## SDK-API introduction

### SDK usage process

Get device connection status

not connected

connected not bound

Connect device

Connection failed

Connection is not bound

Pairing

Connection is bound

Connected and bound

Sync time

Other command interaction

### Access steps

Update time(2023-9-18)

EABleDeviceLanguage class, added Hindi, this change will affect the following two methods

1. language setting

setDevLanguage(@NonNull EABleDeviceLanguage deviceLanguage, GeneralCallback eaBleResponse)

1. query language

public void queryInfo(@NonNull QueryInfo queryInfo, EABleCallback eaBleCallback)

The EABleDev class adds a new function of enabling/disabling BT message reply. This change will affect the following method.

1. Set watch behavior

setDeviceOps(@NonNull EABleDev dev, GeneralCallback eaBleResponse)

QueryInf class, new bk\_mac type, this change will affect the following method

1. Query BK address

public void queryInfo(@NonNull QueryInfo queryInfo, EABleCallback eaBleCallback)

DataReportCallback .btStatus(EABleBTSwitch eaBleSwitch) method, the parameters are updated to EABleBTSwitch, and the BT open and connected status is added. This change only affects itself

BtStatusCallback .btStatus(int status), the return result changes from the original 0,1 to 0,1,2

0:BK is not opened,

1: BK is open and not connected

2: BK is open and connected

Function list query, return parameters have been added:

support\_user\_log\_bin : Whether to support firmware log reading

support\_get\_bt\_mac : Whether the firmware supports reading the Mac address of BT

This change only affects feature list queries

public void queryInfo(@NonNull QueryInfo queryInfo, EABleCallback eaBleCallback)

Update time(2023-8-28)

New watch face ID modification method: EABleManager.modifyWatchFaceId()

Update time (2023-8-4)

Added classic bluetooth control failure reasons: the device is in DND state, error number 4; low battery, error number 5; charging, error number 6;

the EABleManager.setOpsBinding method add a sleep merge duration field

Added BK control

Add user-defined quick reply

Update social app reminder type

The DataReportCallback callback adds a btStatus callback, and the watch actively reports the BK switch status through this callback

The interface socialResponse of DataReportCallback updates the returned data, adding numbers and names to the returned data

The menstrual cycle interface has added parameters, whether to display the ovulation day, see the interface setMenstrualCycle for details

Added bt\_status to the QueryWatchInfoType class to query the status of the BK switch; msgContent to query the quick reply of the watch

Added content for function query, please refer to “Description of function parameters supported by the watch” for details

Update time (2023-7-18)

New Content: New Sports Type, New Binding Timeout, New Ovulation Day Reminder, Online Watch Face Increased to 10, New Function List, New Automatic Pressure International Tim Tim Tim E, New Delete Watch Face, New Exercise Alarm Heart Rate, Add Emergency Contorys, Add Sleep score, add miles

The database has been added to save multi-sport data (selected by the user, if the user chooses to save, it will be saved, and if the user does not choose to save, it will not be saved)

Update time (2023-3-20)

New content: add some important log storage and original exercise data storage

Note: Because it is saved in a file, file permissions are required, and there is no size limit for the file. It is recommended to use it in debug mode

1. Add classpath 'com.google.protobuf:protobuf-gradle-plugin:0.8.8' to dependencies of project build.gradle
2. Add in the dependencies of the project build.gradle

implementation 'com.google.protobuf:protobuf-java:3.15.8'

implementation 'com.google.protobuf:protoc:3.15.8'

1. Add apply plugin: 'com.google.protobuf' in project buuld.gradle, put it under apply plugin: 'com.android.application'
2. Add library files

### error code

0x01: Bluetooth address does not exist

0x02: unknown error

0x03: timeout

0x04: parsing failed

0x05: Command sending failed

0x06: Bluetooth disconnected

0x07: Bluetooth off

0x08: instruction stack is full

0x09: does not support BLE bluetooth

0x0A: BLE scan with the same settings is already started by the app

0x0B: app cannot be registered

0x0C: internal error

0x0D: Insufficient battery

0x0E: Insufficient hardware resources

0x0F: application tries to scan too frequently

0x10: parameter error

0x11: OTA is executing

0x12: Reject OTA

0x13: crc check error

0x14: No Bluetooth device found

0x15: Positioning is not enabled

**Renew**

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Update: When connecting, whether to perform a one-click connection to BT by the SDK

The database has been added to save multi-sport data (selected by the user, if the user chooses to save, it will be saved, and if the user does not choose to save, it will not be saved)

1. EABleManager adds a method to handle the database

EABleManager.initDB() initializes the database ( the database must be initialized before saving multi-sport data )

(The following database operations are designed to timestamps, and the timestamps are all accurate to milliseconds)

EABleManager. saveHeartData (), whether to save the heart rate to the database

EABleManager.saveDailyData(), whether to save daily data to the database

EABleManager.saveMultiData(), whether to save multi-sport data to the database

EABleManager.saveBloodData(), whether to save blood oxygen to the database

EABleManager.saveStressData(), whether to save stress to the database

EABleManager.saveRestingHeartData(), whether to save the resting heart rate to the database

EABleManager.queryDailyData(), query all daily data saved in the database

EABleManager.queryDailyData(long idKey) query daily data by timestamp

EABleManager.queryDailyData(long startKey, Long endKey) Query daily data within a certain range through the start timestamp and end timestamp

EABleManager.queryHeartData (long idKey) query heart rate data by timestamp

EABleManager.queryHeartData (long startKey, long endKey) Query a certain range of heart rate data through the start and end timestamps

EABleManager.queryHeartData () Query all heart rate data

EABleManager.queryMultiData ( ) query all multi-sport data

EABleManager. queryMultiData (long idKey) Query multi-sport data by timestamp

EABleManager.queryMultiData (long startKey, long endKey) Query a certain range of multi-sport data through the start and end timestamps

EABleManager.querySpo2Data(long idKey) query blood oxygen data by timestamp

EABleManager.querySpo2Data(long startKey, long endKey) Query a certain range of multi-sport data through the start and end timestamps

EABleManager.querySpo2Data() queries all blood oxygen data

EABleManager.queryStressData() queries all stress data

EABleManager.queryStressData(long idKey) Query all stress data by timestamp

EABleManager.queryStressData(long startKey, long endKey) Query all stress data through start and end timestamps

EABleManager.queryRestingHeartData() queries all resting heart rate data

EABleManager.queryRestingHeartData(long idKey) query resting heart rate data by timestamp

EABleManager.queryRestingHeartData(long startKey, long endKey) Query the resting heart rate data through the start and end timestamps

EABleManager.querySleepData() queries all sleep data

EABleManager.querySleepData(long idKey) query sleep data by timestamp

EABleManager.querySleepData(long startKey, long endKey) Query a certain range of sleep data through the start and end timestamps

EABleManager. querySleepScoreData(long startKey, long endKey)

Query a certain range of sleep score data by starting and ending timestamps

EABleManager.deleteDailyData(List<Long> sportList) deletes daily data by id, if id does not exist, deletes all daily data

EABleManager.deleteHeartData(List<Long> heartList) deletes heart rate data by id, if id does not exist, deletes all heart rate data

EABleManager.deleteMultiData(List<Long> multiList) deletes multi-sports data by id, if id does not exist, deletes all multi-sports data

EABleManager.deleteSpo2Data(List<Long> spo2List) delete blood oxygen data by id, if id does not exist, delete all blood oxygen data

EABleManager.deleteStressData(List<Long> stressList) deletes stress data by id, if id does not exist, deletes all stress data

EABleManager.deleteRestingHeartData(List<Long> restingList) deletes resting heart rate data by id, if id does not exist, deletes all resting heart rate data

EABleManager.deleteSleepData(List<Long> sleepList) deletes sleep data by id, if id does not exist, deletes all sleep data

EABleManager. deleteSleepScoreData(List<Long> scoreList) deletes sleep score data by id, if id does not exist, do not delete

