

iHealth Open API V2 Protocol User Guide

Created

by

iHealth Lab, Inc

Content Table

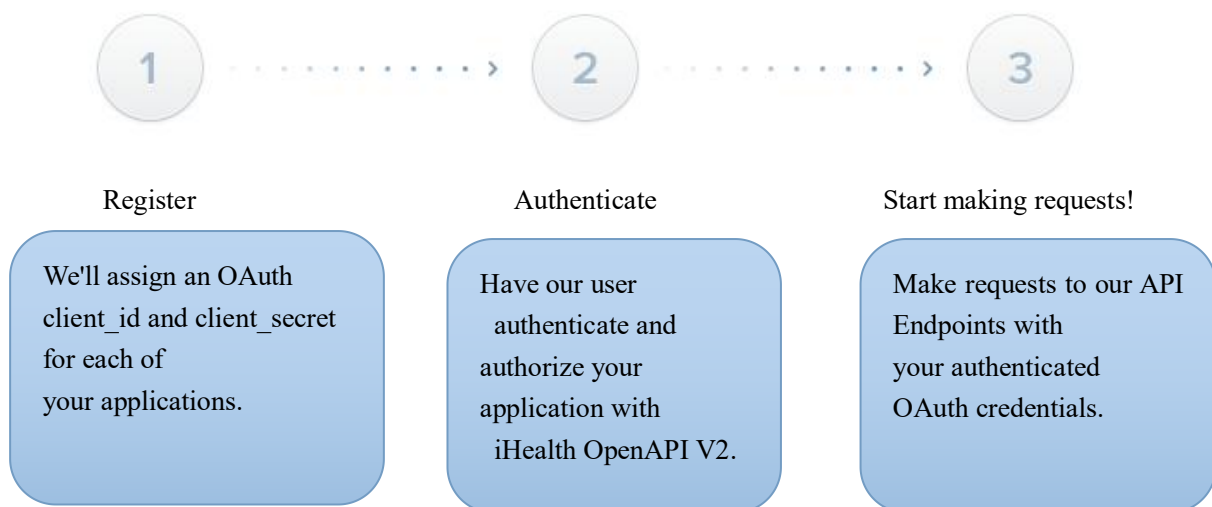
1. Instructions.....	3
2 Authentication.....	4
3.Response Format And Errors.....	10
4.Unit Definitions.....	13
5.Localization.....	15
6.User Profile & Settings.....	16
7.Getting iHealth Data.....	21
7.1 Request for data of Blood Pressure.....	22
7.2 Request for data of Weight.....	33
7.3 Request for data of BG.....	45
7.4 Request for data of Blood Oxygen.....	55
7.5 Request for data of Activity Report.....	65
7.6 Request for data of Sleep Report.....	75
7.7 Request for data of Food.....	86
7.8 Request for data of Sport Report.....	92
8. iHealth Subscriptions API (PubSub).....	99
9. iHealth Push API.....	101
9.1 Push data of Blood Pressure.....	101
9.2 Push data of Weight.....	102
9.3 Push data of BG.....	103
9.4 Push data of Blood Oxygen.....	104
9.5 Push data of Activity Report.....	106
9.6 Push data of Sleep Report.....	107
9.7 Push data of Food.....	108
9.8 Push data of Sport Report.....	109
10.Libraries & Examples.....	110

1. Instructions

The iHealth OpenAPI V2 allows developers to interact with iHealth's data in their own applications, products and services.

The API allows for most of the read and write methods that you will need to support your application. If you have uses or needs that are not currently supported by the API, drop by the Dev Forum and let us know! We look forward to working closely with the development community to make the iHealth OpenAPI V2 a system that enables you to do awesome, mind blowing stuff.

Getting Started



[Download iHealth OpenAPI V2 User Guide](#)

2 Authentication

iHealth OpenAPI V2 uses the [OAuth 2.0](#) protocol for simple, but effective authentication and authorization. OAuth 2.0 is much easier to use than previous schemes; developers can start using the iHealth OpenAPI V2 almost immediately. The one thing to keep in mind is that all requests to the API must be made over SSL (https:// not http://)



Do you need to authenticate?

For the most part, iHealth's API only requires the use of a **client_id**. A **client_id** simply associates your server, script, or program with a specific application. However, some requests require authentication - specifically requests made on behalf of a user. Authenticated requests require an **access_token**. These tokens are unique to a user and should be stored securely. Access tokens may expire at any time in the future.

Receiving an access_token

In order to receive an **access_token**, you must do the following:

1. Direct the user to our authorization url.
 - If the user is not logged in, they will be asked to log in.
 - The user will be asked if they'd like to give your application access to his/her iHealth data.
2. The server will redirect the user in one of two ways that you choose:

- **Server-side flow (recommended):** Redirect the user to a URI of your choice. Take the provided **code** parameter and exchange it for an **access_token** by getting the code to our **access_token** url.

Server-side (Explicit) Flow

Using the server-side flow is quite easy. Simply follow these steps:

Step One: Direct your user to our authorization URL

The URL the 3rd party company would use for their user authorization,

<https://api.ihealthlabs.com:8443/OpenApiV2/OAuthv2/userauthorization/>

meanwhile, there are some parameters should come along with the URL above,

Required Parameters:

Parameter	Description
client_id	The ID for the client request(From the 3 rd party company)
response_type	The type of request, it is required. The value is 'code'. Based on the OAuth 2.0, this will be used in the first stage, to request more parameters that are used in the future stages. (Please see section 1.1.1)
redirect_uri	Your redirect URI's host and path MUST match exactly (including trailing slashes) to your registered redirect_uri. You may also include additional query parameters in the supplied redirect_uri, if you need to vary your behavior dynamically.
APIName	The API name has one or more value, they should be separated by space

Note that your redirect URI's host MUST match exactly (including trailing slashes) to your registered redirect_uri. You may also include additional query parameters in the supplied redirect_uri, if you need to vary your behavior dynamically. Examples:

[http:// yourcallback.com/?this=that](http://yourcallback.com/?this=that) =>(URL encode)

<http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat>

Optional Parameters :

Parameter	Description
RequiredAPIName	The input format is the same as APIName. When displayed in the authentication page, it is must be selected
IsNew	If the value of parameter is "true", the system will be auto redirected to the sign up page.

The sample of the request:

https://api.ihealthlabs.com:8443/OpenApiV2/OAuthv2/userauthorization/?client_id=4cdeb7844e*

[***&response_type=code&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&APIName=OpenApiBP&RequiredAPIName=OpenApiBG+OpenApiBP&IsNew=true](http://yourcallback.com/?code=KmjusqGHFPrrf8j*****&this=that&APIName=OpenApiBP&RequiredAPIName=OpenApiBG+OpenApiBP&IsNew=true)

Step Two: Receive the redirect from iHealth OpenAPI

Once a user successfully authenticates and authorizes your application, we will redirect the user to your `redirect_uri` with a `code` parameter that you'll use in step three.

Parameter	Description
code	It is used to get the value of AccessToken. It is expired after 10 minutes

The sample of the response:

http://yourcallback.com/?code=KmjusqGHFPrrf8j*****&this=that

Note that your redirect URI's host and path MUST match exactly (including trailing slashes) to your registered `redirect_uri`. You may also include additional query parameters in the supplied `redirect_uri`, if you need to vary your behavior dynamically. Examples:

REGISTERED REDIRECT URI	REDIRECT URI SENT TO /AUTHORIZE	VALID?
http://yourcallback.com/	http://yourcallback.com/	yes
http://yourcallback.com/	http://yourcallback.com/?this=that	yes
http://yourcallback.com/?this=that&another=true	http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat%26another%3dtrue	no
http://yourcallback.com/?this=that&another=true	http://yourcallback.com/?this=that&another=true	no
http://yourcallback.com/callback	http://yourcallback.com/callback/?type=mobile	yes

If your request for approval is denied by the user, then we will redirect the user to your `redirect_uri` with the following parameters:

`error: access_denied`

`error_description: The user denied your request`

`http://your-redirect-uri?error=access_denied&error_description=The+user+denied+your+request`

It is your responsibility to fail gracefully in this situation and display a corresponding error message to your user.

Step Three: Request the access_token

In the previous step, you'll have received a code which you'll have to exchange in order to receive an `access_token` for the user. In order to make this exchange, you simply have to pass this code, along with some app identification parameters to our `access_token` endpoint.

The Request Content

The request url:

<https://api.ihealthlabs.com:8443/OpenApiV2/OAuthv2/userauthorization/>

Required Parameters:

Parameter	Description
client_id	Your client id
client_secret	Your client secret
grant_type	authorization_code is currently the only supported value
redirect_uri	Your redirect URI's host and path MUST match exactly (including trailing slashes) to your registered redirect_uri. You may also include additional query parameters in the supplied redirect_uri, if you need to vary your behavior dynamically.
code	The exact code you received during the authorization step.

Optional Parameters:

Parameter	Description
client_para	The same value to request. If it is not defined by request, the result will be an empty string

The sample of the request

https://api.ihealthlabs.com:8443/OpenApiV2/OAuthv2/userauthorization/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&grant_type=authorization_code&redirect_uri=http%3a%2f%2f+yourcallback.com%2f%3fthis%3dthat&code=xpoBt0ThQQ*****&client_para=xxx

The Response Content

After the request is verified by iHealth OpenAPI V2, the information of AccessToken will be sent out to 3rd party company in the format of .json, the details are:

Parameter	Description
APIName	The authorized API name
AccessToken	The token for access
Expires	The expired time of AccessToken
RefreshToken	A new AccessToken will be applied after the old one is expired. The new AccessToken, Expires, and APIName will be coming with the RefreshToken
UserID	Unique Identifier
client_para	The same value to request. If it is not defined by request, the result will be empty string

The sample of the response

```
{
  "APIName": "OpenApiWeight OpenApiBPLittle OpenApiWeightLittle OpenApiActive
OpenApiBG OpenApiSpO2",
  "AccessToken": wo*PaoQkLMSdkV-Zqx-53jTPdgnF02gUUHoYzQo"*****",
  "Expires": 172800,
  "RefreshToken": "vGQentnJBO1kz9WNGBYGAPyqXE5CvKCRaMcF"*****",
```

```
"UserID": "05dffbe0dd*****",  
"client_para": "xxx"  
}
```

Sending RefreshToken and requesting new AccessToken

The Request Content

RefreshToken is used to acquire the new AccessToken after the old one expired.

The process is to transfer the parameters below to iHealth OpenAPI V2 server.

The url is: <https://api.ihealthlabs.com:8443/OpenApiV2/OAuthv2/userauthorization/>

After the processing, our server will send the new AccessToken, in format of JSON, back to the redirect_uri.

Required Parameters:

Parameter	Description
client_id	The ID for the client request
client_secret	The key for the request
redirect_uri	That your redirect URI's host and path MUST match exactly (including trailing slashes) to your registered redirect_uri. You may also include additional query parameters in the supplied redirect_uri, if you need to vary your behavior dynamically.
response_type	The type of request, it is required. The value is 'refresh_token'. This parameter is for AccessToken request (Please see the section 1.3.1)
refresh_token	The key for the request of AccessToken The latest RefreshToken from 1.2.2 returned value or from 1.3.2 returned value.
UserID	Unique Identifier

Optional Parameters :

Parameter	Description
client_para	The same value to request. If it is not defined by request, the result will be empty string

The sample of request

https://api.ihealthlabs.com:8443/OpenApiV2/OAuthv2/userauthorization/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&response_type=refresh_token&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&refresh_token=xpoBt0ThQQ*****&client_para=xx
[x](#)

The Response Content

The following is the detail description of the returning messages (same as 1.2.2)

Parameter	Description
APIName	The authorized API name
AccessToken	The token for access
Expires	The expired time of AccessToken
RefreshToken	A new AccessToken will be applied after the old one is expired. The new AccessToken, Expires, and APIName will be coming with the RefreshToken.
client_para	The same value to request. If it is not defined by request, the result will be empty string.

The sample of the response

```
{
  "APIName": "OpenApiWeight OpenApiBPLittle OpenApiWeightLittle OpenApiActivity
OpenApiBG OpenApiSpO2",
  "AccessToken":
"gfd21mA0k4u95xLS2TccG-eSKWHFJivlHkuNbXh-ww0Xny69-8**MDX0*****",
  "Expires": 172800,
  "RefreshToken":
"5T-NU0kTQom9Pkb48DkjgEQ9dGX0-v5JZS7Db-C7itBgFQzBdpZ*EXqA*****",
  "UserID": "05dffbe0dd*****",
  "client_para": "xxx"
}
```

An interface for unbundling openapi authorization application

The url is: <https://api.ihealthlabs.com/OpenApiV2/user/unbinding.json/xml>

Request type:Post(Content-Type:application/x-www-form-urlencoded)

Required Parameters:

Parameter	Description
client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access

Optional Parameters:

Parameter	Description
client_para	The same value to request. If it is not defined by request, the result will be an empty string

The sample of request

```
client_id=59451358deed42948*****&client_secret=ce4ff9a6c5c44*****&client_para=123&access_token=*****4LefbUx8*****6frCebtmGtGoObPpohy*3
```

The Response Content

Parameter	Description
BackValue	
Error	name of the message
ErrorCode	number
ErrorDescription	the detail description of this message
Client_Para	The same value to request. If it is not defined by request, the result will be an empty string

The sample of the response

```
{
  "BackValue": "success",
  "Error": "success",
  "ErrorCode": 0,
  "ErrorDescription": "success"
  "Client_Para": "123"
```

```
}
```

3.Response Format And Errors

Success

Versioning

We will maintain collections of existing fields as well as their format through the complete lifecycle of version 1 of the API. However, the API is still in BETA and from time to time we may need to extend existing endpoints by introduction of new fields to keep them up to date with improvements to iHealth platform. Still, keep in mind that best practice for your application's response parser would be to stay loose and don't fail validation if it sees extra fields.

