iOS CPCL Program Manual

Bluetooth

1.Defined in the TSCBLEManager Class

1.1 sharedInstance
Singleton.

- (void) sharedInstance

1.2 startScan
Search for bluetooth printers.

- (void) startScan

1.3 stopScan
Stop searching for bluetooth printers.

-(void) stopScan

1.4 connectDevice
Connect a Printer.

-(void)connectDevice:(CBPeripheral *)peripheral

[Parameter]

-peripheral: Device.

1.5 disconnectRootPeripheral
Disconnect a Printer.

- (void) disconnectRootPeripheral

1.6 writeCommandWithData
Data printing.

- (void) writeCommandWithData: (NSData *) data

[Parameter]

- data: Data to print.

TSCBLEManagerDelegte

★ TSCbleUpdatePeripheralList

Discover peripherals.

- (void) TSCbleUpdatePeripheralList: (NSArray *) peripherals RSSIList:

(NSArray *) rssiList

[Parameter]

- peripherals: Peripheral List.

- rssiList: Rssi List.

★ TSCbleConnectPeripheral

Peripheral connected succeeded.

- (void) TSCbleConnectPeripheral: (CBPeripheral *) peripheral

[Parameter]

- peripheral: Device.

★ TSCbleFailToConnectPeripheral

Peripheral connected failed.

- (void) TSCbleFailToConnectPeripheral: (CBPeripheral *) peripheral
error: (NSError *)error

[Parameter]

- peripheral: Device.

- error: Connect error.

★ TSCbleDisconnectPeripheral

Peripheral disconnected.

- (void) TSCbleDisconnectPeripheral: (CBPeripheral *) peripheral

[Parameter]

- peripheral: Device.

★ TSCbleWriteValueForCharacteristic

Send data succeeded.

- (void) TSCbleWriteValueForCharacteristic: (CBCharacteristic *) character error: (NSError *) error

[Parameter]

- character: Device attributes.

- error: Send error.

★ TSCbleReceiveValueForCharacteristic

Receive data from printer.

- (void) TSCbleReceiveValueForCharacteristic: (CBCharacteristic *) character error: (NSError *) error

[Parameter]

- character: Device attributes.

- error: Receive error.

WiFi

2.Defined in the TSCWIFIManager Class

2.1 sharedInstance

Singleton.

- (void) sharedInstance

2.2 connectWithHost

Connect a Printer.

- (void) connectWithHost: (NSString *) hostStr port: (UInt16 *) port

[Parameter]

- hostStr: Connect printer ip address.

- port: Port Number.

2.3 disconnect
Disconnect a Printer.

- (void) disconnect

2.4 writeCommandWithData
Data printing.

- (void)writeCommandWithData: (NSData *) data

[Parameter]

- data: Data to print.

TSCWIFIManagerDelegate

★ TSCwifiConnectedToHost
Connected a Printer.

- (void) TSCwifiConnectedToHost: (NSString *) host port: (Uint16) port

[Parameter]

- host: IP Address.

- port: Port Number.

★ TSCwifiDisconnectWithError
Disconnected a Printer.

- (void) TSCwifiDisconnectWithError: (NSError *) error

[Parameter]

- error: error.

★ TSCwifiWriteValueWithTag
Print successful.

- (void) TSCwifiWriteValueWithTag:(long)tag

★ TSCwifiReceiveValueForData
Receive data from printer.

- (void) TSCwifiReceiveValueForData:(NSData *)data

[Parameter]

- data: Printer data.

CPCL

3.Defined in the CPCLCommand Class

3.1 initLabelWithHeight
Init label

+ (NSData *)initLabelWithHeight:(int)height

+ (NSData *)initLabelWithHeight:(int)height count:(int)count

+ (NSData *)initLabelWithHeight:(int)height count:(int)count offsetx:(int)offsetx

 * @param height: label height
 * @param count: label count
 * @param offsetx: x–coordinate offset position
 * @return data

3.2 setmagWithw
Font magnification

+ (NSData *)setmagWithw:(int)w h:(int)h

 * @param w: width amplification 1~16
 * @param h: height amplification 1~16
 * @return data

3.3 setAlignment
Sets the alignment mode

+ (NSData *)setAlignment:(CPCLAlignment)alignment

+ (NSData *)setAlignment:(CPCLAlignment)alignment end:(int)end

 * @param alignment:

ALIGNMENT_LEFT	Left align
ALIGNMENT_CENTER	Middle

ALIGNMENT_RIGHT	Right align

 * @param end: End point align

 * @return data

3.4 setSpeedLevel

Sets print speed

+ (NSData *) setSpeedLevel:(int)level

 * @param level: speed level, 0~5.

