# ZywlSDK 开发指南

## 工程配置

- 在 Background Modes 选项内勾选 Uses Bluetooth LE accessories
- 在 info.plist 添加 Privacy Bluetooth Always Usage Description 字段

## Demo 的一些默认设置

- 默认开启自动重连,可自行修改。开启/关闭自动重连不影响当前连接状态
- 点击右上角→:未连接过设备或解绑设备是扫描,有成功连接过则是命令测试
- 未开启重连,有成功连接过设备,可不用扫描直连设备

## 1. 外设状态及相关方法

1.1 初始化

需要在使用前初始化,建议放在 didFinishLaunchingWithOptions 内

\_ = ZywlCommandModule.shareInstance

## 1.2 扫描

扫描设备。duration 扫描时间,指定之间之后自动调用停止扫描也可以在此之前手动调用停止。每扫描到一个设备都会有回调,scanModel 扫描到的设备;modelArray 所有扫描到的设备,包括系统蓝牙已连接的设备

scan Device (duration: TimeInterval, scan Model: @escaping ((ZywlScan Model) -> (Void)), model Array: @escaping (([ZywlScan Model]) -> (Void)))

1.3 停止扫描

stopScan()

#### 1.4 连接设备

手动初始化 scanModel 做重连操作时,需要先连接过设备且重连标识有值,然后赋值 String (uuidString) 或 CBPeripheral 即可连接。未连接过设备直接手动创建无法连接

直接连接耳机的设备用耳机连接方法,通过充电仓转发命令的用充电仓方法 耳机设备连接方法

connectHeadphoneDevice(peripheral:Any,connectState:@escaping((Bool)->()))

仓设备连接方法

connectChargingBoxDevice(peripheral:Any,connectState:@escaping((Bool)->()))

设备连接成功会记录最后一次的 uuidString 作为重连的 uuidString。不开启重连可以用此方法获取 uuidString,不扫描直接连接设备。此属性作为重连标识,有值才可以重连

getHeadphoneReconnectIdentifier() -> String getChargingBoxReconnectIdentifier() -> String

1.5 断开连接/解绑设备

调用此方法之后会断开连接且把重连标识置空

disconnectHeadphone(complete:(()->Void)? = nil)
disconnectChargingBox(complete:(()->Void)? = nil)

1.6 设置是否重连

已连接之后再开启会在下次启动的时候自动重连;已连接之后再关闭在此次之后都不会重连。设置此开关不影响当前设备的连接状态,当前设备是否连接也不影响设置此开关

setIsNeedReconnect(state:Bool)

1.7 设备连接成功回调

true 是充电仓,false 是耳机

reconnectDevice(complete:@escaping((Bool)->()))

1.8 蓝牙开关状态

蓝牙开关属性

blePowerState:CBCentralManagerState = .unknown

开关变化之后回调方法

bluetoothPowerStateChange(state:@escaping((CBCentralManagerState)->()))

#### 1.9 设备连接状态

状态变化之后回调方法

peripheralStateChange(state:@escaping((Bool,CBPeripheralState)->()))

异常 error

enum ZywlError: Int

case none成功case disconnected断开连接case invalidCharacteristic无效特征值case notSupport不支持此功能case invalidLength无效长度case noResponse无响应

case noMoreData没有更多数据case fail未知失败

## 2. 数据交互

#### 2.1 设备功能列表项

chargingBoxFunctionListModel:ZycxFunctionListModel?

headphones Function List Model : Zycx Headphone Function List Model? = nil

SDK 正常情况下连接成功获取到功能列表之后才会回调连接成功, 在连接成功之后无法获取到功能列表的情况下 30s 也会回调连接成功,此类情况下功能列表属性为空

## class ZycxFunctionListModel:NSObject

functionList\_messagePush = false 消息推送 functionList\_language = false 语言设置 functionList\_alarm = false 闹钟 functionList\_sedentary = false 久坐 functionList\_vibrationRemind = false 震动 functionList\_doNotDisturb = false 勿扰 functionList\_lostRemind = false 防丢 functionList\_weather = false 天气  $functionList_lightControl = false$ 背光控制 functionList\_addressBook = false 通讯录 functionList\_onlineDial = false 在线表盘 functionList\_customDial = false 自定义表盘 functionList\_localDial = false 本地表盘

functionList\_physiologicalCycle = false 生理周期 functionList drinkWater = false 喝水提醒 functionList\_photoControl = false 拍照控制 functionList\_musicControl = false 音乐控制 functionList\_findDevice = false 寻找设备 functionList\_powerOff = false 关机 functionList\_restart = false 重启 functionList\_resetFactory = false 恢复出厂 functionList\_handUpPhone = false 挂断电话 functionList\_answerPhone = false 接听电话 functionList\_timeFormat = false 时间制式 functionList\_screenType = false 屏幕款式 functionList\_classicBluetooth = false 经典蓝牙

functionList\_sos = false

SOS 紧急联系人
functionList\_localPlay = false

本地播放

functionList\_editBleName = false

改蓝牙名
functionList\_forwardingOfHeadphoneData = false

耳机转发

## class ZycxFunctionModel\_messagePush:NSObject

isSupportCall = false 来电 isSupportSMS = false 短信

isSupportInstagram = false isSupportWechat = false isSupportQQ = false isSupportLine = false