EABleManager.deleteAllData() clears all data

Update time (2023-3-25)

update content

The lcd\_pixel\_type parameter is added to the watch information, indicating whether the watch screen is in RGBA format

Update time (2023-3-20)

update content

Modified the problem that blood oxygen, pressure, and query result time are wrong

new content

Added the storage of important logs and original motion data, which needs to be configured when using it, as follows:

must first be initialized

LogData2File.getInstance().init(this);

Configure whether to save important logs, if not configured, the default is not saved

LogData2File.getInstance().setSaveLog(true);

Configure whether to save the original motion data, if not configured, the default is not saved

LogData2File.getInstance().setSaveOriginalData(true);

Note: Because the data is saved in the file, file write permission is required, and the file has no size limit and will continue to increase, so it is recommended to use it in debug mode

Update time (2023-3-9)

update content

The language has added Vietnamese, etc., see the class EABleDeviceLanguage. LanguageType for details

Update time (2023-2-23)

update content:

1. Removed duplicate language German
2. Added firmware switch for Do Not Disturb, see class EABleNotDisturb for details
3. The function query has added whether to support the menstrual period reminder, see the class EABleEABleFeatures for details
4. Reminder adds medication type, see class EABleMonitorReminder.EABleMonitorType for details
5. Added parameter detection status (whether you can start sports) for App sports, see class EABleStartAppSports for details
6. Active reporting increases pace and stride frequency, see class EABleReportSportData for details
7. EABleManager.setPeriodReminder to set the menstrual period on/off reminder
8. There is no time limit for app sports data reporting
9. Query update : Added the switch status query of menstrual period reminder, callback PeriodReminderCallback

Update time (2023-2-15)

update content:

1. Optimized the setting of women's menstrual period: changed the fertile period from the original 9 days to 10 days, and at the same time, the display of the fertile period changed from the previous 0th day to the 1st day
2. Modified the bug that the vibration mode cannot be modified

The above two modifications are all completed by the SDK, and the user does not need to make changes

Update time (2023-2-6)

update content:

1. Updated watch languages: added Turkish, Czech, Indonesian, Malay, German, Persian , see class: EABleDeviceLanguage.LanguageType for details
2. Update social software push information: Add DingTalk, Alipay, see class for details: EABleSocialContact.SocialContactType
3. Updated reminder settings: Added operational attributes: replace\_type to replace by type, all\_in Replace all, see class for details: EABleReminder.ReminderOps, when replacing by type , EABleReminder.e\_type needs to fill in the type
4. Combination command update: Add sleep blood oxygen monitoring switch , pressure monitoring switch , vibration mode adds no vibration , see class:EABleCombination for details
5. Message push switch update: added DingTalk, Alipay
6. Watch support function update: Added pressure detection switch, real-time data reporting switch , whether to support reminder settings to replace by type, whether to support reminders to replace all, vibration mode settings, App to start watch movement, see class: EABleEABleFeature s, supported function list
7. Add sleep blood oxygen detection open/close method EABleManager.startSleepBloodMonitor
8. Add pressure detection open/close method EABleManager.startStressMonitor
9. Add the realtime data report open/close method EABleManager.startRealTimeDataReport
10. Add vibration mode setting method EABleManager.setVibrateMode
11. Add App start watch movement method EABleManager.startAppScreenSport
12. App sports actively report data updates: increase the current total distance, the current total number of times (how many times the rope has been skipped), the current altitude, see the class: EABleReportSportData for details
13. Actively report and increase the measurement results opened by the watch, that is, the DataReportCallback callback adds the reportMonitorData interface
14. Query update: Added sleep\_blood\_monitor sleep blood oxygen switch status query, callback SleepBloodMonitorCallback

Added stress\_monitor pressure switch query, callback StressMonitorCallback

Added vibration\_mode vibration mode query, callback VibrateCallback

Update time (2022-12-29)

update content:

1. Update watch information
2. update language
3. Update information push type
4. update sedentary
5. update weather type
6. increase habit
7. add add contact
8. Add event reminder
9. Increase query current sports display data
10. Add query watch support function
11. Increase the launch of App campaigns
12. Increase App sports data and watch interaction
13. Add App to start or close heart rate, pressure, blood oxygen, breathing
14. Increase data synchronization by type
15. DataReportCallback proactively reports and adds stop searching for watches, app exercise status, real-time data, app exercise data, call answering, rejection, do not disturb status, raising hand bright screen status, etc.

### API-android

|  |  |
| --- | --- |
| method | explain |
| getDeviceConnectState () | Get Bluetooth connection status |
| checkLocationPermission | Detect location permissions |
| isBLESupported | Whether to support BLE bluetooth |
| didDiscoverPeripheral | Scan for bluetooth devices |
| connectToPeripheral | Connect a Bluetooth device |
| setUserInfo | Set user information |
| queryWatchInfo | query command |
| setTimeSync | synchronized time |
| setOpsBinding | bind device |
| setScreenBrightness | Set screen brightness |
| setBlackScreenTimeout | Set off screen time |
| setDevLanguage | language setting |
| setUnifiedUnit | set device unit |
| setDeviceOps | equipment operation |
| setDailyGoal | set daily goals |
| setAutoSleepCheck | Set up sleep monitoring |
| setHeartRateIntervalTime | Set the automatic heart rate monitoring interval time |
| setSitCheck | Set up sedentary monitoring |
| pushInfo2Watch | Push reminder information to the device |
| setWeather | set weather |
| setAncsSwitch | Turn reminders on or off |
| setReminderOrder | Add alarms and daily reminders |
| setDistanceUnit | set distance unit |
| setWeightUnit | set weight unit |
| setHeartRateLimit | Set heart rate alarm parameters |
| setCaloriesSwitch | Turn calorie detection on or off |
| setGesturesSwitch | Turn on or off Raise the hand to brighten the screen |
| requestSyncMotionData | Set device synchronization data priority |
| setCombination | Combined command settings |
| setMenuPage | Set device home page |
| setMenstrualCycle | Synchronize menstrual period data to the device |
| setWatchFace | update watch face |
| setAppPushSwitch | Turn on or off social software information prompts |
| musicQueryResponse | Music Inquiry Response |
| mobileOperationResponse | App operation response |
| motionDataResponse | Receive device motion data response |
| otaUpdate | Ota |
| stopScanPeripherals | Stop device scan |
| disconnectPeripheral | close device connection |
| setHabit | Add, modify habits |
| addBookList | Add contacts |
| addMonitorReminder | Add event reminder |
| startAppSport | Start App Movement |
| setData2Watch | Interactive App motion data |
| startOrEndCheck | start or stop detection |
| getMotionDataWithType | Synchronize motion data by data type |
| startSleepBloodMonitor | Turn on/off sleep blood oxygen detection |
| startStressMonitor | Turn pressure detection on/off |
| startRealTimeDataReport | Enable/disable App motion data reporting |
| setVibrateMode | set vibration mode |
| startAppScreenSport | Turn on/off watch movement through App |
| setPeriodReminder | Turn on/off menstrual period reminder |
| deleteCustomDial | Delete a custom watch face |
| setMotionAlarmHr | Set exercise alarm heart rate |
| setSosContact | set sos contact |
| setBTSwitch | Open or close BK |
| setMsgContent | Synchronize custom shortcut replies to the watch |
| modifyWatchFaceId | 修改表盘ID |

### listener

|  |  |
| --- | --- |
| EABleConnectListener | Device connection status |
| DataReportCallback | The device actively requests the mobile phone to operate |
| MotionDataReportCallback | Sports data callback |

