# 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

## 外设状态及相关方法

初始化

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

\_ = ZywlCommandModule.shareInstance

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

scanDevice(duration:TimeInterval,scanModel:@escaping((ZywlScanModel)->(Void)),modelArray:@escaping(([ZywlScanModel])->(Void)))

停止扫描

stopScan()

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

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)

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)

设备连接成功回调

true是充电仓，false是耳机

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

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)->()))

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

## 数据交互

设备功能列表项

chargingBoxFunctionListModel:ZycxFunctionListModel?

headphonesFunctionListModel:ZycxHeadphoneFunctionListModel? = 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\_bindClear = false 绑定清除数据

functionList\_bind = false 绑定解绑

functionList\_platformType = false 设备平台类型

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 X

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

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

isSupportXhosa = false 科萨语

isSupportSlovenian = false 斯洛文尼亚语

isSupportHungarian = false 匈牙利语

isSupportLithuanian = false 立陶宛语

isSupportUrdu = false 乌尔都语

isSupportBulgarian = false 保加利亚语

isSupportCroatian = false 克罗地亚语

isSupportLatvian = false 拉脱维亚语

isSupportEstonian = false 爱沙尼亚语

isSupportKhmer = false 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

class ZycxFunctionModel\_addressBook:NSObject

maxContactCount = 0 支持的最大联系人数量

class ZycxFunctionModel\_customDial: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 顶部偏移量

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

bigWidth:Int = 0 大图宽

bigHeight:Int = 0 大图高

smallWidth:Int = 0 预览图宽

smallHeight:Int = 0 预览图高

class ZycxFunctionModel\_localDial:NSObject

maxDialCount = 0 最大支持个数

class ZycxFunctionModel\_screenType:NSObject

supportType = 0 0:方 1:圆 2:圆角

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

functionList\_resetDefaultCustomButton = false 恢复默认自定义按键

class ZycxHeadphoneFunctionModel\_eqMode:NSObject

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

isSupportJazz = false 5 爵士

isSupportClassical = false 6 古典

isSupportRockRoll = false 7 摇滚

isSupportOriginal = false 8 原声

isSupportNostalgia = false 9 怀旧

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

isSupportAncModeSwitch = false ANC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

isSupportPassThrough = false 通透

isSupportNoiseReduction = false 降噪

isSupportClose = true 关闭

class ZycxHeadphoneFunctionModel\_spaceSoundEffect:NSObject

isSupportMusic = false 音乐

isSupportCinema = false 影院

isSupportGame = false 游戏

isSupportClose = true 关闭

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))

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))

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

isOpenZalo = false

isOpenMicrosoftTeams = 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

alarmOpen:Bool = false 闹钟开关

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 ZycxDeviceParametersModel\_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 ZycxDeviceParametersModel\_drinkWaterModel:NSObject

isOpen:Bool = false 开关

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

isOpen:Bool = false 开关

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))

所有参数设置

setZycxDeviceParameters(model:ZycxDeviceParametersModel)

获取时区

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

设置时区

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

获取时间

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

设置时间

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

获取时间制

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

设置时间制

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

获取温度单位

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

设置温度单位

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

获取屏幕亮度

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

设置屏幕亮度

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

获取亮屏时间

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

设置亮屏时间

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

获取本地表盘序号

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

设置本地表盘序号

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

获取语言序号

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

设置语言序号

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

获取消息提醒开关

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

设置消息提醒开关

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

获取闹钟

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

设置闹钟

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

获取自定义表盘信息

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

设置自定义表盘信息

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

获取天气信息

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

设置天气信息

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

获取SOS联系人

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

设置SOS联系人

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

获取通讯录

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

设置通讯录

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

获取UUID（此命令不需要操作）

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

设置UUID（此命令不需要操作）

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

获取震动

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

设置震动

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

获取久坐

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

设置久坐

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

获取喝水

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

获取勿扰

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

设置勿扰

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

获取防丢

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

设置防丢

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

获取生理周期

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

设置生理周期

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

获取蓝牙名（不需要操作）

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

设置蓝牙名

setZycxBleName(bleName:String , \_ success:@escaping((\_ error:ZywlError)->Void))

关机

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

重启

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

恢复出厂

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

恢复出厂并关机

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

船运模式（无需操作）

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

马达震动

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

查找充电仓

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

清除设备BT配对信息

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

仓BT广播使能

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

APP绑定

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

设备清除数据不重启

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

仓电量获取

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

耳机连接状态获取

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

仓盖状态获取

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

仓BT可连接状态

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

仓电量上报

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

温度单位上报

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

屏幕亮度上报

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

亮屏时间上报

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

本地表盘序号上报

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

设备语言上报

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

摇一摇切歌模式上报

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

耳机连接状态上报

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

仓盖状态上报

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

拍照模式上报（进入或退出）

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

拍照上报

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

设置音乐状态及音量

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

设置进入或退出拍照

setZycxEnterOrExitCameraMode(\_ state:Int)

开始升级

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

停止升级

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

检查升级状态

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

设置自定义表盘图片

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

设置本地音乐文件

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

## 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

查询功能列表

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

设备信息查询

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

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

extremeSpeedMode = 0 极速模式，0：关闭/默认、1：开

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

coupletPattern = 0 对联模式，0：关闭/默认、1：开

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 ZycxHeadphoneDeviceParametersModel\_customEqModel: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 ZycxHeadphoneDeviceParametersModel\_customEqItem: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))

耳机参数设置

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

获取自定义按键

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

设置自定义按键

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

获取eq模式

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

设置eq模式

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

获取自定义eq

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

设置自定义eq

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

获取环境音

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

设置环境音

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

获取空间音效

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

设置空间音效

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

获取入耳感知播放

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

设置入耳感知播放

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

获取极速模式

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

设置极速模式

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

获取抗风噪模式

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

设置抗风噪模式

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

获取低音增强模式

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

获取低频增强

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

设置低频增强

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

获取对联模式

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

设置对联模式

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

获取桌面模式

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

设置桌面模式

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

获取摇一摇切歌模式

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

设置摇一摇切歌模式

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

获取耳机音量

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

设置耳机音量

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

获取耳机电量

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

设置耳机电量

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

获取音效模式

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

设置音效模式

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

获取信号模式

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

设置信号模式

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

关机

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

重启

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

恢复出厂

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

恢复出厂并关机

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

寻找耳机

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

拍照控制

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

自定义按键恢复默认设置

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

经典蓝牙连接状态查询

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

查询TWS是否配对

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

电量上报

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

查找设备上报

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

环境音上报

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

空间音效上报

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

入耳感知播放上报

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

极速模式上报

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

抗风噪上报

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

低音增强上报

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

低频增强上报

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

对量模式上报

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

桌面模式上报

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

摇一摇切歌模式上报

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

eq模式上报

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

耳机音量上报

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

开始升级

setUpdateFirmware(progress:@escaping((Int)->Void),complete:@escaping((Int,ZywlError)->Void))

自定义按键上报

reportZycxHeadphoneCustomButton(\_ success:@escaping((\_ value:[ZycxHeadphoneDeviceParametersModel\_customButton],\_ error:ZywlError)->Void))

经典蓝牙连接状态上报

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

音效模式上报

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

信号模式上报

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