isSupportLinkedIn = false isSupportWhatsApp = false

isSupportTwitter = false

isSupportFacebook = false isSupportMessenger = false isSupportSkype = false

isSupportSnapchat = false isSupportAlipay = false

isSupportTaoBao = false isSupportDouYin = false

isSupportDingDing = false

isSupportJingDong = false

isSupportGmail = false isSupportViber = false

isSupportYouTube = false

isSupportKakaoTalk = false

Χ

isSupportTelegram = false isSupportHangouts = false isSupportVkontakte = false isSupportFlickr = false isSupportTumblr = false isSupportPinterest = false isSupportTruecaller = false isSupportPaytm = false isSupportZalo = false

isSupportMicrosoftTeams = false

#### class ZycxFunctionModel\_language:NSObject

isSupportEnglish = false 英文 isSupportSimplifiedChinese = false 简体中文 isSupportJapan = false 日语 isSupportKorean = false 韩语 isSupportGerman = false 德语 isSupportFrench = false 法语 isSupportSpanish = false 西班牙语 isSupportArabic = false 阿拉伯语 isSupportRussian = false 俄语 isSupportTraditionalChinese = false 繁体中文 isSupportItalian = false 意大利语 isSupportPortuguese = false 葡萄牙语 isSupportUkrainian = false 乌克兰语 isSupportHindi = false 印度语 isSupportPolish = false 波兰语 isSupportGreek = false 希腊语 isSupportVietnamese = false 越南语 isSupportIndonesian = false 印尼语 isSupportThai = false 泰语 isSupportDutch = false 荷兰语 isSupportTurkish = false 土耳其 isSupportRomanian = false 罗马尼亚 isSupportDanish = false 丹麦语 isSupportSwedish = false 瑞典语 isSupportCzech = false 捷克语 isSupportBengali = false 孟加拉语 isSupportPersian = false 波斯语 isSupportHebrew = false 希伯来语 isSupportMalay = false 马来语 isSupportSlovak = false 斯洛伐克语

isSupportSlovenian = false 斯洛文尼亚语

科萨语

isSupportXhosa = false

匈牙利语
立陶宛语
乌尔都语
保加利亚语
克罗地亚语
拉脱维亚语
爱沙尼亚语
高棉语

class ZycxFunctionModel\_lightControl:NSObject

screenLevelCount = 0支持的亮度等级screenTimeLong\_max = 0亮屏时长最大值screenTimeLong\_min = 0亮屏时长最小值screenTimeLong\_interval = 1亮屏时长间隔

class ZycxFunctionModel\_alarm:NSObject

maxAlarmCount = 0 最多支持多少个闹钟 isSupportEdit = false 是否支持增删

 ${\it class\ ZycxFunction} Model\_addressBook: NSObject$ 

maxContactCount = 0 支持的最大联系人数量

 ${\it class\ ZycxFunction} Model\_custom Dial: NSObject$ 

isSupportColorSetup = false 自定义表盘颜色设置, 0: 不支持, 1: 支

持

dialSize = ZycxDialFrameSizeModel() 表盘尺寸

supportPositionTypeArray:[Int] = .init() 支持的位置信息; 0-8 分别为左上、左中、

左下、右上、右中、右下、上、中、下

offsetY = 0 页部偏移量

isShowTimePosition = true是否支持时间位置显示isShowTimeUp = true是否支持时间上方isShowTimeDown = true是否支持时间下方

class ZycxDialFrameSizeModel:NSObject

class ZycxFunctionModel\_localDial:NSObject

maxDialCount = 0 最大支持个数

 ${\it class\ ZycxFunction} Model\_screen Type: NSObject$ 

#### class ZycxFunctionModel\_localPlay:NSObject

isSupportMp3 = false isSupportWav = false

#### 耳机功能列表

## class ZycxHeadphoneFunctionListModel:NSObject

functionList\_photoControl = false 拍照控制 functionList\_musicControl = false 音乐控制 functionList\_findDevice = false 查找设备 functionList\_powerOff = false 关机控制 functionList\_restart = false 重启控制 functionList\_resetFactory = false 恢复出厂控制 functionList\_handUpPhone = false 挂断电话 functionList\_answerPhone = false 接听电话 functionList\_eqMode = false eq 模式 functionList\_customEq = false 自定义 eq functionList\_ambientSoundEffect = false 环境音设置 functionList\_spaceSoundEffect = false 空间音效设置 functionList\_inEarPerception = false 入耳感知播放 functionList\_extremeSpeedMode = false 极速模式 functionList\_windNoiseResistantMode = false 抗风噪模式 functionList bassToneEnhancement = false 低音增强 functionList\_lowFrequencyEnhancement = false 低频增强 functionList\_coupletPattern = false 对联模式 functionList\_desktopMode = false 桌面模式 functionList\_shakeSong = false 摇一摇切歌 functionList\_deviceType = false 设备类型 functionList\_customButton = false 自定义按键 functionList\_customButtonType = false 自定义按键类型 functionList\_soundEffectMode = false 音效模式 functionList\_patternMode = false 信号模式

class ZycxHeadphoneFunctionModel\_eqMode:NSObject

functionList\_resetDefaultCustomButton = false

isSupportDefault = false 0 默认 isSupportHeavyBass = false 1 重低音 isSupportCinema = false 2 影院音效 isSupportDJ = false 3 DJ isSupportPopularity = false 4 流行 5 爵士 isSupportJazz = false isSupportClassical = false 6 古典 isSupportRockRoll = false 7 摇滚 8 原声 isSupportOriginal = false isSupportNostalgia = false 9 怀旧