### interface EABleConnectListener {

### void deviceConnected();//The device Bluetooth connection is successful

### void deviceDisconnect();//The device is disconnected and reconnected

### void deviceNotFind();//No corresponding bluetooth device found

### void unopenedBluetooth();//Bluetooth is not opened

### void connectError(int errorCode);//Bluetooth connection error, reconnect

### void unsupportedBLE();//does not support BLE bluetooth

### void notOpenLocation();//not open location

### void connectTimeOut();//connection timeout, reconnection

### }

interface DataReportCallback extends EABleCallback {

void searchPhone();//Find the phone, no need to reply

void stopSearchPhone();//Stop searching for mobile phones, no need to reply

void connectCamera();//Connecting the camera requires a reply, please check the corresponding reply in the method description

void takePhoto();//take photo, need to reply, please check the corresponding reply in the method description

void endTakePhoto();//End taking pictures, need to reply, please check the corresponding reply in the method description

void updateWeather();//Synchronize the weather, weather synchronization, please see the weather synchronization in the method description

void circadian();//Synchronize the menstrual cycle, the synchronization of the menstrual cycle, please check the corresponding method in the method description

void updateAgps();//Update AGPS, AGPS update, please check the corresponding method in the method description

void transmissionComplete();//The motion data transmission is completed, do not reply, and the data can be processed at this time

void stopSearchWatch();//stop searching for watches

void queryMusic(EABleQueryMusic eaBleQueryMusic);//query music information and need to reply, please refer to the corresponding method in the method description

void musicControl(EABleMusicControl eaBleMusicControl);//Music playback control, no need to reply

void socialResponse(EABleSocialResponse eaBleSocialResponse);//social response, temporarily useless

void mtu(EABleMtu eaBleMtu);//mtu, the size of the Bluetooth data packet, no need to reply

void appSportStatus(EABleSportStatus sportStatus);//app sports status

void timelyData(EABleTimelyData eaBleTimelyData) ;//timely data

void appSportData(EABleReportSportData eaBleReportSportData) ;//App sports data

void answerIncoming() ;//Incoming call answering

void hangUpIncoming() ;//Incoming call hangs up

void disturbStatus(EABleSwitch eaBleSwitch) ;//Do not disturb switch status

void brightScreenStatus(EABleSwitch eaBleSwitch) ;//Raise your hand to brighten the screen switch status

void reportMonitorData(EABleReportMonitorData eaBleReportMonitorData) //Measurement result reporting

void startBTConnect() // Start connecting BT

void btStatus(EABleBTSwitch eaBleSwitch) BT switch status

}

interface MotionDataReportCallback extends EABleCallback {

/\*\*

\*Daily exercise data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param sportList

\* @param mCommon Data mark

\*/

void dailyExerciseData(List<EABleDailyData> sportList, CommonFlag mCommon);

/\*\*

\* sleep data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param sleepList

\* @param mCommon Data mark

\*/

void sleepData(List<EABleSleepData> sleepList, CommonFlag mCommon);

/\*\*

\* Heart rate data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param heartList

\* @param mCommon Data mark

\*/

void heartData(List<EABleHeartData> heartList, CommonFlag mCommon);

/\*\*

\*Gps

\* @param gpsList

\* @param mCommon Data mark

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\*/

void gpsData(List<EABleGpsData> gpsList, CommonFlag mCommon);

/\*\*

\* Multi-sport data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param multiList

\* @param mCommon Data mark

\*/

void multiMotionData(List<EABleMultiData> multiList, CommonFlag mCommon);

/\*\*

\* blood oxygen data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param oxygenList

\* @param mCommon Data mark

\*/

void bloodOxygenData(List<EABleBloodOxygen> oxygenList, CommonFlag mCommon);

/\*\*

\* pressure data

\* @param pressureList

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param mCommon Data mark

\*/

void pressureData(List<EABlePressureData> pressureList, CommonFlag mCommon);

/\*\*

\* Cadence data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param stepFreqList

\* @param mCommon Data mark

\*/

void stepFrequencyData(List<EABleStepFrequencyData> stepFreqList, CommonFlag mCommon);

/\*\*

\* Pace data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param paceList

\* @param mCommon Data mark

\*/

void speedData(List<EABlePaceData> paceList, CommonFlag mCommon);

/\*\*

\* Resting heart rate data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\* @param restingList

\* @param mCommon Data mark

\*/

void restingHeartRateData(List<EABleRestingRateData> restingList, CommonFlag mCommon);

/\*\*

\*habit data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\*/

void getHabitData(List<EABleHabitRecord> habitList, CommonFlag commonFlag)

/\*\*

\*Sleep score data

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\*/

void sleepScore(List<EABleSleepScore> scoreList, CommonFlag mCommon)

/\*\*

\*Exercise heart rate

\* Need to use EABleManager.getInstance().motionDataResponse() interface to reply

Please see the demo for details

\*/

void motionHr(List<EABleMotionHr> motionHrs, CommonFlag mCommon)

}

### call back

|  |  |
| --- | --- |
| General Callback | Set general callback  void result(boolean success); success callback  void mutualFail(int errorCode); failure callback |
| Edit Attention Callback | Add, edit, delete alarm clock, daily reminder callback  v oideditResult(EABleRemindRespond eaBleRemindRespond); operation result callback  void mutualFail(int errorCode); failure callback |
| WatchInfoCallback | Query watch information callback |
| PersonInfoCallback | Query user information callback |
| Time Callback | query time callback |
| ScreenBrightnessCallback | Query screen brightness callback |
| RestScreenCallback | Query the off-screen time callback |
| BatterInfoCallback | Query battery information callback |
| Language Callback | Query Language Callbacks |
| Unit Callback | query unit callback |
| Don Disturb Callback | Query Do Not Disturb message callback |
| TimeZone Callback | temporarily useless |
| Goal Callback | Query the daily goal callback |
| SleepCheckCallback | Query automatic sleep monitoring information callback |
| HeartCheckCallback | Query heart rate automatic monitoring interval time callback |
| SedentaryCheckCallback | Query sedentary monitoring information callback |
| Weather Callback | Query weather callback |
| Remind Callback | Query call, SMS, email and other prompt status callback |
| Attention Callback | Query alarm clock, daily reminder callback |
| DistanceUnit Callback | Query distance unit callback |
| WeightUnit Callback | Query weight unit callback |
| HeartLimitCallback | Query heart rate alarm information callback |
| CalorieSwitchCallback | Query calorie detection status callback |
| RaiseHandBrightScreenCallback | Query the status callback of raising the hand to turn on the screen |
| Combination Callback | Query combined command status callback |
| MenuCallback | Query device display home page callback |
| Period Callback | Query menstrual period information callback |
| WatchFaceCallback | Query dial ID callback |
| InfoPushCallback | Query social software reminder status callback |
| DataResponseCallback\_ \_ | App reply command interaction callback |
| MotionDataResponseCallback\_ \_ | Multi-sport reply callback |
| O ta Callback | Ota callback |
| HabitResultCallback | Add, modify, delete custom callbacks |
| SleepBloodMonitorCallback | Sleep blood oxygen callback |
| StressMonitor Callback | pressure callback |
| Vibrate Callback | Vibrate mode callback |
| PeriodReminderCallback | Menstrual period reminder switch callback |
| MotionAlarmHrCallback | Sports alarm heart rate callback |
| SosContactCallback | Emergency Contact Callback |
| BtStatusCallback | Query BK status callback |
| MsgContentCallback | Query watch quick reply callback |
| ChangeWatchIdCallback | 修改表盘ID回调 |

### Method Description

**public EABleConnectState getDeviceConnectState()**

Method Description: Query the connection status with the device

Return value description:

|  |  |
| --- | --- |
| STATE\_CONNECTED | connected |
| STATE\_CONNECTING | connecting |
| STATE\_DISCONNECT | The line is disconnected |
| STATE\_IDLE | idle |

**public void didDiscoverPeripheral(@NonNull EABleScanListener eaBleScanListener, @NonNull Context mContext)**

Method Description: Scan for Bluetooth devices

Parameter Description:

eaBleScanListener : scan callback

|  |  |
| --- | --- |
| scanDevice(List<EABleDevice> deviceList) | device callback |
| void scanError(int errorCode) |  |