Response

When the response returns data in addition to a status code, the body contains the data.

Status code:	200 OK (GET/POST requests)
Content-Type:	<i>text/xml</i> or <i>application/json</i>
Body:	Response in the format requested: JSON or XML

Response Body Format

JSON:

```
{  
  <data>  
}
```

XML:

```
<?xml version="1.0" encoding="UTF-8"?>  
< DownloadUserInfoDataEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/  
  [data]  
</DownloadUserInfoDataEntity>
```

Error

When an error occurs during the request, iHealth OpenAPI will return the error message as the following:

Error: name of the error message

ErrorCode: error number

ErrorDescription: the detail description of this error message

```
{  
  "Error": "invalid_APIName",
```

```

    "ErrorCode": 5004,
    "ErrorDescription": "APIName is invalid"
  }

```

The table below shows all the error messages:

Error Message

Error Code	Error	Error Description
0000	success	success.
0001	access_denied	The server refuses the client request.
0002	is_not_authorized	Unauthorized.
0003	SC_or_SV_is_not_authorized	Sc or sv is unauthorized.
1001	redirect_uri_mismatch	The request for redirected URL is mismatch.
1002	client_secret_mismatch	The key for the request is mismatch.
2001	unauthorized_client	Client is unauthorized.
2002	unauthorized_token	Token is Unauthorized.
2003	unauthorized_APIName	APIName is unauthorized.
3001	unsupported_time_range	The start_time parameter is out of range.
3002	unsupported_user_id	User_id is not exist.
3003	unsupported_page_index	The page_index parameter is unsupported.
3004	unsupported_grant_type	The grant_type parameter? is unsupported.
3005	unsupported_response	The response is not unsupport.
3006	unsupported_response_type	The response_type parameter is not unsupport.
4001	expired_token	Token is expired.
4002	revoked_token	Token is revoked.
4003	unknown_token	Token is unknown.
4004	used_token	Token is used by others.
5001	invalid_client	Client_id is invalid.
5002	invalid_grant	AccessGrant is invalid.
5003	invalid_request	The required parameters is not enough.
5004	invalid_APIName	APIName is invalid.
5005	invalid_secret	The client_secret parameter is invalid.
5006	invalid_redirect_uri	invalid_redirect_uri.
5007	invalid_user	invalid_user.
5008	ip_user	Unauthorized users_ip.
5009	repeat_username	repeat_username.

200	out_of_range	Parameter out of range.
201	user_not_exist	The user does not exist.

4. Unit Definitions

Unit is set based on the type of language; there are four different types of options,

Name	Description
default	Provided by iHealth APIs system
en_US	U.S. general unit
en_UK	English general unit
user	User preference

The details of types of units,

default

Name	Unit
HeightUnit	cm
WeightUnit	kg
BPUnit	mmHg
BGUnit	mg/dl
FoodUnit	g
DistanceUnit	km

en_US

Name	Unit
HeightUnit	feet
WeightUnit	lbs
BPUnit	mmHg
BGUnit	mg/dl
FoodUnit	oz
DistanceUnit	mile

en_UK

Name	Unit
HeightUnit	cm
WeightUnit	stone
BPUnit	mmHg
BGUnit	mmol/l
FoodUnit	g
DistanceUnit	km

HeightUnit

Unit	Value
cm	0
feet	1

WeightUnit

Unit	Value
kg	0
lbs	1
stone	2

BPUnit

Unit	Value
mmHg	0
KPa	1

BGUnit

Unit	Value
mg/dl	0
mmol/l	1

FoodUnit

Unit	Value
oz	0
g	1

DistanceUnit

Unit	Value
km	0
mile	1

The unit type depends on the preferences the user sets from iHealth cloud / App, it will return the unit that the user sets.

5. Localization

Currently we support the following list of locales (similar to the list of the website's local versions):

Name	Description
en_US	United States
en_UK	United Kingdom

6. User Profile & Settings

6.1 Application interface: OpenApi UserInfo

Provide user profile, some specific user preferences, and some additional related information.

The Request Content

iHealth OpenAPI V2

The request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of userinfo.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
backtype	Json/xml	Set the returned result to json or xml
locale	Default(example in Appendix)	Set the locale / units returned

The sample:

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****.json/?client_id=ddb9cbc759***&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fhis%3dthat&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=59bb35f102*****&locale=en_US

The Response Content

The following table shows the description of all the returning parameters:

Parameter	Description
HeightUnit	Height unit(The explanation of value)
WeightUnit	Weight unit(The explanation of value)
dateofbirth	User birthday
gender	User gender

height	User height
logo	User portrait
nickname	User nickname
userid	Uniquely identifies the user
weight	User weight

The sample :

```
{
  "HeightUnit":0,
  "WeightUnit":0,
  "dateofbirth":1362355200,
  "gender":"Male",
  "height":181,
  "logo":"https%3a%2f%2fcloud.ihealthlabs.com%2flogos%2fb1110e7c79987ca9716fccd2203
bd288.png",
  "nickname":"494*****Wqq.com",
  "userid":"05dffbe0dd*****",
  "weight":100.01723653055856
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<DownloadUserInfoDataEntity xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" >
  <HeightUnit>0</HeightUnit>
  <WeightUnit>0</WeightUnit>
  <dateofbirth>1362355200</dateofbirth>
  <gender>Male</gender>
  <height>181</height>
  <logo>https%3a%2f%2fcloud.ihealthlabs.com%2flogos%2fb1110e7c79987ca9716fccd2203
bd288.png</logo>
  <nickname>494*****Wqq.com</nickname>
  <userid>05dffbe0dd*****</userid>
  <weight>100.01723653055856</weight>
</DownloadUserInfoDataEntity>
```

6.2 Application interface: Get All UserInfo

Provide user profile, some specific user preferences, and additional related information.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/userinfo.json/>

Important,

In the URL, the value of userinfo.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters

Parameter	Default	Description
start_time	Datetime now	The Unix time of when the userinfo data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is seconds) When it is null, the userinfo data would start from one year ago
page_index	First page	The page index of data, which starts from 1
end_time	Over the past year	The Unix time of when the userinfo data ends, it must be later than start_time. ex: 1331554332
backtype	Json/xml	Set the returned result to json or xml
locale	Default(example in Appendix)	Set the locale / units returned

The sample:

https://api.ihealthlabs.com:8443/openapiv2/application/userinfo.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2f+yourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=59bb35f102*****&locale=en_US

The Response Content

The following table shows the description of all the returning parameters:

Parameter	Description
UserInfoList	The data detail of userinfo userid: unique identity of user nickname: nickname of user gender: gender of user height: height of user weight : weight of user dateofbirth: dateofbirth of user

	logo:Avatar logo
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
HeightUnit	HeightUnit(The explanation of value)
WeightUnit	WeightUnit(The explanation of value)

The sample :

JSON:

```
{
  "CurrentRecordCount": 1,
  "HeightUnit": 1,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fapplication%2fuserinfo.json%2f%3f%26client_id%3d952f37*****%26client_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxpoBt0ThQQ*****%26start_time%3d1342006062%26end_time%3d1405078062%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d90f0793451*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 80,
  "UserInfoList": [
    {
      "userid": "00da89f1405e479782528afeed5*****",
      "nickname": null,
      "gender": "Female",
      "height": 13.77952755905495,
      "weight": 220.5002622300716,
      "dateofbirth": 633225600,
      "logo":
        "https%3a%2f%2fcloud.ihealthlabs.com%2flogos%2fb1110e7c79987ca9716fccd2203bd288.png"
    }
  ],
  "WeightUnit": 1
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
```

```

<DownloadUserDataResultEntity
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"xmlns:xsd="http://www.w3.org/2001/
XMLSchema" >
<CurrentRecordCount>1</CurrentRecordCount>

<NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fapplication%2fuserinfo.xml%2f
%3f%26client_id%3d952f37*****%26client_id%3dddb9cbc759*****%26client_secret%3d473
8f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx
%26access_token%3dxpoBt0ThQQ*****%26start_time%3d1342006062%26end_time%3d14050
78062%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d90f0793451*****</NextPag
eUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl/>
  <RecordCount>80</RecordCount>
  <HeightUnit>1</HeightUnit>
  <WeightUnit>1</WeightUnit>
  <UserInfoList>
    <DownloadUserDataEntity>
      <userid>00da89f1405e479782528afeed5*****</userid>
      <nickname/>
      <gender>Female</gender>
      <height>13.77952755905495</height>
      <weight>220.5002622300716</weight>
      <dateofbirth>633225600</dateofbirth>
      <logo>http%3a%2f%2fcloud322.ihealthlabs.com
        %2flogos%2f7272f66b23b31a18597f8ee2c74056a6.png</logo>
    </DownloadUserDataEntity>
    .....
  </UserInfoList>
</DownloadUserDataResultEntity>

```

7. Getting iHealth Data

iHealth OpenAPI V2 Endpoints

Once you've registered your client it's easy to start requesting data from iHealth.

All endpoints are only accessible via https and are located at **api.iHealthLabs.com:8443**.

Important Note

The URL examples throughout this documentation include an `access_token` that represents YOUR account tied to a generic iHealth client. **DO NOT use this access_token in production or for anything other than testing as they will change often.** For your application, you should have each user go through an authentication and authorization flow in order to receive a valid `access_token`.

Limits

Be nice. If you're sending too many requests too quickly, we'll send back a 503 error code (server unavailable).

You are limited to 5000 requests per hour per `access_token` or `client_id` overall. Practically, this means you should (when possible) authenticate users so that limits are well outside the reach of a given user.

Deleting Objects

We do our best to have all our URLs be RESTful. Every endpoint (URL) may support one of four different http verbs. GET requests fetch information about an object, POST requests create objects, PUT requests update objects, and finally DELETE requests will delete objects.

Since many old browsers don't support PUT or DELETE, we've made it easy to fake PUTs and DELETES. All you have to do is do a POST with `_method=PUT` or `_method=DELETE` as a parameter and we will treat it as if you used PUT or DELETE respectively.

Structure

Unit

OpenAPI V2 server also provides unit-converting function for developers. By importing the corresponding parameters, developers can get the data with different unit base. Developers can also procure data with the unit pre-defined by the users according to users' preferences. (see appendix)

Pagination

Sometimes you just can't get enough. For this reason, we've provided a convenient way to access more data in any request for sequential data. Simply call the `url` in the `NextPageUrl` and `PrevPageUrl` parameter and we'll respond with the next set of data.

On views where pagination is present, we also support the "count" parameter. Simply set this to the number of items you'd like to receive. Note that the default values should be fine for most applications - but if you decide to increase this number there is a maximum value defined on each

endpoint.

Response Type

To make it more convenient and compatible, iHealth OpenAPI V2 provides two different formats of response data type, one is JSON, and the other is XML. Third party developers can select the type of format they need and do the advanced setting anytime.

JSONP

If you're writing an AJAX application, and you'd like to wrap our response with a callback, all you have to do is specify a callback parameter with any API call:

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/weight.json/&callback=callbackFunction

Would respond with:

callbackFunction({

...
});

7.1 Request for data of Blood Pressure

7.1.1 Application interface: OpenApiBP

Provide user blood pressure data and its related information such as measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/bp.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, user information cannot be accessed.