恢复默认自定义按键

isSupportBeats = false	10 律动
isSupportDanceMusic = false	11 舞曲
isSupportElectrons = false	12 电子
isSupportLiyin = false	13 丽音
isSupportPureHumanVoice = false	14 纯净人声
isSupportCustomization = false	15 自定义

#### class ZycxHeadphoneFunctionModel\_customButton:NSObject

isSupportNoFunction = false 无功能 isSupportPlayPause = false 播放/暂停 isSupportLastSong = false 上一曲 isSupportNextSong = false 下一曲 isSupportVolumeAdd = false 音量加 isSupportVolumeReduction = false 音量减 isSupportCallAnswering = false 来电接听 isSupportCallRejection = false 来电拒绝 isSupportHangUp = false 挂断电话 isSupportEnvironmentSoundSwitch = false 环境音切换 isSupportVoiceAssistant = false 唤醒语音助手 isSupportCallBack = false 回拨电话 isSupportEqSwitch = false eq 切换 isSupportGameModeSwitch = false 游戏模式切换

#### class ZycxHeadphoneFunctionModel\_customButtonType:NSObject

isSupportSingleClick = false 单机 isSupportDoubleClick = false 双击 isSupportThreeClick = false 三击 isSupportLongPress = true 长按 isSupportFourClick = true 四击 isSupportFiveClick = true 五击 isSupportSevenClick = true 七击 isSupportTenClick = true 十击

## class ZycxHeadphoneFunctionModel\_ambientSoundEffect:NSObject

## class ZycxHeadphoneFunctionModel\_spaceSoundEffect:NSObject

isSupportMusic = false 音乐 isSupportCinema = false 影院 isSupportGame = false 游戏 isSupportClose = true 美闭

#### class ZycxHeadphoneFunctionModel\_soundEffectMode:NSObject

isSupportSound = false 音响模式 isSupportPrivacy = false 私密模式 isSupportSpaceBass = false 空间低音

## class ZycxHeadphoneFunctionModel\_patternMode:NSObject

isSupportCompatible = false 兼容 isSupportThroughWall = false 穿墙 isSupportOverspeed = false 超速

## class ZycxHeadphoneFunctionModel\_customEqModel:NSObject

scopeCount = 6 增益范围

accuracyCount = 0 分辨率(调节精度) 0 代表 0 100 代表 10

frequencyArray:[Int] = .init() 调节频段 HZ

getZycxFunctionList(\_ success:@escaping((ZycxFunctionListModel?,ZywlError)->Void))

#### 2.2 设备信息查询

## class ZycxDeviceInfomationModel:NSObject

name = "" 蓝牙名 firmwareVersion = "" 固件版本 imageVersion = "" 图库版本 fontVersion = "" 字体版本 productId = "" 产品 id projectId = "" 项目id mac = "" mac 地址 serialNumber = "" 序列号 hardwareVersion = "" 硬件版本

dialSize = ZycxDialFrameSizeModel()

 $getZycxDeviceInfomation (\_success:@escaping ((\_model:ZycxDeviceInfomationModel?,\_error:ZywlError)->Void))$ 

## 2.3 获取设备参数

listArray 传空默认获取所有数据,单个数据 id 为: 0 时区 1 时间 2 时间制式 3 温度单位 4 屏幕亮度等级 5 亮屏时长 6 本地表盘序号 7 语言序号 8 消息提醒 9 闹钟 10 自定义表盘 11 天气数据 12SOS 紧急联系人 13 常用联系人 14UUID 15 震动 16 久坐 17 喝水 18 勿扰 19 防丢 20 生理周期 21 蓝牙名。部分功能无回复,如通讯录。不支持的功能无回复

## class ZycxDeviceParametersModel:NSObject

 timezone = 0
 时区东区 1-12 ,西区 13-24

 timeString = ""
 时间 "yyyy-MM-dd HH:mm:ss"

 timeFormat\_is12 = false
 时间制式, 0: 24 小时制, 1: 12 小时制

 weatherUnit\_isH = false
 天气单位 0x00: 摄氏度 0x01: 华氏度

```
screenLightLevel = 0
                                             屏幕亮度, 范围: 0~100%
screenLightTimeLong = 1
                                             亮屏时间, 范围: 1~60 秒
localDialIndex = 0
                                             当前本地表盘序号,范围: 0~255
languageIndex = 0
                                             当前语言,详见"语言类型列表说明"
messagePushModel:ZycxDeviceParametersModel_messagePush?
alarmListModel:[ZycxDeviceParametersModel_alarm] = []
customDialModel:ZycxDeviceParametersModel_customDial?
weatherModel:ZycxDeviceParametersModel_weatherListModel?
sosContactModel:ZycxDeviceParametersModel_contactPerson?
addressBookContactListModel: [ZycxDeviceParametersModel\_contactPerson] = []
uuidString = ""
vibration = false
                                             震动, 0-关闭 1-开启
sedentaryModel:ZycxDeviceParametersModel_sedentaryModel?
drinkWaterModel:ZycxDeviceParametersModel_drinkWaterModel?
disturbModel:ZycxDeviceParametersModel_disturbModel?
lostRemind = false
physiologicalModel:ZycxDeviceParametersModel_physiologicalModel?
bleName = ""
```