EABleDevice parameter description

|  |  |
| --- | --- |
| deviceName | bluetooth name |
| deviceAddress | bluetooth address |
| deviceSign | Serial number, non-apex products, the serial number is the same as the address |
| bytes | Bluetooth broadcast data |
| isBind | binding state |
| rssi | signal strength |
| type | bluetooth type |

**public void connectToPeripheral(@NonNull String macAddress, @NonNull Context mContext,EABleConnectListener eaBleConnectListener,int mtu, DataReportCallback dataReportCallback, MotionDataReportCallback motionDataReportCallback ,boolean autoConnectBT )**

Description: Connecting the device

Parameter Description:

|  |  |
| --- | --- |
| macAddress | bluetooth address |
| mtu | Bluetooth packet size |
| autoConnectBT | Whether the SDK automatically connects to BT |

**public void setUserInfo(@NonNull EABlePersonInfo personInfo, GeneralCallback generalCallback)**

Method Description: Synchronize user information to the device

Parameter Description:

|  |  |
| --- | --- |
| e\_sex\_info | gender |
| age | age |
| height | height in centimeters |
| weight | weight in grams |
| e\_hand\_info | Wear left or right hand |
| e\_skin\_color | color |

**public void setTimeSync(@NonNull EABleSyncTime syncTime, GeneralCallback eaBleResponse)**

Method Description: Synchronize time to device

Parameter Description:

|  |  |
| --- | --- |
| year | year |
| month | the moon |
| the day | the day |
| hours | hours |
| minutes | point |
| second | second |
| e\_hour\_system | 12-hour or 24-hour format, currently only set on the device |
| e\_time\_zone | time zone |
| time\_zone\_hour | current time zone: hour |
| time\_zone\_minute | Current time zone: minute |
| e\_sync\_mode | Synchronous mode, currently can only be set to normal |

**public void setOpsBinding(@NonNull EABleBindInfo binding, GeneralCallback eaBleResponse)**

Method description: Bind the device

Parameter Description:

|  |  |
| --- | --- |
| user\_id | User id, UTF8 not exceeding 32 bytes |
| e\_ops | normal\_begin : Start binding in common cases, expand later, temporarily useless, qr\_code\_begin: scan code to start binding, expand later, temporarily useless, end: bind  time\_out binding timeout |
| sleep\_data\_merge\_minutes | The sleep merge interval, in minutes |

**public void setScreenBrightness(int screenBrightness, GeneralCallback eaBleResponse)**

Method Description: Set screen brightness

Screen Brightness ranges from 0 to 100;

**public void setBlackScreenTimeout(int timeout, GeneralCallback eaBleResponse)**

Method Description: Set the automatic off-screen time

Timeout unit is second

**public void setDevLanguage(@NonNull EABleDeviceLanguage deviceLanguage, GeneralCallback eaBleResponse)**

Method Description: Set the display language of the device

Please refer to the EABleDeviceLanguege class for specific supported languages. The currently supported languages are Simplified Chinese and English, and other languages are being added.

**public void setUnifiedUnit(@NonNull EABleDevUnit devUnit, GeneralCallback eaBleResponse)**

Method Description: Set the unit of the device at one time,

Parameter Description:

UnitFormat.metric : International System of Units

UnitFormat . british : Imperial units

**public void setDeviceOps(@NonNull EABleDev dev, GeneralCallback eaBleResponse)**

Method Description: Equipment Operation

Parameter Description:

|  |  |
| --- | --- |
| DevOps | For the operations that the device needs to perform, please refer to the following instructions for details |
| DevOpsStatus | temporarily useless |

DevOps.restore\_factory : restore factory settings

DevOps.reset : restart

DevOps.power\_off : power off

DevOps.entering\_flight\_mode : enter flight mode

DevOps .Light up the screen: light up the screen

DevOps.turn\_off\_the\_screen : turn off the screen

DevOps.stop\_search\_phone : Stop searching for phones

DevOps . enter\_factory\_test\_mode : enter factory test mode

DevOps.exit\_factory\_test\_mode : exit factory test mode

start\_search\_watch, //Start searching for watches

stop\_search\_watch, //stop searching for watches

stop\_camera, //turn off the camera

ble\_sec\_enc\_start; //Device operation IOS phone pop-up pairing box

bt\_msg\_off(14), //关闭BT信息回复功能

bt\_msg\_on(15); //打开BT信息回复功能

**public void setNotDisturb(@NonNull EABleNotDisturb notDisturb, GeneralCallback eaBleResponse)**

Method Description: Set Do Not Disturb

Parameter Description:

|  |  |
| --- | --- |
| sw | Whether to enable the specified time do not disturb mode, 0 is off, 1 is on |
| begin\_hour | start time, when |
| begin\_minute | start time, min |
| end\_hour | end time, when |
| end\_minute | end time, minutes |
| watch\_sw | Whether the Do Not Disturb mode is enabled, 0 is off, 1 is on |

**public void setDailyGoal(@NonNull EABleDailyGoal dailyGoal, GeneralCallback eaBleResponse)**

How-To: Set Daily Goals

Parameter Description:

EABleDailyGoal

|  |  |
| --- | --- |
| s\_step | Target steps |
| s\_calorie | burn calories |
| s\_distance | Movement distance |
| s\_duration | excercise time |
| s\_sleep | sleeping time |

EABleDaily

|  |  |
| --- | --- |
| sw | Whether to open the target, 0 to close, 1 to start |
| goal | Target value, the number of steps, the unit is step; calorie, the unit is card, distance, the unit is meter, exercise duration, the unit is second; sleep duration, the unit is second |

**public void setAutoSleepCheck(@NonNull EABleAutoCheckSleep autoCheckSleep, GeneralCallback eaBleResponse)**

Method description: Set up sleep monitoring

Parameter Description:

|  |  |
| --- | --- |
| week\_cycle\_bit | Period, the bit corresponds to Sunday~Saturday from bit0~bit6, and 0 is to disable the monitoring function |
| begin\_hour | Start monitoring time, when |
| begin\_minute | Start monitoring time, minutes |
| end\_hour | End monitoring time, hours |
| end\_minute | End monitoring time, minutes |

public void setHeartRateIntervalTime(int interval, GeneralCallback eaBleResponse)

Method Description: Set the heart rate automatic monitoring interval time

Parameter Description:

Interval : the unit is minutes, 0 is to close the detection

**public void setSitCheck(@NonNull EABleSedentariness sedentariness, GeneralCallback eaBleResponse)**

Method description: Set up sedentary monitoring

Parameter Description:

|  |  |
| --- | --- |
| interval | Monitoring interval time, the unit is minutes, 0 is to close the detection |
| week\_cycle\_bit | Period: Bits correspond from bit0~bit6 to Sunday~Saturday |
| begin\_hour | Monitoring start time, when |
| begin\_minute | Monitoring start time, minutes |
| end\_hour | Monitoring end time, hours |
| end\_minute | Monitoring end time, minutes |
| step\_threshold | The number of steps, if the number of steps is lower than this, it will remind you to sit for a long time |
| sw | Sedentary switch (10: off, 11: on) (if the mobile phone can read 10 or 11, it means that the device already supports this switch, and there is no need to control the shutdown with interval) |
| noon\_sw | Lunch break open, close, 1: start lunch break, 0: close lunch break |
| noon\_begin\_hour | Lunch break start time - hour |
| noon\_begin\_minute | Lunch break start time - minutes |
| noon\_end\_hour | Lunch break end time-hour |
| noon\_end\_minute | Lunch break end time - minutes |

