

PART ONE:DigitNoteController Interface

-----Device-----

1.

-(int)connectDevice();	
parameter	Nil
Return type	int
Description	connect to Device
Example	<pre>Int Ret = connectDevice(); If (Ret == 0) { //connectDevice Success } else { //connectDevice Fail, Please refer to the error code reference table }</pre>

2.

-(int) disconnectDevice();	
parameter	Nil
Return type	int
Description	disconnect to Device
Example	<pre>int Ret = disconnectDevice() ; If (Ret == 0) { //disconnectDevice Success } else { //disconnectDevice Fail, Please refer to the error code reference table }</pre>

3.

-(int) getDeviceName(char * deviceName);	
parameter	(char*) deviceNamep
Return type	int

Description	get deviceName
Example	<pre> char deviceNameep[20]; int Ret = getDeviceName(deviceName) ; If (Ret == 0) { // getDeviceName Success } else { // getDeviceName Fail, Please refer to the error code reference table } </pre>

4.

-(int) getDeviceFirmwareVersion(char * bleVersion, char * mcuVersion);	
parameter	(char*) bleVersion (char*) mcuVersion
Return type	int
Description	get bleVersion and mcuVersion
Example	<pre> char bleVersion[20]; char mcuVersion[20]; int Ret = getDeviceFirmwareVersion() ; If (Ret == 0) { // getDeviceFirmwareVersion Success } else { // getDeviceFirmwareVersion Fail, Please refer to the error code reference table } </pre>

5.

-(int) getDeviceBatteryState(int & batteryPercentage, int & batteryState);	
parameter	(int) batteryPercentage (int) batteryState
Return type	int
Description	get batteryPercentage(0% - 100%) and batteryState(0 = Not Charging, 1 = Charging)
Example	<pre> int batteryPercentage; int batteryState; int Ret = getDeviceBatteryState(batteryPercentage, batteryState); If (Ret >= 0) { // getDeviceBatteryState Success } else { // getDeviceBatteryState Fail, Please refer to the error code reference table } </pre>

6.

-(int) setDeviceDateTimeWithSecond(int dataTimeWithSecond);	
parameter	(int)dataTimeWithSecond
Return type	int
Description	set dataTimeWithSecond
Example	<pre> LONG Ret = setDeviceDateTimeWithSecond(dataTimeWithSecond) ; If (Ret >= 0) { // setDeviceDateTimeWithSecond Success } else { // setDeviceDateTimeWithSecond Fail, Please refer to the error code reference table } </pre>

7.

-(int) setDeviceName(char * deviceName);	
parameter	(char*)deviceName
Return type	int
Description	set DeviceName(DeviceName length must less than or equal to 12)
Example	<pre> int Ret = setDeviceName(DeviceName) ; If (Ret == 0) { // setDeviceName Success } else { // setDeviceName Fail, Please refer to the error code reference table } </pre>

8.

-(int) hardwareReset ()	
parameter	Nil
Return type	int
Description	reset device hardware

Example	<pre> int Ret = hardwareReset (); If (Ret == 0) { // hardwareReset Success } else { // hardwareReset Fail, Please refer to the error code reference table } </pre>
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9.

-(int) factoryReset ()	
parameter	Nil
Return type	int
Description	reset device and clean data
Example	<pre> int Ret = factoryReset (); If (Ret == 0) { // factoryReset Success } else { // factoryReset Fail, Please refer to the error code reference table } </pre>

10.

-(int) scanBinaryCode(int & iBinaryCode)	
parameter	(int&) iBinaryCode
Return type	int
Description	scan binarycode
Example	<pre> int Ret = scanBinaryCode(iBinaryCode); If (Ret == 0) { // scanBinaryCode Success } else { // scanBinaryCode Fail, Please refer to the error code reference table } </pre>

11.

-(int) getDeviceDataRange(int & length, int & width, int & pressure)	
parameter	(int&) length, (int&)width, (int&)pressure
Return type	int
Description	Get the range of (length, width, pressure)
Example	<pre>int Ret = getDeviceDataRange(length, width, pressure) If (Ret == 0) { // getDeviceDataRange Success } else { // getDeviceDataRange Fail, Please refer to the error code reference table }</pre>

12.

-(void) OnProgressCallbackForButton(int iButtonValue);	
delegate	<pre>OnProgressCallbackForMouseButton(int iButtonValue); iButtonValue : √(2) ×(1) A(4) B(8) C(16) D(32) E(64) F(128) G(256) OK(512) //Set call back function SetCallBackForButton(ProgressCallbackForButton progressCallback)</pre>

13.

-(int) getDeviceMacAddr(char * deviceMacAddr);	
parameter	(char*) deviceMacAddr
Return type	int
Description	get device mac-addr
Example	<pre>char deviceMacAddr[20]; int Ret = getDeviceMacAddr(deviceMacAddr) ; If (Ret == 0) { // getDeviceMacAddr Success } else { // getDeviceMacAddr Fail, Please refer to the error code reference table }</pre>

14.

