**Sense-U Network Mobile APIs**

Date: 12 June 2014

（如果对此版本进行修改，请更新版本号，并转发所有相关人员）

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| --- | --- | --- | --- | --- |
| 序号 | 版本 | 修改日期 | 变更记录 | 修改人 |
| 1 | 1.0 | 2013-1-26 | 创建 | Shawn |
| 2 | 1.1 | 2013-6-2 | 修改 | Shawn |
| 3 | 1.2 | 2013-8-27 | 修改 | Shawn |
| 4 | 1.3 | 2013-11-23 | 增加唯一key |  |
| 5 | 1.4 | 2013-12-23 | 修改getdata，增加getfamily以及getsleep | Shawn |
| 6 | 1.5 | 2013-01-22 | 增加协议 | Niwei |
| 7 | 1.6 | 2014-1-27 | Getfamily 中增加返回数据 | Shawn |
| 8 | 1.6.1 | 2014-1-28 | 移除getfamily,改为getmembers,可以为friend和family提供数据，使用type变量指定引用  加入searchmember, sendrequest, getrequest, dealrequest | Shawn |
| 9 | 1.6.2 | 2014-1-30 | 完成sendmessage以及getmessage | Shawn |
| 10 | 1.6.3 | 2014-2-9 | 修改saveprofile中的变量名，username改为nickname  补充进之前存在的updatepower接口，上传sensor电量信息。 | Shawn |
| 11 | 1.6.4 | 2014-2-9 | Getmembers, 整体平均值改为用map形式直接寻址。 | Shawn |
| 12 | 1.6.5 | 2014-2-25 | Upload\_alert 改为上传alert列表 | Shawn |
| 13 | 1.7 | 2014-3-25 | 1. Upload\_alert 修改，上传信息后同时发送message到该sensorid绑定的手机devicetoken上； 2. 手机端login后，建立devicetoken与sensorid绑定（多对1关系，一个sensorid可绑定多个devicetoken） 3. Login加入了后台判断邮箱是否符合格式，密码是否为空，来源是否为空 4. Sign UP加入了后台判断邮箱是否符合格式，密码是否为空，来源是否为空 5. Ping.php 实现ping下好友 | Shawn |
| 14 | 1.7.1 | 2014-4-1 | 1. Getinfo修改，获得传感器更多数据值以及缺省goal 2. Saveprofile: 增加了一个写入默认goal值 3. Upload\_data修改，当传感器状态有调整时，upload后获得修改的传感器状态，用于手机或者notifier写入sensor。 |  |
| 15 | 1.7.2 | 2014-4-2 | 1. 增加markmessage，将信息设置为已读 2. getmessage,每条信息增加了messageid，用于markmessage |  |
| 16 | 1.7.3 | 2014-6-6 | 1. 加入removefriend接口 |  |
| 17 | 1.7.4 | 2014-6-11 | 1. saveprofile接口，APP更新数据时加入了语言上传。上传的语言代码将在getinfo时返回。 2. getinfo接口，返回语言代码 3. getmessage程序增加删除状态（接口没变化） 4. removemessage接口，删除短消息 5. ping接口修改了新的授权文件密码 6. sendmessage接口修改了新的授权文件密码，已经包含了发送信息 | Shawn |
| 18 | 1.7.5 | 2014-6-13 | 增加getdailyposition接口，按日期查询传感器状态统计 |  |

* 如接口未作特别说明，所有数据传入和返回格式均为json
* 接口地址URL保持统一，接口名称见文档

http://haisw.net/sense-u/res/接口名称.php

* 所有接口需要的source定义如下：

|  |  |
| --- | --- |
| source值（字符串形式） | 调用程序 |
| a | App 程序 |
| n | Notifier 程序 |
| w | Web， 网页端 |

接口总表：

|  |  |
| --- | --- |
| 接口名称 | 接口描述 |
| [login](#login) | 用户登录 |
| [signup](#signup) | 新用户注册 |
| [forget](#forget) | 密码找回 |
| getmembers | 获取sensor绑定家庭或好友成员信息 |
| [getinfo](#getinfo) | 获取登录用户名下的sensor详细信息 |
| [getdata](#getdata) | 获取sensor指定日期的数据信息 |
| [getsleep](#getdata) | 获取sensor指定日期的睡眠信息 |
| [saveupdated](#saveupdated) | Sensor更新数据后调用服务器修改更新状态 |
| [saveprofile](#saveprofile) | 保存用户信息，包括个人信息、密码、各种Goal的信息 |
| searchmembers | 查找家庭成员或好友，只能使用完整email地址查询 |
| sendrequest | 发送好友请求 |
| dealrequest | 处理好友请求 |
| updatepower | 上传sensor电量信息 |
| [upload\_data](#upload_data) | 上传sensor运动数据 |
| [upload\_alert](#upload_alert) | 警告信息上传 |
| sendmessage | 发送信息 |
| getmessage | 读取信息 |
| removemessage | 删除信息 |
| markmessage | 将消息设置为已读 |
| ping | 给好友发送一个即时提醒（用于好友ios手机装有app的情况下） |
| removefriend | 删除已关联好友 |
| getdailyposition | 返回查询日期的传感器状态统计 |

