Table".	
Others	1	The number of bells ringing at the same time is returned to "apnBellCount".		
	2	The information about the bell such as the designated number and time is returned to "aptBellInfo". For the meaning, please refer to "4.1.1 BELLINFO Structure".		

### 2.6.2 GetBellTimeWithString

Type	long Go	ong GetBellTimeWithString(long *apnBellCount, char *apstrBellInfo)			
Functionality	Equal to a command "GetBellTime", it gets the bell-relating information in the form of strings.				
Parameter	apnBellCount		Variable pointer of times of a bell ringing		
	apstrBellInfo		Variable pointer of the string		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1 For the details, please refer to "2.6.1 GetBellTime".				

#### 2.6.3 SetBellTime

		·			
Type	long Se	long SetBellTime(long anBellCount, long *aptBellInfo)			
Functionality	To set	the bell-rela	nting information in the device		
Parameter	anBellCount		Times of a bell ringing		
	aptBellInfo		Variable pointer of the bell information structure		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1	The number of bells ringing at the same time is returned to "apnBellCount".			
	2	The information about the bell such as the designated number and time is returned to "aptBellInfo". For the meaning, please refer to "4.1.1 BELLINFO Structure".			

### 2.6.4 SetBellTimeWithString

Type	long SetB	long SetBellTimeWithString(long anBellCount, char *apstrBellInfo)		
	Equal to a command "SetBellTime", it sets the bell-relating information in the form of strings.			
Parameter	anBellCount		Times of a bell ringing	
	apstrBellInfo		Variable pointer of the bell information structure	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 For the details, please refer to "2.6.3 SetBellTime".			

# 2.7 Control of Doors

Unsupported in some models.

#### 2.7.1 GetDoorStatus

Type	long GetDoorStatus(long *apnStatusVal)		
Functionality	To get the door op	ening status	
Parameter	apnStatusVal	Variable pointer of the status value	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	0 : DOOI 1 : DOOI 2 : DOOI 3 : DOOI	ing values are returned to "apnStatusVal":  R_CONTROLRESET - control state of door by device.  R_OPEND - Door opened  R_CLOSED - Door closed  R_COMMNAD- by the command for control of doors, door opend for and closed.	

## 2.7.2 SetDoorStatus

Type	long Se	long SetDoorStatus(long anStatusVal)		
Functionality	To cont	To control the door opening status		
Parameter	anStatı	ısVal	Status value	
Return	Success	Success returns 1; failure returns the corresponding error code. For details of error		
	codes, please refer to "4.2 Error Code Table".			
Others	1 for the meanings of "anStatusVal", refer to "2.7.1 GetDoorStatus".			

### 2.7.3 GetPassTime

Type	long G	long GetPassTime(long anPassTimeID, long *apnPassTime,long anPassTimeSize)		
Functionality	To get	the informa	ation about the time zone of opening or closing the door	
Parameter	anPass	TimeID	ID number of the information about the time zone	
	apnPas	ssTime	Variable pointer of the structure of the above information	
	anPassTimeSize		Length of the above structure	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	"anPassTimeID" is a number indicating the structure of the information about the time zone.  This value ranges from 0 upto 49, since 50 structures at most can be set.		
	2	"apnPassTime" reflects the value of the structure "anPassTimeID" designates. This structure has seven time zones per week. Please refer to "0 PASSCTRLTIME Structure".		
	3	As the length of "apnPassTime", "anPassTimeSize" helps API decide that the structure is long enough.		

## 2.7.4 GetPassTimeWithString

Type	long GetPassTimeWithString(long anPassTimeID, char *apstrPassTime)			
Functionality	Equal to "GetPassTime", the information about the time zone is returned into a string.			
Parameter	anPassTimeID	ID number of the information about the time zone		
	apnPassTime	Variable pointer of the string of the structure of the above information		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 For the details, please refer to "2.7.3 GetPassTime".			

### 2.7.5 SetPassTime

) DO OT ORDETTIMO					
Type	long Se	long SetPassTime(long anPassTimeID, long *apnPassTime,long anPassTimeSize)			
Functionality	To set t	To set the information about the time zone for opening and closing the door			
Parameter	anPassTimeID		ID number of information about the time zone		
	apnPassTime		Variable pointer of the structure of the above information		
	anPassTimeSize		Length of the above structure		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1 For the details, please refer to "2.7.3 GetPassTime".				

### 2.7.6 SetPassTimeWithString

0 0001000111	10112 1116				
Type	long Se	long SetPassTimeWithString(long anPassTimeID, char *apstrPassTime)			
Functionality	Equal to "SetPassTime", it contains the information about the time zone in the form of strings.				
Parameter	anPassTimeID		ID number of information about the time zone		
	apnPassTime		Variable pointer of the string of the structure of the above information		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".				
Others	1 For the details, please refer to "2.7.3 GetPassTime".				

## 2.7.7 GetUserPassTime

Type	long GetUserPassTime(long anEnrollNumber, long *apnGroupID, long *apnPassTimeID, long anPassTimeIDSize)			
Functionality	To get the time zone-relaing information group assigned to the designated user and the group assigned individually			
Parameter	anEnrollNumber		Registration number	
	apnGro	upID	Variable pointer of group number	
	apnPassTimeID		Variable pointer of the structure of the ID number for the information about the time zone	
	anPassTimeIDSize		Length of the above structure	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1	For the meaning of "apnGroupID", please refer to "2.7.11 GetGroupPassTime".		
	2	"apnPassTimeID" is a array-typed batch structure of ID numbers assigned to the registrants. For its definition, please refer to "4.1.3 USERPASSINFO Structure"; for the meanings of the ID numbers, refer to "2.7.3 GetPassTime".		
	3	As the length of "apnPassTime", "anPassTimeSize" helps API determine whether the structure is long enough.		

## 2.7.8 GetUserPassTimeWithString

	long GetUserPassTimeWithString(long anEnrollNumber, long *apnGroupID, char *apstrPassTimeID)		
Functionality	Equal to "GetUserPassTime", it returns the structure of ID numbers in the form of strings.		
Parameter	anEnrollNumber	Registration number	

	apnGroupID		Variable pointer of group numbers	
	apstrPa	assTimeID	Variable pointer of the ID number structure string for the	
			information relating to the time zone	
Return	Success	Success returns 1; failure returns the corresponding error code. For details of error		
	codes, j	olease refer	to "4.2 Error Code Table".	
Others	1	For the det	tails, please refer to "2.7.7 GetUserPassTime".	

## 2.7.9 SetUserPassTime

Туре	long SetUserPassTime(long anEnrollNumber, long anGroupID, long *apnPassTimeID, long anPassTimeIDSize)			
Functionality	To set the information group of the time zone and the individually-assigned information for the designated registrant			
Parameter	anEnrollNumber	Registration number		
	anGroupID	Group number		
	apnPassTimeID	Variable pointer of the ID number structure of the time zone information		
	anPassTimeIDSize	Length of the above structure		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 For the details, please refer to "2.7.7 GetUserPassTime".			

## 2.7.10 SetUserPassTimeWithString

Туре	long SetUserPassTimeWithString(long anEnrollNumber, long anGroupID, char *apstrPassTimeID)			
Functionality	Equal to command "SetUserPassTime", it contains the ID number structure in the form of strings.			
Parameter	anEnrollNumber		Registration number	
	anGroupID		Group number	
	apstrPassTimeID		Variable pointer of the strings for the ID number structure of the time zone information	
Return	Success returns 1; failure returns the corresponding error code. For details of error			
	codes, please refer to "4.2 Error Code Table".			
Others	1 For the details, please refer to "2.7.7 GetUserPassTime".			

