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GoDEX Mac OS X framework User Manual

Control GoDEX printer by Mac OS X framework

This manual explains how to use the GoDEX Mac OS X framework in GoDEX printer control program.



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1. Overview

godextool.framework is an Mac OS X library provided by GoDEX. Software developers can use this library to develop software for printing on Mac OS X platform.

godextool.framework provides communication function of USB and Network. Before the start of sending commands to the printer, you must call ***openNet*** or ***openUSB*** function to establish communication between the program and the printer. After printing job is completed, you must call ***close*** function to close the connection between program and printer.

You can use ***sendCommand*** function to send commands to GoDEX printer. You can use ***read*** function to get data from printer. You must use EZPL GoDEX printer language to control the print. If you need more advanced control method, you can go to the official website to download GoDEX [EZPL Programming Manual](#).

Some examples :

1. Use the ***openNet*** to print the self-test page as below:

```
openNet:@ " 192.168.1.1 " port:9100;  
sendCommand:@ "~V" ;  
close;
```

2. Use the ***openUSB*** to print the self-test page as below:

```
openUSB: 20140108;  
sendCommand:@ "~V" ;  
close;
```

3. You can use ***putImage*** function to print image as below:

```
open:@ " 192.168.1.1 " port:9100;  
sendCommand:@ " ^L " ;  
:  
putImage:fileName pointX:0 pointY:0;  
:  
sendCommand:@ " E " ;  
close;
```

2. Function List

Command	Description
openNet	Connect Network with the GoDEX printer (default timeout time of 2 second).
openNet	Connect Network with the GoDEX printer (timeout time by users setting).
openUSB	Connect USB with the GoDEX printer.
findAllNet	Find all GoDEX printers connected to the same network segment.
findAllUSB	Find all GoDEX printers connected to the USB devices on Mac OS X.
close	Close the connection.
sendCommand	Send EZPL command (default UTF8 encoding).
sendCommand	Send EZPL command (other encoding).
read	Read strings from the printer (default timeout time of 3 second).
read	Read strings from the printer (timeout time by users setting).
setup	Set label size, darkness and speed of printer.
printCmdFile	Send a command file to the printer.
loadImage	Download image to the internal memory of printer.
putImage	Print image (this command doesn't download image to the internal memory of printer).

3. Function Description

Before using the `godextool.framework` function, you must first create and initialize an object as described below:

Objective-C

```
@property (strong, nonatomic) GoDEXPrinterControl *godex;
_godex = [[GoDEXPrinterControl alloc] init];
```

Swift

```
var godex = GoDEXPrinterControl ()
```

3.1 - (BOOL)openNet:(NSString *)address port:(NSInteger)port

Description	This method is used to connect the printer by Network with a default timeout setting of 2 second.	
Parameters	address	Type : <code>NSString</code> IP Address of printer for Network.
	port	Type : <code>NSInteger</code> Printer port.
Return	<code>true</code>	Connection with the printer is success.
	<code>false</code>	Connection with the printer is failure or over the timeout time.

3.2 - (BOOL)openNet:(NSString *)address port:(NSInteger)port timeout:(NSInteger)timeout

Description	This method is used to connect with the printer by Network with timeout setting.	
Parameters	address	Type : <code>NSString</code> IP Address of printer for Network.
	port	Type : <code>NSInteger</code> Printer port.
	timeout	Type : <code>NSInteger</code> Set timeout time.
Return	<code>true</code>	Connection with the printer is success.
	<code>false</code>	Connection with the printer is failure or over the timeout time.

3.3 - (BOOL)openUSB:(NSString *)serialNumber

Description	This method is used to connect with the printer by USB.	
Parameters	serialNumber	Type : <code>NSString</code> Printer serial number.
Return	<code>true</code>	Connection with the printer is success.
	<code>false</code>	Connection with the printer is failure.

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3.4 - (NSArray *)findAllNet

Description	Find all GoDEX printers connected to the same network segment.
Parameters	None.
Return	An (NSArray *) object contains the found printers. Each found printer is an (NSArray *) object of 3 strings. The first string is printer name, the second string is printer IP address and the last string is printer port.

3.5 - (NSArray *)findAllUSB

Description	Find all GoDEX printers connected to the USB devices on Mac OS X.
Parameters	None.
Return	An (NSArray *) object contains the found printers. Each found printer is an (NSArray *) object of 2 strings. The first string is printer name and the second string is printer serial number.

