

## Class

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# XWIFIManager

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The `XWIFIManager` class handles network communication and provides callback blocks for printer-related statuses and operations.

```
#import <Foundation/Foundation.h>
#import <UIKit/UIKit.h>
#import "NetProfile.h"
@class XWIFIManager;
```

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## XWIFIManagerDelegate

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### Delegate Methods

#### **xWifiConnectedToHost:port:**

**Callback for successful connection**

```
- (void)xWifiConnectedToHost:(NSString *)host port:
(UInt16)port;
```

- **host**

The host address of the connected device.

- **port**

The port number used for the connection.

#### **xWifiDisconnectWithError:**

## Callback for disconnection error

```
- (void)xWifiDisconnectWithError:(NSError *)error;
```

- **error**

The error information related to the disconnection.

## xWifiWriteValueWithTag:

### Callback for successful data transmission

```
- (void)xWifiWriteValueWithTag:(long)tag;
```

- **tag**

The tag value associated with the data transmission.

## xWifiReceiveValueForData:

### Callback for receiving data from the printer

```
- (void)xWifiReceiveValueForData:(NSData *)data;
```

- **data**

The received data.

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# Properties

## Network Communication Class

```
@interface XWIFIManager : NSObject
```

- **hostStr**

The host address string of the printer.

```
@property (nonatomic, copy) NSString *hostStr;
```

- **port**

The port number used for communication.

```
@property (nonatomic, assign) UInt16 port;
```

- **isConnected**

The connection status of the printer.

```
@property (nonatomic, assign) BOOL isConnected;
```

- **delegate**

The delegate to receive WiFi manager events.

```
@property (nonatomic, weak) id<XWIFIManagerDelegate>  
delegate;
```

- **receiveBlock**

The callback block called when data is received.

```
@property (nonatomic, copy) XWIFIManagerReceiveBlock  
receiveBlock;
```

- **writeBlock**

The callback block called when data is written.

```
@property (nonatomic, copy) XWIFIManagerWriteBlock  
writeBlock;
```

- **statusPOSBlock**

The callback block called when reporting POS printer status.

```
@property (nonatomic, copy) XWIFIPOSPrinterStatusBlock  
statusPOSBlock;
```

- **statusLabelBlock**

The callback block called when reporting label printer status.

```
@property (nonatomic, copy)  
XWIFILabelPrinterStatusBlock statusLabelBlock;
```

- **snBlock**

The callback block called when reporting the printer's serial number.

```
@property (nonatomic, copy) XWIFIPrinterSNBlock  
snBlock;
```

- **checkPOSBlock**

The callback block called when checking POS printer status.

```
@property (nonatomic, copy) XWIFIPOSPrinterCheckBlock  
checkPOSBlock;
```

- **foundPrinterBlock**

The callback block called when a printer is discovered.

```
@property (nonatomic, copy)
XWIFIManagerFoundPrinterBlock foundPrinterBlock;
```

- **cashBoxBlock**

The callback block called when reporting cash drawer status.

```
@property (nonatomic, copy) XWIFICashBoxBlock
cashBoxBlock;
```

- **connectedPrinter**

The configuration profile of the connected printer.

```
@property (nonatomic, strong) NetProfile
*connectedPrinter;
```

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## Methods

### Singleton Object

```
+ (instancetype)sharedInstance;
```

### Remove a Delegate Object

```
- (void)removeDelegate:(id<XWIFIManagerDelegate>)delegate;
```

- **delegate**

The delegate object to be removed.

### Remove All Delegate Objects

```
- (void)removeAllDelegates;
```

## Connect to the Printer Address

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

- **hostStr**

The host address of the printer.

- **port**

The port number to connect to.

## Disconnect from the Printer

```
- (void)disconnect;
```

## Write Commands to the Printer

```
- (void)writeCommandWithData:(NSData *)data;
```

- **data**

The command data to be sent.

## Write Commands with a Receive Callback

```
- (void)writeCommandWithData:(NSData *)data
receiveCallback:(XWIFIManagerReceiveBlock)receiveBlock;
```

- **data**

The command data to be sent.

- **receiveBlock**

The callback block when data is received.

## Write Commands with a Write Completion Callback

```
- (void)writeCommandWithData:(NSData *)data writeCallBack:
(XWIFIManagerWriteBlock)writeBlock;
```

- **data**

The command data to be sent.

- **writeBlock**

The callback block when the write operation is complete.

## Create a UDP Socket

```
- (BOOL)createUdpSocket;
```

- **return**

Whether the socket creation was successful.

## Close the UDP Socket

```
- (void)closeUdpSocket;
```

## Search for Printers

```
- (void)sendFindCmd:  
(XWIFIManagerFoundPrinterBlock)foundPrinterBlock;
```

- **foundPrinterBlock**

The callback block when a printer is found.

## Set IP Configuration

```
- (void)setIPConfigWithIP:(NSString *)ip Mask:(NSString  
*)mask Gateway:(NSString *)gateway DHCP:(BOOL)dhcp;
```

- **ip**

The IP address of the printer.

- **mask**

The subnet mask.

- **gateway**

The gateway address.

- **dhcp**

Whether to enable DHCP.

## Set WiFi Configuration

```
- (void)setWiFiConfigWithIP:(NSString *)ip mask:(NSString  
*)mask gateway:(NSString *)gateway ssid:(NSString *)ssid  
password:(NSString *)password encrypt:(NSUInteger)encrypt;
```

- **ip**

The IP address of the printer.



- **mask**  
The subnet mask.
- **gateway**  
The gateway address.
- **ssid**  
The WiFi SSID.
- **password**  
The WiFi password.
- **encrypt**  
The encryption method.

## Check Printer Connection Status

```
- (BOOL)printerIsConnect;
```

- **return**  
Whether the printer is connected.

## Get Printer Serial Number

```
- (void)printerSN:(XWIFIPrinterSNBlock)snBlock;
```

- **snBlock**  
The callback block for the serial number.

## Connect to the Printer by MAC Address

```
- (void)connectWithMac:(NSString *)macStr;
```

- **macStr**

The MAC address of the printer.

## Check Printer Status (POS Printers)

```
- (void)printerPOSStatus:
(XWIFIPOSPrinterStatusBlock)statusBlock;
```

- **statusBlock**

The callback block for the POS printer status.

## Check Printer Status (Label Printers)

```
- (void)printerLabelStatus:
(XWIFILabelPrinterStatusBlock)statusBlock;
```

- **statusBlock**

The callback block for the label printer status.

## Query Printer Status

```
- (void)printerPOSCheck:(int)type checkBlock:
(XWIFIPOSPrinterCheckBlock)checkBlock;
```

- **type**

The query type (1: common status, 2: offline status, 3: error status, 4: paper feed status).

- **checkBlock**

The callback block for the query result.

## Check Cash Drawer Status

```
- (void)cashBoxCheck:(XWIFICashBoxBlock)cashBoxBlock;
```

- **cashBoxBlock**

The callback block for the cash drawer status.

## Get Copyright Information

```
+ (NSString *)GetCopyRight;
```

- **return**

The copyright information string.