## 2.7.11 GetGroupPassTime

Туре	long GetGroupPassTime(long anGroupID, long *apnPassTimeID, long anPassTimeIDSize)		
Functionality	To get ID numbers of the time zone information corresponding to the designated time zone information group		
Parameter	anGroupID	Group number	
	apnPassTimeID	Variable pointer of the ID number structure for the time zone information	
	anPassTimeIDSize	Length of the above structure	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	On the devices, structures of time zone information can be used in groups.  "anGroupID" is a number indicating the group.  It is possible to set five groups at most and this value ranges from 1 upto 5.		

2	"apnPassTimeID" is a array-typed batch structure for time zone information ID numbers assigned to each group. In a group, three ID numbers can be set. For the definition of the structure, please refer to "4.1.4 GROUPPASSINFO Structure"; for the meanings of ID numbers, refer to "2.7.3 GetPassTime".
3	As the length of "apnPassTimeID", "anPassTimeIDSize" helps API determine
	whether the structure is long enough.

#### 2.7.12 GetGroupPassTimeWithString

Туре	long Ge	long GetGroupPassTimeWithString(long anGroupID, char *apstrPassTimeID)		
Functionality	Equal to "GetGroupPassTime", it returns the ID number structure in the form of strings.			
Parameter	anGroupID		Group number	
	apstrPa	ssTimeID	Variable pointer of the strings for the ID number structure of the time zone information	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 For the details, please refer to "2.7.11 GetGroupPassTime".			

#### 2.7.13 SetGroupPassTime

Type	long SetGroupPassTime(long anGroupID, long *apnPassTimeID, long anPassTimeIDSize)			
Functionality	To set ID numbers of the time zone information in the designated group of the information			
Parameter	anGroupID		Group number	
	apnPassTimeID		Variable pointer of the ID number structure of the time zone information	
	anPassTimeIDSize		Length of the above structure	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 For the details, please refer to "2.7.11 GetGroupPassTime".			

## 2.7.14 SetGroupPassTimeWithString

Type	long SetGroupPassTimeWithString(long anGroupID, char *apstrPassTimeID)		
Functionality	Equal to command "SetGroupPassTime", it contains ID number structures in the form of strings.		
Parameter	anGroupID		Group number
	apstrPass	sTimeID	Variable pointer of the strings for the ID number structure of the time zone information
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 For the details, please refer to "2.7.11 GetGroupPassTime".		

## 2.7.15 GetGroupMatch

Type	long GetGroupMatch(long *apnGroupMatch, long anGroupMatchSize)		
Functionality	To get the door control union of groups of the time zone information structures		
Parameter	apnGroupMatch	Variable pointer of the union structure of groups	
	anGroupMatchSize	Length of the above structure	

Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1	To combine the groups of the time zone information structures and use them for control of the doors (opening or closing doors)	
		Ten unions at most can be formed. "apnGroupMatch" is an array-typed batch structure for these unions.	
		For the definition of the structure, please refer to "4.1.5 GROUPMATCHINFO Structure".	
		Group numbers are described one after another on the item of structures Ex: '13' described if groups No.1 and No.3 are combined at the same time, '135' described if groups No1, No.3 and No.5 are combined at the same time	
	2	As the length of "apnPassTimeID", "anPassTimeIDSize" helps API determine whether the structure is long enough.	

#### 2.7.16 GetGroupMatchWithString

Type	long GetGroupMatchWithString(char *apstrGroupMatch)		
Functionality	Equal to command "GetGroupMatchTime", it returns the union structure in the form of strings.		
Parameter	apstrGroupMatch   Variable pointer of union structure strings of the groups		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 For the details, please refer to "2.7.15 GetGroupMatch".		

## 2.7.17 SetGroupMatch

Type	long SetGroupMatch(long *apnGroupMatch, long anGroupMatchSize)			
Functionality	To set the door contr	To set the door control union of groups of the time zone information structures		
Parameter	apnGroupMatch	Variable pointer of the union structure of groups		
	anGroupMatchSize	Length of the above structure		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 For the deta	ils, please refer to "2.7.15 GetGroupMatch".		

# 2.7.18 SetGroupMatchWithString

Type	long SetGroupMatchWithString(char *apstrGroupMatch)		
Functionality	Equal to command "SetGroupMatch", it contains the union structure in the form of strings.		
Parameter	apstrGroupMatch   Variable pointer of union structure strings of the groups		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 For the details, please refer to "2.7.15 GetGroupMatch".		

# 2.8 Adjust Management

## 2.8.1 GetAdjustInfo

	dwAdju dwResto	tAdjustInfo(long* dwAdjustedState, long* dwAdjustedMonth, long* stedDay, long* dwAdjustedHour, long* dwAdjustedMinute, long* oredState, long* dwRestoredMonth, long* dwRestoredDay, long* oredHour, long* dwRestoredMinute)	
Functionality	To get a daylight saving time		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
others	1	For details, please refer to 《4.1.6 ADJUSTINFO Structure》.	

# 2.8.2 SetAdjustInfo

	long SetAdjustInfo(long dwAdjustedState, long dwAdjustedMonth, long dwAdjustedDay, long dwAdjustedHour, long dwAdjustedMinute, long dwRestoredState, long dwRestoredMonth, long dwRestoredDay, long dwRestoredHour, long dwRestoredMinute)		
Functionality	To set a daylight saving time		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
others	1 For details, please refer to 《4.1.6 ADJUSTINFO Structure》.		

# 2.9 Network Information Management

#### 2.9.1 GetServerNetInfo

Туре	long GetServerNetInfo(BSTR* astrServerIPAddress, long* apServerPort, long* apServerRequest)		
Functionality	To get a server information		
	astrServerIPAddress	Server IP Address	
	apServerPort	Server Port	
	apServerRequest	Server Flag	
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
others			

## 2.9.2 SetServerNetInfo

	long SetServerNetInfo(LPCTSTR astrServerIPAddress, long anServerPort, long anServerRequest)				
Functionality	To set server informationa				
	astrServerIPAddress	Server IP Address			
Parameter	anServerPort	Server Port			
	anServerRequest	Server Flag			
	Success returns 1; failure returns the corresponding error code. For details of error				
	codes, please refer to "4.2 Error Code Table".				
others					

#### 2.9.3 SetUSBModel

Type	void Set	void SetUSBModel(long anModel)					
Functionality	To set machine model info for USB Flash information						
	1	"anModel" is a machine model info.					
		#define FK625_FP1000	2001				
		#define FK625_FP2000	2002				
		#define FK625_FP3000	2003				
		#define FK625_FP5000	2004				
		#define FK625_FP10000	2005				
		#define FK625_FP30000	2006				
		#define FK625_ID30000	2007				
		#define FK635_FP700	3001				
		#define FK635_FP3000	3002				
others		#define FK635_FP10000	3003				
others		#define FK635_ID30000	3004				
		#define FK723_FP1000	4001				
		#define FK725_FP1000	5001				
		#define FK725_FP1500	5002				
		#define FK725_ID5000	5003				
		#define FK725_ID30000	5004				
		#define FK735_FP500	6001				
		#define FK735_FP3000	6002				
		#define FK735_ID30000	6003				
		#define FK925_FP3000	7001				
		#define FK935_FP3000	8001.				

