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| --- | --- | --- | --- |
| **API Interface of Bluetooth**  **Measuring Equipment** | | **File No.:** | |
| **Issued Edition:** 1.0 | |
| **Product**  **Name:** | **Health Care API** | **Product**  **Model:** |  |

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| --- | --- |
| **Operation Instructions for API Interface of**  **Bluetooth Measuring Equipments**  Documented By Mailin.Lam  Audited By  Approved By  Issued Date | |
| **Responsible**  **Dept.** |  |

**Revision History**

|  |  |  |
| --- | --- | --- |
| **Edition** | **Description** | **Date** |
| V1.0 | Preliminary Connection Method and Data Definition | 2014-12-23 |

**List of API Fuctions (API Control)**

1. initWithself

Initializing Bluetooth devices service and set variables to default value

Example:

blueGetData = [[BluthGetDataViewController alloc]init];

[blueGetData initWithself];

blueGetData.delegate = self;

1. enableSearch

Enable to search the device

If you set the property ‘selectedMACADDRES’, after scan device done, will auto connect the specified device which macaddress is equal to.

If you not set the property ‘selectedMACADDRES’, after scan device done, will auto connect the device which is first found.

1. disableSearch

Close the search.

1. tryConnect

Connect the specified device.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| p | CBPeripheral | device |

1. tryDisconnect

Close the connection.

1. getMacAddress

Macaddress from current connected device

1. isConnected

Retrieve connection status.

1. getListUserExist

List of device user used status.

1. getListUserData

List of device user storage status.

1. updateUserData

update device user storage status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| pno | int | 0 - 7 |
| value | NSString | yes or no |

1. updateUserExist

update device user used status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| pno | int | 0 - 7 |
| value | NSString | yes or no |

1. enableSearchOtherDevices

Enable to search all the device which can found without connection.

This function is used for change new scale for device.

1. disableSearchOtherDevice

Disable to search all the device.

This function is used for change new scale for device.

1. getConnectedCBPeripheral

Retrive connected device.

**List of API Fuctions (APP to Bluetooth)**

1. scale\_setDateTime

set current date time to device.

1. BingToScale

Bing current user to device.

Retrive user no in event didBingToScaleStatus

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| height | NSString |  |
| age | NSString |  |
| sex | NSString | 0 – man, 1 – woman, 2 – sportsman, 3 - sportswoman |

1. unBingToScale

unBing user from device.

Retrieve status in event didUnBingToScaleStatus

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| pno | NSString | Bing user no from device |

1. BingToNewScale

Bing current user to new device.

Retrieve user no in event didBingToNewScaleStatus

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| pno | NSString | Bing user no from device |
| height | NSString |  |
| age | NSString |  |
| sex | NSString | 0 – man, 1 – woman, 2 – sportsman, 3 - sportswoman |

1. scale\_updateuser

update user info to device.

Retrieve status in event didUpdateUserStatus

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| pno | NSString | Bing user no from device |
| height | NSString |  |
| age | NSString |  |
| sex | NSString | 0 – man, 1 – woman, 2 – sportsman, 3 - sportswoman |

1. scale\_getUserList

get all user info from device.

Retrieve user info in event didGetUserList

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |

1. scale\_selectuser

Pass user info to device for measurement.

Retrieve status in event didSelectUserStatus

Retrieve measurement data in event didGetCurrentMeasurement

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| pno | NSString | Bing user no from device |
| height | NSString |  |
| age | NSString |  |
| sex | NSString | 0 – man, 1 – woman, 2 – sportsman, 3 - sportswoman |
| unit | NSString | kg,lb,st |

1. scale\_getUserMeasurements

Get measurement history data from device.

Retrieve measurements status in event didGetUserMeasurementsStatus

Retrieve measurement data in event didGetUserMeasurement

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| pno | NSString | Bing user no from device |

1. scale\_deleteUserMeasurements

After measurement history data from device, need use this function to delete storage in device

Retrieve status in event didDeleteMeasurementsStatus

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| pno | NSString | Bing user no from device |

1. scale\_reset

Reset user used status and storage data in device.

Retrieve status in event didScaleResetStatus

1. scale\_getModuleVersion

Retrieve Bluetooth device module version.

Return version in event didGetModuleVersion.

1. scale\_getBLEVersion

Retrieve BLE version.

Return version in event didGetBLEVersion.

1. scale\_guestuser

for guest user measurement testing.

Retrieve measurement data in event didGetCurrentMeasurement

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| macaddress | NSString | Device macaddress |
| height | NSString |  |
| age | NSString |  |
| sex | NSString | 0 – man, 1 – woman, 2 – sportsman, 3 - sportswoman |
| unit | NSString | kg,lb,st |

**List of API Events**

1. foundPeripheral

Device found

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| p | CBPeripheral |  |
| macaddress | NSString | Device macaddress |

1. didBingToScaleStatus

Recevie function BingToScale user no.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| pno | double | 0 - 7 |

1. didBingToNewScaleStatus

Recevie function BingToNewScale user no.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| pno | double | 0 - 7 |

1. didUnBingToScaleStatus

Recevie function unBingToScale status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| status | double | 1 – success |

1. didUpdateUserStatus

Recevie function scale\_updateuser status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| status | double | 1 – success |

1. didSelectUserStatus

Recevie function scale\_selectuser status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| status | double | 1 – success |

1. didGetUserMeasurementsStatus

Recevie function scale\_getUserMeasurements status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| status | double | 1 – success |
| rec | double | Records |

1. didDeleteMeasurementsStatus

Recevie function scale\_deleteUserMeasurements status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| status | double | 1 – success |

1. didScaleResetStatus

Recevie function scale\_reset status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| status | double | 1 – success |

1. didGetUserList

Recevie function scale\_getUserList status.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| pno | double | 0 - 7 |
| height | NSString |  |
| age | NSString |  |
| sex | NSString | 0 – man, 1 – woman, 2 – sportsman, 3 - sportswoman |

1. didGetCurrentMeasurement

Recevie current measurement data.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| pno | double | 0 - 7 |
| time | NSDate |  |
| weight | NSString |  |
| bf | NSString | Body fat |
| water | NSString |  |
| muscle | NSString |  |
| bone | NSString |  |
| bmr | NSString |  |
| sfat | NSString |  |
| infat | NSString |  |
| bodyage | NSString |  |
| amr | NSString |  |

1. didGetUserMeasurement

Recevie measurement history data.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| pno | double | 0 - 7 |
| time | NSDate |  |
| weight | NSString |  |
| bf | NSString | Body fat |
| water | NSString |  |
| muscle | NSString |  |
| bone | NSString |  |
| bmr | NSString |  |
| sfat | NSString |  |
| infat | NSString |  |
| bodyage | NSString |  |
| amr | NSString |  |
| seqno | int | This field for check if receive full measurement data. You can check this field if equalt to records from didGetUserMeasurementsStatus |

1. didGetLiveWeight

Recevie live weight.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| weight | NSString |  |
| islock | double | 1 – locked, 0 – unlock.  This field for judge if measurement data upload, if locked it means measurement uploading. |

1. didGetModuleVersion

Recevie function scale\_getModuleVersion version.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| version | double |  |

1. didGetBLEVersion

Recevie function scale\_getBLEVersion version.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| version | double |  |

1. didOverTimeStatus

Function overtime.

Parameter:

|  |  |  |
| --- | --- | --- |
| Field | Type | Description |
| cmdID | int |  |
| status | int | 1 - overtime |