

# Android SDK Development Documentation

InfoWear

## Android SDK Development Documentation

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## Install

- First, under the dependencies of the project root build.gradle file,Add protobuf library : classpath 'com.google.protobuf:protobuf-gradle-plugin:0.8.8' ;
- Then add under the main module, such as the build.gradle file under the app: apply plugin: 'com.google.protobuf';
- Also add under dependencies: implementation 'com.google.protobuf:protobuf-java:3.5.1';
- Then add at the end of the build.gradle file:

```
1.  protobuf {
2.      //Configure the protoc compiler
3.      protoc {
```

```

4.         artifact = 'com.google.protobuf:protoc:3.5.1'
5.     }
6.     //The generation directory is configured here. After compilation,
    the corresponding java file will be generated in the build directory.
7.     generateProtoTasks {
8.         all().each { task ->
9.             task.builtins {
10.                 remove java
11.             }
12.             task.builtins {
13.                 java {}
14.             }
15.         }
16.     }
17. }

```

## use

### 1.API interface callback management

- ControlBleTools: First initialize through ControlBleTools.getInstance().init (context, notifyTittle, notifyText, notifyAppRes, BleStateCallBack); the parameters are context, notification title, notification text, notification app icon resource id, Bluetooth connection status callback interface;

API interface callback operation mode : The SDK uses the CallBackUtils class to add various callback information

### 1.Bluetooth first connection

- Bluetooth scanning entity class ScanDeviceBean

```

name : bluetooth name
isBind : Is it bound
isUserMode : user mode
rssi : Bluetooth signal value
address : MAC address

```

`hasBindingFunction` : Whether it is directly connected and bound, whether the device displays the confirmation binding interface

`deviceType` : Equipment type

`serviceDataString` : Bluetooth Service Characteristic Data

- Common standard parameter `BleCommonAttributes`

`STATE_CONNECTED` = 2,///  
connected

`STATE_CONNECTING` = 1,///  
connecting

`STATE_DISCONNECTED` = 0,///  
Disconnect

`STATE_TIME_OUT` = 4,///  
time out

`CONNECT_TIMEOUT` = 10 \* 1000,///  
connection timeout

`CONNECT_TIMES` = 3,///  
`SCAN_PERIOD_BLE_SERVICE` = 3 \* 1000,///  
Bluetooth scan time

`SEND_CMD_TIME_OUT` = 30 \* 1000, ///  
`UPLOAD_BIG_DATA_OTA` = "ota",///

`UPLOAD_BIG_DATA_WATCH` = "watch",///

- call method (Automatic reconnection has been done inside the SDK)

```
1. Search for bluetooth devices
   -ControlBleTools.getInstance().startScanDevice (ScanDeviceCallBack) ;
2. Stop searching for bluetooth devices -ControlBleTools.getInstance().stopScanDevice();
3. connect bluetooth -
   ControlBleTools.getInstance().connect(device.deviceName,
   device.deviceAddress);
4. disconnect bluetooth - ControlBleTools.getInstance().disconnect(true)
   ;
```

- bluetooth callback

```
1. Bluetooth callback class, When sdk is initialized:
   ControlBleTools.getInstance().init(), register BleStateCallBack; the callback information refers to the public standard parameter
   BleCommonAttributes;
```

2.The first Bluetooth connection is successful (non-binding is

successful)

- Query binding status

```
1. ControlBleTools.getInstance().requestDeviceBindState(); Add callback
   information: CallbackUtils.requestDeviceBindStateCallBack = new Request
   DeviceBindStateCallBack() {
2.     @Override
3.     public void onBindState(boolean isBind) {
4.         Query the binding status callback result: isBind is fal
   se means the device is not bound, is true
5.
6.         if (!isBind) {
7.             //Not bound, initiate binding
8.         } else {
9.             //The device has been bound, to verify that the userid
   is the same
10.        }
```

- Not bound, initiate binding

```
ControlBleTools.getInstance().bindDevice();
```

```
1. Initiate binding result callback:
2. CallbackUtils.bindDeviceStateCallBack = new BindDeviceStateCallBack()
   {
3.     @Override
4.     public void onDeviceInfo(String serialNumber, String device
   Number, boolean deviceVerify, String firmwareVersion, String mac) {
5.         The device responds to the binding callback result: dev
   iceVerify is true: the binding is successful, otherwise it fails;
6.         //At the same time, the sendAppBindResult method is cal
   led to send the account id to the device.
7.         ControlBleTools.getInstance().sendAppBindResult(DeviceC
   ache.getUserId());
8.     }
9. };
```

