**Platform API interface push protocol**

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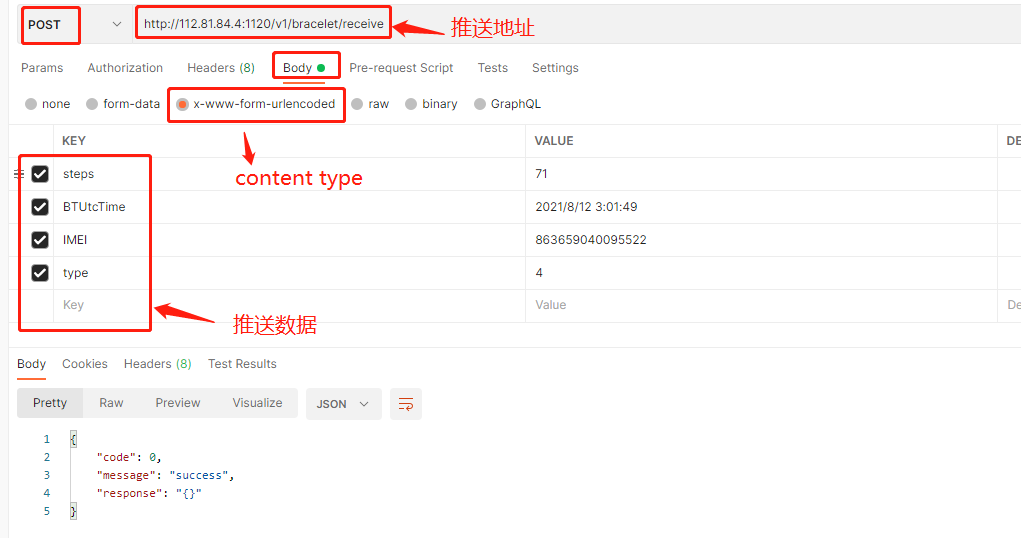
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# 一、Mandatory reading for device data platform push (Post) docking

1. This document will be updated regularly. Please download the latest version from the company website https://www.oviphone.cn/APIAPP/ when connecting. Please read this agreement carefully. You must complete the connection without the technical support of Oviphone Communication. If necessary, Oviphone Communication provides paid technical support.
2. **The customer fills out the "Registration Form" and provides the HTTP URL of their server where they want to receive the data. Oviphone Communication will then push (POST) the relevant device data to this URL.All you need to do is wait to receive the data at your endpoint – you don't need to request anything.(The URL shown in the documentation is just an**

**example.)**



This is how it's pushed in Postman

1. The BTUtcTime field in the push data can be in either of two time formats:2019/8/2 0:15:35 or 2019-08-02 00:01:05 ，Please note these formats when parsing. The time is in 24-hour format.
2. The devices are pre-added to our Oviphone platform before shipment. The subscription server simply needs to receive the data. Additionally, for device management, separate tables can be created to distinguish and facilitate administration.
3. After receiving the data, the customer should parse it according to this document. Debugging can be done by cross-referencing data from Oviphone's platform and mobile apps (APP and mini-program), both of which remain functional in API push mode.  
   a) Most devices default to collecting and reporting health data and location every 10 minutes. Users may adjust this interval (1 minute to 24 hours).  
   b) When the device’s SOS button is pressed, an SOS alert is immediately sent, followed by periodic location tracking. If the previous interval was over 5 minutes, SOS mode switches to 5-minute intervals. If the interval was already ≤5 minutes, the tracking frequency remains unchanged.  
   c) SOS cancellation can be done directly on the device or by the platform sending a new location interval. The alarm mode exits once the device confirms receipt.  
   d) Health data (e.g., heart rate, temperature) and battery level are pushed at the same frequency as the set location interval.  
   e) Location data (GPS, Wi-Fi, Bluetooth, or cellular) provides only one type per timestamp. Depending on device models and firmware versions (e.g., GPS-prioritized, Wi-Fi-prioritized, or BLE-prioritized), positioning methods vary by use case.  
   f) Downlink data for NB-IoT or short-connection GPRS devices can only be fetched/executed during the next uplink (network conditions may cause failures). Long-connection GPRS devices receive downlink data whenever online.  
   g)Pushed data includes: location, alerts, timestamps, messages, health metrics, etc. Not all projects require every data point in this document.
4. The push address server should reply immediately upon receiving the push data, not after processing it. Delaying the response will cause subsequent data to be delayed.
5. During data parsing, you can cross-reference the data and functionality on Oviphone's platform and mobile clients (APP and mini-program).

9、For more integration details and product information, please visit our website: [http://www.oviphone.cn](http://www.oviphone.cn/" \t "https://chat.deepseek.com/a/chat/s/_blank) or follow our WeChat Official Account: "欧孚通信".