|  |  |  |  |
| --- | --- | --- | --- |
| 接口名称 | 参数 | 返回值 | 说明 |
| login  登陆 | email：邮箱  password：明文密码 | 成功：  status:202 //该用户没有添加任何sensor  userInfo  id:用户id  ucode：用户id  status:200  userInfo  id:用户id  ucode：用户id（36位字符串）  scode：sensor id（数字）  nickname:昵称  ecode: session code  kcode: 唯一验证码  登陆失败：  Status<>200, err=返回信息  101：用户名密码不匹配  403：邮箱不符合email格式（包括为空）  404：密码为空  405：source为空 | 密码会转换为md5加密后与数据库比对 |
| signup  注册 | email：邮箱  password：明文密码 | 成功：  status:201  userInfo  ucode：用户id（36位字符串）  scode：sensor id（数字）  ecode：senssion code  kcode：唯一识别码  失败：  Status<>201， err=返回信息  400：邮箱已存在  403：邮箱不符合email格式（包括为空）  404：密码为空  405：source为空 | 针对邮箱注册  现阶段默认一个sensor，注册后会自动关联一个sensorid。 |
| forget  忘记密码 | email：邮箱 | 成功：  status:200  失败：  status：401  邮箱不存在  status：402  邮件发送失败，返回发送错误信息 | 系统发送reset密码邮件到注册邮箱中。  密码reset页面尚未制作。 |
| getmembers  读取sensor绑定家庭或好友数据信息 | ucode：用户id  scode：sensorid  ecode：session  source：来源  dates：查询日期  type: 查询类型（friend/family） | 成功：  status:200  peopleList：成员信息  {"nickname":昵称  "head":头像图片地址  "scode":sensorid  percentage:完成百分比  {  "step":  "calories":  "distance":  "sleep":  }  values:完成值,用于具体显示各项数据  {  xxgoal:xx项目标值  xxtotal:xx项已完成值  }  alert{  time: H:i:s 警告时间  type:警告类型  describe:警告信息  }  station: 传感器状态  {  Totime:截止时间  Station：状态数据  {  id:状态类型  color：状态显示颜色  }  }  peopleAverange:平均完成百分比  "step":  "calories":  "distance":  "sleep":    ecode: session code  失败：  status：101  用户id不存在  status：102  用户id和sensorid关联错误 |  |
| Post:  {"type":"act","ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","dates":"2014-1-28","cdate":"2014-1-28 0:13:17","ecode":"GkwkYjVklmFFO6jC","source":"w"}  Return:  {"status":200,"familylist":[{"scode":"1","relation":"Me","nickname":"TestSohu","headimage":"p7pOARIt0PEB9JSppm9znMwZCJGAMLUS2FvP.jpg","percentage":{"step":0,"calories":0,"distance":0,"sleep":0},"values":{"stepgoal":6846,"caloriesgoal":5000,"distancegoal":4.8600001335144,"sleepgoal":480,"totalcal":25,"totalsteps":0,"totaldistance":0,"totalsleep":0},"alert":{"time":"00:04:20","type":"FA","describe":"fall down"},"station":[{"totime":"00:40:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"01:45:00","position":4,"station":{"id":"SIA","color":"#f29806"}},{"totime":"03:35:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"04:40:00","position":3,"station":{"id":"SI","color":"#f29806"}},{"totime":"05:50:00","position":4,"station":{"id":"SIA","color":"#f29806"}},{"totime":"07:00:00","position":3,"station":{"id":"SI","color":"#f29806"}},{"totime":"08:05:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"08:40:00","position":3,"station":{"id":"SI","color":"#f29806"}},{"totime":"09:40:00","position":6,"station":{"id":"RU","color":"#6aba0d"}},{"totime":"10:05:00","position":3,"station":{"id":"SI","color":"#f29806"}},{"totime":"10:40:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"11:05:00","position":4,"station":{"id":"SIA","color":"#f29806"}},{"totime":"12:05:00","position":5,"station":{"id":"WA","color":"#6aba0d"}},{"totime":"13:30:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"14:20:00","position":4,"station":{"id":"SIA","color":"#f29806"}},{"totime":"14:55:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"15:25:00","position":4,"station":{"id":"SIA","color":"#f29806"}},{"totime":"16:05:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"16:40:00","position":6,"station":{"id":"RU","color":"#6aba0d"}},{"totime":"18:10:00","position":4,"station":{"id":"SIA","color":"#f29806"}},{"totime":"19:10:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"20:10:00","position":4,"station":{"id":"SIA","color":"#f29806"}},{"totime":"21:05:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"21:55:00","position":3,"station":{"id":"SI","color":"#f29806"}},{"totime":"22:20:00","position":5,"station":{"id":"WA","color":"#6aba0d"}},{"totime":"23:05:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}},{"totime":"23:55:00","position":6,"station":{"id":"RU","color":"#6aba0d"}},{"totime":"23:59:00","position":0,"station":{"id":"UN","color":"#e0e0e0"}}]},{"scode":"91","relation":"Son","nickname":"new