-(int) SetCallBackForBreakConnected(ProgressCallbackForBreakConnected progressCallback);	
Delegate	<pre>typedef void(__stdcall * ProgressCallbackForBreakConnected)(); SetCallBackForBreakConnected(ProgressCallbackForBreakConnected progressCallback); //callback for break connected</pre>

15.

-(int) SetCallBackForPluginDevice(ProgressCallbackForPluginDevice progressCallback);	
Delegate	<pre>typedef void(__stdcall * ProgressCallbackForPluginDevice)(); SetCallBackForPluginDevice(ProgressCallbackForPluginDevice progressCallback); //callback for plug in device</pre>

16.

-(int) SetCallBackForPulloutDevice(ProgressCallbackForPulloutDevice progressCallback)	
Delegate	<pre>typedef void(__stdcall * ProgressCallbackForPulloutDevice)(); SetCallBackForPulloutDevice(ProgressCallbackForPulloutDevice progressCallback); //callback for pull out device</pre>

-----Realtime Mode-----

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1.

-(int) switchToRealTimeMode ()	
parameter	Nil
Return type	int
Description	set device as real time mode

	After set real time mode, user can get real time point in (void)onRealTimePenData(LONG x, LONG y, LONG pressure)
Example	<pre>int Ret = switchToRealTimeMode (); If (Ret == 0) { // switchToRealTimeMode Success } else { // switchToRealTimeMode Fail, Please refer to the error code reference table }</pre>
Delegate	<pre>(void) OnProgressCallbackForRealTimePenDatas (int x, int y, int pressure) SetCallBackForRealTimePenDatas(*OnProgressCallbackForRealTimePenD atas)</pre> <p>x: X-coordinate y: Y-coordinate pressure: stylus pressure</p>

-----Upload Mode-----

1.

-(int) switchToUploadMode()	
parameter	Nil
Return type	int
Description	set device as upload mode
Example	<pre>Int Ret = switchToUploadMode() ; If (Ret == 0) { // switchToUploadMode Success } else { // switchToUploadModeFail, Please refer to the error code reference table }</pre>

2.

-(int) queryFileConut(int & fileConut);	
parameter	(int&) fileCount
Return type	int
Description	query file count on device
Example	<pre>Int fileConut; Int Ret = queryFileConut (fileConut) ; If (Ret == 0)</pre>

	<pre> { //queryFileConut Success } else { // queryFileConut Fail, Please refer to the error code reference table } </pre>
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3.

-(int) transferOldestFile()	
parameter	Nil
Return type	int
Description	ask oldest file in device
Example	<pre> Int Ret = transferOldestFile() ; If (Ret == 0) { // transferOldestFile Success } else { // transferOldestFile Fail, Please refer to the error code reference table } //maybe return -5 if the key failure </pre>
Delegate	<p>OnProgressCallbackForUploadFileStatus (int speed, int percentage, int totalSize) SetCallBackForUploadFileStatus(*OnProgressCallbackForUploadFileStatus)</p> <p>speed: transfer speed (bytes/s) percentage: transmission percentage (0% - 100%) totalSize: the raw data size of request file(bytes)</p>

4.

-(int) transferNewestFile()	
parameter	Nil
Return type	Int
Description	ask newest file in device
Example	<pre> int Ret = transferNewestFile () ; If (Ret == 0) { // transferNewestFile Success } else { // transferNewestFile Fail, Please refer to the error code reference } </pre>

	<pre> table } //maybe return -5 if the key failure </pre>
Delegate	<pre> OnProgressCallbackForUploadFileStatus (int speed, int percentage, int totalSize) SetCallBackForUploadFileStatus(*OnProgressCallbackForUploadFileStatus) speed: transfer speed (bytes/s) percentage: transmission percentage (0% - 100%) totalSize: the raw data size of request file(bytes) </pre>

5.

-(int) getUploadFileInfo(int & fileSize, int & fileDateTime)	
parameter	(int&)fileSize (int&)fileDat2Time
Return type	int
Description	when event onUploadFileStatus finish(percentage = 100%),call this function to get fileSize and fileDateTime
Example	<pre> Int int Ret = getUploadFileInfo (fileSize, fileDateTime) ; If (Ret == 0) { // getUploadFileInfo Success } else { // getUploadFileInfo Fail, Please refer to the error code reference table } </pre>

6.

-(int) stopTransfer()	
parameter	Nil
Return type	int
Description	stop file transfer
Example	<pre> LONG Ret = stopTransfer() ; If (Ret == 0) { // stopTransfer Success } else { // stopTransfer Fail, Please refer to the error code reference table } </pre>

7.