## class ZycxDeviceParametersModel\_messagePush:NSObject

isOpenCall = false

isOpenSMS = false

isOpenInstagram = false

isOpenWechat = false

isOpenQQ = false

isOpenLine = false

isOpenLinkedIn = false

isOpenWhatsApp = false

isOpenTwitter = false

isOpenFacebook = false

isOpenMessenger = false

isOpenSkype = false

isOpenSnapchat = false

isOpenAlipay = false

isOpenTaoBao = false

isOpenDouYin = false

isOpenDingDing = false

isOpenJingDong = false

isOpenGmail = false

isOpenViber = false

isOpenYouTube = false

isOpenKakaoTalk = false

isOpenTelegram = false

isOpenHangouts = false

isOpenVkontakte = false isOpenFlickr = false isOpenTumblr = false isOpenPinterest = false isOpenTruecaller = false isOpenPaytm = false

isOpenMicrosoftTeams = false

isOpenZalo = false

class ZycxDeviceParametersModel\_alarm:NSObject

isValid:Bool = true 默认有效

alarmIndex:Int = -1 闹钟序号,设置单个需要传序号,设置所

有不需要

alarmHour:Int = -1 alarmMinute = -1

alarmType:ZycxAlarmType = .single

alarmRepeatArray:Array<Int> 下标 0-6 代表周日到周六

 $ZycxDeviceParametersModel\_customDial:NSObject$ 

colorHex:String = "0xFFFFFF" 16 进制颜色值默认白色

color:UIColor = .white

positionType:ZycxPositionType = .leftTop 时间位置 timeUpType:ZycxPositionShowType = .close 时间上方类型 timeDownType:ZycxPositionShowType = .close 时间下方类型

 $class\ ZycxDeviceParametersModel\_weatherListModel: NSObject$ 

timeString = "" //时间 "yyyy-MM-dd HH:mm:ss" weatherArray:[ZycxDeviceParametersModel\_weather] = .init()

 $class\ ZycxDeviceParameters Model\_weather: NSObject$ 

dayCount:Int = 0 天序号, 支持 7 天

type:ZycxWeatherType = ZycxWeatherType.sunny 0 阴 1 雾 2 晴 3 多云 4 雪 5 雨

temp:Int = 0 当前温度 airQuality:Int = 0 空气质量 minTemp:Int = 0 最低温度 maxTemp:Int = 0 最高温度

 $class\ ZycxDeviceParametersModel\_contactPerson:NSObject$ 

name = "" 姓名长度<=64 超出部分会被截掉

phoneNumber = "" 号码长度<=32 超出部分会被截掉

class ZycxDeviceParametersModel\_timeModel:NSObject

startHour:Int = 0

```
startMinute:Int = 0
endHour:Int = 0
endMinute:Int = 0
```

## class ZycxDeviceParametersModel\_sedentaryModel:NSObject

isOpen:Bool = false 开关 timeLong:Int = 0 时长

timeArray:[ZycxDeviceParametersModel\_timeModel] = [] 部分设备最多支持 2 组, 默认给 1 组即可

## $class\ Zycx Device Parameters Model\_drink Water Model: NSObject$

remindInterval:Int = 0 提醒间隔

 $timeModel: ZycxDeviceParametersModel\_timeModel = .init()$ 

## $class\ ZycxDeviceParametersModel\_disturbModel:NSObject$

isOpen:Bool = false

 $timeModel: ZycxDeviceParametersModel\_timeModel = .init()$ 

## $class\ ZycxDeviceParametersModel\_physiologicalModel: NSObject$

cycleCount:Int = 0 周期天数 menstrualCount:Int = 0 经期天数

year:Int = 0 month:Int = 0 day:Int = 0

advanceDay:Int = 0 提前几天提醒

remindHour:Int = 0 提醒时 remindMinute:Int = 0 提醒分

getZycxDeviceParameters(listArray:[Int]? = nil , success:@escaping((\_ model:ZycxDeviceParametersModel?,\_ error:ZywlError)->Void))

#### 2.4 所有参数设置

setZycxDeviceParameters (model: ZycxDeviceParameters Model)

#### 2.5 获取时区

getZycxTimezone(\_ success:@escaping((\_ timezone:Int,\_ error:ZywlError)->Void))

## 2.6 设置时区

setZycxTimezone(timezone:Int,\_ success:@escaping((\_ error:ZywlError)->Void))

### 2.7 获取时间

getZycxTime(\_ success:@escaping((\_ timeString:String,\_ error:ZywlError)->Void))

#### 2.8 设置时间

setZycxTime(timeString:String? = nil,\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.9 获取时间制

getZycxTimeformat(\_ success:@escaping((\_ timeformat:Bool,\_ error:ZywlError)->Void))

#### 2.10 设置时间制

setZycxTimeFormat(is12:Bool,\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.11 获取温度单位

getZycxWeatherUnit(\_ success:@escaping((\_ weatherUnit:Bool,\_ error:ZywlError)->Void))

## 2.12 设置温度单位

setZycxWeatherUnit(isH:Bool,\_ success:@escaping((\_ error:ZywlError)->Void))

#### 2.13 获取屏幕亮度

getZycxScreenLightLevel(\_ success:@escaping((\_ level:Int,\_ error:ZywlError)->Void))

#### 2.14 设置屏幕亮度

setZycxScreenLightLevel(level:Int,\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.15 获取亮屏时间

getZycxScreenLightTimeLong(\_ success:@escaping((\_ timelong:Int,\_ error:ZywIError)->Void))

## 2.16 设置亮屏时间

setZycxScreenLightTimeLong(timeLong:Int,\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.17 获取本地表盘序号

getZycxDialIndex(\_ success:@escaping((\_ index:Int,\_ error:ZywIError)->Void))