# 3 FKAttend.DLL Interface

The interfaces of FKAttend.DLL are similar to the ones of FKAttend.OCX.

The important difference lies in returning the ID number of the port connected in the first communication for multi-connections and communicating with the devices by means of this ID number under other commands.

Below are described the commands corresponding in OCX and the differences.

#### 3.1 Connection and Disconnection of Devices

#### 3.1.1 FK ConnectComm

Type	long FK_ConnectComm(long nMachineNo, long nComPort, long nBaudRate, char *pstrTelNumber, long nWaitDialTime, long nLicense)		
Functionality	To open a COM port to connect with the devices through the RS-232/485 cables		
Return	The successful execution returns an ID number, the value greater than 0 indicating the connected port.  The failure returns the corresponding error code. For the details of error codes, please		
	refer to "4.2 Error Code Table".		
Others	1 For the details, please refer to "2.1.1 ConnectComm".		

## 3.1.2 FK\_ConnectNet

~ ~	long FK_ConnectNet(long nMachineNo, char * pstrIpAddress, long nNetPort, long nTimeOut, long nProtocolType, long nNetPassword, long nLicense)		
Functionality	To open a COM port to connect with the devices through the network cable		
Return	The successful execution returns an ID number, the value greater than 0 indicating the connected port.		
	The failure returns the corresponding error code. For the details of error codes, please refer to "4.2 Error Code Table".		
Others	1 For the details, please refer to "2.1.2 ConnectNet".		

#### 3.1.3 FK\_ConnectUSB

Type	long FK_ConnectUSB(long nMachineNo, long nLicense)		
Functionality	To open a USB port to connect with the devices through the USB cable		
	The successful execution returns an ID number, the value greater than 0 indicating the connected port.  The failure returns the corresponding error code. For the details of error codes, please refer to "4.2 Error Code Table".		
Others	1 For the details, please refer to "2.1.3 ConnectUSB".		

#### 3.1.4 FK DisConnect

Type	void FK_DisConnect(long nHandleIndex)		
<b>Functionality</b>	To disconnect with the devices		
Others		"nHandleIndex" is an ID number returned by "FK_ConnectComm" or "FK ConnectNet".	

2 For the details, please refer to "2.1.4 DisConnect".	
--------------------------------------------------------	--

## 3.1.5 FK\_ConnectGetIP

Type	long l	long FK_ConnectGetIP(LPSTR *strComName)		
Functionality	Genera	Generating IP address by name		
Parameter	strComName		Name of machine to find its IP address	
Others	1 To disconnect with the device linked by ConnectComm or ConnectNet and close			
	the corresponding open ports			

# 3.2 Management of Enrollment Data

#### 3.2.1 FK GetEnrollData

	long FK_GetEnrollData(long nHandleIndex, long nEnrollNumber, long nBackupNumber, long * pnMachinePrivilege, void * pnEnrollData, long * pnPassWord)		
Functionality	To get the operational authorization and enrollment data of the registrant registered on the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.1 GetEnrollData".	

# 3.2.2 FK\_GetEnrollDataWithString

v <u>r</u>	long FK_GetEnrollDataWithString(long nHandleIndex, long nEnrollNumber, long nBackupNumber, long * pnMachinePrivilege, LPSTR *apstrEnrollData)			
Functionality	Equal 1	Equal to command "FK_GetEnrollData", it gets enrollment data in the form of strings.		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.2 GetEnrollDataWithString".		

## 3.2.3 FK\_PutEnrollData

	long FK_PutEnrollData(long nHandleIndex, long nEnrollNumber, long nBackupNumber, long nMachinePrivilege, void * pnEnrollData, long nPassWord)		
	To transmit to the device the operational authorization and enrollment data of the person to be registered".		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.3 PutEnrollData".	

# $3.\,2.\,\underline{4}\quad \texttt{FK\_PutEnrollDataWithString}$

Type	long FK_PutEnrollDataWithString(long nHandleIndex, long nEnrollNumber, long nBackupNumber, long nMachinePrivilege, char *apstrEnrollData)		
Functionality	Equal to command "FK_PutEnrollData", it contains the enrollment data in the form of		
	charater strings.		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.4 PutEnrollDataWithString".	

#### 3.2.5 FK\_SaveEnrollData

Type long FK_SaveEnrollData(long nHandleIndex)
------------------------------------------------

		To register on the device the enrollment data transmitted by command 'FK_PutEnrollData" or "FK_PutEnrollDataWithString"		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.5 SaveEnrollData".		

#### 3.2.6 FK\_DeleteEnrollData

Туре		DeleteEnrollData(long nHandleIndex, long nEnrollNumber, long pNumber)		
Functionality	To dele	To delete the designated enrollment data from the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.6 DeleteEnrollData".		

## 3.2.7 FK\_USBReadAllEnrollDataFromFile

Type	long FI	ong FK_USBReadAllEnrollDataFromFile(long nHandleIndex, char * pstrFilePath)		
Functionality	To reac	o read the enrollment data from the relevant file formed in the USB memory into the		
	interna	l memory of the PC and make an analysis of them		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
		For the details, please refer to "2.2.7 USBReadAllEnrollDataFromFile".		

#### 3.2.8 FK\_USBReadAllEnrollDataCount

Type	long FI	ong FK_USBReadAllEnrollDataCount(long nHandleIndex, long * pnValue)		
<b>Functionality</b>	To retu	To return the number of enrollment data read into the memory of the PC with command		
	"FK_U	FK_USBReadAllEnrollDataFromFile".		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.8 USBReadAllEnrollDataCount".		

#### 3.2.9 FK\_USBGetOneEnrollData

	pnBackup	USBGetOneEnrollData(long nHandleIndex, long * pnEnrollNumber, long * oNumber, long * pnMachinePrivilege, void * pnEnrollData, long * ord, long * pnEnableFlag, LPSTR * dwEnrollName)		
Functionality	To get the	To get the enrollment data read with command "USBReadAllEnrollDataFromFile"		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.9 USBGetOneEnrollData".		

# $3.2.10~FK\_USBGetOneEnrollDataWithString$

		USBGetOneEnrollDataWithString(long nHandleIndex, long * Number, long * pnBackupNumber, long * pnMachinePrivilege, LPSTR		
	_	ostrEnrollData, long * pnEnableFlag, LPSTR * dwEnrollName)		
Functionality		Γο get the enrollment data in the form of strings. It is equal to		
	"FK_USB	FK_USBGetOneEnrollData".		
Others	1	"nHandleIndex" is a COM port's ID number returned by		
		"FK_ConnectComm" or "FK_ConnectNet".		

	2	For the details, please refer to "0
		USBGetOneEnrollDataWithString".

#### 3.2.11 FK USBSetOneEnrollData

Туре	nBackup	ong FK_USBSetOneEnrollData(long nHandleIndex, long nEnrollNumber, long nBackupNumber, long nMachinePrivilege, void * pnEnrollData, long nPassWord, long nEnableFlag, char *dwEnrollName)		
Functionality	To form	To form, in the memory of the PC, the operational authorization and enrollment data of the person to be registered to turn them into a file usable in a USB memory		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.11 USBSetOneEnrollData".		