Please check the list of frequently asked questions

|  |  |  |
| --- | --- | --- |
|  | **problems** | **Ovi\_response** |
| 1 | What protocol is used for data push and how to implement it? | 1. The client side starts an http service, writes the method body of receiving data, and carries the interface of data.  2. Use http or https protocol |
| 2 | What type of data is pushed over, what type of data is received, and what special transformations or decodings are required? | 1. Data is pushed in the form of strings, without special processing.   2. The string content can be divided according to the specified protocol |
| 3 | How is the incoming data obtained? | Use the post method |
| 4 | Where is the data pushed from, in the body or on the URL? | Put it in formdata |
| 5 | Why is there no data being pushed? | The receiver first uses the postman model to simulate the data sample submitted by our document and pass the test, and then receives the data sent by us   1. The customer should first check whether the server address provided to Oviphone is incorrect, 2. confirm whether there is data on the Oviphone platform, 3. check whether the data parsing is wrong according to the interface document protocol 4. Verify that the server configuration is correct and that there are no restrictions on firewall gateways, etc |
| 6 | Why is the time in the data 8 hours less? | 1. The data transmitted is UTC time, and some are the current time. You can parse it according to the interface protocol document.   2. The data transmitted with 8 hours less is UTC time, and you can add 8 hours by yourself |
| 7 | Why is the GPS position offset when the GPS data is transmitted? | 1. The GPS data is transmitted in the original coordinate system.   2. The customer can correct the GPS positioning by himself |
| 8 | Example Bluetooth location data: 4327@A358@B3@1573682453 | Major value: 4327 in hexadecimal code--> little-endian mode: 2743--> decimal code: 10051 Minor value: A358 in hexadecimal code--> little-endian mode: 58A3--> decimal code: 22691 RSSI value: B3 in hexadecimal code--> int type to decimal: -77 Timestamp: 1573682453--> directly copy the timestamp from Baidu Search Time Stamp Tool to convert it to a specific time; |
| 9 | The API push only pushes the data reported by the device, not the platform function | Platform functions: platform health threshold alarm, longitude and latitude corresponding to Bluetooth beacon |

# 二、Description of data uploaded to the interface by the device

The following data is not used by every product. Please analyze according to the specific product configuration. The actual pushed data is the standard, and refer to the device communication protocol. For docking, please use the Oviphone APP for comparison. Data communication protocol docking document website: https://www.oviphone.cn/APIAPP.

## 2.1 Health

### 2.1.1Health data push set (type=100)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

**BTUtcTime**:yyyy-MM-dd HH:mm:ss

explain：Health Data Set: Body Temperature (wrist temperature, body temperature), Heart Rate, Blood Pressure (diastolic pressure, systolic pressure), Blood Oxygen, Step Count.  
Applicable to universal version 0x32-type message reporting pushes.

**Data sample:**

1. All data are reported as examples, and the actual push data is required

IMEI=868488079852388&BTUtcTime=2024-08-12 5:54:20&steps=451&type=100&heartbeat=92&bodyTemperature=36.7&wristTemperature=33.9&diastolic=81&shrink=113&BloodOxygen=97

1. No blood oxygen report--example, the actual push data is required

IMEI=868488079852388&BTUtcTime=2024-08-12 5:54:20&steps=451&type=100&heartbeat=92&bodyTemperature=36.7&wristTemperature=33.9&diastolic=81&shrink=113

data specification ：

|  |  |  |
| --- | --- | --- |
| IMEI | String | The unique identification number of the device： imei |
| BTUtcTime | String | The UTC time format of the data push is 2018-05-1710:02:40 |
| bodyTemperature | String | (body) temperature |
| wristTemperature | String | Wrist Temperature |
| heartbeat | String | heartbeat |
| diastolic | String | diastolic |
| shrink | String | shrink |
| steps | String | steps |
| BloodOxygen | String | Blood oxygen (the device supports reporting) |
| type | String | 100 represents a set of health data |

### 2.1.2 Step count--Use this (type=4) if only a single data report is available

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

**BTUtcTime**:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**explain：**

Push data at 24 points or reset the wristband each time, and push the data of this device when it is turned on on the same day;

To calculate the data for the day, compare it with the last data. If the data is smaller than the last data, it is determined that the device has been restarted and this data should be added

**Data sample:**

steps=0&BTUtcTime=2018/05/17 10:02:40&IMEI=863137002297055&type=4

|  |  |  |
| --- | --- | --- |
| data specification ：  steps | String | steps |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 4 represents the step count data |