**public void pushInfo2Watch(@NonNull EABleSocialContact socialContact, GeneralCallback eaBleResponse)**

Method Description: Push prompt information to the device

Parameter Description:

|  |  |
| --- | --- |
| id | The id of the social information , can not be set |
| e\_ops | information operation type |
| eType | Type, from that social software |
| title | Information header, UTF8 not exceeding 128 bytes |
| content | Information content, no more than 400 bytes of UTF8 |
| date | Receive information time, no more than 16 bytes of UTF8 |

e\_ops parameter description

|  |  |
| --- | --- |
| add | increase |
| edit | edit |
| del | Delete, call hang up belongs to delete |
| del\_type | Delete all information of this type |
| del\_all | delete all information |

eType parameters, please directly view related classes

**public void setWeather(@NonNull EABleWeather weather, GeneralCallback eaBleResponse)**

Method description: Synchronize weather information to the watch

Parameter Description:

|  |  |
| --- | --- |
| current\_temperature | Current Temperature |
| place | Current geographic location, place name, UTF8 encoding not exceeding 96 bytes |
| temperatureUnit | Temperature unit, TemperatureUnit. centigrade Celsius, TemperatureUnit. fahrenheit Fahrenheit |
| s\_day | Weather information, support up to 7 days of weather |

s\_day parameter description

|  |  |
| --- | --- |
| e\_day\_type | Daytime weather conditions, sunny, cloudy and other types, please check the relevant categories for details |
| e\_night\_type | Night weather conditions, sunny, cloudy and other types, please check the relevant categories for details |
| e\_air | Air quality, AirQuality.excellent excellent; AirQuality.good good; AirQuality.bad poor |
| max\_temperature | maximum temperature |
| min\_temperature | lowest temperature |
| sunrise\_timestamp | Sunrise time, timestamp (seconds) |
| sunset\_timestamp | Sunset time, timestamp (seconds) |
| min\_wind\_power | Minimum Wind Rating |
| max\_wind\_power | Maximum Wind Rating |
| air\_humidity | Air humidity, range 1~100 |
| cloudiness | Cloud amount 1~100 |
| e\_rays | UV intensity, please refer to related categories for intensity levels |
| e\_moon | Moon phase, please refer to related categories for specific moon phase |

**public void setAncsSwitch(@NonNull EABleAncsSw ancsSw, GeneralCallback eaBleResponse)**

Method description: Turn on or off the device's message prompts for incoming calls, missed calls, text messages, social networking, emails, schedules, etc.

Parameter Description:

|  |  |
| --- | --- |
| s\_incomingcall | incoming call |
| s\_missedcall | Missed call reminder |
| s\_sms | SMS notification |
| s\_social | social reminder |
| s\_email | email alert |
| s\_schedule | daily reminder |

EABleAncsSwItem parameter description

|  |  |
| --- | --- |
| sw | switch, 0 is off, 1 is on |
| e\_action | Reminder method, please refer to related categories for details |

**public void setReminderOrder(@NonNull EABleReminder reminder, EditAttentionCallback eaBleResponse)**

Method description: Add, edit, delete alarm clock or daily reminder

Parameter Description:

|  |  |
| --- | --- |
| e\_ops | Operation type, add adds; edit edits; del deletes; del\_remind deletes all daily reminders; del\_alarm deletes all alarm clocks; del\_remind\_alarm deletes all alarm clocks and daily reminders, replace\_type replaces by type, all\_in replaces all |
| id | When e\_ops is edit or del, set the ID to be edited or deleted, and the others are 0; |
| s\_index | Alarm clock or daily reminder, the device supports no more than 20 |
| e\_type | type |

EABleReminderItem parameter description

|  |  |
| --- | --- |
| e\_type | Reminder type, please check related classes |
| id |  |
| hours |  |
| minutes |  |
| year |  |
| month |  |
| the day |  |
| week\_cycle\_bit | Period: Bits correspond from bit0~bit6 to Sunday~Saturday |
| sw | Switch , 0 is to close the reminder, 1 is to open the reminder |
| sec\_sw | Secondary reminder switch , 0 is to close the reminder, 1 is to open the reminder |
| sleep\_duration | Snooze time (unit: second) |
| e\_action | Reminder method , please check related classes |
| content | Custom content: up to 64 bytes of utf8, string |

EditAttentionCallback parameter description

|  |  |
| --- | --- |
| id | Prompt ID |
| remindRespondResult | operation result,  RemindRespondResult .success Success  RemindRespondResult .fail Failure  RemindRespondResult .mem\_full Exceeds the maximum number supported by the device  RemindRespondResult .time\_conflict Time duplicate |

**public void setDistanceUnit(@NonNull EABleDistanceFormat distanceFormat, GeneralCallback eaBleResponse)**

Method Description: Set the device distance unit

Parameter Description:

EABleDistanceFormat.DistanceUnit.kilometre metric unit;

EABleDistanceFormat.DistanceUnit.mile Imperial unit

**public void setWeightUnit(@NonNull EABleWeightFormat weightFormat, GeneralCallback eaBleResponse)**

Method Description: Set the device weight unit

Parameter Description:

EABleWeightFormat.WeightUnit.kilogram Metric unit

EABleWeightFormat.WeightUnit.pound imperial unit

**public void setHeartRateLimit(@NonNull EABleHr hr, GeneralCallback eaBleResponse)**

Method Description: Set heart rate overrun alarm parameters

Parameter Description:

|  |  |
| --- | --- |
| sw | Switch, 1 is open over limit alarm, 0 is closed |
| max\_hr | Maximum alarm heart rate |
| min\_hr | Minimum alarm heart rate |

**public void setCaloriesSwitch(@NonNull int on\_off, GeneralCallback eaBleResponse)**

Method description : Set to enable calorie detection, 0 is off, 1 is on

**public void setGesturesSwitch(@NonNull int on\_off, GeneralCallback eaBleResponse)**

Method Description: Set the screen to turn on when you raise your hand, 0 means off, 1 means on

**public void requestSyncMotionData(@NonNull MotionReportType dataReportingType, GeneralCallback eaBleResponse)**

Method description: Set the type of exercise data that the device is synchronized with priority, call this method, set the type, and the device will start to synchronize exercise data. If there is no exercise data, it will not be synchronized. If there is no exercise data that needs to be synchronized first, other will be synchronized. Types of Motion Data

Parameter Description:

|  |  |
| --- | --- |
| MotionReportType.sport\_data\_req\_ \_ \_ | daily exercise data |
| MotionReportType.sleep\_data\_req\_ \_ \_ | sleep data |
| MotionReportType.hr\_data\_req\_ \_ \_ | heart rate data |
| MotionReportType . gps\_data\_req | GPS data |
| MotionReportType.multi\_sports\_data\_req\_ \_ \_ | multi-sport data |
| MotionReportType.blood\_oxygen\_data\_req\_ \_ \_ | blood oxygen data |
| MotionReportType.pressure\_data\_req\_\_ \_ \_ | pressure data |
| MotionReportType.step\_freq\_data\_req\_ \_ \_ | Cadence data |
| MotionReportType.pace\_data\_req\_ \_ \_ | pace data |
| MotionReportType.resting\_hr\_data\_req\_ \_ \_ | resting heart rate data |

**public void setCombination(@NonNull EABleCombination eaBleCombination, GeneralCallback eaBleResponse)**

Method Description: Set combination parameters

Parameter Description:

|  |  |
| --- | --- |
| bat\_level | battery power |
| auto\_pressure\_sw | Automatic pressure monitoring switch, 0 is off, 1 is on |
| auto\_sedentariness\_sw | Automatic sedentary monitoring switch, 0 is off, 1 is on |
| gestures\_sw | Raise your hand to turn on the screen, 0 is off, 1 is on |
| e\_vibrate\_intensity | Vibration mode, VibrationIntensity.light weak vibration;,VibrationIntensity.medium normal vibration;,VibrationIntensity.strong strong vibration |
| e\_hand\_info | wearing information |
| e\_unit\_format | unit |
| auto\_check\_hr\_sw | Automatically open heart rate monitoring, 0 is off, 1 is on |
| not\_disturb\_sw | Turn on the do not disturb mode, 0 is off, 1 is on |
| set\_vibrate\_intensity | Combined commands to set whether to enable vibration, 0 is off, 1 is on |
| wf\_id | System dial ID |
| user\_wf\_id | The watch face ID set by the user |
| e\_status | Battery charging information, BatInfoStatus.normal normal status; BatInfoStatus.in\_charging charging status |
| sleep\_blood\_oxygen\_sw | Sleep blood oxygen detection, 0 is off, 1 is on |
| stress\_sw | Pressure detection, 0 is off, 1 is on |

