



App SDK Instruction

App Development > SDK Development

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1 App SDK

1.1 Overview

The Tuya App SDK mainly provides encapsulation of some functions to facilitate developers to access Tuya products more quickly. Developers can quickly realize the development of App functions based on the App SDK, and realize the distribution, control, OTA, timed tasks, smart scene and other operations of intelligent devices.

The SDK mainly includes:

- Home SDK
 - > Realize the distribution, control, OTA, timed tasks, smart scene and other operations of intelligent devices.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_home_ios_sdk_doc/en/) [Android](https://tuyainc.github.io/tuyasmart_home_android_sdk_doc/en/)
```

- IPC SDK
 - > Tuya IPC SDK provides the interface package for the communication with camera hardware and Tuya Cloud to accelerate the application development process.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_home_ios_sdk_doc/en/resource/Camera.html) [Android](https://tuyainc.github.io/tuyasmart_home_android_sdk_doc/en/resource/ipc/)
```

- Smart Lock SDK
 - > Tuya Smart Lock SDK provides function packaging with smart door lock devices to speed up and simplify the development process of door lock application functions.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_home_ios_sdk_doc/en/resource/Lock.html) [Android](https://tuyainc.github.io/tuyasmart_home_android_sdk_doc/en/resource/Lock.html#)
```

- Sweep SDK

> Tuya Smart Sweeper SDK is based on the Tuya Smart Home SDK, which expands the interface package for accessing the related functions of the sweeper device to speed up the development process.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_home_ios_sdk_doc/en/resource/Sweeper.html#Sweeper-sdk) [Android](https://tuyainc.github.io/tuyasmart_home_android_sdk_doc/en/resource/sweeper/Overview.html)
```

2 Biz Bundle

2.1 Overview

Biz Bundle refers to a type of SDK-based functional development-free page, which can achieve complete functions through simple calls.

The Biz Bundle mainly includes:

- Device Control Biz Bundle

> It provides the interface package for loading and controlling the device control panel to speed up the application development process.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_bizbundle_ios_doc/en/pages/panel/) [Android](https://tuyainc.github.io/tuyasmart_bizbundle_android_doc/en/pages/panel/panel_device.html)
```

- IPC Biz Bundle

> IPC biz Bundle is a series of panel SDK related to camera functions developed based on IPC SDK.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_bizbundle_ios_doc/en/pages/ipc_panel/) [Android](https://tuyainc.github.io/tuyasmart_bizbundle_android_doc/en/pages/ipc/camera_panel.html)
```

- Mall Biz Bundle

> H5 Mall Biz Bundle provides an container that hosts the “App Mall”, so that your app has powerful mall capabilities and allows mobile traffic to be realized through the mall.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_bizbundle_ios_doc/en/pages/mall/) [Android](https://tuyainc.github.io/tuyasmart_bizbundle_android_doc/en/pages/mall/)
```

- Network Configuration Biz Bundle

> The business functions cover all the Wi-Fi devices, ZigBee devices, Bluetooth devices, QR code scanning devices (such as GPRS & NB-IOT devices) and other types of devices currently equipped with TuyaSmart APP.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_bizbundle_ios_doc/en/pages/activator/) [Android](https://tuyainc.github.io/tuyasmart_bizbundle_android_doc/en/pages/activator/activator_device.html)
```

- FAQ Biz Bundle

> The FAQ BizBundle provides an iOS container that hosts “questions and feedback”, and provides a troubleshooting and feedback channel for your app.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_bizbundle_ios_doc/en/pages/faq/) [Android](https://tuyainc.github.io/tuyasmart_bizbundle_android_doc/en/pages/faq/faq.html)
```

- Message Center Biz Bundle

> The message center bizBundle provides the business logic of the message center of Tuya APP. The business functions mainly cover the push historical records of various types of messages, mainly including three categories of alarms, homes, and notifications. The alarms include device alarms, scene automation and other execution records. The setting page of the message center can enable or disable various types of message push. For alarm messages, it can support adding no-disturb periods to the device.

```
1 > Document Links [iOS](https://tuyainc.github.io/tuyasmart_bizbundle_ios_doc/en/pages/message/) [Android](https://tuyainc.github.io/tuyasmart_bizbundle_android_doc/en/pages/message/messagecenter.html)
```

3 Architecture:

The IPC SDK, smart door lock SDK and sweeper SDK belong to the vertical category of SDK, which rely on the Home SDK. They mainly encapsulate the unique functions of the vertical category to facilitate the rapid development of the functions of the vertical category products.

The architecture design is as follows:

