

iOS SDK Programming Manual

v3.1.0

Preface

PrinterSDK is a printing SDK specifically developed for the iOS platform, aimed at meeting diverse printing needs. It supports TSPL, ZPL, CPCL, and ESC command sets, ensuring that you can easily integrate and control various printers. Whether connected via Bluetooth or Wi-Fi, PrinterSDK provides stable and efficient connectivity to meet printing requirements in different scenarios. With PrinterSDK, developers can easily implement complex printing functionalities, thereby enhancing work efficiency and user experience.

Starting from version v3.0.0, we have adopted Apple's officially recommended DocC documentation generation tool, compiling the documentation into the doccarchive format. This format is used to store and organize all related resources of the documentation, including Markdown files, images, sample code, and other documentation components. Its main advantages are:

1. Source-based generation: Ensures the accuracy and timeliness of the documentation; as the code updates, the documentation will also be updated automatically.
2. Interactive documentation experience: Provides full-text search, navigation jump, and other features to enhance functional relevance.
3. Conforms to Apple's developer reading style: Optimizes the reading experience, making it easier for developers to quickly obtain the required information.

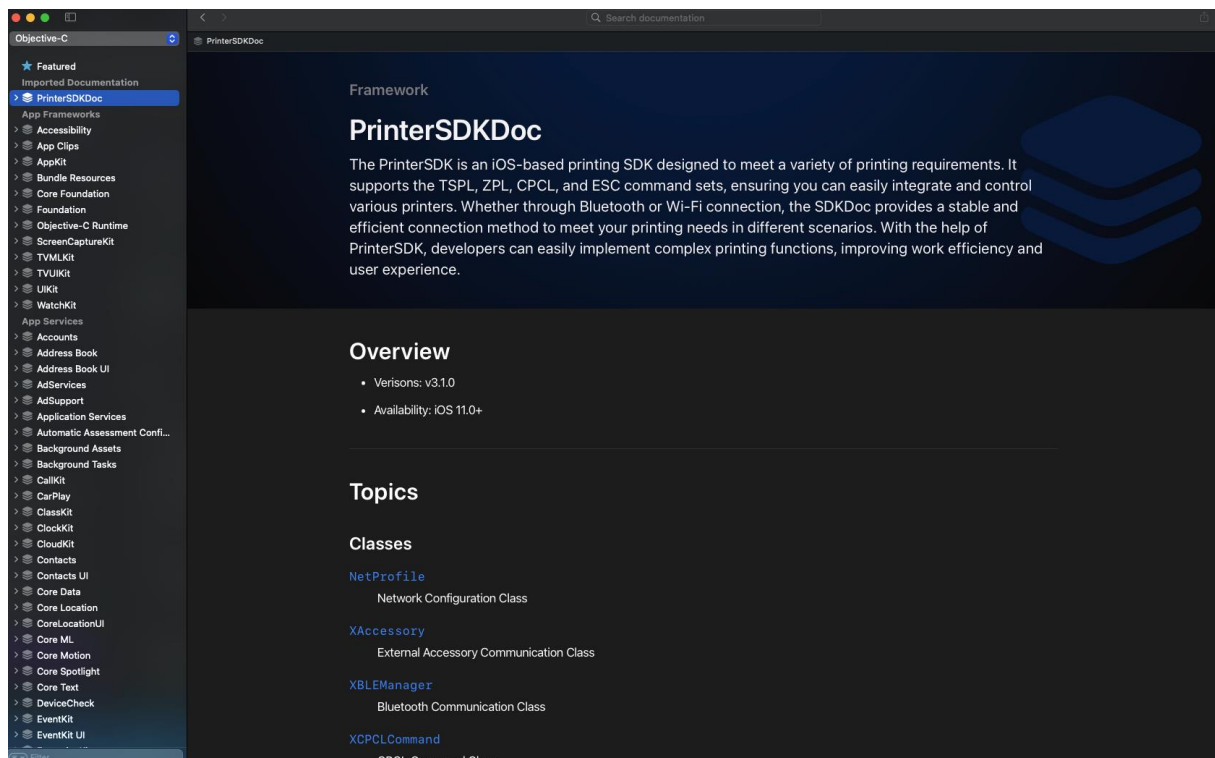
Usage

Before use, it is assumed that developers have installed Xcode version 13.0 or above.

Developers will receive the following two doccarchive format documentation files:

- PrinterSDKDoc_en.doccarchive
- PrinterSDKDoc_cn.doccarchive

Developers can simply click the file to open the documentation in Xcode, with the following experience:



Basic Introduction to PrinterSDK Interface Functions

Class Name	Description
NetProfile	Network configuration class responsible for managing and configuring network connection parameters, including Wi-Fi settings and network status monitoring.
XAccessory	External accessory communication class used for data transmission and command control for MFi certified accessories.
XBLEManager	Bluetooth communication class specifically handling the connection, data transmission, and status management of BLE devices.
XCPCLCommand	CPCL command class that encapsulates CPCL-related commands and operations.
XPOSCommand	ESC command class responsible for constructing and sending ESC commands, suitable for receipt printers.
XTSPCLCommand	TSPL command class that handles TSPL commands, suitable for label printers.
XWIFIManager	Network communication class managing Wi-Fi connections, network status, and data transmission, ensuring stable connectivity between the printer and the network.

XZPLCommand	ZPL command class that encapsulates ZPL commands, suitable for controlling and printing tasks on ZPL-supporting printers.
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For detailed interface functionalities, please refer to [PrinterSDKDoc_cn.doccarchive](#) or [PrinterSDKDoc_en.doccarchive](#).

Online Documentation Reference (can be opened in a computer/mobile device browser):

Chinese Documentation: <https://galaxycal.github.io/printersdk-cn/documentation/printersdkdoc/>

English Documentation: <https://galaxycal.github.io/printersdk-en/documentation/printersdkdoc/>