3.6 - (void)close

Description	This method is used to close connection with the printer.
Parameters	None.
Return	None.

3.7 - (BOOL)sendCommand:(NSString *)command

Description	This method is used to send a command to the printer. command	
Parameters	Type : NSString	Send command to the printer (default NSUTF8StringEncoding).
Return	true false	Send command to the printer is success. Send command to the printer is failure.

3.8 - (BOOL)sendCommand:(NSString *)command encoding:(NSInteger)encode

Description	This method is used to send a command to the printer with setting of encoding method. command	
Parameters	encode	Type : NSString Send command to the printer.
	encode	Type : NSInteger Choose encode of command. (For example : NSUTF8StringEncoding or NSASCIIStringEncoding. For more information, please refer to StringEncoding provided by Apple in the documentation).
Return	true false	Send command to the printer is success. Send command to the printer is failure.

3.9 - (NSString *)read

Description	This method is used to read strings from the printer with a default timeout setting of 3 second.
Parameters	None.
Return	Read strings from the printer.

3.10 - (NSString *)read:(NSInteger)timeout

Description	This method is used to read strings from the printer with timeout setting. timeout	
Parameters	Type : NSInteger	Timeout time to read a string from the printer.
Return	String from the printer.	

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3.11 - (BOOL)setup:(NSInteger)height gap:(NSInteger)gap top:(NSInteger)top dark:(NSInteger)dark speed:(NSInteger)speed mode:(NSInteger)mode

Description	This method is used to setup the parameters of the printer.	
Parameters	height	Type : NSInteger Height of paper (unit : mm).
	gap	Type : NSInteger Label gap (unit : mm).
	top	Type : NSInteger Black top for black mark label (unit : mm).
	dark	Type : NSInteger darkness (range : 0~19).
	speed	Type : NSInteger Printer speed (unit : IPS, range : 2~7). The speed range is dependent on the printer. Different printer model may have a different range.
	mode	Type : NSInteger Paper type 0: label with gap. 1: plain paper. 2: black mark label.
	Return	true false Setup the parameters of printer is success. Setup the parameters of printer is failure.

3.12 - (BOOL)printCmdFile:(NSString *)fileName

Description	This method is used to send a command file to the printer.	
Parameters	fileName	Type : NSString Path of command file and filename.
	Return	true false Send a command file to the printer is success. Send a command file to the printer is failure.

3.13 - (BOOL)loadImage:(NSString *)fileName imageID:(NSString *)imageID

Description	This method is used to upload bitmap to the internal memory of the printer.	
Parameters	fileName	Type : NSString Path of image and filename.
	imageID	Type : NSString imageID represents the image upload to the printer to recall and print the image, please use command ^Y.
Return	true false	Upload bitmap is success. Upload bitmap is failure.

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3.14 - (BOOL)putImage:(NSString *)fileName pointX:(NSInteger)px pointY:(NSInteger)py

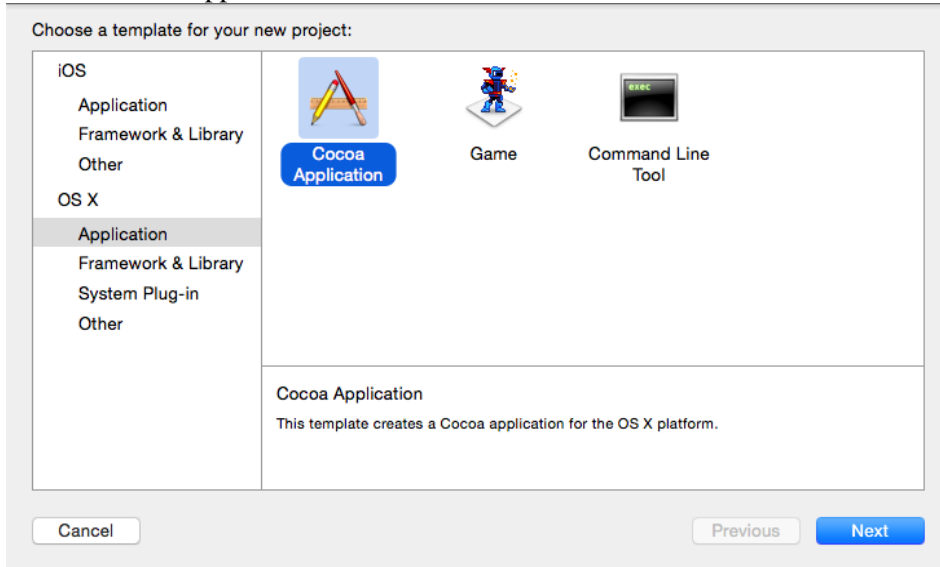
Description	This method is used to the print an image directly to the printer.	
Parameters	fileName	Type : <code>NSString</code> Path of image and filename.
	px	Type : <code>NSInteger</code> X coordinate of the top left point of the image (unit : dot).
	py	Type : <code>NSInteger</code> Y coordinate of the top left point of the image (unit : dot).
Return	<code>true</code>	putImage is success.
	<code>false</code>	putImage is failure.