#### 3.2.12 FK\_USBSetOneEnrollDataWithString

Туре	long nBa	_USBSetOneEnrollDataWithString(long nHandleIndex, long nEnrollNumber, ackupNumber, long nMachinePrivilege, char *apstrEnrollData, long Flag, char *dwEnrollName)	
Functionality	To contain the enrollment data in the form of strings. It is equal to "FK_USBSetOneEnrollData".		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.12 USBSetOneEnrollDataWithString".	

## 3.2.13 FK\_USBWriteAllEnrollDataToFile

Type	long FI	ong FK_USBWriteAllEnrollDataToFile(long nHandleIndex, char * pstrFilePath)		
Functionality	To com	o compose files of the enrollment data formed in the memory of the PC by		
	"FK_U	FK_USBSetOneEnrollData" or "FK_USBSetOneEnrollDataWithString"		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.13 USBWriteAllEnrollDataToFile".		

## 3.2.14 FK\_ReadAllUserID

Type	long FF	ong FK_ReadAllUserID(long nHandleIndex)		
		To read into the memory of the PC all the registrants-relating information registered on he device		
	inc acv	ie device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.14 ReadAllUserID".		

#### 3.2.15 FK\_GetAllUserID

	long FK_GetAllUserID(long nHandleIndex, long * pnEnrollNumber, long * pnBackupNumber, long * pnMachinePrivilege, long * pnEnableFlag)		
Functionality	To get, one by oe, the registrants-relating information read with FK_ReadAllUserID		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.15 GetAllUserID".	

## 3.2.16 FK\_EmptyEnrollData

Type	long FI	long FK_EmptyEnrollData(long nHandleIndex)		
<b>Functionality</b>	To dele	To delete all the registered enrollment data from the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK ConnectNet".		
		For the details, please refer to "2.2.16 EmptyEnrollData".		

## 3.2.17 FK\_ClearKeeperData

Type	long FI	long FK_ClearKeeperData(long nHandleIndex)	
Functionality	To delete all of the enrollment data and recorded data from the device (it means		
	initializ	initializing the device.)	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.17 ClearKeeperData".	

# 3.2.18 FK\_BenumbAllManager

Type	long FI	long FK_BenumbAllManager(long nHandleIndex)		
<b>Functionality</b>	To delete all of the administrative authorization information from the enrollment data			
	and set	and set registrants to general users		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.18 BenumbAllManager".		

## 3.2.19 FK\_GetVerifyMode

Туре	long FK_GetVerifyMode(long nHandleIndex ,long anEnrollNumber, long *apnVerifyMode)	
Functionality	To get veify mode information relating to the users to set the registrants to general users	
Others		nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.2.19 GetVerifyMode".

## 3.2.20 FK\_SetVerifyMode

• •	long FK_SetVerifyMode(long nHandleIndex ,long anEnrollNumber, long anVerifyMode)		
Functionality	To set veify mode information relating to the users to set the registrants to general users		
Others		nHandleIndex" is a COM port's ID number returned by FK_ConnectComm" or FK_ConnectNet".	
	2	For the details, please refer to "2.2.20 SetVerifyMode".	

## 3.2.21 FK\_USBGetOneEnrol1Data\_1

Туре	long FK_USBGetOneEnrollData_1((long nHandleIndex ,long *apnEnrollNumber, long *apnBackupNumber, long *apnVerifyMode, long *apnMachinePrivilege, long *apnEnrollData, long *apnPassWord, long *apnEnableFlag, BSTR *apnEnrollName)		
Functionality	To get the enrollment data read with a command "USBReadAllEnrollDataFromFile".		
Others	1	nHandleIndex" is a COM port's ID number returned by FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.21 USBGetOneEnrollData_1".	

#### ${\tt 3.2.22\ FK\_USBGetOneEnrol1DataWithString\_1}$

Туре	*apnEnr *apnMac	long FK_USBGetOneEnrollDataWithString_1(long nHandleIndex ,long *apnEnrollNumber, long *apnBackupNumber, long *apnVerifyMode,long *apnMachinePrivilege, BSTR* apstrEnrollData, long *apnEnableFlag, BSTR *apnEnrollName)	
Others	1	nHandleIndex" is a COM port's ID number returned by FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.22 USBGetOneEnrollDataWithString_1".	

#### 3. 2. 23 FK\_USBSetOneEnrol1Data\_1

Type	long USBSetOneEnrollData(long nHandleIndex ,long anEnrollNumber, long		
	anBackupNumber, long anVerifyMode,long anMachinePrivilege, long *apnEnrollData,		
	long anPassWord, long anEnableFlag, LPCTSTR anEnrollName)		
Others	1 nHandleIndex" is a COM port's ID number returned by		
	"FK_ConnectComm" or "FK_ConnectNet".		
	For the details, please refer to "2.2.23 USBSetOneEnrollData_1".		

## ${\tt 3.2.24\ FK\_USBSetOneEnrol1DataWithString\_1}$

Туре	anEnroll long anVo	USBSetOneEnrollDataWithString_1(long nHandleIndex ,long Number, long anBackupNumber, erifyMode, long anMachinePrivilege, BSTR apstrEnrollData, long eFlag, LPCTSTR anEnrollName)
Others		nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.2.24 USBSetOneEnrollDataWithString_1".

#### 3.2.25 FK\_USBReadAllEnrollDataFromFile\_Color

Type		long FK_USBReadAllEnrollDataFromFile_Color (long nHandleIndex, char * pstrFilePath)		
		I the enrollment data from the relevant file formed in the USB memory into the I memory of the PC and make an analysis of them		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.725 USBReadAllEnrollDataFromFile".		

# $3.\,2.\,\underline{26}\ FK\_USBWriteAllEnrollDataToFile\_Color$

		long FK_USBWriteAllEnrollDataToFile_Color (long nHandleIndex, char * pstrFilePath, long anNewsKind)		
•		pose files of the enrollment data formed in the memory of the PC by SBSetOneEnrollData" or "FK_USBSetOneEnrollDataWithString"		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.2.1326 USBWriteAllEnrollDataToFile_Color".		

## 3.2.27 FK\_USBGetOneEnrollData\_Color

Type	long FK_USBGetOneEnrollData_Color (long nHandleIndex, long * pnEnrollNumber,
	long * pnBackupNumber, long * pnMachinePrivilege, void * pnEnrollData, long *
	pnPassWord, long * pnEnableFlag, LPSTR * dwEnrollName, long anNewsKind)
Functionality	To get the enrollment data read with command "USBReadAllEnrollDataFromFile"

Others		"nHandleIndex" is a COM port`s ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.2.927 USBGetOneEnrollData_Color".

#### 3.2.28 FK\_USBGetOneEnrollDataWithString\_Color

	long FK_USBGetOneEnrollDataWithString_Color (long nHandleIndex, long * pnEnrollNumber, long * pnBackupNumber, long * pnMachinePrivilege, LPSTR * apstrEnrollData, long * pnEnableFlag, LPSTR * dwEnrollName, long anNewsKind)		
•		enrollment data in the form of strings. It is equal to GGetOneEnrollData_Color".	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
		For the details, please refer to "2.2.28 USBGetOneEnrollDataWithString Color".	