## 2.18 设置本地表盘序号

 $setZycxDialIndex(index:Int,\_success:@escaping((\_error:ZywlError)->Void))\\$ 

## 2.19 获取语言序号

getZycxLanguageIndex(\_ success:@escaping((\_ index:Int,\_ error:ZywlError)->Void))

#### 2.20 设置语言序号

 $setZycxLanguageIndex(index:Int,\_success:@escaping((\_error:ZywlError)->Void))\\$ 

## 2.21 获取消息提醒开关

getZycxMessagePush(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_messagePush?,\_ error:ZywlError)->Void))

## 2.22 设置消息提醒开关

setZycxMessagePush(model:ZycxDeviceParametersModel\_messagePush,\_ success:@escaping((\_error:ZywlError)->Void))

#### 2.23 获取闹钟

getZycxAlarmArray(\_ success:@escaping((\_ alarmArray:[ZycxDeviceParametersModel\_alarm],\_ error:ZywlError)->Void))

## 2.24 设置闹钟

setZycxAlarmArray(alarmArray:[ZycxDeviceParametersModel\_alarm],\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.25 获取自定义表盘信息

getZycxCustomDialInfomation(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_customDial?,\_ error:ZywlError)->Void))

## 2.26 设置自定义表盘信息

setZycxCustomDialInfomation(model:ZycxDeviceParametersModel\_customDial,\_success:@escaping((\_error:ZywlError)->Void))

## 2.27 获取天气信息

 $getZycxWeather(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_weatherListModel?,\_ error:ZywlError)->Void))$ 

## 2.28 设置天气信息

setZycxWeather(model:ZycxDeviceParametersModel\_weatherListModel,\_ success:@escaping((\_error:ZywlError)->Void))

## 2.29 获取 SOS 联系人

getZycxSosContact(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_contactPerson?,\_
error:ZywlError)->Void))

## 2.30 设置 SOS 联系人

 $set ZycxSosContact (model: ZycxDeviceParametersModel\_contactPerson,\_success: @escaping ((\_error: ZywlError) -> Void))$ 

### 2.31 获取通讯录

getZycxAddressContact(\_ success:@escaping((\_
model:[ZycxDeviceParametersModel\_contactPerson],\_ error:ZywlError)->Void))

## 2.32 设置通讯录

setZycxAddressContact(listModel:[ZycxDeviceParametersModel\_contactPerson],\_success:@escaping((\_error:ZywlError)->Void))

## 2.33 获取 UUID (此命令不需要操作)

getZycxDeviceUuidString(\_ success:@escaping((\_ uuidString:String,\_ error:ZywlError)->Void))

#### 2.34 设置 UUID (此命令不需要操作)

setZycxDeviceUuidString(uuid:String? = nil,\_ success:@escaping((\_ error:ZywIError)->Void))

## 2.35 获取震动

getZycxDeviceVibration(\_ success:@escaping((\_ isOpen:Bool,\_ error:ZywlError)->Void))

## 2.36 设置震动

setZycxDeviceVibration(isOpen:Bool,\_success:@escaping((\_error:ZywlError)->Void))

## 2.37 获取久坐

getZycxSedentary(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_sedentaryModel?,\_error:ZywlError)->Void))

## 2.38 设置久坐

setZycxSedentary(model:ZycxDeviceParametersModel\_sedentaryModel,\_ success:@escaping((\_error:ZywlError)->Void))

#### 2.39 获取喝水

getZycxDrinkWater(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_drinkWaterModel?,\_error:ZywlError)->Void))

### 2.40 获取勿扰

getZycxDisturb(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_disturbModel?,\_error:ZywlError)->Void))

## 2.41 设置勿扰

setZycxDisturb(model:ZycxDeviceParametersModel\_disturbModel,\_ success:@escaping((\_ error:ZywlError)->Void))

#### 2.42 获取防丢

getZycxLostRemind(\_ success:@escaping((\_ isOpen:Bool,\_ error:ZywlError)->Void))

```
2.43 设置防丢
```

setZycxLostRemind(isOpen:Bool,\_success:@escaping((\_error:ZywlError)->Void))

## 2.44 获取生理周期

getZycxPhysiologicalCycle(\_ success:@escaping((\_ model:ZycxDeviceParametersModel\_physiologicalModel?,\_ error:ZywlError)->Void))

#### 2.45 设置生理周期

setZycxPhysiologicalCycle(model:ZycxDeviceParametersModel\_physiologicalModel , \_ success:@escaping((\_ error:ZywlError)->Void))

## 2.46 获取蓝牙名 (不需要操作)

 $getZycxBleName(\_\,success:@escaping((\_\,name:String,\_\,error:ZywlError)->Void))$ 

## 2.47 设置蓝牙名

setZycxBleName(bleName:String,\_success:@escaping((\_error:ZywlError)->Void))

#### 2.48 关机

setZycxPowerOff(\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.49 重启

setZycxRestart(\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.50 恢复出厂

setZycxResetFactory(\_ success:@escaping((\_ error:ZywlError)->Void))

#### 2.51 恢复出厂并关机

setZycxResetFactoryAndPowerOff(\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.52 船运模式 (无需操作)

setZycxShipMode(\_ success:@escaping((\_ error:ZywlError)->Void))

## 2.53 马达震动

setZycxVibrationMotor(isOpen:Bool,success:@escaping((\_ error:ZywlError)->Void))

2.54 查找充电仓

setZycxFindChargingBox(isOpen:Bool,success:@escaping((\_ error:ZywlError)->Void))

2.55 清除设备 BT 配对信息

setZycxClearBtInfomation(\_ success:@escaping((\_ error:ZywlError)->Void))