In the URL, the value of bp.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
-----------	---------	-------------

start_time	Date time now	The Unix time of which time the BP data start,ex:1331554332 (starting from 1970-01-01 0:0:0, until the present date and time, the unit is second) When it is null, the BP data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the BP data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/bp.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3ft%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342007016&end_time=1405079016&page_index=1&sc=d63493704c*****&sv=113cb40956*****

The Response Content

The returned values:

Parameter	Description
BPDDataList	<p>The data detail of Blood Pressure</p> <p>BPL: WHO level</p> <p>DataID: the unique identity</p> <p>HP: systolic</p> <p>HR: heart rate</p> <p>IsArr: -1 it is null in the database</p> <p>1 heart rate is normal</p> <p>2 arrhythmia cordis</p> <p>3 unknown</p> <p>LP: diastolic</p> <p>Lat: the latitude of the testing place</p> <p>Lon: the longitude of the testing place</p> <p>MDate: measurement date time</p> <p>Note: the note of this data</p> <p>LastChangeTime: Time of last change (UTC)</p> <p>DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices</p> <p>TimeZone: Time zone of measurement location</p>
NextPageUrl	The url of next page
CurrentRecordCoun	The count of current page

t	
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
BPUnt	The unit of blood pressure (The explanation of value)

The sample :

JSON:

```
{
  "BPDataList": [
    {
      "BPL": 5,
      "DataID": "6deacbc373e74e1794a7*****",
      "HP": 124,
      "HR": 82,
      "IsArr": -1,
      "LP": 82,
      "Lat": -1,
      "Lon": -1,
      "MDate": 1373392309,
      "Note": "",
      "LastChangeTime": 1373362486,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
  ],
  "BPUnt": 0,
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0dd*****%2fbp.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxpoBt0ThQQ*****%26start_time%3d1342007016%26end_time%3d1405079016%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d113cb40956*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 335
}
```


XML:

```
<?xml version="1.0" encoding="utf-8"?>
<DownloadBPDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <BPDataList>
    <DownloadBPDataEntity>
      <BPL>5</BPL>
      <DataID>6deacbc373e74e1794a7*****</DataID>
      <HP>124</HP>
      <HR>82</HR>
      <IsArr>-1</IsArr>
      <LP>82</LP>
      <Lat>-1</Lat>
      <Lon>-1</Lon>
      <MDate>1373392309</MDate>
      <Note/>
      <LastChangeTime>1373362486</LastChangeTime>
      <DataSource>FromDevice</DataSource>
      <TimeZone>+0800</TimeZone>
    </DownloadBPDataEntity>
    .....
  </BPDataList>
  <BPUnit>0</BPUnit>
  <CurrentRecordCount>50</CurrentRecordCount>
  <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0
dd*****%2fbp.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e****
*%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_to
ken%3dxpoBt0ThQQ*****%26start_time%3d1342007016%26end_time%3d1405079016%26pa
ge_index%3d2%26sc%3dd63493704c*****%26sv%3d113cb40956*****</NextPageUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl/>
  <RecordCount>335</RecordCount>
</DownloadBPDataResultEntity>
```

7.1.2 Application interface: Get All Blood Pressure Data

Provide user blood pressure data and its related information such as measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/bp.json/>

Important,

In the URL, the value of bp.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the BP data starts, ex:1331554332 (starting from 1970-01-01 0:0:0, until the present date and time, the unit is second) When it is null, the BP data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the BP data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/application/bp.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthet%3eat&access_token=xpoBt0ThQQ*****&start_time=1342007016&end_time=1405079016&page_index=1&sc=d63493704c*****&sv=113cb40956*****

The Response Content

The returned values:

Parameter	Description
BPDDataList	The data detail of Blood Pressure BPL: WHO level DataID: the unique identity HP: systolic HR: heart rate

	<p>IsArr: -1 it is null in the database 1 heart rate is normal 2 arrhythmia cordis 3 unknown</p> <p>LP: diastolic</p> <p>Lat: the latitude of the testing place</p> <p>Lon: the longitude of the testing place</p> <p>MDate: measurement date time</p> <p>userid: unique identity of user</p> <p>Note: the note of this data</p> <p>LastChangeTime: Time of last change (UTC)</p> <p>DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices</p> <p>TimeZone: Time zone of measurement location</p>
NextPageUrl	The url of next page
CurrentRecordCount	The count of current page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
BPUnit	The unit of blood pressure (The explanation of value)

The sample :

JSON:

```
{
  "BPDataList": [
    {
      "BPL": 0,
      "DataID": "fc5e2fedb4674b5da3902857859*****",
      "HP": 105,
      "HR": 11,
      "IsArr": 0,
      "LP": 46,
      "Lat": 93,
      "Lon": 147,
      "MDate": 1392293400,
      "userid": "00da89f1405e479782528afeed5*****",
      "Note": "noteinfo",
      "LastChangeTime": 1373362486,
      "DataSource": "FromDevice",
    }
  ]
}
```

```

        "TimeZone": "-0600"
    }
.....
    ],
    "BPUnt": 0,
    "CurrentRecordCount": 50,
    "NextPageUrl": "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fbp.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3d%3d%26start_time%3d1342007016%26end_time%3d1405079016%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d113cb40956*****",
    "PageLength": 50,
    "PageNumber": 1,
    "PrevPageUrl": "",
    "RecordCount": 335
}

```

XML:

```

<?xml version="1.0" encoding="utf-8"?>
<DownloadBPDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <BPDataList>
    <DownloadBPDataEntity>
      <BPL>0</BPL>
      <DataID>fc5e2fedb4674b5da3902857859*****</DataID>
      <HP>105</HP>
      <HR>11</HR>
      <IsArr>0</IsArr>
      <Lat>93</Lat>
      <Lon>147</Lon>
      <LP>46</LP>
      <MDate>1392293400</MDate>
      <userid>00da89f1405e479782528afeed5*****</userid>
      <Note>noteinfo</Note>
      <LastChangeTime>1373362486</LastChangeTime>
      <DataSource>FromDevice</DataSource>
      <TimeZone>+0800</TimeZone>
    </DownloadBPDataEntity>
    .....
  </BPDataList>
  <BPUnt>0</BPUnt>
  <CurrentRecordCount>50</CurrentRecordCount>

  <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fb

```

```
p.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect
_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxpo
Bt0ThQQ*****%26start_time%3d1342007016%26end_time%3d1405079016%26page_index%3
d2%26sc%3dd63493704c*****%26sv%3d113cb40956*****</NextPageUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl/>
  <RecordCount>335</RecordCount>
</DownloadBPDataResultEntity>
```

7.1.3 Post BP Data

Add new blood pressure data by posting through the API.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/bp.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, user information cannot be accessed.

In the URL, the value of bp.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
HP	Yes	Systolic
HR	Yes	Heart Rate
LP	Yes	Diastolic
BPUnit	Yes	The unit of blood pressure (The explanation of value)
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/bp.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c****&sv=113cb40956*****&querynumber=werwe12123&request_type=Post

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "bp"

The sample :

JSON:

```
{
  "HP": 105,
  "HR": 60,
  "LP": 70,
  "Lat": 93,
  "Lon": 147,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "bp",
```

```

        "BPUnit": 0
    }
XML:
<?xml version="1.0" encoding="utf-8"?>
  <UploadBPEntity>
    <HP>105</HP>
    <HR>75</HR>
    <LP>46</LP>
    <Lat>93</Lat>
    <Lon>147</Lon>
    <MDate>1392293400</MDate>
    <TimeZone>+0800</TimeZone>
    <Note>noteinfo</Note>
    <BPUnit>0</BPUnit>
  </UploadBPEntity>

```

7.1.4 Put BP Data

Update blood pressure data.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/bp.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, user information cannot be accessed.

In the URL, the value of bp.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
DataID	Yes	The unique identity
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
HP	Yes	Systolic
HR	Yes	Heart Rate
LP	Yes	Diastolic
BPUnit	Yes	The unit of blood pressure (The explanation of value)
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/bp.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c****&sv=113cb40956*****&querynumber=werwel2123&request_type=Put

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "weight"

The sample :

JSON:

```
{
  "DataID": "notei23jsunsdfnfo****",
```



```

    "HP": 105,
    "HR": 60,
    "LP": 70,
    "Lat": 93,
    "Lon": 147,
    "MDate": 1395702600,
    "TimeZone": "+0800",
    "Note": "bp",
    "BPUnt": 0
  }
XML:
<?xml version="1.0" encoding="utf-8"?>
  <UpdateBPEntity>
    <DataID>notei23jsunsdfinfo****</DataID>
    <HP>105</HP>
    <HR>75</HR>
    <LP>46</LP>
    <Lat>93</Lat>
    <Lon>147</Lon>
    <MDate>1392293400</MDate>
    <TimeZone>+0800</TimeZone>
    <Note>bp</Note>
    <BPUnt>0</BPUnt>
  </UpdateBPEntity>

```

7.2 Request for data of Weight

7.2.1 Application Interface: OpenApiWeight,

Provide user weight and its related information, such as the value of weight and its measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/weight.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of weight.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the Weight data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the Weight data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale location
end_time	Over the past year	The Unix time of when the Weight data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/weight.json/?client_id=ddb9cb c759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fapi.testweb2.com%2foauthtest.aspx&access_token=xpoBt0ThQQ*****&start_time=1342007425&end_time=1405079425&page_index=1&sc=d63493704c*****&sv=2b26f1c0af*****

The Response Content

The return values,

Parameter	Description
WeightDataList	The data detail of Weight BMI: BMI of weight BoneValue: the weight of bone in body DCI: daily caloric intake DataID: the unique identity FatValue: body fat MDate: measurement date/time Note: the note of this data MuscleValue: the weight of muscle in body WaterValue: body water WeightValue: body weight LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from manual

	data entries. "FromDevice" is for data acquired from iHealth devices TimeZone:Time zone of measurement location
NextPageUrl	The url of next page
CurrentRecordCount	The count of current page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
WeightUnit	The unit of weight (The explanation of value)

The sample :

JSON:

```
{
  "CurrentRecordCount": 50,
  "NextPageUrl": "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0dd*****%2fweight.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dXpoBt0ThQQ*****%26start_time%3d1342007425%26end_time%3d1405079425%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d2b26f1c0af*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 272,
  "WeightDataList": [
    {
      "BMI": 16.538315869208432,
      "BoneValue": 2,
      "DCI": 2,
      "DataID": "24abfb4d2a344f3aad571*****",
      "FatValue": 0.02,
      "MDate": 1347460380,
      "MuscleValue": 2,
      "Note": "test9000000000000000000",
      "WaterValue": 0.02,
      "WeightValue": 52.4,
      "LastChangeTime": 1347460380,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
  ]
}
```

```

.....
    ],
    "WeightUnit": 0
}

```

XML:

```

<?xml version="1.0" encoding="UTF-8" ?>
<DownloadWeightDataResultEntity      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <CurrentRecordCount>50</CurrentRecordCount>
    <NextPageUrl>
https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0dd*****%2fweight.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dXpoBt0ThQQ*****%26start_time%3d1342007425%26end_time%3d1405079425%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d2b26f1c0af*****</NextPageUrl>
    <PageLength>50</PageLength>
    <PageNumber>1</PageNumber>
    <PrevPageUrl/>
    <RecordCount>272</RecordCount>
    <WeightDataList>
    <DownloadWeightDataEntity>
        <BMI>16.538315869208432</BMI>
        <BoneValue>2</BoneValue>
        <DCI>2</DCI>
        <DataID>24abfb4d2a344f3aad571*****</DataID>
        <FatValue>0.02</FatValue>
        <MDate>1347460380</MDate>
        <MuscleValue>2</MuscleValue>
        <Note>test900000000000000000</Note>
        <WaterValue>0.02</WaterValue>
        <WeightValue>52.4</WeightValue>
        <LastChangeTime>1373362486</LastChangeTime>
        <DataSource>FromDevice</DataSource>
        <TimeZone>+0800</TimeZone>
    </DownloadWeightDataEntity>
.....
    </WeightDataList>
    <WeightUnit>0</WeightUnit>
</DownloadWeightDataResultEntity>

```

7.2.2 Application Interface: Get All Weight Data

Provide user weight and its related information, such as the value of weight and its measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/weight.json/>

Important,

In the URL, the value of weight.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the Weight data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the Weight data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the Weight data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/application/weight.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fapi.testweb2.com%2foauthtest.aspx&access_token=xpoBt0ThQQ*****&start_time=1342007425&end_time=1405079425&page_index=1&sc=d63493704c*****&sv=2b26f1c0af*****

The Response Content

The return values:

Parameter	Description
WeightDataList	The data detail of Weight BMI: BMI of weight BoneValue: the weight of bone in body DCI: daily caloric intake DataID: the unique identity

	<p>FatValue: body fat</p> <p>MDate: measurement date/time</p> <p>MuscleValue: the weight of muscle in body</p> <p>WaterValue: body water</p> <p>WeightValue: body weight</p> <p>userid: unique identity of user</p> <p>Note: the note of this data</p> <p>LastChangeTime: Time of last change (UTC)</p> <p>DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices</p> <p>TimeZone: Time zone of measurement location</p>
NextPageUrl	The url of next page
CurrentRecordCount	The count of current page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
WeightUnit	The unit of weight (The explanation of value)

The sample :

JSON:

```
{
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fweight.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dXpoBt0ThQQ*%26start_time%3d1342007425%26end_time%3d1405079425%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d2b26f1c0af*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 272,
  "WeightDataList": [
    {
      "BMI": 31,
      "BoneValue": 4.1843737362690225,
      "DCI": 6,
      "DataID": "426a467643b44007a7531e8e5d2*****",
      "FatValue": 50,
```

```

        "MDate": 1392293400,
        "MuscleValue": 119.0496215798352,
        "Note": null,
        "WaterValue": 7,
        "WeightValue": 304.2379218151344,
        "userid": "00da89f1405e479782528afeed5*****",
        "LastChangeTime": 1347460380,
        "DataSource": "FromDevice",
        "TimeZone": "-0600"
    }
    .....
    ],
    "WeightUnit": 1
}
XML:
<?xml version="1.0" encoding="utf-8"?>
<DownloadWeightDataResultViewEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <CurrentRecordCount>50</CurrentRecordCount>

    <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fw
eight.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redi
rect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252fauthtest.aspx%26access_token%3dx
poBt0ThQQ*****%26start_time%3d1342007425%26end_time%3d1405079425%26page_index
%3d2%26sc%3dd63493704c*****%26sv%3d2b26f1c0af*****</NextPageUrl>

    <PageLength>50</PageLength>
    <PageNumber>1</PageNumber>
    <PrevPageUrl/>
    <RecordCount>272</RecordCount>
    <WeightDataList>
        <DownloadWeightDataViewEntity>
            <BMI>31</BMI>
            <BoneValue>4.1843737362690225</BoneValue>
            <DataID>426a467643b44007a7531e8e5d2*****</DataID>
            <DCI>6</DCI>
            <FatValue>50</FatValue>
            <MDate>1392293400</MDate>
            <MuscleValue>119.0496215798352</MuscleValue>
            <WaterValue>7</WaterValue>
            <WeightValue>304.23792181513443</WeightValue>
            <userid>00da89f1405e479782528afeed5*****</userid>
            <LastChangeTime>1373362486</LastChangeTime>
            <DataSource>FromDevice</DataSource>
            <TimeZone>-0600</TimeZone>