#### 3.2.29 FK\_USBSetOneEnrollData\_Color

Туре	long FK_USBSetOneEnrollData_Color(long nHandleIndex, long nEnrollNumber, long nBackupNumber, long nMachinePrivilege, void * pnEnrollData, long nPassWord, long nEnableFlag, char *dwEnrollName, long anNewsKind)		
Functionality	To form, in the memory of the PC, the operational authorization and enrollment data of the person to be registered to turn them into a file usable in a USB memory		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.2.1129 USBSetOneEnrollData_Color".	

#### $3.2.30~FK\_USBSetOneEnrollDataWithString\_Color$

	nEnrollN	_USBSetOneEnrollDataWithString_Color (long nHandleIndex, long Number, long nBackupNumber, long nMachinePrivilege, char *apstrEnrollData, nableFlag, char *dwEnrollName, long anNewsKind)
		in the enrollment data in the form of strings. It is equal to BSetOneEnrollData".
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
		For the details, please refer to "2.2.1230 USBSetOneEnrollDataWithString_Color".

# 3.3 Management of Recorded Data

#### 3.3.1 FK\_LoadSuperLogData

Type	long FI	K_LoadSuperLogData(long nHandleIndex, long nReadMark)	
Functionality	To reac	To read the management data from the device into the memory of the PC and make an	
	analysi	s of them	
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"	
		or "FK_ConnectNet".	
	2	For the details, please refer to "2.3.1 LoadSuperLogData".	

#### 3.3.2 FK\_USBLoadSuperLogDataFromFile

Type	long FI	ong FK_USBLoadSuperLogDataFromFile(long nHandleIndex, char *astrFilePath)		
•		To read the recorded data from the relevant file formed in the USB memory into the		
	memor	y of the PC and make an analysis of them		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.3.2 USBLoadSuperLogDataFromFile".		

#### 3.3.3 FK GetSuperLogData

<u> </u>	In_do touportograda			
Туре	long FK_GetSuperLogData(long nHandleIndex, long *pnSEnrollNumber, long *pnGEnrollNumber, long *pnManipulation, long *pnBackupNumber, DATE *pnDateTime)			
Functionality		ne by oe, the management data read into the memory of the PC with adSuperLogData" or "FK_USBLoadSuperLogDataFromFile"		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "0		
		GetSuperLogData".		

## 3.3.4 FK\_EmptySuperLogData

Type	long FI	ong FK_EmptySuperLogData(long nHandleIndex)		
Functionality	To dele	To delete all the management data from the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.3.4 EmptySuperLogData".		

## 3.3.5 FK\_LoadGeneralLogData

Type	long FI	ong FK_LoadGeneralLogData(long nHandleIndex, long nReadMark)		
Functionality	To reac	Γο read the incoming and outgoing data from the device into the memory of the PC and		
	make a	nake an analysis of them		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.3.5 LoadGeneralLogData".		

## 3.3.6 FK\_USBLoadGeneralLogDataFromFile

Type	long FI	ong FK_USBLoadGeneralLogDataFromFile(long nHandleIndex, char * pstrFilePath)		
<b>Functionality</b>	To reac	To read the incoming and outgoing data from the relevant file formed in the USB		
	memor	y into the memory of the PC and make an analysis of them		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.3.6 USBLoadGeneralLogDataFromFile".		

## 3.3.7 FK\_GetGeneralLogData

	long FK_GetGeneralLogData(long nHandleIndex, long * pnEnrollNumber, long *pnVerifyMode, long *pnInOutMode, DATE *pnDateTime)
ì	To get, one by one, the incoming and outgoing daa read in the memory of the PC with
	command "FK_LoadGeneralLogData" or "FK_USBLoadGeneralLogDataFromFile"

Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.3.7 GetGeneralLogData".

# 3.3.8 FK\_EmptyGeneralLogData

Type	long FI	long FK_EmptyGeneralLogData(long nHandleIndex)		
Functionality	To dele	To delete all the incoming and outgoing data from the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.3.8 EmptyGeneralLogData".		

# 3.3.9 FK\_GetGeneralLogData\_1

Туре	FK_GetGeneralLogData_1(long nHandleIndex ,long *apnEnrollNumber, long pnVerifyMode , long *apnInOutMode, long *apnYear, long *apnMonth, long *apnDay, long *apnHour, long *apnMinute, long *apnSec )			
Functionality	To get, one by one, the attendance data read in the memory of the PC by a command "LoadGeneralLogData" "USBLoadGeneralLogDataFromFile".			
Parameter	apnEnrollNumber	Variable pointer of the registration number of the registrant coming in or going out		
	apnVerifyMode	Variable pointer of the verification mode		
	apnInOutMode	Variable pointer of the mode of coming in or going out		
	apnYear,apnMonth	Variable pointer of the time and day when the registrant came in		
	apnDay, apnHour	or went out		
	apnMinute, apnSec			
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 "nHandleInde or "FK_Conne	x" is a COM port's ID number returned by "FK_ConnectComm" ectNet".		
	2 For the details	, please refer to "2.3.89 EmptyGeneralLogData_1".		

## 3.3.10 FK\_GetSuperLogData\_1

Туре	long FK_GetSuperLogData_1(long nHandleIndex ,long *apnSEnrollNumber, long *apnGEnrollNumber, long *apnManipulation, long *apnBackupNumber, long *apnYear, long *apnMonth, long *apnDay, long *apnHour,long *apnMinute, long *apnSec)			
Functionality	<b>.</b> ,	e management data read into the memory of the PC with a crLogData" or "USBLoadSuperLogDataFromFile".		
Parameter	apnSEnrollNumber	Variable pointer of the registration number of the manager		
	apnGEnrollNumber	Variable pointer of the registration number of the managed		
	apnManipulation	Variable pointer of the identification number of the managed		
	apnBackupNumber	Variable pointer of the number classifying the kind of the enrollment data of the managed person		
	apnYear, apnMonth apnDay, apnHour apnMinute, apnSec	Variable pointer of the time and the date when the management was recorded		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".			
Others	1 "nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".			

	2.	For the details, please refer to "2.3.810 EmptyGeneralLogData_1".
		For the details, please refer to 2.5.510 Empty General Edginata_1.

#### 3.3.11 FK\_GetRealTimeInfo

Type	FK_GetRealTimeInfo(long* apGetRealTime)		
<b>Functionality</b>	To export to the PC the waiting time for transfer of blocks and sectors of time for		
	automati	automatic uploading of transactions	
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"	
		or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.11 EnableUser".	

#### 3.3.12 FK\_SetRealTimeInfo

Type	FK_SetI	FK_SetRealTimeInfo(long* apSetRealTime)	
Functionality	To write into machines the waiting time for transfer of blocks and sectors of time for		
	automat	automatic uploading of transactions。	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.1 EnableUser".	

# 3.4 Management of Registrant Information

#### 3.4.1 FK EnableUser

Туре	long FK_EnableUser(long nHandleIndex, long nEnrollNumber, long nBackupNumber, long nEnableFlag)			
Functionality	To enab	To enable/forbid the registrant to use the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.4.1 EnableUser".		

#### 3.4.2 FK\_ModifyPrivilege

Type	long FK_ModifyPrivilege(long nHandleIndex, long nEnrollNumber, long			
	nBackup	BackupNumber, long nMachinePrivilege)		
Functionality	To set th	To set the operational authorization of the registrant upon the device		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.4.2 ModifyPrivilege".		