### 2.1.3 Heart rate--Use this (type=6) if only a single data report is reported

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

heartbeat=0&BTUtcTime=2018/05/17 10:02:40&IMEI=863137002297055&type=6

**data specification ：**

|  |  |  |
| --- | --- | --- |
| roll | String | Number of flips [negligible] |
| heartbeat | String | heartbeat |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 6 is the heart rate data 11 is the flip data |

### 2.1.4 Temperature (body temperature) --Use this (type=12) if only a single data is reported

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

bodyTemperature=0&BTUtcTime=2018/05/17 10:02:40&IMEI=863137002297055&type=12

**data specification ：**

|  |  |  |
| --- | --- | --- |
| bodyTemperature | String | Temperature |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 12 is the temperature |

### 2.1.5 Dual temperature (wrist/temperature) --Use this (type=14) if only one data is reported

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

bodyTemperature=36.3&wristTemperature=32.3&BTUtcTime=2020/3/31 9:16:49&IMEI=869006030054362&type=14

**data specification ：**

|  |  |  |
| --- | --- | --- |
| bodyTemperature | String | (body) temperature |
| wristTemperature | String | wristTemperature |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 14 represents temperature |

### 2.1.6 Blood sugar-use of special equipment (type=10)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

bloodSugar=0&BTUtcTime=2018/05/17 10:02:40&IMEI=863137002297055&type=10

**data specification** ：

|  |  |  |
| --- | --- | --- |
| bloodSugar | String | blood sugar |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 10 is for blood sugar |

### 2.1.7 Blood pressure-Use this (type=8) if only a single data report is reported

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

diastolic=73&shrink=115&BTUtcTime=2021/11/16 16:13:46&IMEI=863659045668364&type=8

**data specification ：**

|  |  |  |
| --- | --- | --- |
| diastolic | String | diastolic |
| shrink | String | shrink |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 8 represents blood pressure |

### 2.1.8 Blood oxygen-Use this (type=31) if only a single data report is reported

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

BloodOxygen=95&BTUtcTime=2021-11-16 16:13:46&IMEI=863659045668364&type=31

**data specification ：**

|  |  |  |
| --- | --- | --- |
| BloodOxygen | String | BloodOxygen |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 31 represents blood oxygen |

### 2.1.9 Sleep (type = 58)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

BTUtcTime=2020/4/30 10:59:38&IMEI=863084040001521&startTime=2020/4/30 18:57:30&endTime=2020/4/30 18:59:30&sleeptype=2&minute=2&type=58

**data specification ：**

|  |  |  |
| --- | --- | --- |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| startTime | String | start time：2020/04/30 18:57:30 |
| endTime | String | terminal time ：2020/04/30 18:59:30 |
| sleeptype | String | sleeptype=1；Deep sleep  sleeptype=2；Light sleep  sleeptype=3；Time to wake up |
| minute | String | Sleep duration |
| type | String | Type 58 represents sleep data |

### 2.1.10 UV (specific to equipment) (type=185)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

**data specification ：**

|  |  |  |
| --- | --- | --- |
| BTUtcTime | String | The UTC time format of the data push is 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 185 represents UV ultraviolet |
| UV | String | UV data |

## 2.2 Alarm

### 2.2.1Low battery alarm (type=18)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=18&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 18 represents a low power alarm |
| AlertInfo | String | Equipment alarm information |

### 2.2.2 SOS alarm(type=19)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=19&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=19 represents an SOS alarm |
| AlertInfo | String | Equipment alarm information (01 is the original alarm) |

Once the received type=56 AlertInfo=01 is received, it is an SOS cancellation alarm, see 2.2.10

### 2.2.3 Sedentary Stay Alert(type=36)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=36

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=36 represents the Sedentary Stay Alert |

### 2.2.3 Fall Detection Alert (type=110)(type=110)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=110

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=110 represents a fall alarm |

### 2.2.4Power-off alarm (general)(type=20)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=20&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=20 represents a shutdown alarm |
| AlertInfo | String | Equipment alarm information |

### 2.2.5 Charge shutdown alarm (function is different in firmware version)(type=154)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=154&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=154 represents the alarm for charging and shutdown |
| AlertInfo | String | Equipment alarm information |

### 2.2.6 Low power shutdown alarm (function is distinguished by firmware version) (type=155)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=155&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=155 represents a low power shutdown alarm |
| AlertInfo | String | Equipment alarm information |

### 2.2.7 Active shutdown alarm (function is distinguished by firmware version) (type=156)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=156&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=156 represents an active shutdown alarm |
| AlertInfo | String | Equipment alarm information |

### 2.2.8 Alarm for wearing and removing the wristwatch (type=57)

**Wear your alarm-Data sample:**

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

BTUtcTime =2018-05-17 10:02:40&IMEI=863137002297055&type=57&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=57 represents the alarm is worn |
| AlertInfo | String | Equipment alarm information |