```

```
</DownloadWeightDataViewEntity>
.....
</WeightDataList>
<WeightUnit>1</WeightUnit>
</DownloadWeightDataResultViewEntity>
```

7.2.3 Post Weight Data

Add new weight data by posting through the API.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/weight.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of weight.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
WeightValue	Yes	Weight value
WeightUnit	Yes	The unit of weight (The explanation of value)
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data
FatValue	No	Fat value
MuscleValue	No	Muscle value
BoneValue	No	Bone value
WaterValue	No	Water value
DCI	No	Daily caloric intake
VFR	No	Visceral fat rating

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/weight.json/?client_id=ddb9c759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Post

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "weight"

The sample :

JSON:

```
{
  "Lat": 0,
  "Lon": 0,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "test90000000000000000000",
```

```

    "WeightValue": 52.4,
    "WeightUnit": 0,
    "FatValue": 25.4,
    "MuscleValue": 20.4,
    "BoneValue": 22.4,
    "WaterValue": 20,
    "DCI": 211,
    "VFR": 35
  }

```

XML:

```

<?xml version="1.0" encoding="utf-8"?>
  <UploadWeightEntity>
    <Lat>0</Lat>
    <Lon>0</Lon>
    <MDate>1395702600</MDate>
    <TimeZone>+0800</TimeZone>
    <Note>test9000000000000000000</Note>
    <WeightValue>52.4</WeightValue>
    <WeightUnit>0</WeightUnit>
    <FatValue>25.4</FatValue>
    <MuscleValue>20.4</MuscleValue>
    <BoneValue>22.4</BoneValue>
    <WaterValue>20</WaterValue>
    <DCI>211</DCI>
    <VFR>35</VFR>
  </UploadWeightEntity>

```

7.2.4 Put Weight Data

Update data

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/weight.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of weight.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
DataID	Yes	The unique identity
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
WeightValue	Yes	Weight value
WeightUnit	Yes	The unit of weight (The explanation of value)
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data
FatValue	No	Fat value
MuscleValue	No	Muscle value
BoneValue	No	Bone value
WaterValue	No	Water value
DCI	No	Daily caloric intake
VFR	No	Visceral fat rating

The sample

https://api.ihealthlabs.com:8443/openapi2/user/05dffbe0dd*****/weight.json/?client_id=ddb9cbe759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Put

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "weight"

The sample :

JSON:

```
{
  "DataID": "notei23jsunsdfnfo****",
  "Lat": 0,
  "Lon": 0,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "test900000000000000000",
  "WeightValue": 52.4,
  "WeightUnit": 0,
  "FatValue": 25.4,
  "MuscleValue": 20.4,
  "BoneValue": 22.4,
  "WaterValue": 20,
  "DCI": 211,
  "VFR": 35
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
  <UpdateWeightEntity>
    <DataID>notei23jsunsdfnfo****</DataID>
    <Lat>0</Lat>
    <Lon>0</Lon>
    <MDate>1395702600</MDate>
    <TimeZone>+0800</TimeZone>
    <Note>test900000000000000000</Note>
    <WeightValue>52.4</WeightValue>
    <WeightUnit>0</WeightUnit>
    <FatValue>25.4</FatValue>
    <MuscleValue>20.4</MuscleValue>
    <BoneValue>22.4</BoneValue>
```

```
<WaterValue>20</WaterValue>
<DCI>211</DCI>
<VFR>35</VFR>
</UpdateWeightEntity>
```

7.3 Request for data of BG

7.3.1 Application Interface: OpenApiBG

Provide user glucose data and its related information, such as the value of glucose and measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/glucose.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of glucose.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the BG data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the BG data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the BG data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/glucose.json/?client_id=ddb9c759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342006062&end_time=1405078062&page_index=1&sc=d63493704c*****&sv=90f0793451*****

The Response Content

The returned values:

Parameter	Description
BGDataList	The data detail of BG BG: glucose value DataID: the unique identity DinnerSituation: meal information DrugSituation: medicine information Lat: the latitude of the testing place Lon: the longitude of the testing place MDate: measurement date time Note: the note of this data LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices TimeZone: Time zone of measurement location
BGUnit	The unit of glucose (The explanation of value)
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON:

```
{
  "BGDataList": [
    {
      "BG": 60,
```

```

        "DataID": "5f4fd34c37d1497a8dc1*****",
        "DinnerSituation": "Before_breakfast",
        "DrugSituation": "After_taking_pills",
        "Lat": -1,
        "Lon": -1,
        "MDate": 1355157900,
        "Note": "",
        "LastChangeTime": 1347460380,
        "DataSource": "FromDevice",
        "TimeZone": "-0600"
    }
    .....

    ],
    "BGUnit": 0,
    "CurrentRecordCount": 50,
    "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0dd*****%2fglucose.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxpoBt0ThQQ*****%26start_time%3d1342006062%26end_time%3d1405078062%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d90f0793451*****",
    "PageLength": 50,
    "PageNumber": 1,
    "PrevPageUrl": "",
    "RecordCount": 336
}

```

XML:

```

<?xml version="1.0" encoding="UTF-8" ?>
<DownloadBGDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <BGDataList>
    <DownloadBGDataEntity>
      <BG>60</BG>
      <DataID>5f4fd34c37d1497a8dc196c*****</DataID>
      <DinnerSituation>Before_breakfast</DinnerSituation>
      <DrugSituation>After_taking_pills</DrugSituation>
      <Lat>-1</Lat>

```

```
<Lon>-1</Lon>
<MDate>1355157900</MDate>
<Note/>
<LastChangeTime>1373362486</LastChangeTime>
<DataSource>FromDevice</DataSource>
<TimeZone>-0600</TimeZone>
</DownloadBGDataEntity>

.....

</BGDataList>
<BGUnit>0</BGUnit>
<CurrentRecordCount>50</CurrentRecordCount>
<NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05d
ffbe0dd*****%2fglucose.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f
9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%
26access_token%3dspoBt0ThQQ*****%26start_time%3d1342006062%26end_time%3d140507
8062%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d90f0793451*****</NextPage
Url>
<PageLength>50</PageLength>
<PageNumber>1</PageNumber>
<PrevPageUrl/>
<RecordCount>336</RecordCount>
</DownloadBGDataResultEntity>
```

7.3.2 Application Interface: Get All BG Data

Provide user glucose data and its related information, such as the value of glucose and measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/glucose.json/>

Important,

In the URL, the value of `glucose.json` is the format of the data you want to fetch, we can support two different kinds of file packages, `.json` and `.xml`.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start time	Date time now	The Unix time of when the BG data starts,

		ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the BG data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the BG data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/application/glucose.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342006062&end_time=1405078062&page_index=1&sc=d63493704c*****&sv=90f0793451*****

The Response Content

The returned values:

Parameter	Description
BGDataList	The data detail of BG BG: glucose value DataID: the unique identity DinnerSituation: meal information DrugSituation: medicine information Lat: the latitude of the testing place Lon: the longitude of the testing place MDate: measurement date time userid: unique identity of user Note: the note of this data LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices TimeZone: Time zone of measurement location
BGUnit	The unit of glucose (The explanation of value)
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON:

```
{
  "BGDataList": [
    {
      "BG": 0,
      "DataID": "fd09fed8c7584263af980fcdc52*****",
      "DinnerSituation": "Before_breakfast",
      "DrugSituation": "After_taking_pills",
      "Lat": 94,
      "Lon": 1,
      "MDate": 1392392400,
      "Note": "sdfdsdfsad",
      "userid": "00da89f1405e479782528afeed5*****",
      "LastChangeTime": 1347460380,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
  ],
  "BGUnit": 0,
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fglucose.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxpoBt0ThQQ*%26start_time%3d1342006062%26end_time%3d1405078062%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d90f0793451*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 336
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<DownloadBGDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <BGDataList>
    <DownloadBGDataEntity>
      <BG>0</BG>
      <DinnerSituation>Before_breakfast</DinnerSituation>
```

```

    <DrugSituation>After_taking_pills</DrugSituation>
    <MDate>1392392400</MDate>
    <Note>sdfdsdfsad</Note>
    <Lat>94</Lat>
    <Lon>1</Lon>
    <DataID>fd09fed8c7584263af980fcdc52*****</DataID>
    <userid>00da89f1405e479782528afeed5*****</userid>
    <LastChangeTime>1373362486</LastChangeTime>
    <DataSource>FromDevice</DataSource>
    <TimeZone>-0600</TimeZone>
  </DownloadBGDataEntity>
  .....
  </BGDataList>
  <BGUnit>0</BGUnit>
  <CurrentRecordCount>50</CurrentRecordCount>

  <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fglucose.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxb0t0ThQQ*****%26start_time%3d1342006062%26end_time%3d1405078062%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d90f0793451*****</NextPageUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl/>
  <RecordCount>336</RecordCount>
</DownloadBGDataResultEntity>

```

7.3.3 Post BG Data

Add new glucose data by posting through the API

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/glucose.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of glucose.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access

sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
BG	Yes	Glucose values
DinnerSituation	Yes	Meal information
DrugSituation	Yes	Medicine information
BGUnit	Yes	The unit of glucose (The explanation of value)
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/glucose.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Post

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "glucose"

The sample :

JSON:

```
{
  "BG": 60,
  "DinnerSituation": "Before_breakfast",
  "DrugSituation ": "Before_taking_pills ",
  "Lat ": 0,
  "Lon ": 0,
  "MDate ": 1395702600,
  "TimeZone ": "+0800 ",
  "Note ": "glucose ",
  "BGUnit ": 0
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<UploadBGEntity>
  <BG>60</BG>
  <DinnerSituation>Before_breakfast</DinnerSituation>
  <DrugSituation>Before_taking_pills</DrugSituation>
  <Lat>0</Lat>
  <Lon>0</Lon>
  <MDate>1395702600</MDate>
  <TimeZone>+0800</TimeZone>
  <Note>glucose</Note>
  <BGUnit>0</BGUnit>
</UploadBGEntity>
```

7.3.4 Put BG Data

Update glucose data

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/glucose.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of glucose.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request

client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
DataID	Yes	The unique identity
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
BG	Yes	Glucose values
DinnerSituation	Yes	Meal information
DrugSituation	Yes	Medicine information
BGUnit	Yes	The unit of glucose (The explanation of value)
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/glucose.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Put

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "glucose"

The sample :

JSON:

```
{
  "DataID": "notei23jsunsdfnfo****",
  "BG": 60,
  "DinnerSituation": "Before_breakfast",
  "DrugSituation": "Before_taking_pills ",
  "Lat ": 0,
  "Lon ": 0,
  "MDate ": 1395702600,
  "TimeZone ": "+0800 ",
  "Note ": "glucose ",
  "BGUnit ": 0
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<UpdateBGEntity>
  <DataID>notei23jsunsdfnfo****</DataID>
  <BG>60</BG>
  <DinnerSituation>Before_breakfast</DinnerSituation>
  <DrugSituation>Before_taking_pills</DrugSituation>
  <Lat>0</Lat>
  <Lon>0</Lon>
  <MDate>1395702600</MDate>
  <TimeZone>+0800</TimeZone>
  <Note>glucose</Note>
  <BGUnit>0</BGUnit>
</UpdateBGEntity>
```

7.4 Request for data of Blood Oxygen

7.4.1 Application Interface: OpenApiSpO2

Provide user oxygen content and its related information such as the value of oxygen content, and measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/spo2.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; Otherwise, the user information cannot be accessed.