- The device has been bound, to verify that the userid is the same

```
ControlBleTools.getInstance().verifyUserId(DeviceCache.getUserId());
```

```

1. Validation result callback:
2. CallbackUtils.verifyUserIdCallBack =
3.     new VerifyUserIdCallBack() {
4.         @Override
5.         public void onVerifyState(int state) {
6.             if (state != 0) {
7.                 //If the userid of the verification result
is inconsistent, it indicates that the user's device has been bound by
another account.
8.                 } else {
9.                 //If the userid of the verification result
is the same, it indicates that the user's device has been bound by the
current account. Prompt that the connection is successful.
10.            }
11.        }
12.    };

```

- Query device MTU value

```

1.  /// Query device MTU value
2.  -ControlBleTools.getInstance().getMtu()

```

- The App sends the current time (the current time of the mobile phone) to the device and synchronizes it

```

1.  /// The app sends time to synchronize to the device
2.  /// @param current timestamp
3.  /// @param Is it a 12-hour clock
4.  /// @param Send command callback
5.  ControlBleTools.getInstance().setTime(System.currentTimeMillis(), is12
, new ParsingStateManager.SendCmdStateListener(null) {
6.      @Override
7.      public void onState(SendCmdState sendCmdState) {
8.
9.      }
10. });

```

- App sets user basic information

```

1.  /// The app sets basic user information
2.  /// @param distanceUnit Distance unit Metric: 0x00; //Metric
(distance); 0x01; //Imperial (distance)

```

```

3.    /// @param temperatureUnit Temperature unit: 0x00; //Celsius; 0x01; //
    Fahrenheit
4.    /// @param UserInfo Set user basic information result
5.    ControlBleTools.getInstance().setUserInformation ()

```

- UserInfo entity class

```

1.    public class UserInfo implements Serializable {
2.        public int height;//Height (cm cm)
3.        public float weight; //Weight (kg kg, accurate to two decimal
places, 120.15KG)
4.        public int birthday;//Birthday, timestamp, hour, minute, second, al
1 0
5.        public int sex;    //Male 0x01; //Female 0x02;
6.        public int age;
7.        public int maxHr;//Maximum heart rate (beats/min)
8.        public int calGoal;//Target Calories (kcal)
9.        public int stepGoal;//Target steps (steps)
10.       public int distanceGoal;//Target distance (m)
11.       public int standingTimesGoal;//Target effective standing times
(times)
12.       public int goalSleepMinute;//Target sleep duration (minutes)
13.   }

```

## 3.Features

### 1.Synchronous Data

- App actively obtains daily data

```
ControlBleTools.getInstance().getDailyHistoryData();
```

```

1.    Daily data callback
2.    CallbackUtils.fitnessDataCallBack = new FitnessDataCallBack() {
3.        @Override
4.        public void onProgress(int progress, int total) {
5.            //progress callback progress, total total;
6.        }
7.
8.        @Override
9.        public void onDailyData(DailyBean dailyBean) {
10.            //Steps, calories, distance data throughout the day

```

```

11.         }
12.
13.         @Override
14.         public void onSleepData(SleepBean sleepBean) {
15.             //All day sleep data
16.         }
17.
18.         @Override
19.         public void
onContinuousHeartRateData(ContinuousHeartRateBean
continuousHeartRateBean) {
20.             //Continuous heart rate data
21.         }
22.
23.         @Override
24.         public void onOfflineHeartRateData(OfflineHeartRateBean off
lineHeartRateBean) {
25.             //Heart rate data for manual testing
26.         }
27.
28.         @Override
29.         public void
onContinuousBloodOxygenData(ContinuousBloodOxygenBean
continuousBloodOxygenBean) {
30.             //Continuous blood oxygen data
31.         }
32.
33.         @Override
34.         public void onOfflineBloodOxygenData(OfflineBloodOxygenBean
offlineBloodOxygenBean) {
35.             //Blood oxygen data for manual tests
36.         }
37.
38.         @Override
39.         public void onContinuousPressureData(ContinuousPressureBean
continuousPressureBean) {
40.
41.         }
42.
43.         @Override
44.         public void onOfflinePressureData(OfflinePressureDataBean o
fflinePressureDataBean) {
45.
46.         }
47.