 * @return data

3.5 setPageWidth

Sets print page width

+ (NSData *)setPageWidth:(int)width

 * @param width: page width

 * @return data

3.6 setBeepLength

Sets beeps length

+ (NSData *)setBeepLength:(int)length

 * @param length beeps duration, 1/8s, eg. 16 means 2s

 * @return data

3.7 drawTextWithx

Draws text

+ (NSData *)drawTextWithx:(int)x y:(int)y content:(NSString *)content

+ (NSData *)drawTextWithx:(int)x y:(int)y font:(CPCLFont)font content:
   (NSString *)content

+ (NSData *)drawTextWithx:(int)x y:(int)y rotation:(CPCLRotation)rotation
font:(CPCLFont)font content:(NSString *)content

 * @param x x–coordinate

 * @param y y–coordinate

 * @param font

FNT_0	0
FNT_1	1
FNT_2	2
FNT_3	3
FNT_4	4
FNT_5	5
FNT_6	6
FNT_7	7
FNT_24	24
FNT_55	55

* @param rotation

ROTA_0	0
ROTA_1	90
ROTA_2	180
ROTA_3	270

* @param content text

* @return data

3.8 form

Switch to the top of the next page

+ (NSData *)form

* @return data

3.9 print

Command over, and print

+ (NSData *)print

* @return data

3.10 drawBarcodeWithx

Draws Barcode Horizontal

+ (NSData *)drawBarcodeWithx:(int)x y:(int)y codeType:
(CPCLBarCode)codeType height:(int)height content:(NSString *)content

+ (NSData *)drawBarcodeWithx:(int)x y:(int)y codeType:
  (CPCLBarCode)codeType height:(int)height ratio:
  (CPCLBarCodeRatio)ratio content:(NSString *)content

        Draws Barcode Vertical
+ (NSData *)drawBarcodeVerticalWithx:(int)x y:(int)y codeType:
  (CPCLBarCode)codeType height:(int)height content:(NSString *)content
+ (NSData *)drawBarcodeVerticalWithx:(int)x y:(int)y codeType:
(CPCLBarCode)codeType height:(int)height ratio:
(CPCLBarCodeRatio)ratio content:(NSString *)content
 * @param x: x–coordinate
 * @param y: y–coordinate
 * @param codeType:

BC_128	Code 128
BC_UPCA	UPC–A
BC_UPCE	UPC–E
BC_EAN13	EAN/JAN–13
BC_EAN8	EAN/JAN–8
BC_39	Code 39
BC_93	Code 93/Ext.93
BC_CODABAR	Codabar

 * @param height: barcode height
 * @param ratio: Ratio of wide to narrow,   default: BCR_RATIO_1
 * @param hriText:

HRI_TEXT_NONE	NONE
HRI_TEXT_BELOW	BELOW
HRI_TEXT_ABOVE	ABOVE

 * @param content: barcode content
 * @return data

3.11 barcodeText
        Barcode text offset x–coordinate
+(NSData *)barcodeText: (int)offsetx

* @param offsetx: offset x–coordinate
* @return data

3.12 barcodeTextOff

Cancel barcode annotation

+(NSData *)barcodeTextOff: (int)offsetx
* @param offsetx: offset x–coordinate
* @return data

3.13 drawQRCodeWithx

Draws QR Code

+ (NSData *)drawQRCodeWithx:(int)x y:(int)y content:(NSString *)content
+ (NSData *)drawQRCodeWithx:(int)x y:(int)y codeModel:
(CPCLQRCodeMode)codeModel cellWidth:(int)cellWidth content:
(NSString *)content
* @param x: x–coordinate
* @param y: y–coordinate
* @param codeModel:

CODE_MODE_ORG	Original
CODE_MODE_ENHANCE	Enhance

* @param cellWidth: cell width: 1~32, default:6
* @param content: QR code content
* @return data

3.14 drawImageWithx

Draws image

+(NSData *)drawImageWithx:(int)x y:(int)y image:(UIImage *)image
* @param x x–coordinate
* @param y y–coordinate
* @param UIImage
* @return data

3.15 drawBoxWithx

Draws rectangle

+ (NSData *)drawBoxWithx:(int)x y:(int)y width:(int)width height:(int)height
  thickness:(int)thickness
 * @param x x–coordinate
 * @param y y–coordinate
 * @param width rectangle width
 * @param height rectangle height
 * @param thickness rectangle line width
 * @return data

3.16 drawLineWithx
Draws line
+ (NSData *)drawLineWithx:(int)x y:(int)y xend:(int)xend yend:(int)yend
  width:(int)width
 * @param x x–coordinate by dot
 * @param y y–coordinate by dot
 * @param xend end x–coordinate by dot
 * @param yend end y–coordinate by dot
 * @param width line width by dot
 * @return data

3.17 drawInverseLineWithx
The specified area is displayed in black and white reverse
+ (NSData *)drawInverseLineWithx:(int)x y:(int)y xend:(int)xend yend:
  (int)yend width:(int)width
 * @param x x–coordinate by dot
 * @param y y–coordinate by dot
 * @param xend end x–coordinate by dot
 * @param yend end y–coordinate by dot
 * @param width line width by dot
 * @return data

3.18 setStringEncoding
Set character encoding
+ (void)setStringEncoding:(NSStringEncoding)encoding
 * @param encoding: NSStringEncoding