**Remove the alarm-Data sample:**

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

BTUtcTime =2018-05-17 10:02:40&IMEI=863137002297055&type=21&AlertInfo=hello

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=21 represents the removal alarm |
| AlertInfo | String | Equipment alarm information |

**2.2.9 UWB ranging alarm (type=159)**

**UWB测距报警Data sample:**

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTimeyyyy-MM-dd HH:mm:ss

IMEI=864814079995634&BTUtcTime=2024-10-15 09:16:53&AlertInfo=159&type=159

|  |  |  |
| --- | --- | --- |
| BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 159代表是UWB测距报警 |
| AlertInfo | String | Equipment alarm information |

### 2.2.10 SOS cancel(type=56)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime =2018-12-17 10:02:40&IMEI=863137002297055&type=56&AlertInfo=01

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=56 represents the cancellation of SOS |
| AlertInfo | String | Equipment alarm information 01 |

**2.2.11 Device end health threshold alarm (type=200)**

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

IMEI=869020064827429&BTUtcTime=2024-12-27 06:19:39&AlertInfo=200&hmsg=Shrink-1-123&type=200

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=200 represents a health threshold alarm |
| AlertInfo | String | Equipment alarm information:200 |
| hmsg | String | Health data type-0/1-specific value  Health data types: HR: heart rate, T: temperature, Diastolic: diastolic blood pressure, Shrink: systolic blood pressure, BloodOxygen: blood oxygen  0: Less than the health threshold set by the device end 1: Greater than the health threshold set by the device end, the specific value: the health value reported by the device |

Note: The health threshold function needs to be supported by the device firmware. Only when the health threshold is set in the downlink command of the device and the health sampling value is outside the set range, will this push be sent

## 2.3 Device status

### 2.3.1 Battery charge (type=30)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

IMEI=863137002297055&BTUtcTime =2018-05-17 17:59:13& signal=123& battery=20&type=30

Special case: If the data only pushes the signal of 0 and adddatetime (this push is generated by the platform, not reported by the device), and nothing else, it indicates that the device push is disconnected and the device is offline. You can check whether the device is turned off or hibernated

Eg:singal=0&adddatetime=1723544014&IMEI=860761074623873&BTUtcTime=2024-08-1310:13:34&type=30

|  |  |  |
| --- | --- | --- |
| **data specification ：**  BTUtcTime | String | The UTC time format of the data push is: 2018-12-19 04:21:46 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=30 represents battery power data |
| Signal（The actual field pushed is singal） | String | signal value |
| battery | String | Percentage of battery charge |
| steps | String | steps |
| adddatetime | String | Time stamp (seconds) --can not be parsed, select BTUtcTime parsing is ok |

**2.3.2 Charging status (type=66)**

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

IMEI=866380079121777&BTUtcTime=2025/1/14 22:48:36&Status=1&type=66

|  |  |  |
| --- | --- | --- |
| BTUtcTime | String | The UTC time of the data push |
| Status | String | Charging state: 0-start charging, 1-end charging, 2-fully charged |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=66 indicates the charging status |

## 2.4 Location

### 2.4.1GPS Location(type=16)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

IMEI=863137002297055&BTUtcTime=2018-05-17 17:59:13&latStr=31.210463&lngStr=121.606855&speedStr=0&course=0&dataContext=&distance=0&type=16

data specification ：

|  |  |  |
| --- | --- | --- |
| BTUtcTime | String | cThe Beijing time format of the data push with course=0 is: 2018-12-19 04:21:46 and the UTC time of the data push with course=88 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 16 represents GPS data |
| latStr | String | GPS dimension (WGS84 coordinate system) |
| lngStr | String | GPS longitude (WGS84 coordinate system) |
| speedStr | String | The device is set to 0 so it is fixed at 0 |
| dataContext | String | The device is temporarily not transmitting, so it is empty |
| distance | String | The device is set to 0 so it is fixed at 0 |
| course | String | The location type is set to 0--the longitude and latitude reported by gps |

### 2.4.2Wifi Location(type=5)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

timeStr时间格式:yyyy-MM-dd HH:mm:ss

**Data sample:**

IMEI=869029030185937&timeStr=2019-08-12 03:28:24&type=5&Latitude=28.7110078&Longitude=115.8204161

**data specification ：**

|  |  |  |
| --- | --- | --- |
| field | type | represent |
| IMEI | String | The unique identification number of the device: imei |
| timeStr | String | The UTC time format of the data push is: 2018-12-19 04:21:46 |
| Latitude | String | Latitude of the Gaode coordinate system (GCJ-02 coordinate system) |
| Longitude | String | Geodetic coordinate system longitude (GCJ-02 coordinate system) |
| type | String | 5 Represents the value of a wifi data type |