```

```

48.         @Override
49.         public void
onContinuousTemperatureData (ContinuousTemperatureBean
continuousTemperatureBean) {
50.             }
51.
52.         @Override
53.         public void
onOfflineTemperatureData (OfflineTemperatureDataBean
offlineTemperatureDataBean) {
54.
55.             }
56.
57.         @Override
58.         public void onEffectiveStandingData (EffectiveStandingBean e
ffectiveStandingBean) {
59.             //Valid standing data
60.         }
61.
62.         @Override
63.         public void onActivityDurationData (ActivityDurationBean act
ivityDurationBean) {
64.             //activity duration data
65.         }
66.     };

```

- DailyBean daily data entity class

```

1.     public class DailyBean extends BaseBean implements Serializable {
2.         public int stepsFrequency; //Step frequency
3.         public List<Integer> stepsData; //step data
4.         public int distanceFrequency; //distance frequency
5.         public List<Integer> distanceData; //distance data
6.         public int calorieFrequency; //Calorie Frequency
7.         public List<Integer> calorieData; //Calorie data
8.     }

```

- SleepBean sleep data entity class

```

1.     public class SleepBean extends BaseBean implements Serializable {
2.         public long startSleepTimestamp; //Total sleep onset time: time to
fall asleep
3.         public long endSleepTimestamp; //Total Sleep End Time: Wake Time
4.         public int sleepDuration; //Total Sleep Duration: Length of Sleep

```



```

5.     public int sleepScore;//sleep score
6.     public int awakeTime; //total waking time :
7.     public int awakeTimePercentage;//% of total waking hours :
8.     public int lightSleepTime;//total light sleep duration :
9.     public int lightSleepTimePercentage; // % of total light sleep time
10.    :
11.    public int deepSleepTime;//total deep sleep time :
12.    public int deepSleepTimePercentage;//% of total deep sleep time :
13.    public int rapidEyeMovementTime;//Total REM duration :
14.    public int rapidEyeMovementTimePercentage;//% of total REM
duration :
15.    public boolean isNightSleep;//sleep type
16.    public List<SleepDistributionData> list = new ArrayList<>();
17.
18.    public static class SleepDistributionData implements Serializable {
19.        public long   startTimestamp; //start time of sleep
20.        public int    sleepDuration; //sleep duration
21.        public int    sleepDistributionType; //sleep distribution type
22.    }

```

- ContinuousHeartRateBean Continuous heart rate entity class

```

1.     public class ContinuousHeartRateBean extends BaseBean implements
Serializable {
2.         public int continuousHeartRateFrequency;//continuous heart rate
3.         public List<Integer> heartRateData;//Continuous heart rate data
4.         public int max;
5.         public int min;
6.     }

```

- OfflineHeartRateBean Heart rate entity class for manual testing

```

1.     public class OfflineHeartRateBean extends BaseBean implements
Serializable {
2.         public List<MeasureData> list = new ArrayList<>();
3.         public static class MeasureData implements Serializable {
4.             public int measureTimestamp; //time of measurement
5.             public int measureData ; //Measurement data
6.         }
7.     }

```

- ContinuousBloodOxygenBean Continuous blood oxygen entity class

```

1. public class ContinuousBloodOxygenBean extends BaseBean implements
   Serializable {
2.     public int bloodOxygenFrequency; //continuous blood oxygen
   frequency
3.     public List<Integer> bloodOxygenData; //Continuous blood oxygen
   data
4. }

```

- ContinuousBloodOxygenBean Manually tested blood oxygen entity class

```

1. public class OfflineBloodOxygenBean extends BaseBean implements
   Serializable {
2.     public List<OfflineBloodOxygenBean.MeasureData> list = new ArrayLis
   t<>();
3.     public static class MeasureData implements Serializable {
4.         public int measureTimestamp; //time of measurement
5.         public int measureData ; //Measurement data
6.     }
7. }