In the URL, the value of spo2.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the BO data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the BO data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the BO data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/spo2.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342005726&end_time=1405077726&page_index=1&sc=d63493704c*****&sv=88f34288d5*****

The Response Content

The returned values:

Parameter	Description
BODataList	The data detail of BO BO: Blood Oxygen value DataID: the unique identity HR: heart rate Lat: the latitude of the testing place Lon: the longitude of the testing place MDate: measurement date time Note: the note of this data LastChangeTime: Time of last change (UTC)

	DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices TimeZone: Time zone of measurement location
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON

```
{
  "BODataList": [
    {
      "BO": 188,
      "DataID": "01b34452f13049d387c*****",
      "HR": 72,
      "Lat": 65.76911313588224,
      "Lon": 151.35644438413738,
      "MDate": 1362490426,
      "Note": "03-06-2013 01:25:46",
      "LastChangeTime": 1362490426,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
  ],
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0dd*****%2fsp
    o2.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redire
    ct_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3d
    oBt0ThQQ*****%26start_time%3d1342005726%26end_time%3d1405077726%26page_index%
    3d2%26sc%3dd63493704c*****%26sv%3d88f34288d5*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 296
}
```

XML:

```
<?xml version="1.0" encoding="UTF-8" ?>
< DownloadBODataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <BODataList>
    <DownloadBODataEntity>
      <BO>188</BO>
      <DataID>01b34452f13049d387c*****</DataID>
      <HR>72</HR>
      <Lat>65.76911313588224</Lat>
      <Lon>151.35644438413738</Lon>
      <MDate>1362490426</MDate>
      <Note> 03-06-2013 01:25:46</Note>
      <LastChangeTime>1373362486</LastChangeTime>
      <DataSource>FromDevice</DataSource>
      <TimeZone>-0600</TimeZone>
    </DownloadBODataEntity>
    .....
  </BODataList>
  <CurrentRecordCount>50</CurrentRecordCount>
  <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05d
ffbe0dd*****%2fspo2.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d
00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26
access_token%3dXp0Bt0ThQQ*****%26start_time%3d1342005726%26end_time%3d14050777
26%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d88f34288d5*****</NextPageUr
l>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl/>
  <RecordCount>296</RecordCount>
</DownloadBODataResultEntity>
```

7.4.2 Application Interface: Get All Blood Oxygen Data

Provide user oxygen content and its related information such as the value of oxygen content and measurement date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/spo2.json/>

Important,

In the URL, the value of spo2.json is the format of the data you want to fetch, we can support

two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the BO data starts,ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the BO data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the BO data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/application/spo2.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342005726&end_time=1405077726&page_index=1&sc=d63493704c*****&sv=88f34288d5*****

The Response Content

The returned values:

Parameter	Description
BODataList	The data detail of BO BO: Blood Oxygen value DataID: the unique identity HR: heart rate Lat: the latitude of the testing place Lon: the longitude of the testing place MDate: measurement date time userid: unique identity of user Note: the note of this data LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from

	manual data entries. "FromDevice" is for data acquired from iHealth devices TimeZone: Time zone of measurement location
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON

```
{
  "BODataList": [
    {
      "BO": 102,
      "DataID": "5634f63f229b4d529980f6145d5*****",
      "HR": 97,
      "Lat": 114.96599607959669,
      "Lon": 49.4638022591657,
      "MDate": 1392549311,
      "Note": "今天是 02-17-2014 01:24:11",
      "userid": "00da89f1405e479782528afeed5*****",
      "LastChangeTime": 1392549311,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
  ],
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fspo2.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxpoBt0ThQQ***%26start_time%3d1342005726%26end_time%3d1405077726%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d88f34288d5*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 296
}
```

XML:

```

<?xml version="1.0" encoding="utf-8"?>
<DownloadBODataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <BODataList>
    <DownloadBODataEntity>
      <BO>102</BO>
      <HR>97</HR>
      <MDate>1392549311</MDate>
      <Note>今天是 02-17-2014 01:24:11</Note>
      <Lon>49.4638022591657</Lon>
      <Lat>114.96599607959669</Lat>
      <DataID>5634f63f229b4d529980f6145d5*****</DataID>
      <userid>00da89f1405e479782528afeed5*****</userid>
      <LastChangeTime>1373362486</LastChangeTime>
      <DataSource>FromDevice</DataSource>
      <TimeZone>-0600</TimeZone>
    </DownloadBODataEntity>
    .....
  </BODataList>
  <CurrentRecordCount>50</CurrentRecordCount>

  <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fsp
o2.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirec
t_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dspo
Bt0ThQQ*****%26start_time%3d1342005726%26end_time%3d1405077726%26page_index%3
d2%26sc%3dd63493704c*****%26sv%3d88f34288d5*****</NextPageUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl/>
  <RecordCount>296</RecordCount>
</DownloadBODataResultEntity>

```

7.4.3 Post SpO2 Data

Add new SpO2 data by posting to the API.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/spo2.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; Otherwise, the user information cannot be accessed.

In the URL, the value of spo2.json is the format of the data you want to fetch, we can support two different kinds of file packages, json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
BO	Yes	Oxygen values
HR	Yes	Heart Rate
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/spo2.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Post

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "spo2"

The sample :

JSON

```
{
  "BO": 80,
  "HR": 75,
  "Lat": 0,
  "Lon": 0,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "spo2"
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
  <UploadBOEntity>
    <BO>80</BO>
    <HR>75</HR>
    <Lat>0</Lat>
    <Lon>0</Lon>
    <MDate>1395702600</MDate>
    <TimeZone>+0800</TimeZone>
    <Note>spo2</Note>
  </UploadBOEntity>
```

7.4.4 Put SpO2 Data

Update SpO2 data

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/spo2.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; Otherwise, the user information cannot be accessed.

In the URL, the value of spo2.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user

sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
DataID	Yes	The unique identity
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
BO	Yes	Oxygen values
HR	Yes	Heart Rate
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/spo2.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Put

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "spo2"

The sample :

JSON

```
{
```



```
"DataID": "notei23jsunsdfnfo****",
"BO": 80,
"HR": 75,
"Lat": 0,
"Lon": 0,
"MDate": 1395702600,
"TimeZone": "+0800",
"Note": "spo2"
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<UpdateBOEntity>
  <DataID>notei23jsunsdfnfo****</DataID>
  <BO>80</BO>
  <HR>75</HR>
  <Lat>0</Lat>
  <Lon>0</Lon>
  <MDate>1395702600</MDate>
  <TimeZone>+0800</TimeZone>
  <Note>spo2</Note>
</UpdateBOEntity>
```

7.5 Request for data of Activity Report

7.5.1 Application Interface: OpenApiActivity

Provide user activity and its related information, such as the values of activity and activity date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/activity.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; Otherwise, the user information cannot be accessed.

In the URL, the value of activity.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request

access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the Activity data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the Activity data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the Activity data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/activity.json/?client_id=ddb9cb c759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342006310&end_time=1405078310&page_index=1&sc=d63493704c*****&sv=261243eecf*****

The Response Content

The returned values:

Parameter	Description
ARDataList	The data detail of Activity Calories: The total calories consumed DataID: the unique identity DistanceTraveled: Distance Lat: the latitude of the testing place Lon: the longitude of the testing place Steps: Statistical steps MDate: measurement datetime Note: the note of this data LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices TimeZone: Time zone of measurement location
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page

PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
DistanceUnit	Distance Unit (The explanation of value)

The sample :

JSON:

```
{
  "ARDataList": [
    {
      "Calories": 109,
      "DataID": "e34032089471451b926a6a4*****",
      "DistanceTraveled": 0.36088,
      "Lat": 19.579758571265153,
      "Lon": 86.49735491466585,
      "MDate": 1362483513,
      "Note": "",
      "Steps": 694,
      "LastChangeTime": 1392549311,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
    .....
  ],
  "CurrentRecordCount": 50,
  "DistanceUnit": 0,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0dd*****%2factivity.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxb0t0ThQQ*****%26start_time%3d1342006310%26end_time%3d1405078310%26page_index%3d1%26sc%3dd63493704c*****%26sv%3d261243eectf*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 256
}
```

XML:

```
<?xml version="1.0" encoding="UTF-8" ?>
< DownloadActivityReportDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
```

```

<ARDataList>
  <DownloadActivityReportDataEntity>
    <Calories>109</Calories>
    <DataID>e34032089471451b926a6a4*****</DataID>
    <DistanceTraveled>0.36088</DistanceTraveled>
    <Lat>19.579758571265153</Lat>
    <Lon>86.49735491466585</Lon>
    <MDate>1362483513</MDate>
    <LastChangeTime>1362483513</LastChangeTime>
    <Note/>
    <Steps>694</Steps>
    <LastChangeTime>1373362486</LastChangeTime>
    <DataSource>FromDevice</DataSource>
    <TimeZone>-0600</TimeZone>
  </DownloadActivityReportDataEntity>
  .....
</ARDataList>
<CurrentRecordCount>50</CurrentRecordCount>
<DistanceUnit>0</DistanceUnit>
<NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05d
ffbe0dd*****%2factivity.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f
9d00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%
26access_token%3d10ThQQ*****%26start_time%3d1342006310%26end_time%3d140507
8310%26page_index%3d1%26sc%3dd63493704c*****%26sv%3d261243eecf*****</NextPage
Url>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl></PrevPageUrl>
  <RecordCount>256</RecordCount>
</DownloadActivityReportDataResultEntity>

```

7.5.2 Application Interface: Get All Activity Report Data

Provide user activity and its related information, such as the values of activity and activity date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/activity.json/>

Important,

In the URL, the value of activity.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request

client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the Activity data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the Activity data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the Activity data ends, it must be later than start_time. ex: 1331554332

The sample

https://api.ihealthlabs.com:8443/openapiv2/application/activity.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342006310&end_time=1405078310&page_index=1&sc=d63493704c*****&sv=261243eecf*****

The Response Content

The returned values:

Parameter	Description
ARDataList	<p>The data detail of Activity</p> <p>Calories: The total calories consumed</p> <p>DataID: the unique identity</p> <p>DistanceTraveled: Distance</p> <p>Lat: the latitude of the testing place</p> <p>Lon: the longitude of the testing place</p> <p>Steps: Statistical steps</p> <p>MDate: measurement datetime</p> <p>userid: unique identity of user</p> <p>Note: the note of this data</p> <p>LastChangeTime: Time of last change (UTC)</p> <p>DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices</p> <p>TimeZone: Time zone of measurement location</p>

CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
DistanceUnit	Distance Unit (The explanation of value)

The sample :

JSON:

```
{
  "ARDataList": [
    {
      "Calories": 279,
      "DataID": "10a872289c954275a68bcf39268*****",
      "DistanceTraveled": 0.2031945935735293,
      "Lat": 95.51064460422408,
      "Lon": 21.728533150501796,
      "MDate": 1392555926,
      "Note": "",
      "Steps": 617,
      "userid": "00da89f1405e479782528afeed5*****",
      "LastChangeTime": 1392549311,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
  ],
  "CurrentRecordCount": 50,
  "DistanceUnit": 1,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2factive.json%2f%
    3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp
    %253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxpoBt0ThQQ**
    **%26start_time%3d1342006310%26end_time%3d1405078310%26page_index%3d1%26sc%3d
    d63493704c*****%26sv%3d261243eecf*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 256
}
```

XML:

```

<?xml version="1.0" encoding="utf-8"?>

<DownloadActivityReportDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ARDataList>
    <DownloadActivityReportDataEntity>
      <Steps>617</Steps>
      <DistanceTraveled>0.20319459357352929</DistanceTraveled>
      <MDate>1392555926</MDate>
      <Note/>
      <Lon>21.728533150501796</Lon>
      <Lat>95.510644604224083</Lat>
      <DataID>10a872289c954275a68bcf39268*****</DataID>
      <Calories>279</Calories>
      <userid>00da89f1405e479782528afeed5*****</userid>
      <LastChangeTime>1392555926</LastChangeTime>
      <DataSource>FromDevice</DataSource>
      <TimeZone>-0600</TimeZone>
    </DownloadActivityReportDataEntity>
    .....
  </ARDataList>
  <CurrentRecordCount>50</CurrentRecordCount>

  <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fac
tive.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redire
ct_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3d
xBt0ThQQ*****%26start_time%3d1342006310%26end_time%3d1405078310%26page_index%
3d1%26sc%3dd63493704c*****%26sv%3d261243eecf*****</NextPageUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl/>
  <RecordCount>256</RecordCount>
  <DistanceUnit>1</DistanceUnit>
</DownloadActivityReportDataResultEntity>

```

7.5.3 Post Activity Data

Add new activity data through the API

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/activity.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required;

Otherwise, the user information cannot be accessed.

In the URL, the value of activity.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
Calories	Yes	Calories
DistanceTraveled	Yes	Distance traveled
StepLength	Yes	Step length
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/activity.json/?client_id=ddb9cbe759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Post

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result

	will be an empty string
Data Type	Data type. Eg. "activity"

The sample :

JSON:

```
{
  "Calories": 80,
  "DistanceTraveled": 2,
  "StepLength": 50,
  "Lat": 0,
  "Lon": 0,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "activity"
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<UploadAMEntity>
  <Calories>80</Calories>
  <DistanceTraveled>2</DistanceTraveled>
  <StepLength>50</StepLength>
  <Lat>0</Lat>
  <Lon>0</Lon>
  <MDate>1395702600</MDate>
  <TimeZone>+0800</TimeZone>
  <Note>activity</Note>
</UploadAMEntity>
```

7.5.4 Put Activity Data

Update activity data

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/activity.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; Otherwise, the user information cannot be accessed.