**public void setMenuPage(@NonNull EABleMenuPage eaBleHomePage, GeneralCallback eaBleResponse)**

Method description: Set the display page of the main interface of the device

Parameter Description:

|  |  |
| --- | --- |
| typeList | Page information, details are as follows |

MenuType {

page\_null(0), // Empty page, that is, the main interface does not display other pages

page\_heart\_rate(1), // Display the heart rate interface on the main interface

page\_pressure(2), // Display the pressure interface on the main interface

page\_weather(3), // Display the weather interface on the main interface

page\_music(4), // Display the music interface on the main interface

page\_breath(5), // Display the breathing interface on the main interface

page\_sleep(6), // Display the sleep interface on the main interface

page\_menstrual\_cycle(7); // Display the menstrual cycle interface on the main interface (it is best to set it as a female user to have the right to set this interface)

}

public void setMenstrualCycle(@NonNull EABlePhysiologyData eaBlePhysiologyData, boolean isOvulation, GeneralCallback eaBleResponse)

Method description: To synchronize physiological data to the device, it is necessary to synchronize the information of a physiological cycle to the device, from the beginning to the end of the physiological cycle.

Parameter Description:

|  |  |
| --- | --- |
| isOvulation | Whether to display the ovulation day |

EABlePhysiologyData parameter description

|  |  |
| --- | --- |
| startTime | Menstrual period start timestamp (accurate to milliseconds ) |
| keepTime | Days of menstrual period (unit day) |
| cycle time | Menstrual cycle (unit day) |

**public void setWatchFace(@NonNull EABleWatchFace eaBleWatchFace, GeneralCallback eaBleResponse)**

Method description: Set the device dial, when the system dial id is 0, it means the current dial is the user dial

Parameter Description:

|  |  |
| --- | --- |
| id | System dial ID, the current range is 1~10 |
| user\_wf\_id | User's current dial ID |
| user\_wf\_id\_0 | Already exists online user watch face |
| user\_wf\_id\_1 | Already exists online user watch face |
| user\_wf\_id\_2 | Already exists online user watch face |
| user\_wf\_id\_3 | Already exists online user watch face |
| user\_wf\_id\_4 | Already exists online user watch face |
| user\_wf\_id\_5\_ \_ | Already exists online user watch face |
| user\_wf\_id\_6\_ \_ | Already exists online user watch face |
| user\_wf\_id\_7\_ \_ | Already exists online user watch face |
| user\_wf\_id\_8\_ \_ | Already exists online user watch face |
| user\_wf\_id\_9\_ \_ | Already exists online user watch face |

**public void setAppPushSwitch(@NonNull EABleInfoPush eaBleInfoPush, GeneralCallback eaBleResponse)**

Social software information prompt switch, the parameter content is arranged in a fixed order, and the order content cannot be changed, the details are as follows:

unknown; // type: other social types

wechat;

qq;

facebook;

twitter;

messenger;

hangouts;

gmail;

viber;

snapchat;

whatsApp;

instagram;

linkedin;

line;

skype;

booking;

airbnb;

flipboard;

spotify;

pandora;

telegram;

dropbox;

waze;

lift;

slack;

shazam;

deliveroo;

kakaotalk;

pinterest;

tumblr;

vk;

youtube;

outlook;

Parameter Description:

|  |  |
| --- | --- |
| s\_app\_sw | Software information, EABlePushSwitch. sw switch, 0 is off, 1 is on |

**public void queryWatchInfo(@NonNull QueryWatchInfoType queryWatchInfo, EABleCallback eaBleResponse)**

Query device information

QueryWatchInfoType parameter description ：

|  |  |
| --- | --- |
| watch\_info | Query device information |
| user\_info | Query device user information |
| sync\_time | Query device time information |
| screen\_light | Query the screen brightness of the device |
| black\_screen\_time | Query the off-screen time of the device |
| battery\_info | Query power information |
| language | Query the language currently used by the device |
| unit\_format | Query equipment unit information, metric or imperial units |
| not\_disturb | Query the DND information of the device |
| time\_zone | Query the home time zone information of the device, and expand the content in the future |
| daily\_goal | Query the daily target of the device |
| sleep\_check | Query the sleep monitoring information of the device |
| heart\_rate\_check | Query the interval time of automatic heart rate monitoring |
| sit\_check | Query sedentary monitoring information |
| weather | Query device weather |
| ancs\_sw | Query device mail, schedule, text messages, incoming calls, social networking, unknown call notification status, open or close |
| reminder | Query device reminder information, alarm clock or schedule reminder |
| distance\_unit | Query distance unit information, imperial or metric |
| weight\_unit | Query weight unit information, imperial or metric |
| heart\_rate\_limit | Query heart rate alarm information |
| base\_calories | Query the status of the calorie switch, open or close |
| gestures | Query the switch status of raising the hand to brighten the screen, open or close |
| combination | Combined command information query |
| home\_page | Query the home page displayed by the device |
| menstrual\_cycle | Query device physiological cycle information |
| dial | Query dial information |
| push\_info | Query the switch status of the social app information prompt |
| habit | Query custom information |
| todayData | Query today's sports display data |
| bookList | Query contact information |
| features | Query the functions supported by the watch |
| monitor\_reminder | Query reminder information |
| sleep\_blood\_monitor | Query the status of the sleep blood oxygen switch, open or close |
| stress\_monitor | Query the status of the pressure switch, open or closed |
| vibrate\_mode | Query the vibration mode |
| period\_reminder | Query the menstrual period reminder switch |
| motion\_heart\_alarm | Query exercise alarm heart rate |
| sos\_contact | Query S0S contact information |
| bt\_status | Query BK status |
| msgContent | Query watch quick reply |
| bk\_mac | 查询BT地址 |

Different callbacks use different instructions, as follows

|  |  |
| --- | --- |
| watch\_info | WatchInfoCallback |
| user\_info | PersonInfoCallback |
| sync\_time | Time Callback |
| screen\_light | ScreenBrightnessCallback |
| black\_screen\_time | RestScreenCallback |
| battery\_info | BatterInfoCallback |
| language | Language Callback |
| unit\_format | Unit Callback |
| not\_disturb | Don Disturb Callback |
| time\_zone | TimeZone Callback |
| daily\_goal | Goal Callback |
| sleep\_check | SleepCheckCallback |
| heart\_rate\_check | HeartCheckCallback |
| sit\_check | SedentaryCheckCallback |
| weather | Weather Callback |
| ancs\_sw | Remind Callback |
| reminder | Attention Callback |
| distance\_unit | DistanceUnit Callback |
| weight\_unit | WeightUnit Callback |
| heart\_rate\_limit | HeartLimitCallback |
| base\_calories | CalorieSwitchCallback |
| gestures | RaiseHandBrightScreenCallback |
| combination | Combination Callback |
| home\_page | MenuCallback |
| menstrual\_cycle | Period Callback |
| dial | WatchFaceCallback |
| push\_info | InfoPushCallback |
| habit | Habit Callback |
| todayData | TodayTotalDataCallback |
| bookList | ReadBookListCallback |
| features | Features Callback |
| monitor\_reminder | MonitorReminderCallback |
| sleep\_blood\_monitor | SleepBloodMonitorCallback |
| stress\_monitor | StressMonitor Callback |
| vibrate\_mode | Vibrate Callback |
| period\_reminder | PeriodReminderCallback |
| motion\_heart\_alarm | MotionAlarmHrCallback |
| sos\_contact | SosContactCallback |
| bt\_status | BtStatusCallback |
| msgContent | MsgContentCallback |
| bk\_mac | BTMacCallback |

**public void musicQueryResponse(@NonNull EABleMusicRespond eaBleMusicRespond, DataResponseCallback dataResponseCallback)**