-(int) GetUploadFile()	
parameter	Nil
Return type	int
Description	get upload file
Example	<pre>int Ret = GetUpladFile() ; If (Ret == 0) { // GetUploadFile Success } else { // GetUploadFile Fail, Please refer to the error code reference table }</pre>
Delegate	OnProgressCallbackForUploadFilePenData (int x, int y, int pressure) SetCallBackForUploadFilePenData(*OnProgressCallbackForUploadFilePenData) x: X-coordinate y: Y-coordinate pressure: stylus pressure

8.

-(int) GetUploadFileBinaryCode(int & iBinaryCode);	
parameter	(int&)iBinaryCode
Return type	int
Description	get upload file binary-code
Example	<pre>int Ret = GetUploadFileBinaryCode (iBinaryCode) ; If (Ret == 0) { // GetUpladFileBinaryCode Success } else { // GetUpladFileBinaryCode Fail, Please refer to the error code reference table }</pre>

9.

-(int) deleteUploadFile ()	
parameter	Nil

Return type	Int
Description	delete upload file in device
Example	<pre>int Ret = deleteUploadFile () ; If (Ret == 0) { // deleteUploadFileSuccess } else { // deleteUploadFile Fail, Please refer to the error code reference table }</pre>

-----Mouse Mode-----

1.

-(int) connectMouse ()	
parameter	Nil
Return type	Int
Description	Connect device to mouse mode
Example	<pre>int Ret = connectMouse() If (Ret == 0) { // connectMouse Success } else { // connectMouse Fail, Please refer to the error code reference table }</pre>

2.

-(int) disconnectMouse ()	
parameter	Nil
Return type	int
Description	disconnect device from mouse mode
Example	<pre>int Ret = disconnectMouse(key) If (Ret == 0) { // disconnectMouse Success } else { // disconnectMouse Fail, Please refer to the error code reference table }</pre>

3.

-(void) OnProgressCallbackForMouseData(int x, int y, int pressure, int length, int weight);	
delegate	OnProgressCallbackForMouseData(int x, int y, int pressure, int length, int weight); x: X-coordinate y: Y-coordinate pressure: pressure length: length range weight: weight range SetCallBackForMouseData(ProgressCallbackForMousePenDatas progressCallback); //Set call back function

4.

-(void) OnProgressCallbackForMouseButton(int iButtonValue);	
delegate	OnProgressCallbackForMouseButton(int iButtonValue); iButtonValue : √(2) ×(1) A(4) B(8) C(16) D(32) E(64) F(128) G(256) OK(512) //Set call back function SetCallBackForMouseButton(ProgressCallbackForMouseButton progressCallback)

-----File Encryption-----

1.

-(int) openFileEncryptionWithKey(char * key);	
parameter	(char *)key
Return type	int
Description	open device file encryption function
Example	int Ret = openFileEncryptionWithKey(key) If (Ret == 0) {

	<pre> // openFileEncryptionWithKey Success } else { // openFileEncryptionWithKey Fail, Please refer to the error code reference table } // Note :Deive will restart, interface maybe return -3 </pre>
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2.

-(int) closeFileEncryptionByKey(char * key)	
parameter	(char *)key
Return type	int
Description	close device file encryption function
Example	<pre> Int Ret = closeFileEncryptionByKey(key) If (Ret == 0) { // closeFileEncryptionByKey Success } else { // closeFileEncryptionByKey Fail, Please refer to the error code reference table } // Note :Deive will restart, interface maybe return -3 </pre>

3.

-(int) queryFileEncryptionStatus(int & FileEncryptStatus);	
parameter	Nil
Return type	int
Description	query FileEncryptStatus(0 = file unencrypted, 1 = file encrypted)
Example	<pre> Int FileEncryptStatus; int Ret = queryFileEncryptionStatus (FileEncryptStatus) If (Ret == 0) { // queryFileEncryptionStatus Success } else { // queryFileEncryptionStatus Fail, Please refer to the error code reference table } </pre>

4.

-(int) verifyFileEncryptionByKey(char * key);	
parameter	(char *)key
Return type	int
Description	verify the file encryption system per 30 minutes by using the key which you set.
Example	<pre> int Ret = verifyFileEncryptionByKey(key) If (Ret == 0) { // verifyFileEncryptionByKey Success } else { // verifyFileEncryptionByKey Fail, Please refer to the error code reference table } </pre>

----- error code reference table-----

error code reference table		
Ret	Symbol	instruction
0	DigitNoteController_OK	The request is successful
-1	DigitNoteController_SYSERR	System error
-2	DigitNoteController_TIMEOUT	The request timeout
-3	DigitNoteController_NOESPONSE	Device did not respond,maybe device is restarting
-4	DigitNoteController_INVALID	Illegal request, maybe parameter is not correct
-5	DigitNoteController_KEYERR	Verify key error or the key failure,please call the interface verifyFileEncryptionByKey

PART TWO: DigitUSBController WARNING

1. in order to ensure the pen-data sequently, callback-function would be executed one by one, and may be executed ten thousand times per second. So please do not perform high time-consuming operation in callback-function, and inhibit to call library interface in callback-function.