In the URL, the value of activity.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
DataID	Yes	The unique identity
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
Calories	Yes	Calories
DistanceTraveled	Yes	Distance traveled
StepLength	Yes	Step length
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/activity.json/?client_id=ddb9c bc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d6349370 4c*****&sv=113cb40956*****&querynumber=werwel2123&request_type=Put

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "activity"

The sample :

JSON:

```
{
  "DataID": "notei23jsunsdfnfo****",
  "Calories": 80,
  "DistanceTraveled": 2,
  "StepLength": 50,
  "Lat": 0,
  "Lon": 0,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "activity"
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<UpdateAMEntity>
  <DataID>notei23jsunsdfnfo****</DataID>
  <Calories>80</Calories>
  <DistanceTraveled>2</DistanceTraveled>
  <StepLength>50</StepLength>
  <Lat>0</Lat>
  <Lon>0</Lon>
  <MDate>1395702600</MDate>
  <TimeZone>+0800</TimeZone>
  <Note>activity</Note>
</UpdateAMEntity>
```

7.6 Request for data of Sleep Report

7.6.1 Application Interface: OpenApiSleep

Provide user sleep data and its related information, such as the values of sleep and sleep date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/sleep.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of sleep.json is the format of the data you want to fetch, we can support two

different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the sleep data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the sleep data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the sleep data ends, it must be later than start_time. ex: 1331554332

The sample:

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/sleep.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2f+yourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342004920&end_time=1405076920&page_index=1&sc=d63493704c*****&sv=68d3f571e6*****

The Response Content

The returned values:

Parameter	Description
SRDataList	The data detail of Sleep Awaken: Number of times awoken DataID: the unique identity Fallsleep: Time until asleep HoursSlept: The length of the sleep SleepEfficiency: Sleep efficiency Lat: the latitude of the testing place Lon: the longitude of the testing place StartTime: Start time of sleep EndTime: End time of sleep Note: the note of this data LastChangeTime: Time of last change (UTC)

	DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices TimeZone: Time zone of measurement location
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON:

```
{
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05dffbe0dd*****%2fsl
    eep.json%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redire
    ct_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxp
    oBt0ThQQ*****%26start_time%3d1342004920%26end_time%3d1405076920%26page_index%
    3d2%26sc%3dd63493704c*****%26sv%3d68d3f571e6*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 288,
  "SRDataList": [
    {
      "Awaken": 5,
      "DataID": "6ca9e6f4c8c34e4d9a9eccc*****",
      "EndTime": 1372103460,
      "FallSleep": 25,
      "HoursSlept": 260,
      "Lat": 28.584006583590064,
      "Lon": 69.43493275457757,
      "Note": "",
      "SleepEfficiency": 92,
      "StartTime": 1372085160,
      "LastChangeTime": 1392549311,
      "DataSource": "FromDevice",
      "TimeZone": "-0600"
    }
  ]
}
```

```
.....
    ]
}
```

XML:

```
<?xml version="1.0" encoding="UTF-8" ?>
< DownloadSleepReportDataResultEntity   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <CurrentRecordCount>50</CurrentRecordCount>
    <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2f05d
ffbe0dd*****%2fsleep.xml%2f%3fclient_id%3dddb9cbc759*****%26client_secret%3d4738f9d
00e*****%26redirect_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26
access_token%3dXp0t0ThQQ*****%26start_time%3d1342004920%26end_time%3d14050769
20%26page_index%3d2%26sc%3dd63493704c*****%26sv%3d68d3f571e6*****</NextPageUr
l>
    <PageLength>50</PageLength>
    <PageNumber>1</PageNumber>
    <PrevPageUrl></PrevPageUrl>
    <RecordCount>288</RecordCount>
    <SRDataList>
        <DownloadSleepReportDataEntity>
            <Awaken>5</Awaken>
            <DataID>6ca9e6f4c8c34e4d9a9eccc*****</DataID>
            <EndTime>1372103460</EndTime>
            <FallSleep>25</FallSleep>
            <HoursSlept>260</HoursSlept>
            <Lat>28.584006583590064</Lat>
            <Lon>69.43493275457757</Lon>
            <Note/>
            <SleepEfficiency>92</SleepEfficiency>
            <StartTime>1372085160</StartTime>
            <LastChangeTime>1392555926</LastChangeTime>
            <DataSource>FromDevice</DataSource>
            <TimeZone>-0600</TimeZone>
        </DownloadSleepReportDataEntity>
    .....
```

```
        </SRDataList>
```

```
</DownloadSleepReportDataResultEntity>
```

7.6.2 Application Interface: Get All Sleep Report Data

Provide user sleep data and its related information, such as the values of sleep and sleep date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/sleep.json/>

Important,

In the URL, the value of sleep.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters :

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the sleep data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the sleep data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the sleep data ends, it must be later than start_time. ex: 1331554332

The sample:

https://api.ihealthlabs.com:8443/openapiv2/application/sleep.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3fthis%3dthat&access_token=xpoBt0ThQQ*****&start_time=1342004920&end_time=1405076920&page_index=1&sc=d63493704c*****&sv=68d3f571e6*****

The Response Content

The returned values:

Parameter	Description
SRDataList	The data detail of Sleep Awaken: Number of times awoken DataID: the unique identity Fallsleep: Time until asleep HoursSlept: the length of sleep SleepEfficiency: sleep efficiency Lat: the latitude of the testing place Lon: the longitude of the testing place

	StartTime: Start time of sleep EndTime: End time of sleep MDate: measurement datetime userid: unique identity of user Note: the note of this data LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices TimeZone: Time zone of measurement location
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON:

```
{
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fsleep.json%2f%
    3fclient_id%3d9b9c759*****%26client_secret%3d4738f9d00e*****%26redirect_uri%3dhttp
    %253a%252f%252fapi.testweb2.com%252foauth2.test.aspx%26access_token%3dXp0Bt0ThQQ***
    ***%26start_time%3d1342004920%26end_time%3d1405076920%26page_index%3d2%26sc%3d
    d63493704c*****%26sv%3d68d3f571e6*****",
  "PageLength": 50,
  "PageNumber": 1,
  "PrevPageUrl": "",
  "RecordCount": 288,
  "SRDataList": [
    {
      "Awaken": 18,
      "DataID": "e4f6ccd45f904eb38d0e4d5e92b*****",
      "EndTime": 1375717500,
      "FallSleep": 730,
      "HoursSlept": 4745,
      "Lat": 137.4036395500431,
      "Lon": 48.6359133304264,
      "MDate": 1375717536,
      "Note": ""
    }
  ]
}
```



```

        "SleepEfficiency": 92,
        "StartTime": 1375713900,
        "userid": "00da89f1405e479782528afeed5*****",
        "LastChangeTime": 1392549311,
        "DataSource": "FromDevice",
        "TimeZone": "-0600"
    }
    .....
]
}
XML:
<?xml version="1.0" encoding="utf-8"?>
<DownloadSleepReportDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <SRDataList>
        <DownloadSleepReportDataEntity>
            <SleepEfficiency>92</SleepEfficiency>
            <FallSleep>730</FallSleep>
            <StartTime>1375713900</StartTime>
            <EndTime>1375717500</EndTime>
            <Note/>
            <Lon>48.6359133304264</Lon>
            <Lat>137.4036395500431</Lat>
            <DataID>e4f6ccd45f904eb38d0e4d5e92b*****</DataID>
            <HoursSlept>4745</HoursSlept>
            <Awaken>18</Awaken>
            <userid>00da89f1405e479782528afeed5*****</userid>
            <MDate>1375717536</MDate>
            <LastChangeTime>1392555926</LastChangeTime>
            <DataSource>FromDevice</DataSource>
            <TimeZone>-0600</TimeZone>
        .....
    </DownloadSleepReportDataEntity>
</SRDataList>
<CurrentRecordCount>50</CurrentRecordCount>

<NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fsl
eep.xml%2f%3felient_id%3dddb9cbc759*****%26client_secret%3d4738f9d00e*****%26redire
ct_uri%3dhttp%253a%252f%252fapi.testweb2.com%252foauthtest.aspx%26access_token%3dxp
oBt0ThQQ*****%26start_time%3d1342004920%26end_time%3d1405076920%26page_index%
3d2%26sc%3dd63493704c*****%26sv%3d68d3f571e6*****</NextPageUrl>
    <PageLength>50</PageLength>
    <PageNumber>1</PageNumber>
    <PrevPageUrl/>

```

```
<RecordCount>288</RecordCount>  
</DownloadSleepReportDataResultEntity>
```

7.6.3 Post Sleep Data

Add new sleep data by posting through the API.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/sleep.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of sleep.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
StartTime	Yes	Start Time of sleep
EndTime	Yes	End Time of sleep
FallSleep	Yes	Time until asleep
SleepEfficiency	Yes	Sleep efficiency
Lat	No	The latitude of the testing place
Lon	No	The longitude of the testing place

Note	No	The note of this data
------	----	-----------------------

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/sleep.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Post

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "sleep"

The sample :

JSON:

```
{
  "StartTime": "2014-04-22 07:00:00",
  "EndTime": "2014-04-22 15:00:00",
  "FallSleep": 0.5,
  "SleepEfficiency": 80,
  "Lat": 0,
  "Lon": 0,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "sleep"
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<UploadSleepEntity>
  <StartTime>2014-04-22 07:00:00</StartTime>
  <EndTime>2014-04-22 15:00:00</EndTime>
  <FallSleep>0.5</FallSleep>
  <SleepEfficiency>80</SleepEfficiency>
  <Lat>0</Lat>
  <Lon>0</Lon>
```

```
<MDate>1395702600</MDate>
<TimeZone>+0800</TimeZone>
<Note>sleep</Note>
</UploadSleepEntity>
```

7.6.4 Put Sleep Data

Update sleep data

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/sleep.json/

Important,

In the URL, 05dffbe0dd***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of sleep.json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv
[user-id]	Unique ID of the user
request_type	Get: Download Data Post: Add Data Put: Update Data

Optional Parameters:

Parameter	Description
querynumber	Received from 3rd party. iHealth API will respond with matching querynumber
[data-type]	Two data formats json/xml

Post Parameters:

Parameter	Required?	Description
DataID	Yes	The unique identity
MDate	Yes	Measurement date time
TimeZone	Yes	Time zone of measurement location
StartTime	Yes	Start time of sleep
EndTime	Yes	End time of sleep
FallSleep	Yes	Time until asleep
SleepEfficiency	Yes	Sleep efficiency
Lat	No	The latitude of the testing place

Lon	No	The longitude of the testing place
Note	No	The note of this data

The sample

https://api.ihealthlabs.com:8443/openapiv2/user/05dffbe0dd*****/sleep.json/?client_id=ddb9cbc759*****&client_secret=4738f9d00e*****&access_token=xpoBt0ThQQ*****&sc=d63493704c*****&sv=113cb40956*****&querynumber=werwe12123&request_type=Put

The Response Content

The returned values:

Parameter	Description
DataID	The unique identity
client_para	The same value to request. If it is not defined by request, the result will be an empty string
DataType	Data type. Eg. "sleep"

The sample :

JSON:

```
{
  "DataID": "notei23jsunsdfnfo****",
  "StartTime": "2014-04-22 07:00:00",
  "EndTime": "2014-04-22 15:00:00",
  "FallSleep": 0.5,
  "SleepEfficiency": 80,
  "Lat": 0,
  "Lon": 0,
  "MDate": 1395702600,
  "TimeZone": "+0800",
  "Note": "sleep"
}
```

XML:

```
<?xml version="1.0" encoding="utf-8"?>
<UpdateSleepEntity>
  <DataID>notei23jsunsdfnfo****</DataID>
  <StartTime>2014-04-22 07:00:00</StartTime>
  <EndTime>2014-04-22 15:00:00</EndTime>
  <FallSleep>0.5</FallSleep>
```

```

    <SleepEfficiency>80</SleepEfficiency>
    <Lat>0</Lat>
    <Lon>0</Lon>
    <MDate>1395702600</MDate>
    <TimeZone>+0800</TimeZone>
    <Note>sleep</Note>
  </UpdateSleepEntity>

```

7.7 Request for data of Food

7.71 Application Interface: OpenApiFood

Provide user food data and its related information, such as the values of food and food date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/a541512657584*****/food.json/

Important,

In the URL, a541512657584*****means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of food .json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the food data starts, ex:1331554332(starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the food data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the food data ends, it must be later than start_time. ex: 1331554332

The sample:

https://api.ihealthlabs.com:8443/openapiv2/user/a541512657584*****/food.json/?access_token=XwZLq1FGG*****&client_id=fb5ecd356*****&client_secret=f469e9ab1*****&redirect_uri=http%3a%2f%2f+yourcallback.com%2f%3fthis%3dthat&sc=58cee4ea*****&sv=f62932d***&locale=en_US&page_index=2

The Response Content

The returned values:

Parameter	Description
FoodDataList	The data detail of Food FoodName: the name of food MDate: measurement date time Lat: the latitude of the testing place Lon: the longitude of the testing place DataID: the unique identity Calories: The total calories consumed Amount: Weight of the food TimeZone: Time zone of measurement location FoodKind: Types of food LastChangeTime: Time of last change (UTC)
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
FoodUnit	The unit of food (The explanation of value)

The sample :

JSON:

```
{
  "CurrentRecordCount": 50,
  "FoodDataList": [
    {
      "Amount": 99.99999999999999,
      "Calories": 123,
      "DataID": "c2c779fa91ea*****",
      "FoodKind": "Breakfast",
      "FoodName": "eggs",
      "Lat": -1,
```

```

        "Lon": -1,
        "MDate": 1395021960,
        "TimeZone": -1,
        "LastChangeTime": 1395021960,
        "DataSource": "FromDevice"
    }
    .....
    ],
    "FoodUnit": 0,
    "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2fa541512657584*****
%2ffood.json%2f%3faccess_token%3dXwZLq1FGG*****%26client_id%3dfb5ecd356*****
%26client_secret%3df469e9ab1*****%26redirect_uri%3dhttp%253a%252f%252f%2byourcallb
ack.com%252f%253fthis%253dthat%26sc%3d58cee4ea*****%26sv%3df62932d*****%26lo
cale%3den_US%26page_index%3d2",
    "PageLength": 50,
    "PageNumber": 1,
    "PrevPageUrl": "",
    "RecordCount": 288
}

```

XML:

```

<?xml version="1.0" encoding="UTF-8" ?>
<DownloadFoodDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <FoodDataList>
        <DownloadFoodDataEntity>
            <Amount>99.99999999999999</Amount>
            <Calories>123</Calories>
            <DataID>c2c779fa91ea*****</DataID>
            <FoodKind>Breakfast</FoodKind>
            <FoodName>eggs</FoodName>
            <Lat>-1</Lat>
            <Lon>-1</Lon>
            <MDate>1395021960</MDate>
            <TimeZone>-1</TimeZone>
            <LastChangeTime>1392555926</LastChangeTime>
            <DataSource>FromDevice</DataSource>
        </DownloadFoodDataEntity>
    .....
    </FoodDataList>
    <CurrentRecordCount>50</CurrentRecordCount>

    <FoodUnit>0</FoodUnit>
    <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2fa54