2.56 仓 BT 广播使能

 $set ZycxBtRadioEnable (is Open: Bool, success: @escaping ((\_error: ZywlError) -> Void)) \\$ 

2.57 APP 绑定

setZycxBindState(isBind:Bool,success:@escaping((\_ error:ZywlError)->Void))

2.58 设备清除数据不重启

setZycxClearData(\_ success:@escaping((\_ error:ZywlError)->Void))

2.59 仓电量获取

getZycxBattery(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.60 耳机连接状态获取

getZycxHeadphoneConnectState(\_ success:@escaping((\_ value:Bool,\_ error:ZywlError)->Void))

2.61 仓盖状态获取

getZycxBoxCoverState(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.62 仓 BT 可连接状态

getZycxBoxBtConnectStatus(\_ success:@escaping((\_ value:Int,\_ error:ZywIError)->Void))

2.63 仓电量上报

reportZycxBattery(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.64 温度单位上报

reportZycxWeatherUnit(\_ success:@escaping((\_ value:Bool,\_ error:ZywlError)->Void))

2.65 屏幕亮度上报

reportZycxScreenLightLevel(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.66 亮屏时间上报

reportZycxScreenLightTimeLong(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.67 本地表盘序号上报

reportZycxLocalDialIndex(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.68 设备语言上报

reportZycxLanguageIndex(\_ success:@escaping((\_ value:Int,\_ error:ZywIError)->Void))

2.69 摇一摇切歌模式上报

reportZycxShakeSong(\_ success:@escaping((\_ value:Bool,\_ error:ZywlError)->Void))

2.70 耳机连接状态上报

reportZycxHeadphoneConnectState(\_ success:@escaping((\_ value:Bool,\_ error:ZywlError)->Void))

2.71 仓盖状态上报

reportZycxBoxCoverState(\_ success:@escaping((\_ value:Bool,\_ error:ZywlError)->Void))

2.72 拍照模式上报 (进入或退出)

reportZycxEnterOrExitCameraMode(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.73 拍照上报

reportZycxTakePhoto(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

2.74 设置音乐状态及音量

setZycxMusicState(\_ state:Int,vioceVoolume:Int)

2.75 设置进入或退出拍照

setZycxEnterOrExitCameraMode(\_ state:Int)

#### 2.76 开始升级

setOtaStartUpgrade(type:Int,localFile:Any,isContinue:Bool,progress:@escaping((Float) -> Void),success:@escaping((ZywlError) -> Void))

#### 2.77 停止升级

setStopUpgrade(success:@escaping((ZywlError) -> Void))

#### 2.78 检查升级状态

checkUpgradeState(success:@escaping(([String:Any],ZywlError) -> Void))

#### 2.79 设置自定义表盘图片

setZycxCustomDial(image:UIImage,progress:@escaping((Float) -> Void),success:@escaping((ZywlError) > Void))

## 2.80 设置本地音乐文件

setZycxLocalMusicFile(\_ fileNmae:String, localFile:Any,progress:@escaping((Float) -> Void),success:@escaping((ZywlError) -> Void))

- 3. 以下为耳机功能,直接连跟仓转发方法是一样的。仓转发需要把isForwardingData设置为true
  - 3.1 查询功能列表

getZycxHeadphoneFunctionList(isForwardingData:Bool = false, success:@escaping((ZycxHeadphoneFunctionListModel?,ZywlError)->Void))

#### 3.2 设备信息查询

getZycxHeadphoneDeviceInfomation(isForwardingData:Bool = false, success:@escaping((\_ model:ZycxHeadphoneDeviceInfomationModel?,\_ error:ZywIError)->Void))

## 3.3 查询参数设置

class ZycxHeadphoneDeviceParametersModel:NSObject

customButtonList:[ZycxHeadphoneDeviceParametersModel\_customButton] = .init() 自定义按键

eqMode = 0 eq 模式 0: 默认、1: 重低音、2: 影院音效、3: DJ、4: 流行、5: 爵士、6: 古典、7: 摇滚、8: 原声、9: 怀旧、10: 律动、11: 舞曲、12: 电子、13: 丽音、14: 纯净人声、15: 自定义

customEqModel:ZycxHeadphoneDeviceParametersModel\_customEqModel? 自定义 EQ 音效

ambientSoundEffect = 0 环境音, 0: 关闭/默认、1: 通透、2: 降噪

spaceSoundEffect = 0 空间音效, 0: 关闭/默认、1: 音乐、2: 影院、3: 游戏

inEarPerception = 0入耳感知播放, 0: 关闭/默认 1: 开 极速模式, 0: 关闭/默认、1: 开 extremeSpeedMode = 0 windNoiseResistantMode = 0 抗风噪模式, 0: 关闭/默认、1: 开 bassToneEnhancement = 0 低音增强模式, 0: 关闭/默认、1: 开 lowFrequencyEnhancement = 0 低频增强模式, 0: 关闭/默认、1: 开 对联模式, 0: 关闭/默认、1: 开 coupletPattern = 0 desktopMode = 0桌面模式, 0: 关闭/默认、1: 开 shakeSong = 0 摇一摇切歌模式 0: 关闭/默认 1: 开

voiceVolume = 0 耳机音量 0x0 到 0x16

leftBattery = 0 左耳耳机电量 rightBattery = 0 右耳耳机电量

soundEffectMode = 0音效模式, 0: 音响模式、1: 私密模式、2: 空间低音patternMode = 0信号模式, 0: 兼容模式、1: 穿墙模式、2: 超速模式