Method description: music query reply

Parameter Description:

|  |  |
| --- | --- |
| e\_status | play status  MusicStatus .not\_play No playing  MusicStatus .playing Playing  MusicStatus .stop\_play Stop playing |
| volume | volume |
| content | music name |
| duration | Song time (unit: second) |
| elapsed time | Elapsed playing time (unit: second) |
| artist | singer |

**public void mobileOperationResponse(@NonNull EABlePhoneResponse eaBlePhoneSeek, DataResponseCallback dataResponseCallback)**

Method description: connect the camera, take pictures, and end the reply of taking pictures

Parameter Description:

|  |  |
| --- | --- |
| id | When the camera is connected, the id is 2, when taking a picture, the id is 3, and when the photo is finished, the id is 4 |
| eaBleExecutiveResponse | operation result  EABleExecutiveResponse.execute EABleExecutiveResponse.success  executed successfully\_  EABleExecutiveResponse.fail Execution failed |

**public void motionDataResponse(@NonNull EABleGeneralSportRespond eaBleDataRespond, MotionDataResponseCallback motionDataResponseCallback)**

Method Description: Motion data recovery

Parameter Description:

|  |  |
| --- | --- |
| request\_id | Sports data id, daily is 3001, sleep is 3002, heart rate is 3003, gps is 3004, multi-sport is 3005, blood oxygen is 3006, pressure is 3007, step frequency is 3008, pace is 3009, resting heart rate is  3010 , habit is 3011, sleep score is 3012, motion heart is 3013 |
| e\_common\_flag | Data packet label, the data packet label here is the label when the received device synchronizes data |

**public void otaUpdate(@NonNull List<EABleOta> otaList, OtaCallback otaCallback)**

Method description: ota

Parameter Description:

|  |  |
| --- | --- |
| fileByte | Ota data bytes |
| otaType | OtaTypeOtaType.apollo\_  \_  OtaType.res  OtaType.hr  OtaType.tp  OtaType.agps  OtaType.gps  OtaType.stm32  OtaType.user\_wf //User-defined dial |
| version | Version number, agps, user\_wf type, you do not need to fill in the version number,  the version number of the apollo type is: AP0.xBx.x  The version number of the res type is: Rx.x  The version number of the tp type is: Tx.x  The version number of the hr type is: Hx.x  The version number of the agps type is: Gx.x |
| filePath | file address |

**public void stopScanPeripherals(@NonNull Context mContext, EABleScanListener eaBleScanListener)**

Method description: stop scanning

**public void disconnectPeripheral()**

Method Description: Close the Bluetooth connection with the device

**public void setHabit(@NonNull EABleHabit eaBleHabit, HabitResultCallback channel8801Callback** )

Method description: edit, add, delete habits

Parameter Description

|  |  |
| --- | --- |
| e\_ops | Operation: edit, add, delete this article, delete all |
| itemList | Habit |
| deleteList | A collection of IDs of the habits to delete |

HabitItem parameter description

|  |  |
| --- | --- |
| e\_icon\_id | Icons I'm used to |
| habitState | state of habit |
| id | Habit ID, when adding a habit, do not fill in here |
| begin\_hour | start time-hour |
| begin\_minute | start time - minutes |
| end\_hour | end time-hour |
| end\_minute | end time-min |
| redColor | red |
| greenColor | green |
| blueColor | blue |
| duration | The reminder time is 30 minutes (cannot be changed) |
| e\_action | reminder method |
| content | content |
| cycle | Period, 0 is a single reminder |

**public void addBookList(List<EABleContact> eaBleBookList, int flag, GeneralCallback eaBleResponse)**

Method description: add contacts

Parameter description flag flag: 0, not more than 10 people; when more than 10 people, add in two times, each time adding no more than 10 people, the flag is 0 when adding the first time, and the flag is 1 when adding the second time, if both flags are filled with 0, the one added later will overwrite the previous one

|  |  |
| --- | --- |
| contactName | name |
| contactNum | Number |

**public void addMonitorReminder(@NonNull EABleMonitorReminder reminder, GeneralCallback generalCallback)**

Method Description: Add Reminder

Parameter Description

|  |  |
| --- | --- |
| eaBleMonitorType | type |
| reminder Switch | Turn on reminders, turn off reminders |
| interval | reminder interval |
| week\_cycle\_bit | cycle |
| begin\_hour | start time-hour |
| begin\_minute | start time - minutes |
| end\_hour | end time-hour |
| end\_minute | end time-min |
| step\_threshold | step limit |
| cup | Drink water (number of cups) |

**public void startAppSport(@NonNull EABleStartAppSports eaBleStartAppSports, GeneralCallback generalCallback)**

Method Description: Start App Movement

Parameter Description:

|  |  |
| --- | --- |
| appSportType | type of exercise |
| sportStatus | Status: start, end, pause |
| reportInterval | The time interval between watch reporting data, in seconds |
| checkSport | Whether the movement can be turned on |

**public void setData2Watch(@NonNull EABleAppSportData eaBleAppSportData, GeneralCallback generalCallback)**

Method description: app transfers motion data to watch

Parameter Description:

|  |  |
| --- | --- |
| duration | The current total exercise time, in seconds |
| distance | The current total distance, in centimeters |
| pace | Current pace, unit S/KM |

**public void startOrEndCheck(@NonNull EABleCheckSwitch eaBleCheckSwitch, GeneralCallback generalCallback)**

Method description: start or end detection

Parameter Description:

|  |  |
| --- | --- |
| checkType | detection type |
| sw | switch, 0 off, 1 on |
|  |  |

**public void getMotionDataWithType(@NonNull EABleDataType eaBleDataType, GeneralCallback generalCallback)**

Method Description: Synchronize this type of motion data

Parameter Description:

|  |  |
| --- | --- |
| EABleDataType | type of data |
|  |  |

**public void startStressMonitor(EABleAutoStressMonitor eaBleAutoStressMonitor, GeneralCallback generalCallback)**

Method description: Turn on/off pressure detection

Parameter description ：

|  |  |
| --- | --- |
| sw | , 0, close detection 1, open detection  intervalTime interval time unit: minutes (minimum not less than 60 minutes) |
| **intervalTime** | Detection interval time, in minutes |

**public\_ \_ void startSleepBloodMonitor(@NonNull EABleSleepBloodSwitch eaBleSleepBloodSwitch, GeneralCallback generalCallback)**

Method description: Turn on/off sleep blood oxygen pressure detection

Parameter Description:

|  |  |
| --- | --- |
| sw | 0, close detection 1, open detection |
| interval | Interval time, unit minutes, default half an hour, range (30, 45, 60, 90, 120) |

**public void startRealTimeDataReport(int sw, GeneralCallback generalCallback)**

Method Description: Turn on/off real-time data reporting

Parameter Description:

|  |  |
| --- | --- |
| sw | 0, close reporting 1, start reporting |

**public void setVibrateMode(@NonNull VibrationIntensity vibrationMode, GeneralCallback generalCallback)**

Method description: set the vibration mode

Parameter Description:

|  |  |
| --- | --- |
| vibrationMode | l light mild vibration, medium moderate vibration, strong strong vibration, not\_vibrate no vibration |

**public void startAppScreenSport(@NonNull EABleAppScreenSport eaBleAppScreenSport, GeneralCallback generalCallback)**

Method Description: Start the watch movement from the APP (all sports supported by the watch)

Parameter Description:

|  |  |
| --- | --- |
| eaBleAppSportType | Sport type, see class EABleAppScreenSport.EABleAppSportType for details |
| eaBleSportStatus | Sport status, see class EABleSportStatus for details |
| interval | Data reporting interval, in seconds, default is 5 seconds |