```



```
1512657584*****%2ffood.xml%2f%3faccess_token%3dXwZLq1FGG*****%26client_id%3d
dfb5ecd356*****%26client_secret%3df469e9ab1*****%26redirect_uri%3dhttp%253a%252f
%252f%2byourcallback.com%252f%253fthis%253dthat%26sc%3d58cee4ea*****%26sv%3df6
2932d*****%26locale%3den_US%26page_index%3d2</NextPageUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl></PrevPageUrl>
  <RecordCount>288</RecordCount>
</DownloadFoodDataResultEntity>
```

7.7.2 Application Interface: Get All Food Data

Provide user food data and its related information, such as the values of food and food date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/food.json/>

Important,

In the URL, the value of food .json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters :

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the food data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the food data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the food data ends, it must be later than start_time. ex: 1331554332

The sample:

https://api.ihealthlabs.com:8443/openapiv2/application/food.json/?access_token=XwZLq1FGGQs2pI*****&client_id=fb5ecd35*****&client_secret=f469e9a*****&redirect_uri=http%3a%2f%2f+yourcallback.com%2f%3fthis%3dthat&sc=58cee4eae6f94*****&sv=f62932d1dae*****&locale=en_US&page_index=2&start_time=13*****&end_time=13*****

The Response Content

The returned values:

Parameter	Description
FoodDataList	The data detail of Food FoodName: the name of food MDate: measurement date time Lat: the latitude of the testing place Lon: the longitude of the testing place DataID: the unique identity Calories: The total calories consumed Amount: Weight of the food TimeZone: Time zone of measurement location FoodKind: Types of food userid: unique identity of user LastChangeTime: Time of last change (UTC)
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records
FoodUnit	The unit of food (The explanation of value)

The sample :

JSON:

```
{
  "CurrentRecordCount": 1,
  "FoodDataList": [
    {
      "Amount": 3.5,
      "Calories": 36.7126324145,
      "DataID": "0689eff7d838*****",
      "FoodKind": "Breakfast",
      "FoodName": " "Fragrant snow"  wine, sweet",
```

```

        "Lat": -1,
        "Lon": -1,
        "MDate": 1396323974,
        "TimeZone": -1,
        "userid": "89b7fd5886284*****",
        "LastChangeTime": 1396323974,
        "DataSource": "FromDevice"
    }
    .....
    ],
    "FoodUnit": 0,
    "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2ffood.json%2f%3
    faccess_token%3dXwZLq1FGGQs2pI*****%26client_id%3dfb5ecd35*****%26client_secret
    %3df469e9a*****%26redirect_uri%3dhttp%253a%252f%252f%2byourcallback.com%252f%25
    3fthis%253dthat%26sc%3d58cee4eae6f94*****%26sv%3df62932d1dae*****%26locale%3de
    n_US%26page_index%3d2%26start_time%3d13*****%26end_time%3d13*****",
    "PageLength": 50,
    "PageNumber": 1,
    "PrevPageUrl": "",
    "RecordCount": 288
}
XML:
<?xml version="1.0" encoding="UTF-8" ?>
<DownloadFoodDataResultEntity      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <FoodDataList>
        <DownloadFoodDataEntity>
            <Amount>3.5</Amount>
            <Calories>36.7126324145</Calories>
            <DataID>0689eff7d838*****</DataID>
            <FoodKind>Breakfast</FoodKind>
            <FoodName> “Fragrant snow” wine, sweet</FoodName>
            <Lat>-1</Lat>
            <Lon>-1</Lon>
            <MDate>1396323974</MDate>
            <TimeZone>-1</TimeZone>
            <userid>89b7fd5886284*****</userid>
            <LastChangeTime>1396323974</LastChangeTime>
            <DataSource>FromDevice</DataSource>
        </DownloadFoodDataEntity>
        .....
    </FoodDataList>
    <CurrentRecordCount>1</CurrentRecordCount>

```

```

<FoodUnit>0</FoodUnit>
<NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication
%2ffood.xml%2f%3faccess_token%3dXwZLq1FGGQs2pI*****%26client_id%3dfb5ecd35***
***%26client_secret%3df469e9a*****%26redirect_uri%3dhttp%253a%252f%252f%2byourcall
back.com%252f%253fthis%253dthat%26sc%3d58cee4eae6f94*****%26sv%3df62932d1dae**
****%26locale%3den_US%26page_index%3d2%26start_time%3d13*****%26end_time%3d1
3*****</NextPageUrl>
<PageLength>50</PageLength>
<PageNumber>1</PageNumber>
<PrevPageUrl></PrevPageUrl>
<RecordCount>288</RecordCount>
</DownloadFoodDataResultEntity>

```

7.8 Request for data of Sport Report

7.8.1 Application Interface: OpenApiSport

Provide user sport data, and its related information, such as the values of sport and sport date and time.

The Request Content

iHealth OpenAPI V2

Request URL: https://api.ihealthlabs.com:8443/openapiv2/user/a5415126*****/sport.json/

Important,

In the URL, a5415126***** means the UserID retrieved by AccessToken, which is required; otherwise, the user information cannot be accessed.

In the URL, the value of sport .json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters:

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the sport data starts, ex:1331554332 (starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the sport data would start from one year ago

page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the sport data ends, it must be later than start_time. ex: 1331554332

The sample:

https://api.ihealthlabs.com:8443/openapiv2/user/a5415126*****/sport.json/?access_token=XwZLq1FGG*****&client_id=fb5ecd35*****&client_secret=f469e9ab*****&redirect_uri=http%3a%2f%2f+yourcallback.com%2f%3dthat&sc=58cee4eae*****&sv=13867e862*****&locale=en_US&page_index=2

The Response Content

The returned values:

Parameter	Description
SPORTDataList	The data detail of Sport SportName: the name of sport SportStartTime: Start time of sport SportEndTime:End time of sport TimeZone: Time zone of measurement location Lat: the latitude of the testing place Lon: the longitude of the testing place DataID: the unique identity Calories: The total calories consumed LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON:

```
{
  "CurrentRecordCount": 50,
  "NextPageUrl":
```

```
"https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2fa5415126*****%2fsp
ort.json%2f%3faccess_token%3dXwZLq1FGG*****%26client_id%3dfb5ecd35*****%26clie
nt_secret%3df469e9ab*****%26redirect_uri%3dhttp%253a%252f%252f%2byourcallback.com
%252f%253fthis%253dthat%26sc%3d58cee4eae*****%26sv%3d13867e862*****%26locale
%3den_US%26page_index%3d2",
```

```
"PageLength": 50,
"PageNumber": 1,
"PrevPageUrl": "",
"RecordCount": 100,
"SPORTDataList": [
  {
    "Calories": 47.5,
    "DataID": "b88c3a09c*****",
    "Lat": -1,
    "Lon": -1,
    "SportName": "Wii Sports, baseball",
    "SportStartTime": 1394053586,
    "SportEndTime": 1394055386,
    "TimeZone": -1,
    "LastChangeTime": 1394055386,
    "DataSource": "FromDevice"
  }
]
```

```
.....
]
```

```
}
```

XML:

```
<?xml version="1.0" encoding="UTF-8" ?>
< DownloadSportDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <CurrentRecordCount>50</CurrentRecordCount>
  <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fuser%2fa54
15126*****%2fspport.xml%2f%3faccess_token%3dXwZLq1FGG*****%26client_id%3dfb5ec
d35*****%26client_secret%3df469e9ab*****%26redirect_uri%3dhttp%253a%252f%252f%2
byourcallback.com%252f%253fthis%253dthat%26sc%3d58cee4eae*****%26sv%3d13867e862
*****%26locale%3den_US%26page_index%3d2</NextPageUrl>
  <PageLength>50</PageLength>
  <PageNumber>1</PageNumber>
  <PrevPageUrl></PrevPageUrl>
  <RecordCount>100</RecordCount>
  <SPORTDataList>
    <DownloadSportDataEntity>
      <Calories>47.5</Calories>
      <DataID>b88c3a09c*****</DataID>
      <Lat>-1</Lat>
```

```

        <Lon>-1</Lon>
        <SportName>Wii Sports, baseball</SportName>
        <SportStartTime>1394053586</SportStartTime>
        <SportEndTime>1394055386</SportEndTime>
        <TimeZone>-1</TimeZone>
        <LastChangeTime>1396323974</LastChangeTime>
        <DataSource>FromDevice</DataSource>
        <DownloadSportDataEntity>
.....
    </SPORTDataList>
</DownloadSportDataResultEntity>

```

7.8.2 Application Interface: Get All Sport Report Data

Provide user sport data and its related information, such as the values of sport and sport date and time.

The Request Content

iHealth OpenAPI V2

Request URL: <https://api.ihealthlabs.com:8443/openapiv2/application/sport.json/>

Important,

In the URL, the value of sport .json is the format of the data you want to fetch, we can support two different kinds of file packages, .json and .xml.

Required Parameters :

Parameter	Description
Client_id	The ID for the client request
client_secret	The key for the request
access_token	The token for access
sc	The serial number for the user
sv	This is type of one on one value based on sv

Optional Parameters:

Parameter	Default	Description
start_time	Date time now	The Unix time of when the sport data starts, ex:1331554332(starting from 1970-01-01 0:0:0 until the present date and time, the unit is second) When it is null, the sport data would start from one year ago
page_index	First page	The page index of data, which starts from 1
locale	Default (example in Appendix)	Set the locale / units returned
end_time	Over the past year	The Unix time of when the sport data ends, it must be later than start_time. ex: 1331554332

The sample:

https://api.ihealthlabs.com:8443/openapiv2/application/sport.json/?access_token=XwZLq1FGGQs2pI*****&client_id=fb5ec*****&client_secret=f469e9ab121d*****&redirect_uri=http%3a%2f%2fyourcallback.com%2f%3dthis%3dthat&sc=58cee4eae6f*****&sv=13867e8*****&locale=en_US&page_index=2

The Response Content

The returned values:

Parameter	Description
SPORTDataList	The data detail of Sport SportName: the name of sport SportStartTime: Start time of sport SportEndTime: End time of sport TimeZone: Time zone of measurement location Lat: the latitude of the testing place Lon: the longitude of the testing place DataID: the unique identity Calories: The total calories consumed userid: unique identity of user LastChangeTime: Time of last change (UTC) DataSource: Provides the data source. "Manual" is from manual data entries. "FromDevice" is for data acquired from iHealth devices
CurrentRecordCount	The count of current page
NextPageUrl	The url of next page
PageLength	The length of one page
PageNumber	The total page count of data records
PrevPageUrl	The url of previous page
RecordCount	The total number of data records

The sample :

JSON:

```
{
  "CurrentRecordCount": 50,
  "NextPageUrl":
    "https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication%2fsport.json%2f%3daccess_token%3dXwZLq1FGGQs2pI*****%26client_id%3dfb5ec*****%26client_secret%3df469e9ab121d*****%26redirect_uri%3dhttp%253a%252f%252f%2byourcallback.com%252f%253dthis%253dthat%26sc%3d58cee4eae6f*****%26sv%3d13867e8*****%26locale%3den_US%26page_index%3d2",

```



```

    "PageLength": 50,
    "PageNumber": 1,
    "PrevPageUrl": "",
    "RecordCount": 100,
    "SPORTDataList": [
        {
            "Calories": 47.5,
            "DataID": "b88c3a09c*****",
            "Lat": -1,
            "Lon": -1,
            "SportName": "Wii Sports, baseball",
            "SportStartTime": 1394053586,
            "SportEndTime": 1394055386,
            "TimeZone": -1,
            "userid": "a54151265*****",
            "LastChangeTime": 1394055386,
            "DataSource": "FromDevice"
        }
    ]
}
.....
]
}
XML:
<?xml version="1.0" encoding="UTF-8" ?>
< DownloadSportDataResultEntity xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <CurrentRecordCount>50</CurrentRecordCount>
    <NextPageUrl>https%3a%2f%2fapi.ihealthlabs.com%3a8443%2fopenapiv2%2fapplication
%2fsport.xml%2f%3faccess_token%3dXwZLq1FGGQs2pI*****%26client_id%3dfb5ec*****
%26client_secret%3df469e9ab121d*****%26redirect_uri%3dhttp%253a%252f%252f%2byourc
allback.com%252f%253fthis%253dthat%26sc%3d58cee4eae6f*****%26sv%3d13867e8*****
%26locale%3den_US%26page_index%3d2</NextPageUrl>
    <PageLength>50</PageLength>
    <PageNumber>1</PageNumber>
    <PrevPageUrl></PrevPageUrl>
    <RecordCount>100</RecordCount>
    <SPORTDataList>
        <DownloadSportDataEntity>
            <Calories>47.5</Calories>
            <DataID>b88c3a09c*****</DataID>
            <Lat>-1</Lat>
            <Lon>-1</Lon>
            <SportName>Wii Sports, baseball</SportName>
            <SportStartTime>1394053586</SportStartTime>
            <SportEndTime>1394055386</SportEndTime>

```

```
<TimeZone>-1</TimeZone>
<userid>a54151265*****</userid>
<LastChangeTime>1396323974</LastChangeTime>
<DataSource>FromDevice</DataSource>
<DownloadSportDataEntity>
.....
</SPORTDataList>
</DownloadSportDataResultEntity>
```

8. iHealth Subscriptions API (PubSub)

Subscription notifications are only available for users that authorize the partner app for data access through OAuth. When one of these events are created or deleted, a notification is pushed to the registered webhook.