#### class ZycxHeadphoneDeviceParametersModel\_customButton:NSObject

headphoneType = 0 //0: 左耳, 1: 右耳

touchType = 0 //0 单击, 1 双击, 2 三击, 3 长按

commandType = 0 //0 无功能 1 播放/暂停 2 上一曲 3 下一曲 4 音量+5 音量-6 来电接听 7 来电拒绝 8 挂断电话 9 环境音切换 10 唤醒语音助手 11 回拨电话 12eq 切换 13 游戏模式切换 14ANC 切换

## $class\ Zycx Headphone Device Parameters Model\_custom EqModel: NSObject$

totalBuff = 0 //范围-12dB-12dB; 分辨率 0.1; 0 代表-12dB、120 代表 0dB、240 代表 12dB

eqListArray:[ZycxHeadphoneDeviceParametersModel\_customEqItem] = .init()

## $class\ Zycx Headphone Device Parameters Model\_custom EqItem: NSObject$

frequency = 0 //1 代表 1HZ

buff = 0 //范围-12dB~12dB; 分辨率 0.1; 0 代表-12dB、120 代表 0dB、240 代表

12dB

Qvalue = 10 //分辨率 0.1; 0 代表 0, 100 代表 10

type = 0 //0: 直通、1: 低架、2: 高架 3: 低通 4: 高通

getZycxHeadphoneDeviceParameters(isForwardingData:Bool = false,listArray:[Int]? = nil , success:@escaping((\_ model:ZycxHeadphoneDeviceParametersModel?,\_ error:ZywlError)->Void))

#### 3.4 耳机参数设置

setZycxHeadphoneDeviceParameters(isForwardingData:Bool = false,model:ZycxHeadphoneDeviceParametersModel)

## 3.5 获取自定义按键

getZycxHeadphoneCustomButtonList(isForwardingData:Bool = false,success:@escaping((\_ listArray:[ZycxHeadphoneDeviceParametersModel\_customButton],\_ error:ZywlError)->Void))

#### 3.6 设置自定义按键

setZycxHeadphoneCustomButtonList(isForwardingData:Bool = false,listArray:[ZycxHeadphoneDeviceParametersModel\_customButton],\_ success:@escaping((\_error:ZywlError)->Void))

#### 3.7 获取 eq 模式

getZycxHeadphoneEqMode(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

#### 3.8 设置 eq 模式

setZycxHeadphoneEqMode(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

#### 3.9 获取自定义 eq

getZycxHeadphoneCustomEq(isForwardingData:Bool = false,success:@escaping((\_ customModel:ZycxHeadphoneDeviceParametersModel\_customEqModel?,\_ error:ZywlError)->Void))

## 3.10 设置自定义 eq

setZycxHeadphoneCustomEq(isForwardingData:Bool = false,customModel:ZycxHeadphoneDeviceParametersModel\_customEqModel,success:@escaping((\_ error:ZywlError)->Void))

#### 3.11 获取环境音

getZycxHeadphoneAmbientSoundEffect(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_error:ZywlError)->Void))

#### 3.12 设置环境音

setZycxHeadphoneAmbientSoundEffect(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

## 3.13 获取空间音效

getZycxHeadphoneSpaceSoundEffect(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_error:ZywlError)->Void))

#### 3.14 设置空间音效

setZycxHeadphoneSpaceSoundEffect(isForwardingData:Bool = false,type:Int,success:@escaping((\_error:ZywlError)->Void))

#### 3.15 获取入耳感知播放

getZycxHeadphoneInEarPerception(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

## 3.16 设置人耳感知播放

 $set Zycx Headphone In Ear Perception (is Forwarding Data: Bool = false, type: Int, success: @escaping ((\_name of the property of the propert$ 

### error:ZywlError)->Void))

## 3.17 获取极速模式

getZycxHeadphoneExtremeSpeedMode(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

#### 3.18 设置极速模式

setZycxHeadphoneExtremeSpeedMode(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

#### 3.19 获取抗风噪模式

getZycxHeadphoneWindNoiseResistantMode(isForwardingData:Bool = false,success:@escaping((\_type:Int,\_error:ZywlError)->Void))

#### 3.20 设置抗风噪模式

setZycxHeadphoneWindNoiseResistantMode(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

## 3.21 获取低音增强模式

getZycxHeadphoneBassToneEnhancement(isForwardingData:Bool = false,success:@escaping((\_type:Int,\_error:ZywlError)->Void))

### 3.22 获取低频增强

getZycxHeadphoneLowFrequencyEnhancement(isForwardingData:Bool = false,success:@escaping((\_type:Int,\_error:ZywIError)->Void))

## 3.23 设置低频增强

setZycxHeadphoneLowFrequencyEnhancement(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

## 3.24 获取对联模式

getZycxHeadphoneCoupletPattern(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

#### 3.25 设置对联模式

setZycxHeadphoneCoupletPattern(isForwardingData:Bool = false,type:Int,success:@escaping((\_error:ZywlError)->Void))

#### 3.26 获取桌面模式

getZycxHeadphoneDesktopMode(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

## 3.27 设置桌面模式

 $set Zycx Headphone Desktop Mode (is Forwarding Data: Bool = false, type: Int, success: @escaping ((\_note that the properties of the prop$ 

### error:ZywlError)->Void))

### 3.28 获取摇一摇切歌模式

getZycxHeadphoneShakeSong(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

### 3.29 设置摇一摇切歌模式

setZycxHeadphoneShakeSong(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

#### 3.30 获取耳机音量

getZycxHeadphoneVoiceVolume(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

