FAW HS7

IVI System Design

PLC-API User Guide

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**Version History**

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# 概述

本文档主要描述PLC-API。PLC主要负责应用程序的生命周期，所有应用程序必须使用此接口。

推荐UI（Kanzi）程序使用此API。

# 相关文件

头文件：/usr/include/appSDK/AppPLC.h

库文件：/usr/lib/libappSDK.so

# 接口说明

## POPUP-API使用约束

约束条件：

* 系统中AppManager进程正常运行；
* 此应用程序通过AppManager启动；
* 使用POPUP-API前需要首先初始化AppSDK；

## POPUP初始化接口

|  |  |  |
| --- | --- | --- |
| *declare* | Void psInitPopup(void) | |
| *description* | 初始化 | |
| *parameter* | type void | null |
| *return* | null | |

使用POPUP的APP必须先调用此函数进行初始化

## 创建POPUP ID接口

POPUP ID是每次创建一个新POPUP时随机生成的一个值

|  |  |  |
| --- | --- | --- |
| *declare* | PopupID psRequestPopup(PopupInfo pi) | |
| *description* | 创建POPUP ID | |
| *parameter* | type void | PopupInfo 创建POPUP时所需的数据 |
| *return* | PopupID的值 | |

typedef struct \_PopupInfo

{

    PopupType Pt;

    std::string Value;

    int Prior = 0;

    uint32\_t ScreenIndex;

} PopupInfo;

其中，PopupType为POPUP类型，Value为向POPUP APP传递的参数。

## 注册POPUP回调

注册此函数可以收到POPUP APP发送的消息。

|  |  |  |
| --- | --- | --- |
| *declare* | void psRegisterClickEvent(PopupID id, PopupCallbackFun pcf); | |
| *description* | 注册POPUP回调 | |
| *parameter* | type PopupID | PopupID的值 |
| *parameter* | PopupCallbackFun | typedef void (\*PopupCallbackFun)(PopupID id, uint32\_t reason); |
| *return* | null | |

## 注册POPUP EX回调

注册此函数可以收到POPUP APP发送的消息。

|  |  |  |
| --- | --- | --- |
| *declare* | void psRegisterClickEvent(PopupID id, PopupCallbackFunEx pcf); | |
| *description* | 注册POPUP EX回调 | |
| *parameter* | type PopupID | PopupID的值 |
| *parameter* | PopupCallbackFun | typedef void (\*PopupCallbackFunEx)(PopupID id, uint32\_t reason,const std::string& message); |
| *return* | null | |

## 显示POPUP

|  |  |  |
| --- | --- | --- |
| *declare* | void psShowPopup(PopupID id); | |
| *description* | 显示对应ID的POPUP | |
| *parameter* | PopupID | typedef void (\*PowerStateChangeExNotifyCB)(ama\_PowerState\_e, unsigned int); |
| *return* | Null | |

## 关闭POPUP

|  |  |  |
| --- | --- | --- |
| *declare* | void psClosePopup(PopupID id); | |
| *description* | 注册一个监听电源状态变化消息的函数 | |
| *parameter* | changeOfPowerStateCB f | typedef void (\*changeOfPowerStateCB)(ama\_changeOfPowerSta\_e, unsigned int); |
| *return* | Null | |

# Refrences