#### 3.4.3 FK\_GetUserName

Туре		K_GetUserName(long nHandleIndex, long nEnrollNumber, LPSTR serName)	
Functionality	To get	Γο get the name granted to the registrant	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.3 GetUserName".	

#### 3.4.4 FK\_SetUserName

Type	long FK_SetUserName(long nHandleIndex, long nEnrollNumber, char *pstrUserName)
------	--------------------------------------------------------------------------------

Functionality	To assi	Γο assign a name to the registrant	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.4 SetUserName".	

#### 3.4.5 FK\_GetNewsMessage

Type	long FI	long FK_GetNewsMessage(long nHandleIndex, long nNewsId, LPSTR *pstrNews)	
Functionality	To get	To get the designated message out from the device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.5 GetNewsMessage".	

#### 3.4.6 FK\_SetNewsMessage

Type	long FI	long FK_SetNewsMessage(long nHandleIndex, long nNewsId, char * pstrNews)	
Functionality	To set a	To set a message into the device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.6 SetNewsMessage".	

## 3.4.7 FK\_GetUserNewsID

Type	long FI	long FK_GetUserNewsID(long nHandleIndex, long nEnrollNumber, long * pnNewsId)	
Functionality	To get	To get the ID number of the message assigned to the registrant	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"	
		or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.7 GetUserNewsID".	

## 3.4.8 FK\_SetUserNewsID

Type	long FI	long FK_SetUserNewsID(long nHandleIndex, long nEnrollNumber, long nNewsId)	
Functionality	To assi	To assign the registrant an ID number of the message	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.4.8 SetUserNewsID".	

# 3.5 Management of Device

## 3.5.1 FK\_EnableDevice

Type	long FI	long FK_EnableDevice(long nHandleIndex, unsigned char nEnableFlag)	
Functionality	To allo	To allow or forbid the operations upon the device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.5.1 EnableDevice".	

#### 3.5.2 FK\_PowerOnAllDevice

Type	void FK_PowerOnAllDevice(long nHandleIndex)
JI	

Functionality	To run	To run the connected devices	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.5.2 PowerOnAllDevice".	

#### 3.5.3 FK\_PowerOffDevice

Type	long FI	K_PowerOffDevice(long nHandleIndex)
<b>Functionality</b>	To power off the device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.5.3 PowerOffDevice".

## 3.5.4 FK\_GetDeviceTime

Type	long FI	long FK_GetDeviceTime(long nHandleIndex, DATE * pnDateTime)	
Functionality	To get	To get time and dates of the device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.5.4 GetDeviceTime".	

## 3.5.5 FK\_SetDeviceTime

Type	long FI	long FK_SetDeviceTime(long nHandleIndex, DATE nDateTime)	
Functionality	Set tim	Set time and dates on the device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.5.5 SetDeviceTime".	

## 3.5.6 FK\_GetDeviceStatus

Type	long FI	long FK_GetDeviceStatus(long nHandleIndex, long nStatusIndex, long *pnValue)	
Functionality	To get	To get the status values from the current device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.5.6 GetDeviceStatus".	

# 3.5.7 FK\_GetDeviceInfo

Type	long FI	long FK_GetDeviceInfo(long nHandleIndex, long nInfoIndex, long *pnValue)	
<b>Functionality</b>	To get	To get the information about the device	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.5.7 GetDeviceInfo".	

## 3.5.8 FK\_SetDeviceInfo

Type	long FI	long FK_SetDeviceInfo(long nHandleIndex, long nInfoIndex, long nValue)		
Functionality	To set i	Γο set information into the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.5.8 SetDeviceInfo".		

# 3.5.9 FK\_GetProductData

Type	long FK_GetProductData(long nHandleIndex, long nDataIndex, char *pstrValue)			
Functionality	To get t	To get the sales information entered by the seller		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.5.9 GetProductData".		

#### 3.5.10 FK\_GetProductDataWithString

Туре	_	long FK_GetProductDataWithString(long nHandleIndex, long nDataIndex, BSTR *apstrValue)	
Functionality	To get t	To get the sales information entered by the seller in the form of strings	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.5.9 GetProductData".	

# 3.5.11 FK\_GetDeviceVersion

Type	long FI	long FK_GetDeviceVersion(long nHandleIndex, long *pnVersion)		
Functionality	To get	To get a version containing the revision history of every model		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.5.10 GetDeviceVersion".		

## 3.5.12 FK\_GetDeviceTime\_1

IE III_GCGECT	0000110011110_1		
Туре	long FK_GetDeviceTime_1(long nHandleIndex, long *apnYear, long *apnMonth, long *apnDay, long apnHour, long apnMinute, long apnSec, long *apnDayOfWeek)		
<b>Functionality</b>	To get the time and date of the device		
Parameter	apnYear,apnMonth Variable pointer of time and dates		
	apnDay, apnHour		
	apnMinute, apnSec		
	pnDayOfWeek		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
Others	1 "nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2 For the details, please refer to "2.5.101 GetDeviceVersion".		

# 3.5.13 FK\_SetDeviceTime\_1

V <b>1</b>		_1(long nHandleIndex, long anYear, long anMonth, long anDay, nMinute, long anSec, long anDayOfWeek)				
Functionality	To set time and a date on the device					
Parameter	anYear, anMonth	nYear, anMonth Time and date data				
	anDay, anHour					
	anMinute, anSec					
	anDayOfWeek					
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".					

Others		"nHandleIndex" is a COM port`s ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.5.102 GetDeviceVersion".

# 3.6 Management of Bells

#### 3.6.1 FK\_GetBellTime

Type	long FI	long FK_GetBellTime(long nHandleIndex, long * pnBellCount, long * ptBellInfo)		
Functionality	To get	To get setting information about the bell		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.6.1 GetBellTime".		

#### 3.6.2 FK\_GetBellTimeWithString

Туре	long FK_GetBellTimeWithString(long nHandleIndex, long *pnBellCount, LPSTR *apstrBellInfo)		
Functionality	<b>Equal</b> t	Equal to command "FK_GetBellTime", it gets the bell information in the form of strings.	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.6.2 GetBellTimeWithString".	

#### 3.6.3 FK\_SetBellTime

Type	long FI	long FK_SetBellTime(long nHandleIndex, long nBellCount, long * ptBellInfo)		
Functionality	To set t	Γο set the information about the bell into the device		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK ConnectNet".		
		For the details, please refer to "2.6.3 SetBellTime".		

## 3.6.4 FK\_SetBellTimeWithString

Туре	_	K_SetBellTimeWithString(long nHandleIndex, long nBellCount, char BellInfo)	
Functionality	<b>Equal</b> t	Equal to command "FK_SetBellTime", it set the bell information in the form of strings	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.6.4 SetBellTimeWithString".	

# 3.7 Control of Doors

This function is not supported for some models.

# 3.7.1 FK\_GetDoorStatus

Type	long FK_GetDoorStatus(long nHandleIndex, long *apnStatusVal)		
Functionalityt	To get	Γο get the door opening status	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	

2.	For the details, please refer to "2.7.1 GetDoorStatus".
	For the details, prease refer to 2.7.1 detboorstatus.

## 3.7.2 FK\_SetDoorStatus

Type	long FI	long FK_SetDoorStatus(long nHandleIndex, long anStatusVal)	
Functionality	To cont	To control the door opening status	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK ConnectNet".	
		For the details, please refer to "2.7.2 SetDoorStatus".	

## 3.7.3 FK\_GetPassTime

		long FK_GetPassTime(long nHandleIndex, long anPassTimeID, long *apnPassTime, long anPassTimeSize)	
Functionality	To get	To get the time zone information for opening or closing the door	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.7.3 GetPassTime".	

#### 3.7.4 FK\_GetPassTimeWithString

		<u> </u>	
Туре	_	long FK_GetPassTimeWithString(long nHandleIndex, long anPassTimeID, LPSTR *apstrPassTime)	
Functionality	Equal to command "FK_GetPassTime", it returns the time zone information in the form of strings.		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.7.4 GetPassTimeWithString".	

## 3.7.5 FK\_SetPassTime

~ -		<b>K_SetPassTime(long nHandleIndex, long anPassTimeID, long *apnPassTime, long ΓimeSize</b> )	
Functionality	To set t	To set time zone information about opening or closing the door	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.7.5 SetPassTime".	

## 3.7.6 FK\_SetPassTimeWithString

	_	K_SetPassTimeWithString(long nHandleIndex, long anPassTimeID, char PassTime)		
_	_	Equal to command "FK_SetPassTime", it contains the time zone information in the form of strings.		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.7.6 SetPassTimeWithString".		

#### 3.7.7 FK GetUserPassTime

Type	long FK_GetUserPassTime(long nHandleIndex, long anEnrollNumber, long
	*apnGroupID, long *apnPassTimeID, long anPassTimeIDSize)

	To get the group of the time zone information assigned to the designated registrant and those assigned individually	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.7.7 GetUserPassTime".

# ${\tt 3.7.8 \quad FK\_GetUserPassTimeWithString}$

Туре		K_GetUserPassTimeWithString(long nHandleIndex, long anEnrollNumber, long coupID, LPSTR *apstrPassTimeID)	
_	Equal to command "FK_GetUserPassTime", it returns the structure of the ID numbers in the form of strings.		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.7.8 GetUserPassTimeWithString".	

#### 3.7.9 FK SetUserPassTime

~ ~		long FK_SetUserPassTime(long nHandleIndex, long anEnrollNumber, long anGroupID, long *apnPassTimeID, long anPassTimeIDSize)		
Functionality		o set the group of the time zone information assigned to the designated registrant and nose assigned individually		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the detail, please refer to "2.7.9 SetUserPassTime".		

#### 3.7.10 FK\_SetUserPassTimeWithString

TO TIL_DOUGH	JII GOOI	IMO 11 0110 01 1110		
Type	long FK_SetUserPassTimeWithString(long nHandleIndex, long anEnrollNumber, long			
	anGrou	anGroupID, char *apstrPassTimeID)		
Functionality	Equal to command "FK_SetUserPassTime", it contains the structure of ID numbers in			
	the form	the form of strings.		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
	2	For the details, please refer to "2.7.10 SetUserPassTimeWithString".		

# 3.7.11 FK\_GetGroupPassTime

Type	long FK_GetGroupPassTime(long nHandleIndex, long anGroupID, long			
	*apnPas	*apnPassTimeID, long anPassTimeIDSize)		
Functionality	To get the ID numbers of the time zone information corresponding to the designated			
	group of the information			
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.7.11 GetGroupPassTime".		

# 3.7.12 FK\_GetGroupPassTimeWithString

V -	long FK_GetGroupPassTimeWithString(long nHandleIndex, long anGroupID, LPSTR *apstrPassTimeID)		
_	Equal to command "FK_GetGroupPassTime", it returns the structure of ID numbers in the form of strings.		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	

	<u></u>
2	For the details, please refer to "2.7.12 GetGroupPassTimeWithString".

## 3.7.13 FK\_SetGroupPassTime

		_SetGroupPassTime(long nHandleIndex, long anGroupID, long ssTimeID, long anPassTimeIDSize)
	To set ID numbers of the time zone information in the designated group	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.7.13 SetGroupPassTime".

## 3.7.14 FK\_SetGroupPassTimeWithString

Туре	long FK_SetGroupPassTimeWithString(long nHandleIndex, long anGroupID, char *apstrPassTimeID)			
Functionality	_	Equal to command "FK_SetGroupPassTime", it contains the structure of ID numbers in the form of strings.		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".		
		For the details, please refer to "2.7.14 SetGroupPassTimeWithString".		

## 3.7.15 FK\_GetGroupMatch

		_GetGroupMatch(long nHandleIndex, long *apnGroupMatch, long pMatchSize)	
Functionality	To get the door control union of the group of the time zone information structure		
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.7.15 GetGroupMatch".	

## 3.7.16 FK\_GetGroupMatchWithString

Type	long FK	long FK_GetGroupMatchWithString(long nHandleIndex, LPSTR *apstrGroupMatch)		
Functionality	Equal to command "FK_GetGroupMatchTime", it returns the structure of the union in			
	the forn	the form of strings.		
Others	1	"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm"		
		or "FK_ConnectNet".		
	2	For the details, please refer to "2.7.16 GetGroupMatchWithString".		

## 3.7.17 FK\_SetGroupMatch

	_	_SetGroupMatch(long nHandleIndex, long *apnGroupMatch, long pMatchSize)
Functionality	To set the door control union of the group of the time zone information structure	
Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.7.17 SetGroupMatch".

## 3.7.18 FK\_SetGroupMatchWithString

Type	long FK_SetGroupMatchWithString(long nHandleIndex, char *apstrGroupMatch)
Functionality	Equal to command "FK_SetGroupMatch", it contains the structure of the union in the
	form of strings.

Others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".
	2	For the details, please refer to "2.7.18 SetGroupMatchWithString".

# 3.8 Adjust Mangement

This function is not supported for some models.

# 3.8.1 FK\_GetAdjustInfo

	dwAdjus dwAdjus	AdjustInfo(long nHandleIndex, long* dwAdjustedState, long* stedMonth, long* dwAdjustedDay, long* dwAdjustedHour, long* stedMinute, long* dwRestoredState, long* dwRestoredMonth, long* oredDay, long* dwRestoredHour, long* dwRestoredMinute)	
Functionality	To get a daylight saving time		
others	1	For details, please refer to 《4.1.6 ADJUSTINFO Structure》.	

# 3.8.2 FK\_SetAdjustInfo

~ -		AdjustInfo(long nHandleIndex,long dwAdjustedState, long dwAdjustedMonth,	
	long dwAdjustedDay, long dwAdjustedHour, long dwAdjustedMinute, long dwRestoredState, long dwRestoredMonth, long dwRestoredDay, long dwRestoredHour,		
	long dwRestoredMinute)		
Functionality	To set a daylight saving time		
others	1	For details, please refer to 《4.1.6 ADJUSTINFO Structure》.	

# 3.9 Network Information Management

#### 3.9.1 GetServerNetInfo

~ ~	long FK_GetServerNetInfo(long nHandleIndex BSTR* astrServerIPAddress, long* apServerPort, long* apServerRequest)		
Functionality	To get a server information		
Return	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.7.16 GetGroupMatchWithString".	

#### 3.9.2 SetServerNetInfo

Type	long FK_SetServerNetInfo(long nHandleIndex , LPCTSTR astrServerIPAddress, long anServerPort, long anServerRequest)		
Functionality	To set server informationa		
	Success returns 1; failure returns the corresponding error code. For details of error codes, please refer to "4.2 Error Code Table".		
others		"nHandleIndex" is a COM port's ID number returned by "FK_ConnectComm" or "FK_ConnectNet".	
	2	For the details, please refer to "2.7.162 GetGroupMatchWithString".	