#### 3.31 设置耳机音量

setZycxHeadphoneVoiceVolume(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

### 3.32 获取耳机电量

getZycxHeadphoneBattery(isForwardingData:Bool = false,success:@escaping((\_ leftBattery:Int,\_ rightBattery:Int,\_ error:ZywlError)->Void))

### 3.33 设置耳机电量

setZycxHeadphoneBattery(isForwardingData:Bool = false,leftBattery:Int,rightBattery:Int,success:@escaping((\_ error:ZywlError)->Void))

## 3.34 获取音效模式

getZycxHeadphoneSoundEffectMode(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_ error:ZywlError)->Void))

#### 3.35 设置音效模式

setZycxHeadphoneSoundEffectMode(isForwardingData:Bool = false,type:Int,success:@escaping((\_ error:ZywlError)->Void))

#### 3.36 获取信号模式

getZycxHeadphonePatternMode(isForwardingData:Bool = false,success:@escaping((\_ type:Int,\_error:ZywlError)->Void))

#### 3.37 设置信号模式

setZycxHeadphonePatternMode(isForwardingData:Bool = false,type:Int,success:@escaping((\_error:ZywlError)->Void))

## 3.38 关机

setZycxHeadphonePowerOff(isForwardingData:Bool = false, success:@escaping((\_

## error:ZywlError)->Void))

## 3.39 重启

setZycxHeadphoneRestart(isForwardingData:Bool = false, success:@escaping((\_ error:ZywlError)->Void))

### 3.40 恢复出厂

setZycxHeadphoneResetFactory(isForwardingData:Bool = false, success:@escaping((\_ error:ZywlError)->Void))

### 3.41 恢复出厂并关机

setZycxHeadphoneResetFactoryAndPowerOff(isForwardingData:Bool = false, success:@escaping((\_ error:ZywlError)->Void))

#### 3.42 寻找耳机

setZycxHeadphoneFind(isForwardingData:Bool = false,headphoneType:Int,isStart:Int,success:@escaping((\_ error:ZywlError)->Void))

### 3.43 拍照控制

setZycxHeadphoneTakePhoto(isForwardingData:Bool = false,success:@escaping((\_ error:ZywlError)->Void))

### 3.44 自定义按键恢复默认设置

setZycxHeadphoneCustomButtonResetDefault(isForwardingData:Bool = false,success:@escaping((\_ error:ZywlError)->Void))

## 3.45 经典蓝牙连接状态查询

getZycxHeadphoneBtConncetState(isForwardingData:Bool = false, success:@escaping((\_ state:Int,\_ error:ZywlError)->Void))

## 3.46 查询 TWS 是否配对

getZycxHeadphoneTwsIsPair(isForwardingData:Bool = false, success:@escaping((\_ state:Int,\_ error:ZywlError)->Void))

#### 3.47 电量上报

reportZycxHeadphoneBattery(\_ success:@escaping((\_ leftBattery:Int,\_ rightBattery:Int,\_ error:ZywlError)->Void))

## 3.48 查找设备上报

reportZycxHeadphoneFind(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

## 3.49 环境音上报

reportZycxHeadphoneAmbientSoundEffect(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

## 3.50 空间音效上报

reportZycxHeadphoneSpaceSoundEffect(\_success:@escaping((\_value:Int,\_error:ZywlError)->Void))

## 3.51 入耳感知播放上报

reportZycxHeadphoneInEarPerception(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

## 3.52 极速模式上报

reportZycxHeadphoneExtremeSpeedMode(\_ success:@escaping((\_ value:Int,\_ error:ZywIError)->Void))

## 3.53 抗风噪上报

reportZycxHeadphoneWindNoiseResistantMode(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

#### 3.54 低音增强上报

reportZycxHeadphoneBassToneEnhancement(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

#### 3.55 低频增强上报

reportZycxHeadphoneLowFrequencyEnhancement(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

## 3.56 对量模式上报

reportZycxHeadphoneCoupletPattern(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

## 3.57 桌面模式上报

reportZycxHeadphoneDesktopMode(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

## 3.58 摇一摇切歌模式上报

 $reportZycxHeadphoneShakeSong(\_success:@escaping((\_value:Int,\_error:ZywlError)->Void))\\$ 

## 3.59 eq 模式上报

reportZycxHeadphoneEqMode(\_ success:@escaping((\_ value:Int,\_ error:ZywlError)->Void))

## 3.60 耳机音量上报

reportZycxHeadphoneVoiceVolume(_ success:@escaping((_ value:Int,_ error:ZywlError)->Void))
3.61 开始升级
setUpdateFirmware(progress:@escaping((Int)->Void),complete:@escaping((Int,ZywlError)->Void))
3.62 自定义按键上报
reportZycxHeadphoneCustomButton(_ success:@escaping((_ value:[ZycxHeadphoneDeviceParametersModel_customButton],_ error:ZywlError)->Void))
3.63 经典蓝牙连接状态上报
reportZycxHeadphoneClassicBluetoothConnect(_ success:@escaping((_ value:Int,_ error:ZywlError)->Void))
3.64 音效模式上报
reportZycxHeadphoneSoundEffectMode(_ success:@escaping((_ value:Int,_ error:ZywlError)->Void))
3.65 信号模式上报
reportZycxHeadphonePatternMode(_ success:@escaping((_ value:Int,_ error:ZywlError)->Void))
3.66
3.67
3.68