The webhook URL is set on the application configuration page when you edit your application. Setting a webhook URL and selecting “Enable” will enable the callback notification service for your application.

The webhook must return a 200 response code on receiving a callback successfully. If the callback to webhook does not result in a successful response, two additional retries will be attempted. A notification is dropped after three tries.

A list of events that have been affected will be sent. Note that these events will not be time ordered.

Sample JSON payload expected with callback:

```
[
  {
    "CollectionType": "bp",
    "MDate": "2010-03-01 13:45:01",
    "UserID": "05dffbe0dd*****",
    "SubscriptionId": "1234",
  },
  {
    "CollectionType": "weight",
    "MDate": "2010-03-02 07:39:57",
    "UserID": "05dffbe0dd*****",
    "SubscriptionId": "1234",
  },
  {
    "CollectionType": "sleep",
    "MDate": "2010-03-01 13:48:31",
    "UserID": "05dffbe0dd*****",
    "SubscriptionId": "2345",
  }
]
```

Field Descriptions

Parameter	Description	Options
CollectionType	Data Type	bp,weight,glucose,spo2,activity,sleep, userinfo,food
MDate	Update Time	
UserID	User Identity	
SubscriptionId	Push Identity	

9. iHealth Push API

The push API will allow for data transmission to be near real-time, enabling more comprehensive data and improving data accessibility. To enable the pushing of data, you must first register and have a valid API application. In the developer application page, enter the address that data will be pushed to. Your application will be reviewed and will need to be approved in order to enable push API services. The only format that is supported is JSON, and there are different units for different areas.

9.1 Push data of Blood Pressure

The Response Content

The returned values

Parameter	Description
CollectionType	bp glucose spo2 weight food sport sleep activity userinfo
CollectionUnit	The unit of blood pressure (The explanation of value)
DataId	The unique identity
Diastolic	Diastolic blood pressure
Systolic	Systolic blood pressure
HeartRate	Heart rate
Lat	The latitude of the testing place
Lon	The longitude of the testing place
MeasureTime	Measurement date time
LastChangeTime	The last changing time of the data (UTC)
Note	The note of this data
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg. +01:00
PushId	The unique identity of the Push
UserId	The unique identity of the User

The Sample

JSON

```
{  
  "CollectionType": "bp",  
  "CollectionUnit": 0,
```

```

"Data": {

    "DataId": "d1ea4f3bfd4e4043807c26e909f*****",

    "Diastolic": 45,
    "HearthRate": 45,
    "Lat": 0,
    "Lon": 0,
    "MeasureTime": "2014-05-12 17:25:30",
    "LastChangeTime": "2014-05-12 17:25:30",
    "Note": "56",
    "Systolic": 90,
    "TimeZone": "+0000",
    "time_zone": "+01:00"
    },
    "PushId": "9f543f2bca8343e2bc1f44b2d10*****",
    "UserID": "71a73a3cdc55443cb1086c259f3*****"
}

```

9.2 Push data of Weight

The Response Content

The returned values

Parameter	Description
CollectionType	bp glucose spo2 weight food sport sleep activity
CollectionUnit	The unit of weight (The explanation of value)
BMI	BMI of weight
BoneValue	The weight of bone in body
DataId	The unique identity
FatValue	Body fat
Lat	The latitude of the testing place
Lon	The longitude of the testing place
MeasureTime	Measurement date time
LastChangeTime	The last changing time of the data (UTC)
MuscleValue	The weight of muscle in body
Note	The note of this data
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg.+01:00
VisceraFatLevel	Visceral fat levels
WaterValue	The weight of water in body
WeightValue	Bdy weight

PushId	The unique identity of the Push
UserId	The unique identity of the User

The Sample

JSON

```
{
  "CollectionType": "weight",
  "CollectionUnit": 0,
  "Data": {
    "BMI": 0,
    "BoneValue": 15,
    "DataId": "d3bf513182fb4b0eab7703e49f7*****",
    "FatValue": 18,
    "Lat": 0,
    "Lon": 0,
    "MeasureTime": "2014-04-04 00:10:38",
    "LastChangeTime": "2014-04-04 00:10:38",
    "MuscleValue": 13,
    "Note": "",
    "TimeZone": "+0000",
    "time_zone": "+01:00",
    "VisceraFatLevel": 0,
    "WaterValue": 81,
    "WeightValue": 27.669167475574024
  },
  "PushId": "91d975df4e384848bfa03c46487*****",
  "UserID": "6239f842dec4427f8c2c6dfd4b6*****"
}
```

9.3 Push data of BG

The Response Content

The returned values

Parameter	Description
CollectionType	bp glucose spo2 weight food sport sleep activity
CollectionUnit	The unit of glucose (The explanation of value)

BG	Glucose value
DataID	The unique identity
DinnerSituation	Meal information
DrugSituation	Medicine information
Lat	The latitude of the testing place
Lon	The longitude of the testing place
MeasureTime	Measurement date time
LastChangeTime	The last changing time of the data (UTC)
Note	The note of this data
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg.+01:00
PushId	The unique identity of the Push
UserId	The unique identity of the User

The Sample

JSON

```
{
  "CollectionType": "glucose",
  "CollectionUnit": 0,
  "Data": {
    "BG": 170,
    "DataId": "bde6fac35ff6402982d84eaaa33*****",
    "DinnerSituation": "After_dinner",
    "DrugSituation": "Before_taking_pills",
    "Lat": 0,
    "Lon": 0,
    "MeasureTime": "2014-04-08 00:09:46",
    "LastChangeTime": "2014-04-08 00:09:46",
    "Note": "",
    "TimeZone": "+0000",
    "time_zone": "+01:00"
  },
  "PushId": "e95ec488e0b94654ab6cfc3b35d*****",
  "UserID": "6239f842dec4427f8c2c6dfd4b6*****"
}
```

9.4 Push data of Blood Oxygen

The Response Content

The returned values

Parameter	Description
CollectionType	bp glucose spo2 weight food sport sleep activity
CollectionUnit	None
BloodOxygen	BloodOxygen value
DataId	The unique identity
HeartRate	Heart rate
Lat	The latitude of the testing place
Lon	The longitude of the testing place
MeasureTime	Measurement date time
LastChangeTime	The last changing time of the data (UTC)
Note	The note of this data
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg.+01:00
PushId	The unique identity of the Push
UserId	The unique identity of the User

The Sample

JSON

```
{
  "CollectionType": "spo2",
  "CollectionUnit": 0,
  "Data": {
    "BloodOxygen": 77,
    "DataId": "c58dd5f85f9f4dc59baa06d17f9*****",
    "HeartRate": 77,
    "Lat": 0,
    "Lon": 0,
    "MeasureTime": "2014-04-09 19:04:27",
    "LastChangeTime": "2014-04-09 19:04:27",
    "Note": "",
    "TimeZone": "+0000",
    "time_zone": "+01:00"
  },
  "PushId": "a548d319997c47778a20a0b4fa6*****",
  "UserID": "6239f842dec4427f8c2c6dfd4b6*****"
}
```

9.5 Push data of Activity Report

The response Content

The return values

Parameter	Description
CollectionType	bp glucose spo2 weight food sport sleep activity
CollectionUnit	Distance Unit (The explanation of value)
Calories	The total calories consumed
DataId	The unique identity
DistanceTraveled	Distance
Lat	The latitude of the testing place
Lon	The longitude of the testing place
MeasureTime	Measurement date time
LastChangeTime	The last changing time of the data (UTC)
Note	The note of this data
StepLength	The length of each stride
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg.+01:00
PushId	The unique identity of the Push
UserId	The unique identity of the User

The Sample

JSON

```
{
  "CollectionType": "activity",
  "CollectionUnit": 0,
  "Data": {
    "Calories": 153,
    "DataId": "bflb49e635924db1860d1d0ccd3*****",
    "DistanceTraveled": 0,
    "Lat": 0,
    "Lon": 0,
    "MeasureTime": "2014-04-08 20:39:50",
    "LastChangeTime": "2014-04-08 20:39:50",
    "Note": null,
    "StepLength": 61,
    "TimeZone": "+0000",
```

```

        "time_zone": "+01:00"
    },
    "PushId": "8ed447954da04459ba542b3b435*****",
    "UserId": "6239f842dec4427f8c2c6dfd4b6*****"
}

```

9.6 Push data of Sleep Report

The Response Content

The returned values

Parameter	Description
CollectionType	bp glucose spo2 weight food sport sleep activity
CollectionUnit	None
Awaken	Number of times awoken
DataId	The unique identity
StartTime	Start time of sport
EndTime	End time of sport
Lat	The latitude of the testing place
Lon	The longitude of the testing place
Note	The note of this data
FallSleep	The length of deep sleep
MeasureTime	Measurement date time
LastChangeTime	The last changing time of the data (UTC)
SleepEfficiency	Sleep efficiency
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg.+01:00
PushId	The unique identity of the Push
UserId	The unique identity of the User

The Sample

JSON

```

{
    "CollectionType": "sleep",
    "CollectionUnit": 0,
    "Data": {
        "Awaken": 2,

```

```

    "DataId": "5acfb852a435481ea63ad80a0fc*****",
    "EndTime": "2014-04-10 07:18:00",
    "FallSleep": 144,
    "Lat": 0,
    "Lon": 0,
    "MeasureTime": "2014-04-10 15:18:00",
    "Note": "",
    "SleepEfficiency": 90,
    "StartTime": "2014-04-09 22:18:00",
    "LastChangeTime": "2014-04-09 22:18:00",
    "TimeZone": "+0000",
    "time_zone": "+01:00"
  },
  "PushId": "27da6019934044209706b145d38*****",
  "UserId": "6239f842dec4427f8c2c6dfd4b6*****"
}

```

9.7 Push data of Food

The Response Content

The returned values

Parameter	Description
CollectionType	bp glucose spo2 wight food sport sleep activity
CollectionUnit	The unit of food (The explanation of value)
AmountFood	Weight of the food
DataId	The unique identity
EatingTime	This is the time to eat
LastChangeTime	The last changing time of the data (UTC)
FoodKind	Types of food
FoodName	The name of food
Lat	The latitude of the testing place
Lon	The longitude of the testing place
SourceGuid	Data sources are appsid
SourceKind	This is the type of motion
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg.+01:00
UnitCalore	Unit calore
PushId	The unique identity of the Push
UserId	The unique identity of the User

The Sample

JSON

```
{
  "CollectionType": "food",
  "CollectionUnit": 1,
  "Data": {
    "AmountFood": 0,
    "DataId": "a1a6e3a2433844c09e120d066ee*****",
    "EatingTime": "2014-04-05 00:12:16",
    "LastChangeTime": "2014-04-05 00:12:16",
    "FoodKind": "Breakfast",
    "FoodName":
      "Apple+juice%2c+frozen+concentrate%2c+unsweetened%2c+diluted+with+3+volume+water+wi
      thout+added+ascorbic+acid",
    "Lat": -1,
    "Lon": -1,
    "SourceGuid": "DRI000362",
    "SourceKind": "Base",
    "TimeZone": "+0000",
    "time_zone": "+01:00",
    "Calories": 0
  },
  "PushId": "aa3920c0e36b499f8e5db6d8ab9*****",
  "UserID": "6239f842dec4427f8c2c6dfd4b6*****"
}
```

9.8 Push data of Sport Report

The Response Content

The returned values

Parameter	Description
CollectionType	bp glucose spo2 weight food sport sleep activity
CollectionUnit	None
Calore	The total calories consumed
DataId	The unique identity
StartTime	Start time of sport
EndTime	End time of sport
LastChangeTime	The last changing time of the data (UTC)

Lat	The latitude of the testing place
Lon	The longitude of the testing place
Note	The note of this data
SourceGuid	Data sources are appsid
SourceKind	This is the type of motion
TimeZone	Time zone of measurement location
time_zone	Time zone of measurement location, eg.+01:00
PushId	The unique identity of the Push
UserId	The unique identity of the User
SportName	This is the name of sport

The Sample

JSON

```
{
  "CollectionType": "sport",
  "CollectionUnit": 0,
  "Data": {
    "Calore": 136,
    "DataId": "3c8431e802e94bc6a398d661ece*****",
    "EndTime": "2014-05-12 21:14:01",
    "Lat": -1,
    "Lon": -1,
    "Note": "",
    "SourceGuid": "SPO000131",
    "SourceKind": "Base",
    "SportName": "Hiking+-+cross+country",
    "StartTime": "2014-05-12 20:44:01",
    "LastChangeTime": "2014-05-12 20:44:01",
    "TimeZone": "+0000",
    "time_zone": "+01:00"
  },
  "PushId": "e1af00fffb2543468b2fe23131f*****",
  "UserID": "ac32952ad3844a52aa0852c6e3b*****"
}
```

10.Libraries & Examples

C#

<https://github.com/iHealthlabs/OpenAPI-V2/>

```
git clone git@github.com:iHealthlabs/OpenAPI-V2/.git
```

IOS

<https://github.com/iHealthlabs/OpenAPI-V2-IOS>

```
git clone git@github.com:iHealthlabs/OpenAPI-V2-IOS.git
```