### 2.4.3 Bluetooth BLE (indoor location data)(type=59)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample 1-no beacon charge:**

IMEI=869029030185937

&BTUtcTime=2018-12-17 10:02:40

&type=59

&BTInfo=4327@9757@C9@1565682098|4327@7554@C0@1565682098|4327@7354@BF@1565682098|4327@8857@BC@1565682098|

**Analysis example**：4327@A358@B3@1565682098 major@minor@rssi@time stamp，The corresponding ibeacon beacon code (14-digit digital code on the device) takes 00081005122691 as an example. In this case, 10051 is the major manufacturer code, 22691 is the minor device identification code, and the rssi signal value is a negative number, whose specific value is its complement code

If you need to scan other beacons with specified UUID or MAC address patterns, please contact Oviphone Communication:

eg：4327@9757@C9@1565682098:4327->2743->10051(major),9757->5797->22423(minor),C9->-55,1573682453->2019-08-13 07:41:38

**Data sample 2-Beacon power:**

IMEI=869029030185937

&BTUtcTime=2018-12-17 10:02:40

&type=59

&BTInfo=4327@9757@C9@5A@1565682098|4327@7554@C0@5A@1565682098|4327@7354@BF@5A@1565682098|4327@8857@BC@5A@1565682098|

**Analysis example**：4327@A358@B3@5A@1565682098 major@minor@rssi@Beacon power (percentage)@The timestamp corresponds to the ibeacon beacon code (the 14-digit code on the device）Take 00081005122691 as an example, where 10051 is the major manufacturer code, 22691 is the minor device identification code, and the rssi signal value is a negative number, whose specific value is its complement code

The device defaults to scanning only the Oviphone Bluetooth beacon: UUID (AB8190D5-D11E-4941-ACC4-42F30510B408)

If you need to scan other beacons with specified UUID or MAC address patterns, please contact Oviphone Communication:

Eg：4327@9757@C9@5A@1565682098:4327->2743->10051(major),9757->5797->22423(minor),C9->-55,5A-->90--》90%,1573682453->2019-08-13 07:41:38

Note: If the beacon power is FF, it means that the watch has not obtained the beacon power

Company website: http://www.oviphone.cn or follow the WeChat official account "Oviphone Communication" for specific contact information:

**data specification ：**

|  |  |  |
| --- | --- | --- |
| field | type | represent |
| IMEI | String | The unique identification number of the device: imei |
| BTUtcTime | String | The UTC time format of the data push is: 2018-12-19 04:21:46 |
| BTInfo | String | There are two types: beacon power reporting and non-beacon power reporting  There are two types: beacon power reporting and non-beacon power reporting. The content separated by @ is major@minor@rssi@timestamp. The content separated by @ is major@minor@rssi@beacon power (percentage)@timestamp |
| type | String | Type=59 represents the type value of Bluetooth data |

### 2.4.4 Base station (LBS) positioning data(type=3)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

IMEI=864814079433941&BTUtcTime=2024-11-05 03:44:32&latStr=44.4013042&lngStr=84.7589754&speedStr=0&course=99&dataContext=&distance=0&type=3 url <http://bone-developer-edition.ap5.force.com/services/apexrest/iot>

**data specification ：**

|  |  |  |
| --- | --- | --- |
| BTUtcTime | String | The UTC time format of the data push is: 2018-12-19 04:21:46 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | Type=3 represents base station location data |
| latStr | String | GPS dimension (WGS84 coordinate system) |
| lngStr | String | GPS longitude (WGS84 coordinate system) |
| speedStr | String | The device is set to 0 so it is fixed at 0 |
| dataContext | String | The device is temporarily not transmitting, so it is empty |
| distance | String | The device is set to 0 so it is fixed at 0 |
| course | String | The default value of location type is 99--which indicates the longitude and latitude (WGS84 coordinate system) of base station positioning resolution |

Note: The LBS positioning mode of NBIOT device base stations is not supported for the time being. In China, NBIOT devices use the DOA mode for LBS, and users need to obtain LBS positioning data from the operator platform. China Telecom charges 0.1 yuan per location query. For more details, please contact the relevant personnel at Oviphone.

### 2.4.5 UWB Location（type=160）

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

IMEI=864536079578959

&BTUtcTime=2024-12-21 03:45:41

&UWBDes=00000538@229@2024-12-21 03:45:41|03000039@241@2024-12-21 03:45:41|00000632@432@2024-12-21 03:45:41|0000052B@486@2024-12-21 03:45:41|

&type=160

example：00000538@229@2024-12-21 03:45:41|03000039@241@2024-12-21 03:45:41|00000632@432@2024-12-21 03:45:41|0000052B@486@2024-12-21 03:45:41|

UWB beacon ID: 00000538; distance: 229 cm; reported time: 2024-12-21 03:45:41.

UWB beacon ID: 03000039; distance: 241 cm; reported time: 2024-12-21 03:45:41.

UWB beacon ID: 00000632; distance: 432 cm; reported time: 2024-12-21 03:45:41.

UWB beacon ID: 0000052B; distance: 486 cm; reported time: 2024-12-21 03:45:41

data specification ：

|  |  |  |
| --- | --- | --- |
| field | type | represent |
| IMEI | String | The unique identification number of the device: imei |
| BTUtcTime | String | The UTC time format of the data push is: 2018-12-19 04:21:46 |
| UWBDes | String | The UWB positioning information is reported with the timestamp of UTC time uwb beacon ID @ distance (cm) @ time |
| type | String | 160 represents the UWB positioning data type value. Currently, only minute level is supported |

## 2.5 Special push-special equipment or version support

### 2.5.1Anti-tampering bracelet (alarm when wearing/removing, unlocking, watch strap damage, etc. -unique to anti-tampering bracelet)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime=2018-12-17 10:02:40&IMEI=863137002297055&AlertInfo=19&type=57

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 57 is the wearing,  21 is the removal of  38 lock open  39 strap damage |
| AlertInfo | String | 19 is wearing, 65 is removing, 140 is unlocking, and 141 is watch band damage |

### 2.5.2 Sleep in, sleep out, park in and out without signal (specific to a particular device) (type=51)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

BTUtcTime=2023-08-14 02:53:02&IMEI=862451050468703&type=51

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 51 Representative sleep in  52 Sleep out  57 Enter the park  58 Out of the park  91 No signal |
| AlertInfo | String | No Signal（type=91） |

### 2.5.3 Check-in (device specific) (type=24)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTimeyyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

BTUtcTime=2018/05/17 10:02:40&IMEI=863137002297055&type=24

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 24 is a sign-in |

### 2.5.4 Check out (device specific) (type=25)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss or yyyy/MM/dd HH:mm:ss

**Data sample:**

BTUtcTime=2018/05/17 10:02:40&IMEI=863137002297055&type=25

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 25 is sign-out |

## 2.6 Platform function push

### 2.6.1 Fence alarm push (type=1)

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

BTUtcTime:yyyy-MM-dd HH:mm:ss

**Data sample:**

IMEI=862451050468703&BTUtcTime=2023-08-14 02:53:02&AlertInfo=1&type=1&Fenceid=11@Fencename=围栏1@Status=entry

|  |  |  |
| --- | --- | --- |
| data specification ：  BTUtcTime | String | The UTC time format of the data push is 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| type | String | 1 represents entering the fence, and 2 represents leaving the fence |
| AlertInfo | String | Equipment alarm information |
| Fenceid | String | Fenceid |
| Fencename | String | Name of fence |
| Status | String | The state of the fence is entry (inside the fence) and out (outside the fence) |

Note: The device needs to bind the account on the platform and set the device fence or account fence to receive this push

**2.7 Command Delivery Feedback**

**2.7.1 Text message feedback (type=180)**

Url：<http://bone-developer-edition.ap5.force.com/services/apexrest/iot>(Used for example, not real url)

RecTime: yyyy-MM-dd HH:mm:ss

Data sample:

IMEI=864814074715128&Status=Yes&SeriNo=73C94767&RecTime=2024-11-28 01:38:12&type=180 url <http://bone-developer-edition.ap5.force.com/services/apexrest/iot>

IMEI=864814074715128&Status=No&SeriNo=89C94767&RecTime=2024-11-28 01:38:34&type=180 url <http://bone-developer-edition.ap5.force.com/services/apexrest/iot>

|  |  |  |
| --- | --- | --- |
| RecTime | String | The UTC time format of the data push is 2018/05/17 10:02:40 or 2018-05-17 10:02:40 |
| IMEI | String | The unique identification number of the device: imei |
| Status | String | Yes: Click accept after receiving the text message,  No: Click reject after receiving the text message |
| SeriNo | String | Text message ID-hexadecimal |
| type | String | 180：Text message status feedback |

Note: This push notification requires the device firmware to support text message click-to-accept and reject. The cloud platform directly sends or calls the NT11/NT13 interface to send text messages. The ID of the text message is generated based on the timestamp, and the IDs of consecutive messages are incrementally increasing. For text messages sent via the NT12 interface, the feedback ID is the ID of the message sent at that time (in hexadecimal).

# 三、The platform issues instructions to the device interface

## 3.1 NB/4G device instruction downlink description

Call [Command/ SendNbCommand] to issue instructions to modify the reporting frequency of NB/4G devices. The interface is directly called on the platform to issue instructions, without login and other operations;

**Call method**

POST

**Interface path----Note: A large number of interface calls need to be explained in advance, and the device issuing instructions must be online. Note: The interface is limited to a maximum of 20 calls within 1 minute, and the device's downlink instructions are valid for 2 hours (assuming that the device does not communicate with the server but sends downlink instructions, the instructions are reserved for 2 hours and will be cleared after expiration)**

http://www.aiday.com.cn:10502/api/Command/SendNbCommand

**parameter declaration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| parameter | Mandatory/optional | type | location | represent |
| CmdCode | required | String | Body | Instruction codes (see table below) |
| Params | required | String | Body | Command parameters (see table below) |
| IMEI | required | required | Body | Device IMEI number |
| CheckCode | required | required | Body | Security verification code |

|  |  |  |  |
| --- | --- | --- | --- |
| Issue a list of instructions | | | |
| command function | CmdCode | Params | Description of command parameters |
| Set the scheduled positioning frequency (NB device) | NB01 | Params='1,5,00:30,23:59' | 1, // open  5 " // Time interval, set within one day, at least one minute, 00:30,  // Start time (24-hour format) 23:59,  // End time (24-hour format),  // None Unit: minutes (Note: When uploading, hours must be converted to minutes for upload) |
| Set the timing and positioning frequency (4g device) | NT01 | Params='1,0000,2302,1234567,1,3' | 1, //open  000 // Start time  2302 // End time  1234567 // Fixed value  1 // Fixed value  3 // Positioning frequency, unit minutes (Note: hours must be converted to minutes when uploading) |
| Deletes timing and positioning frequency (supported by special firmware version) | NB01 | Params='1 ' | Set the time of the frequency |
| Set temperature alarm threshold (supported by special firmware version) | NB02 | Params='1,-2,37 ' | 1: open; -2: minimum temperature 37: maximum temperature |
| Heart rate alarm threshold setting (supported by special firmware version) | NB03 | Params='1,26,30' | 1: Start; 26: Minimum heart rate 30: maximum heart rate |
| Heart rate detection cycle Settings (supported by special firmware versions) | NB04 | Params='1,62' | 1: Start; 26: Minimum heart rate 30: maximum heart rate |
| Temperature detection cycle setting (supported by special firmware version) | NB05 | Params='1, 65' | 1: On; 65: Time interval (minutes) |
| NB heartbeat (supported by a special firmware version) | NB06 | Params='1, 60' | 1: On; 60: Time interval (minutes) |
| NB Oxygen and blood glucose threshold setting (supported by special firmware version) | NB09,NB0A | Params='1,90,95,5' | Type 1: blood oxygen 2 blood sugar |
| NB Family number Settings (supported by special firmware version) | NB0B | Params='小明,12345678900,小雪,12345678900' |  |
| NB device operating mode (supported by special firmware version) | NB0C | Params='1，1,1023,2345 ' | Type: 1 Indoor 2 Outdoor 3 Inpatient 4 Home Use time period 1 Use 0 Not use |
| Function positioning of NB devices | NB0D | "Params":"1,0,3-2-1" | 1. -gps 2. -wifi   3--Bluetooth beacon  6-uwb beacon (requires equipment support for UWB)  3-2-1: represents Bluetooth first, wifi second and GPS positioning |
| Function positioning of 4G equipment | NT0D | "Params":"1,0,3-2-1" | 1-gps  2-wifi  3--Bluetooth beacon  6-uwb beacon (requires equipment support for UWB)  3-2-1: represents Bluetooth first, wifi second and GPS positioning |
| Name setting (supported by special firmware version) | NB0E | Params='IMEI，张三 ' | The IMEI is followed by the content |
| Message Settings (Supported by special firmware versions | NB0F | Params='timing,position,event. ' | Order is adjustable and uncontrollable |
| Issued from the watch (common to NB devices) | NB11 | "Params":"3|test009" | NB The message is sent; "3|" is fixed and followed by the message content |
| The watch is issued (for the 4G simplified version) | NT11 | "Params":"3|test009" | The message of the watch is sent; "3|" is fixed and followed by the message content |