**public void setPeriodReminder(@NonNull EABlePeriodReminder eaBlePeriodReminder, GeneralCallback generalCallback)**

Method Description: Set Menstrual Period Reminder

Parameter Description:

|  |  |
| --- | --- |
| periodStart | Menstrual period start reminder, 0: no reminder, 1: reminder |
| periodEnd | Menstrual period end reminder, 0: no reminder, 1 reminder |
| pregnancy Start | Pregnancy start reminder, 0: no reminder, 1 reminder |
| pregnancyEnd | Reminder of the end of fertile period, 0: no reminder, 1 reminder |
| ovulation\_day\_sw | Ovulation day reminder, 0: no reminder, 1 reminder |

public void deleteCustomDial(@NonNull String dialId, GeneralCallback generalCallback)

Method Description: Delete custom dial

Parameter Description:

|  |  |
| --- | --- |
| dialId | Dial ID |

public void setMotionAlarmHr(@NonNull EABleMotionAlarmHr eaBleMotionAlarmHr, GeneralCallback generalCallback)

Method description: add exercise alarm heart rate

Parameter Description:

|  |  |
| --- | --- |
| sw | Turn on or off the exercise heart rate alarm, 0: off, 1: on |
| max\_hr | maximum heart rate |
| min\_hr | minimum heart rate |

public void setSosContact(@NonNull EABleSoSContact eaBleSoSContact, GeneralCallback generalCallback)

How-To: Add Emergency Contacts

Parameter Description:

|  |  |
| --- | --- |
| name | contact name |
| num | Number |

public void setBTSwitch(int sw, GeneralCallback generalCallback)

Method Description: Turn on or off BK

Parameter Description:

|  |  |
| --- | --- |
| sw | 0, off, 1 on |

public void setMsgContent(@NonNull List<String> msgList, GeneralCallback generalCallback)

Method description: Synchronize custom quick replies to the watch

Parameter Description:

|  |  |
| --- | --- |
| msgList | A collection of quick replies, no more than 8 replies, each no more than 64 bytes |

public void modifyWatchFaceId(String watchId, String filePath, ChangeWatchIdCallback changeWatchIdCallback)

Method description: Modify watch face ID

Parameter Description

|  |  |
| --- | --- |
| watchId | New watch face ID |
| filePath | Original watch face path |
| changeWatchIdCallback | Result callback. If the modification is successful, the new dial address will be returned. If the modification fails, empty will be returned. |

1. **Description of function parameters supported by the watch**

Class name: EABleFeatures

Parameter Description:

|  |  |
| --- | --- |
| hr\_warning | Whether to support heart rate warning setting, 1: support, 0: not support |
| hr\_monitoring | Whether to support heart rate detection, 1: support, 0: not support |
| rhr\_monitoring | Whether to support resting heart rate detection, 1: support, 0: not support |
| blood\_pressure\_monitoring | Whether to support blood pressure detection, 1: support, 0: not support |
| pressure\_monitoring | Whether to support pressure detection, 1: support, 0: not support |
| sleep\_monitoring | Whether to support sleep detection, 1: support, 0: not support |
| weather\_settings | Whether to support weather settings, 1: support, 0: not support |
| gestures\_wake\_up\_settings | Whether to support raising hand bright screen setting, 1: support, 0: not support |
| vibration\_mode\_settings | Whether to support vibration mode setting, 1: support, 0: not support |
| wearing\_mode\_settings | Whether to support wearing mode setting, 1: support, 0: not support |
| incoming\_call\_reminder | Whether to support call reminder, 1: support, 0: not support |
| missed\_call\_reminder | Whether to support missed call reminder, 1: support, 0: not support |
| sms\_reminder | Whether to support SMS reminder, 1: support, 0: not support |
| mail\_reminder | Whether to support email reminder, 1: support, 0: not support |
| goal\_achievement\_reminder | Whether to support goal achievement reminder setting, 1: support, 0: not support |
| schedule\_setting | Whether to support schedule reminder setting, 1: support, 0: not support |
| alarm\_settings | Whether to support alarm clock setting, 1: support, 0: not support |
| app\_push\_settings | Whether to support message push settings, 1: support, 0: not support |
| sedentary\_monitoring | Whether to support sedentary detection, 1: support, 0: not support |
| disturb\_setting | Whether to support Do Not Disturb setting, 1: support, 0: not support |
| menu\_settings | Whether to support menu settings, 1: support, 0: not support |
| habit\_tracker\_settings | Whether to support adding habits, 1: support, 0: not support |
| habit\_tracker\_color\_settings | Whether to support custom UI to add color, 1: support, 0: not support |
| unit\_settings | Whether to set the unit, 1: support, 0: not support |
| base\_calories\_settings | Whether to support basic calorie detection, 1: support, 0: not support |
| menstrual\_setting | Whether to support menstrual period setting, 1: support, 0: not support |
| phone\_contact | Whether to support adding address book, 1: support, 0: not support |
| ringtone\_support | Whether to support ringtones, 1: support, 0: not support |
| gps\_setting | Whether to support GPS, 1: support, 0: not support |
| temperature\_monitoring | Whether to support body temperature detection, 1: support, 0: not support |
| smart\_sports\_setting | Whether to support smart sports, 1: support, 0: not support |
| monitor\_reminder | Whether to support adding event reminder, 1: support, 0: not support |
| bt\_one\_key\_connect | Whether to support BT connection, 1: support, 0: not support |
| weather\_air | Whether to support air quality setting, 1: support, 0: not support |
| find\_watch | Whether to support looking up watches, 1: support, 0: not support |
| support\_app\_sport | Whether to support App motion, 1: support, 0: not support |
| support\_app\_detection | Whether to support App startup detection (heart rate, blood oxygen, pressure, breathing, etc.), 1: support, 0: not support |
| support\_only\_get\_big\_data | Whether to support synchronizing data by type alone, 1: support, 0: not support |
| sleep\_blood\_oxygen\_monitor\_setting | Whether to support sleep blood oxygen detection, 1: support, 0: not support |
| stress\_monitor\_setting | Whether to support pressure detection, 1: support, 0: not support |
| send\_real\_time\_data\_setting | Whether to support setting real-time data reporting, 1: support, 0: not support |
| reminder\_all\_in\_and\_replace\_type\_setting | Whether to support replacing reminders by type, replacing all reminders |
| vibrate\_intensity\_setting | Set the vibration mode, add the not\_vibrate type, that is, no vibration |
| app\_launch\_screen\_sport | Whether to support watch movement, 1: support, 0 not support |
| menstrual\_reminder | Whether to support menstrual period reminder function, 1: support, 0 not support |
| support\_app\_detection\_hr | Whether to support app startup heart rate detection, 1: support, 0 not support |
| support\_app\_detection\_sqO2 | Whether to support the app to start the blood oxygen detection, 1: support, 0 not support |
| support\_app\_detection\_stress | Whether to support app startup pressure detection, 1: support, 0 not support |
| wf\_delete | Whether to support dial deletion, 1: support, 0 not support |
| hr\_sport\_warning | Whether to support sports heart rate alarm, 1: support, 0 not support |
| contact\_sos | Whether to support SOS contacts, 1: support, 0 not support |
| hr\_data\_separation | Whether to support heart rate data separation, 1: support, 0 not support |
| support\_mile\_pace\_data | Whether the pace data supports miles, 1: support, 0 does not support |
| schedule\_setting\_user | Schedule reminder, whether it supports user-defined, 1: support, 0 does not support |
| support\_bt\_ops | Whether to support BK control, 1, support, 0 not support |
| support\_user\_msg | Whether to support user-defined quick reply, 1 supports, 0 does not support |
| support\_ovulation\_day | Does it support ovulation day display, 1 supports, 0 does not support |
| stress\_monitor\_interval | Whether to support automatic pressure interval setting, 1 supports, 0 does not support |
| app\_sw\_num128bytes | Whether to support 128 application message push switches, 1 supports, 0 does not support |
| support\_user\_log\_bin | Does the firmware support log reading? |
| support\_get\_bt\_mac | Does the firmware support BT Mac address reading? |

Before connecting again, you need to destroy and close the Bluetooth connection first, so that the library can recycle various resources and change the state. After calling the method of closing the Bluetooth connection, it is recommended to delay the connection for a few seconds to facilitate the completion of resource recovery.