4. GoDEX framework sample

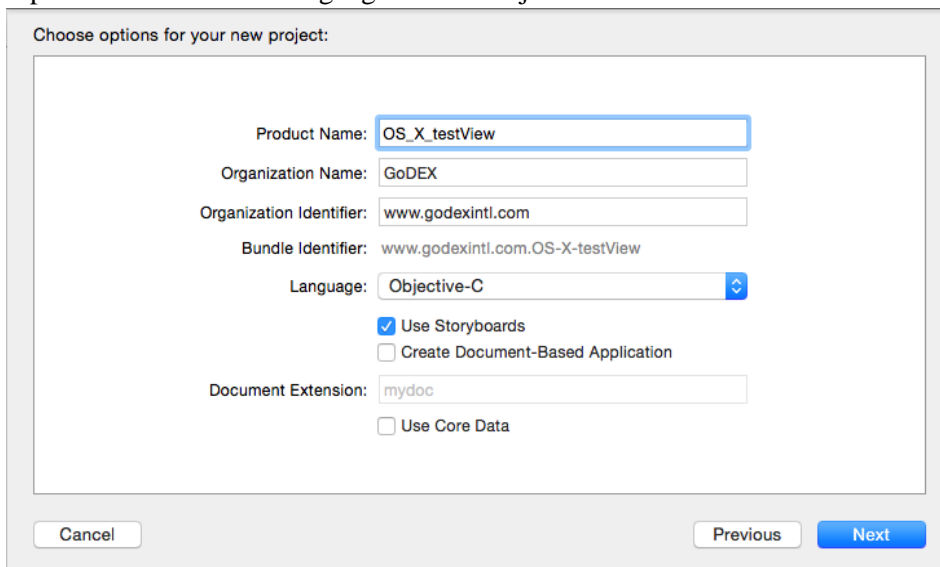
Through the following step in 4.1 and 4.2 you can build a simple program to control GoDEX printer with Objective-C or Swift. 4.3 contain a sample App for you reference.