#### 3.9.3 SetUSBModel

Type	void FK_SetUSBModel(long anModel)
Functionality To set machine model info for USB Flash information	

	1	"anModel" is a machine model info.	
		#define FK625_FP1000	2001
		#define FK625_FP2000	2002
		#define FK625_FP3000	2003
		#define FK625_FP5000	2004
		#define FK625_FP10000	2005
		#define FK625_FP30000	2006
		#define FK625_ID30000	2007
		#define FK635_FP700	3001
		#define FK635_FP3000	3002
others		#define FK635_FP10000	3003
others		#define FK635_ID30000	3004
		#define FK723_FP1000	4001
		#define FK725_FP1000	5001
		#define FK725_FP1500	5002
		#define FK725_ID5000	5003
		#define FK725_ID30000	5004
		#define FK735_FP500	6001
		#define FK735_FP3000	6002
		#define FK735_ID30000	6003
		#define FK925_FP3000	7001
		#define FK935_FP3000	8001.

# 4 Appendix

#### 4.1 Structures

```
4. 1. 1
       BELLINFO Structure
#define MAX_BELLCOUNT_DAY
                                      24
#define MAX_BELLCOUNT_WEEK
#define
       BELLKIND NONE
#define BELLKIND_BUZZER
                                      1
#define BELLKIND_BELL
                                       2
#define BELLKIND_BUZZERBELL
                                       3
/*--- Bell Time Infomation ---*/
typedef struct tagBELLTIMEINFO {
    BYTE
                 Mark;
                                                 // Setting Mark
    BYTE
                 WeekDay;
                                                  // Day
    BYTE
                 Reserve[2];
                                                  // Reserve
    BYTE
                 Valid[MAX_BELLCOUNT_DAY];
                                                  // Flag for valid setting of bells
    BYTE
                 Hour[MAX_BELLCOUNT_DAY];
                                                   // Time of bells ringing (hour)
    BYTE
                 Minute[MAX_BELLCOUNT_DAY]; // Time of bells ringing (minute)
    BYTE
                 BellKind[MAX_BELLCOUNT_DAY]; // Kind of bells ringing
} BELLTIMEINFO;
typedef struct tagBELLINFO {
    BYTE
                         BellHoldTime;
    BYTE
                         Reserve[3];
    BELLTIMEINFO
                         BellTime[MAX_BELLCOUNT_WEEK];
} BELLINFO;
4.1.2 PASSCTRLTIME Structure
  #define MAX_PASSCTRLGROUP_COUNT 50
  #define MAX PASSCTRL COUNT
                                           7 // Pass Count Max Value
  typedef struct tagPASSTIME {
     BYTE
               StartHour;
                               // Time of opening doors (hour)
     BYTE
               StartMinute:
                              // Time of opening doors (minute)
     BYTE
               EndHour;
                               // Time of closing doors (hour)
     BYTE
               EndMinute:
                               // Time of closing doors (minute)
  } PASSTIME; // Information about time zone – a day
  typedef struct tagPASSCTRLTIME {
```

```
PASSTIME
                   mPassCtrlTime[MAX PASSCTRL COUNT];
                                                               // Information about time zone -
every weekday
  } PASSCTRLTIME; // Information about time zone – a week
4.1.3 USERPASSINFO Structure
  #define MAX_USERPASSINFO_COUNT 3
  typedef struct tagUSERPASSINFO {
             UserPassID[MAX_USERPASSINFO_COUNT];
                                                           // ID number of time zone
information
  } USERPASSINFO; // ID number of time zone information set onto the registrant
4. 1. 4
       GROUPPASSINFO Structure
  #define MAX_GROUPPASSKIND_COUNT
                                          5
  #define MAX_GROUPPASSINFO_COUNT
                                          3
  typedef struct tagGROUPPASSINFO {
              GroupPassID[MAX_GROUPPASSINFO_COUNT];
     BYTE
                                                              // ID number of time zone
information
  GROUPPASSINFO; // Group of time zone information
4.1.5
       GROUPMATCHINFO Structure
  #define MAX_GROUPMATCHINFO_COUNT 10
  typedef struct tagGroupMatchInfo {
     BYTE GroupMatch[MAX_GROUPMATCHINFO_COUNT];// ID number of group of time zone
information
  GROUPMATCHINFO; // Union of groups of time zone information
4.1.6 ADJUSTNFO Structure
    typedef struct tagCHANGE_DATE {
     BYTE
                 Month;
                          // Month
     BYTE
                 Day;
                         // Day
     BYTE
                 Hour;
                         // Hour
     BYTE
                 Minute: // Minute
    } CHANGEDATE;
  typedef struct tagADJUSTINFO {
    unsigned char AdjustedState;
                                // Changed state
```

```
unsigned char Reserve1[1]; // Reserve
unsigned short AdjustedFlag; // Changed Flag
CHANGEDATE Adjusted; // changed data
unsigned char RestoredState; // Restored state
unsigned char Reserve2[1]; // Reserve
unsigned short RestoredFlag; // Restored flag
CHANGEDATE Restored; // Restored data
} ADJUSTINFO;
```

#### 4.1.7 REALTIMEINFO 结构体

#define MAX\_REAL\_TIME 4

typedef struct tagGroupMatchInfo {

BYTE Valid; // senddong mode

BYTE AckTime; // acking time

BYTE WaitTIme;// wait time

BYTE Reserve; // reserve

BYTE SendPos; // Sending position

BYTE Hour[MAX\_REAL\_TIME]; // Hour of the TimeZone

BYTE Minute[MAX\_REAL\_TIME]; // Minute of the TimeZone

} REALTIMEINFO; // A structured body for setting waiting time for transfer of blocks and sectors of time for automatic uploading of transactions

#### 4.2 Error Code Table

Value	Symbol	Description
1	RUN_SUCCESS	Message informing of the successful execution of commands
0	RUNERR_NOSUPPORT	Error that the device does not support the relevant command
-1	RUNERR_UNKNOWNERROR	Unknown error
-2	RUNERR_NO_OPEN_COMM	Error that the device has been not connected to
-3	RUNERR_WRITE_FAIL	Error that the data has not been transmitted to the device
-4	RUNERR_READ_FAIL	Error that the data has not been read from the device
-5	RUNERR_INVALID_PARAM	Error that the input parameters are not correct
-6	RUNERR_NON_CARRYOUT	Error that the command has not been executed correctly

-7	RUNERR_DATAARRAY_END	Message telling that there is no more data to get
-8	RUNERR_DATAARRAY_NONE	Error that the data do not exist
-9	RUNERR_MEMORY	Error that the memory of the PC is not enough
-10	RUNERR_MIS_PASSWORD	Error that the input license does not accord when connecting with the device
-11	RUNERR_MEMORYOVER	Error that the memory has no space where more enrollment data can be registered in the device
-12	RUNERR_DATADOUBLE	Error that the registration number to be enrolled is already stored in the database of the device
-14	RUNERR_MANAGEROVER	Error that the memory has no space where more data of the manager can be registered in the device
-15	RUNERR_FPDATAVERSION	Error that the version of the fingerprint data to be used is not correct