```

- EffectiveStandingBean Valid standing entity class

```

1. public class EffectiveStandingBean extends BaseBean implements
   Serializable {
2.     public int effectiveStandingFrequency; //effective standing
   frequency
3.     public List<Integer> effectiveStandingData; //Valid standing data
4. }

```

- ActivityDurationBean Activity duration entity class

```

1. public class ActivityDurationBean extends BaseBean implements
   Serializable {
2.     public int activityDurationFrequency; //activity duration
   frequency
3.     public List<Integer> activityDurationData; //activity duration
   data
4. }

```

- The device actively refreshes real-time data

App sets the device to start uploading real-time basic data

```
1. -(void)deviceStartUploadBasicData;
```

App sets the device to stop uploading real-time basic data

```
1. -(void)deviceStopUploadBasicData;
```

The device actively reports real-time basic data

```
1. //Device active upload (total steps, calories, distance, heart rate, e
tc.)
2. -(void)deviceUploadMessageDidReviceBasicData:(ZHBasicData *)basicData;
```

2.set heart rate

**ControlBleTools.getInstance().setHeartRateMonitor ( )**

```
1. Heart rate parameter entity class
2. public class HeartRateMonitorBean implements Serializable {
3.     public int mode;           // mode 0 on 1 off
4.     public int frequency;       //Intervals
5.     public boolean isWarning;   //Whether there is a heart rate warning
6.     public int warningValue;    // Heart rate warning value
7.
8.     public HeartRateMonitorBean() {
9.     }
10.
11.     public HeartRateMonitorBean(int mode, int frequency, boolean isWarn
ing, int warningValue) {
12.         this.mode = mode;
13.         this.frequency = frequency;
14.         this.isWarning = isWarning;
15.         this.warningValue = warningValue;
16.     }
17.
18.     public HeartRateMonitorBean(SettingMenuProtos.HeartRateMonitor
rateMonitor) {
19.         mode = rateMonitor.getMode().getNumber();
20.         frequency = rateMonitor.getFrequency();
21.         isWarning = rateMonitor.getWarning();
22.         warningValue = rateMonitor.getWarningValue();
23.     }
```

```
24.     }
```

## App gets heart rate setting parameters

```
1.     ControlBleTools.getInstance().getHeartRateMonitor ()
```

## 3.Set device language

```
1.     Device language ID corresponding value
2.         enum LanguageId {
3.             ALBANIAN = 0X01; //Albanian
4.             ARABIC = 0X02; //Arabic
5.             AM_HARIC= 0X03; //Amharic
6.             IRISH = 0X04; //Irish
7.             ORIYA = 0X05; //Oriya
8.             BASQUE = 0X06; //Basque
9.             BELARUSIAN = 0X07; //Belarusian
10.            BULGARIAN = 0X08; //Bulgarian
11.            POLISH = 0X09; //Polish
12.            PERSIAN = 0X10; //Persian
13.            BOOLEAN = 0X11; //Boolean
14.            DANISH = 0X12; //Danish
15.            GERMAN = 0X13; //German
16.            RUSSIAN = 0X14; //Russian
17.            FRENCH = 0X15; //French
18.            FILIPINO = 0X16; //Filipino
19.            FINNISH = 0X17; //Finnish
20.            CAMBODIAN = 0X18; //Cambodian
21.            GEORGIAN = 0X19; //Georgian
22.            GUJARATI = 0X20; //Gujarati
23.            KAZAKH = 0X21; //Kazakh
24.            JAITAN_CREOLE = 0X22; //Haitian Creole
25.            KOREAN = 0X23; //Korean
26.            DUTCH = 0X24; //Dutch
27.            GALICIAN = 0X25; //Galician
28.            CATALAN = 0X26; //Catalan
29.            CZECH = 0X27; //Czech
30.            KANNADA = 0X28; //Kannada
31.            CROATIAN = 0X29; //Croatian
32.            KURDISH = 0X30; //Kurdish
33.            LATIN = 0X31; //Latin
34.            LAO = 0X32; //Lao
35.            KINYARWANDA = 0X33; //Rwandan
```

```

36.     ROMANIAN = 0X34; //Romanian
37.     MALAGASY = 0X35; //Malagasy
38.     MARATHI = 0X36; //Marathi
39.     MALAYALAM = 0X37; //Malayalam
40.     MALAY = 0X38; //Malay
41.     MONGOLIAN = 0X39; //Mongolian
42.     BENGALI = 0X40; //Bengali
43.     BURMESE = 0X41; //Burmese
44.     HMONG = 0X42; //Hmong language
45.     ZULU_SOYTH_AFRICA = 0X43; //Zulu, South Africa
46.     NEPALI = 0X44; //Nepali
47.     NORWEGIAN = 0X45; //Norwegian
48.     PORTUGUESE = 0X46; //Portuguese
49.     JAPANESE = 0X47; //Japanese
50.     SWEDISH = 0X48; //Swedish
51.     SERBIAN = 0X49; //Serbian
52.     SINHALA = 0X50; //Sinhala
53.     SLOVAK = 0X51; //Slovak
54.     SOMALI = 0X52; //Somali
55.     TAJIK = 0X53; //Tajik
56.     TELUGU = 0X54; //Telugu
57.     TAMIL = 0X55; //Tamil
58.     THAI = 0X56; //Thai
59.     TURKISH = 0X57; //Turkish
60.     URDU = 0X58; //Urdu
61.     UKRAINIAN = 0X59; //Ukrainian
62.     UZBEK = 0X60; //Uzbek
63.     SPANISH = 0X61; //Spanish
64.     GREEK = 0X62; //Greek
65.     HUNGARIAN = 0X63; //Hungarian
66.     IGBO = 0X64; //Igbo
67.     ITALIAN = 0X65; //Italian
68.     HINDI = 0X66; //Hindi
69.     INDONESIAN = 0X67; //Indonesian
70.     ENGLISH = 0X68; //English
71.     VIETNAMESE = 0X69; //Vietnamese
72.     TRADITIONAL_CHINESE = 0X70; //traditional Chinese
73.     SIMPLIFIED_CHINESE = 0X71; //Simplified Chinese
74. }