4.1 Create OS X Application

Choose Cocoa Application

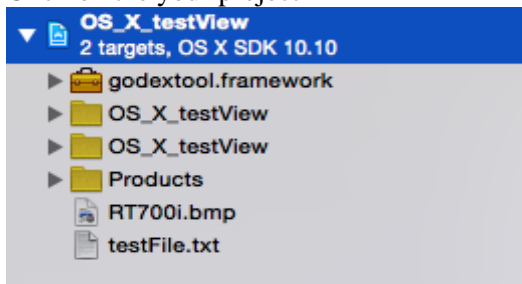


Input Product Name , Language choose Objective-C or Swift

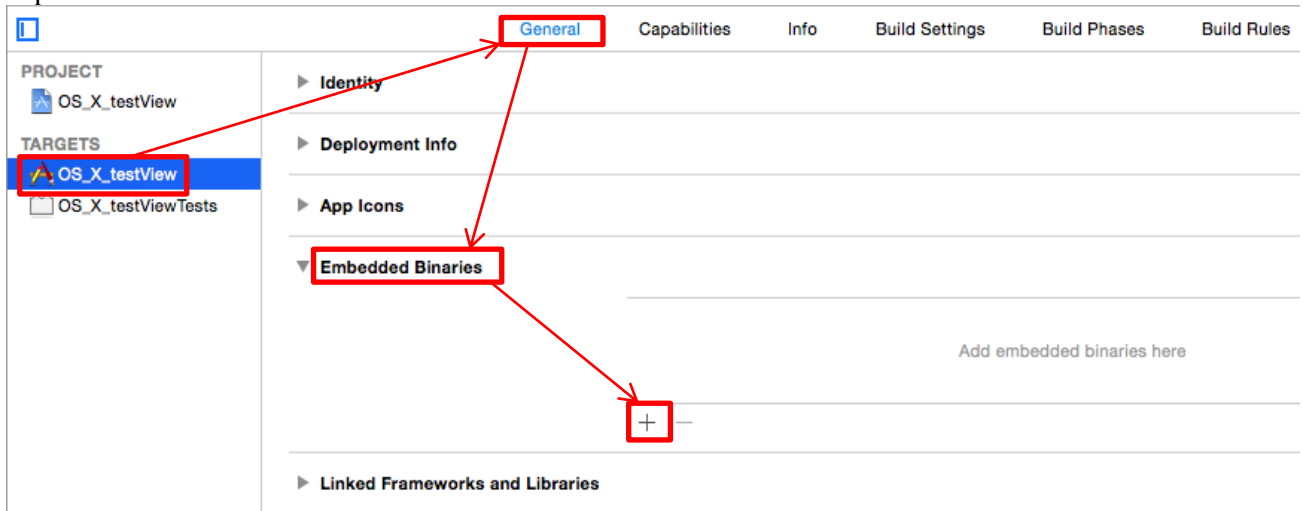


4.2 Add godextool.framework into your project

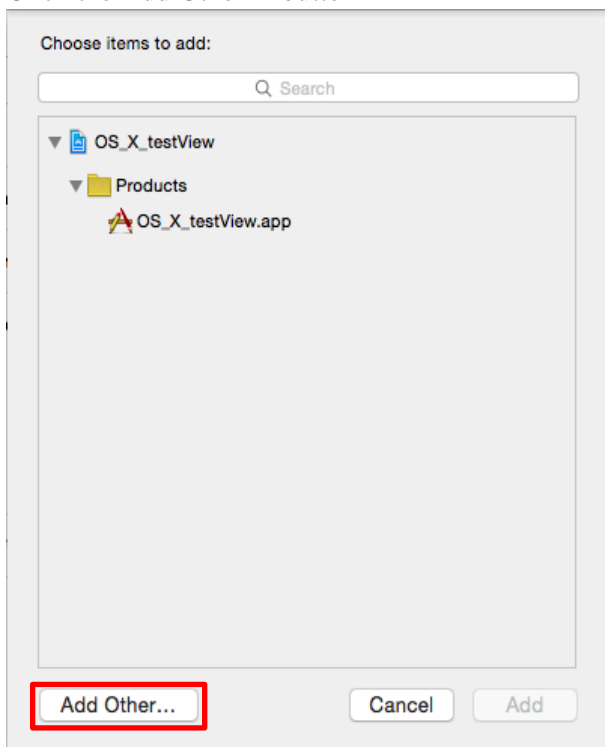
Click on the your project



Open TARGETS then click the General tab and then click the + in Embedded Binaries.