|  |  |  |  |
| --- | --- | --- | --- |
| The watch sends (for the 4G simplified version) --text messages with message ID | NT12 | "Params":"3|Message id|test009" | The message of the 4G watch is sent; "3|" is fixed, followed by the message ID, and the message content follows the message ID. Message ID: 10-bit, ranging from (0-4294967295). When multiple text messages are sent by the same device, the ID cannot be repeated |
| The watch is issued 2 (the traditional version uses--the language interface can be switched to check whether it supports traditional) | NT13 | "Params":"Message content" | UNICODE encoded text messages are sent to W200PG, Hong Kong general version-W300G, general version |
| Healthy sampling frequency is issued (device firmware needs to support) | NT18 | "Params": "2,0,0-2-0" | Instruction parameter [2,0,0-3-0"] 2, health 0, --long term 0-3-0 The first position is 0: health the second position is 3: interval time (the minimum is 2 minutes for devices with blood oxygen) the third position is 0-minutes, 1-hour |
| Equipment sitting alarm trigger time | NT16 | "Params": "2" | Command parameter: Minute: Range: 2-60 minutes, the rest is invalid |
| Equipment drop sensitivity issued (refers to the degree of compliance with the fall algorithm) | NT39 | "Params": "0,1" | Instruction parameters: 0,1 0 means the sensitivity of falling, 1 means the sensitivity level is low (range 0-4) 0-4: low-medium low-medium-medium high-high |
| Equipment triggers the drop alarm height (refers to the height that meets the trigger fall alarm) | NT40 | "Params": "1,1" | Instruction parameters: 1,1 1 indicates the height to trigger the fall alarm 1 indicates the specific level, 1 corresponds to the height of 1.0m,0 corresponds to the height of 0.5m (0-4):0.5m-1.0m-1.5m-2.0m-2.5m |
| GPS constant on switch (the GPS interface is always on after opening, which can speed up GPS positioning in general environment, and the power consumption will increase after opening) requires the device firmware to support this function | NT51 | “Params”:“24,0” | Instruction parameters: 24,0 24 represents the internal on-going open interface of gps 0: represents the on-going open of gps, which will increase the power consumption 2: represents the on-going close of gps--the default is off, which does not affect positioning in normal environment |

**示例：**

Method：POST

request：

http://www.aiday.com.cn:10502/api/Command/SendNbCommand

Content-type:application/json

{

"CmdCode":"NT01",

"Params": "1,0000,2302,1234567,1,3",

"IMEI":"867726035705658",

"CheckCode":"xxxxxx"

// Note: xxxx needs to request the verification code according to the push address to obtain it. Please refer to section 3.2 for details}

Return:

{

"Content": "OK",

"Message": “指令已下发至平台【注:20241001起指令下发新增必填校验参数CheckCode,该参数请通过接口http://www.aiday.com.cn:10502/api/Command/searchCheckCodeByUrl 方法体{'PushUrl':'您的推送地址'}获取或查看欧孚最新推送文档】”

"State": 0

}

Call the interface to feedback:

1. The instruction was sent successfully

"Content": "OK",

"Message": “指令已下发至平台【注:20241001起指令下发新增必填校验参数CheckCode,该参数请通过接口http://www.aiday.com.cn:10502/api/Command/searchCheckCodeByUrl 方法体{'PushUrl':'您的推送地址'}获取或查看欧孚最新推送文档】”

"State": 0

3.2024-10-01后，CheckCode为空

"State": 300

"Content": "校验码验证失败，请检查后再试！",

4.Number of calls: The premise is that it is issued more than 20 times per minute

"State": 500

"Content": "下发失败，超过每分钟20次最大请求次数请稍等一分钟再试！",

5.The verification code is incorrect. The verification code is entered but the verification fails

"State": 300

"Content": "校验码验证失败，请检查后再试！",

1. The device has not reported data for 12 hours, the platform status is offline, there is no communication, the platform cannot send down commands, and the device cannot receive down commands

“Content”:”下发失败，设备已离线请检查后再试!”

“State”: 0

## 3.2 Security verification code acquisition

Get the verification code from the push address. Call method: post

<http://www.aiday.com.cn:10502/api/command/searchCheckCodeByUrl>

**parameter declaration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| parameter | Mandatory/optional | type | position | represent |
| PushUrl | required | String | Body | Provide the delivery address to customers |
| CheckCode | null | String | In the returned Info | Security verification code |

Method：POST

request：<http://www.aiday.com.cn:10502/api/command/searchCheckCodeByUrl>

Content-type:application/json

{

"PushUrl":"http://106.54.41.177:8101/badge/data/api/push"

}

返回:

{

"Info": {

"PushUrl": "http://106.54.41.177:8101/badge/data/api/push",

"CheckCode": "320020931c14f05fedddff967067092a"// Security check code

},

"Message": "查询成功！",

"State": 200

}

Call the interface to feedback:

1.The query failed and the push address was not entered

"Message": "查询失败，推送地址未录入!",

"State": 300

2.The query was successful

"Message": "查询成功！",

"State": 200

3.Not http or https protocol, just a random string

"Message": "查询失败，请录入有效的推送路径!",

"State": 600

4.The call exceeds the number of times

"Message": "查询失败，超过每分钟20次最大请求次数请稍等一分钟再试！",

"State": 500