```

- App sets device language

```

1.     /// The app sends the language type to the device
2.     /// @param languageId language id

```

```
3. ControlBleTools.getInstance().setLanguage()
```

- App gets the list of languages supported by the device

```
1.  /// Get the list of languages supported by the device
2.  ControlBleTools.getInstance().getLanguageList()
3.  Callback language information
4.  CallbackUtils.languageCallback = new LanguageCallBack() {
5.      @Override
6.      public void onResult(LanguageListBean languageListBean)
7.      {
8.          //Query device language results
9.      }
10. };
11. language entity class
12. public class LanguageListBean implements Serializable {
13.     public int selectLanguageId;//The currently selected language id o
14.     f the device
15.     public int defaultLanguageId;//device default language id
16.     public List<Integer> languageList = new ArrayList<>();//List of lan
    guage ids supported by the device
    }
```

## 4.set unit

- set metric imperial

```
1.  /// Set metric and imperial (such as distance, weight, etc.)
2.  /// @param distanceUnit Unit Type: 0, // Metric; 1, // Imperial
3.  ControlBleTools.getInstance().setDistanceUnit()
```

- Set temperature units

```
1.  /// Temperature unit setting
2.  /// @param weatherUnit Temperature units 0, // Celsius; 1, //
    Fahrenheit
3.  ControlBleTools.getInstance().setTemperatureUnit()
```

## 5.Device notifications

- Send notification to device

```

1.    /// @param appName Third-party app name
2.    /// @param pageName Third-party app package name
3.    /// @param title title
4.    /// @param text content
5.    /// @param tickerText
6.    ControlBleTools.getInstance().sendAppNotification()

```

- Send incoming calls, missed calls, SMS notifications to the device

```

1.    /// @param type      0x00; //Incoming call. 0x01; //Missed call. 0x02;
    //Short message
2.    /// @param phoneNumber //Phone number
3.    /// @param contactsInfo //Query the contact name, mobile phone
    number/name according to the address book
4.    /// @param messageText //When there is only "MESSAGE", use
5.    ControlBleTools.getInstance().sendSystemNotification()

```

## 6.event reminder

- Get device event reminders

```

1.    ControlBleTools.getInstance().getEventInfoList()