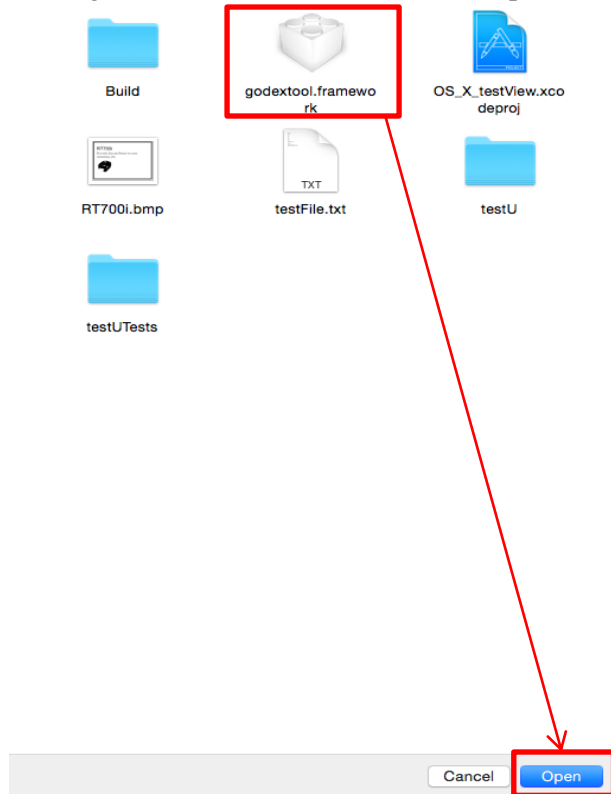


Click the Add Other... button

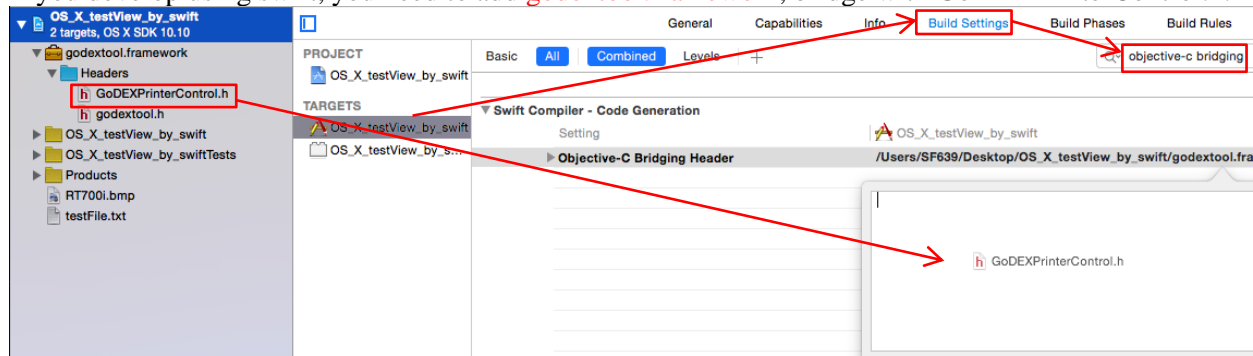


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Select godextool.framework. Then click Open



If you develop using swift, you need to add **godextool.framework**, bridge with GoDEXPrinterControl.h.

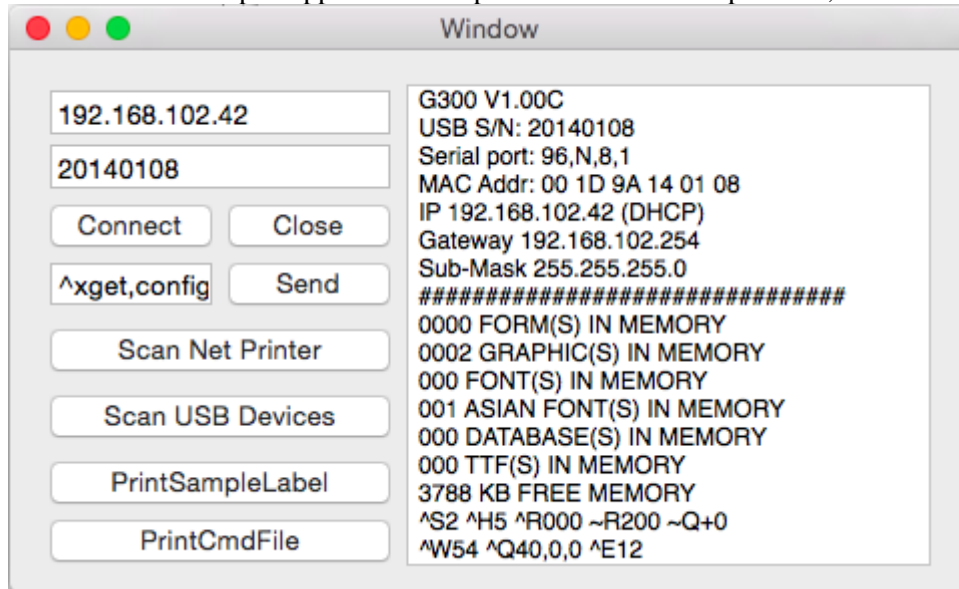


Click your project and then Open TARGETS, select Build Settings then input Objective-C Bridging in search, add GoDEXPrinterControl.h into Objective-C Bridging Header.

If you develop using Objective-C, you need to add `<godextool/GoDEXPrinterControl.h>` in ViewController.h.

4.3 This sample App is used to demo godextool.framework.

The sample App is contained in Mac_OS_X_SDK.zip, Readme contains the detail information about this framework and is sample App. After Compile and Run this sample code, a screen will be show as below:



This view includes three `NSTextField` represents the printer IP address, printer serial number and command, a `NSTextView` shows the feedback load from the printer, seven `NSButtons` `Connect`、`Close`、`Send`、`Scan Net Printer`、`Scan USB Devices`、`PrintSampleLabel`、`PrintCmdFile` represents execute command.