```

- Set device event reminders

```

1.    /// Set device event reminder parameters
2.    /// @param List<EventInfoBean> list
3.    ControlBleTools.getInstance().setEventInfoList()
4.    Event reminder parameter entity class
5.    public class EventInfoBean implements Serializable {
6.        public String description; //Event description
7.        public TimeBean time;      //event reminder time
8.
9.        public EventInfoBean() {
10.
11.        }
12.
13.        public EventInfoBean(String description, TimeBean time) {
14.            this.description = description;
15.            this.time = time;
16.        }
17.
18.        public EventInfoBean(SettingMenuProtos.EventInfo eventInfo) {

```

```

19.         description = eventInfo.getDescription();
20.         time = new TimeBean(eventInfo.getTime());
21.     }
22. }

```

## 7.reminder function

### 1.Alarm clock

- Get device alarm

```

1.     /// Get device alarm reminder parameters
2.     ControlBleTools.getInstance().getClockInfoList()

```

- Set device alarm

```

1.     /// Set device alarm reminder parameters
2.     /// @param List<ClockInfoBean> list
3.     ControlBleTools.getInstance().setClockInfoList()
4.
5.     Parameter alarm clock reminder entity class
6.     public class ClockInfoBean implements Serializable {
7.         public int id = -1; //list
8.         public DataBean data;
9.
10.        public ClockInfoBean() {
11.        }
12.
13.        public ClockInfoBean(int id, DataBean data) {
14.            this.id = id;
15.            this.data = data;
16.        }
17.
18.        public ClockInfoBean(SettingMenuProtos.ClockInfo clockInfo) {
19.            id = clockInfo.getId();
20.            data = new DataBean(clockInfo.getData());
21.        }
22.
23.        public static class DataBean implements Serializable{
24.            public SettingTimeBean time;
25.            public int weekdays;           //The weekday of the alarm clock
26.            k, 1bit represents a week
27.            public boolean isEnabled;      //Is it on
28.            public String clockName;       //alarm clock name

```



```

29.         public boolean isMonday;//Does it repeat on monday
30.         public boolean isTuesday;//Does it repeat on Tuesday and so on
31.         public boolean isWednesday;
32.         public boolean isThursday;
33.         public boolean isFriday;
34.         public boolean isSaturday;
35.         public boolean isSunday;
36.
37.         public DataBean() {
38.         }
39.
40.         public DataBean(SettingTimeBean time, boolean isMonday,
41.                         boolean isTuesday, boolean isWednesday, boolean
isThursday,
42.                         boolean isFriday, boolean isSaturday, boolean i
sSunday,
43.                         boolean isEnabled, String clockName) {
44.             this.time = time;
45.             this.isMonday = isMonday;
46.             this.isTuesday = isTuesday;
47.             this.isWednesday = isWednesday;
48.             this.isThursday = isThursday;
49.             this.isFriday = isFriday;
50.             this.isSaturday = isSaturday;
51.             this.isSunday = isSunday;
52.             this.isEnabled = isEnabled;
53.             this.clockName = clockName;
54.             this.weekDays = BleUtils.getBinaryValue(false, isSunday, isSa
turday, isFriday, isThursday, isWednesday, isTuesday, isMonday);
55.         }
56.
57.         public void calculateWeekDays(){
58.             this.weekDays = BleUtils.getBinaryValue(false, isSunday, isSa
turday, isFriday, isThursday, isWednesday, isTuesday, isMonday);
59.         }
60.
61.         public void analysisWeekDays(int weekDaysData) {
62.             this.weekDays = weekDaysData;
63.             this.isMonday = BleUtils.getBinaryBit(weekDays, 0);
64.             this.isTuesday = BleUtils.getBinaryBit(weekDays, 1);
65.             this.isWednesday = BleUtils.getBinaryBit(weekDays, 2);
66.             this.isThursday = BleUtils.getBinaryBit(weekDays, 3);
67.             this.isFriday = BleUtils.getBinaryBit(weekDays, 4);
68.             this.isSaturday = BleUtils.getBinaryBit(weekDays, 5);
69.             this.isSunday = BleUtils.getBinaryBit(weekDays, 6);

```

```
70.         }
71.
72.         public DataBean(SettingMenuProtos.ClockInfo.Data data) {
73.             this.time = new SettingTimeBean(data.getTime());
74.             analysisWeekDays(data.getWeekDays());
75.             this.isEnabled = data.getEnable();
76.             this.clockName = data.getClockName();
77.         }
78.     }
79. }
```