shawn","headimage":"avatar.gif","percentage":[],"values":[],"alert":[],"station":[]},{"scode":"138","relation":"Grandma","nickname":"","headimage":"avatar.gif","percentage":[],"values":[],"alert":[],"station":[]}],"familyAverange":[{"type":"steps","value":0},{"type":"calories","value":0},{"type":"distance","value":0},{"type":"sleep","value":0}],"ecode":"GkwkYjVklmFFO6jC"} | | |
| getinfo  读取sensor信息 | ucode：用户id  scode：sensorid  ecode：session  source：来源  cdate：当前时间 | 成功：  status:200  sensorList  station：sensor状态  connected：sensor连接状态  power：sensor电量（0~100）  sensorid：sensorid  nickname：姓名  headimage：头像  dob：生日（YYYY-MM-DD）  unit：单位  gendar：性别（M/F）  updated：是否有更新（0/1）  age：年龄  height：身高（cm）  weight：体重（kg）  defaultgoal：默认显示goal  取值distance/calories/step  fallalert：跌倒警告状态（0/1）  positionalert：坐姿警告状态（0/1）  para0：传感器参数0 (int)  para1：传感器参数1 (int)  para2：传感器参数2 (int)  para3：传感器参数3 (int)  para4：传感器参数4 (int)  stepwidth：步长（cm）  stepgoal：当前步数设置  caloriesgoal：当前卡路里设置  distancegoal：当前目标距离设置  sleepgoal：当前优质睡眠时间设置（hour）  bmr：当前基础代谢  bmi：身体质量指数  usertype:用户类型（1为VIP）  message:提醒信息  ecode: session code（用于防非法写入）  失败：  status：101  用户id不存在  status：102  用户id和sensorid关联错误 | 根据用户id和sensorid返回各种sensor对应的信息  fallalert：跌倒警告状态（0/1）  positionalert：坐姿警告状态（0/1）  这两个状态，0表示关闭，1表示打开 |
| Post:  {  "ucode": "7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M",  "scode": "1",  "ecode": "PIl5FIoXqPc6VbPy",  "source": "w",  "cdate": "2013-8-27 16:13:55"  }  Return:  {  "status": 200,  "sensorList": [  {  "station": 0,  "connected": 0,  "power": 73,  "sensorid": "1",  "nickname": "Shawn",  "headimage": "p7pOARIt0PEB9JSppm9znMwZCJGAMLUS2FvP.jpg",  "dob": "1956-08-11",  "unit": "Metric",  "gender": "M",  "updated": 1,  "age": 57,  "height": 170,  "weight": 60,  "defaultgoal":"distance",  "fallalert":0,  "positionalert":0,  "para0":4,  "para1":24,  "para2":64,  "para3":4,  "para4":85,  "stepgoal": 6846,  "caloriesgoal": 5000,  "stepwidth": 71,  "distancegoal": 4.8600001335144,  "runningwidth": 70.209999084473,  "bmi": 20.761245727539,  "bmr": 1356.9749755859,  "sleepgoal": 480,  "detailid": 3,  "usertype": 1,  "message": 0  }  ],  "ecode": "PIl5FIoXqPc6VbPy"  } | | |
| getdata  返回运动数据 | ucode：用户id  scode：sensorid  ecode：session  source：来源  cdate：当前时间  dates：查询日期 | 成功：  status：200  caloriesGoal：当前卡路里设置  disGoal：当前目标距离设置（km）  stepGoal：当前步数设置  stepTaken：已完成步数  calTaken：已完成cal（snesor数据之和）  disTaken：已完成距离（km）  footperStep：步距（cm）  bmr：基础代谢  data:  "A|B|C|D "  A:时间（HHMM）  B:卡路里  C:步数  D:距离(cm)  ecode：session code  actedata：  {  "t": HHMM该状态终止时间,  "i"：状态id,  },  falldata：  "A|B"  A:时间（HHMM）  B:跌倒状态  失败：  status：101  用户id不存在  status：102  用户id和sensorid关联错误  status：203  当天没有sensor数据导入  Act返回的id状态：  -1：unknown  0：静止  1：睡眠中  2：端坐  3：非端坐  4：走路  5：跑步  6：未定义  -1：无数据 | |
|  | Post：  {  "ucode": "1GeGUBP0eFXchdYFwpOv5Vg0GmuhmHJRkuB7",  "scode": "39",  "dates": "2013-8-14",  "cdate": "2013-8-27 16:48:23",  "ecode": "0NoB1sKepV9perkf",  "source": "w"  }  Return：  {  "status": 200,  "caloriesGoal": 3000,  "disGoal": 10,  "stepGoal": 10000,  "stepsTaken": 5499,  "calTaken": 2215.8701171875,  "disTaken": 5.4990000724792,  "footPerStep": 100,  "bmr": 1837.3699951172,  "data": [  "0000|6.4||",  "0005|6.4||",  "0010|6.4||",  ……  "1740|28.70|46|32660.00",  "1745|31.57|47|33370.00",  "1750|31.70|50|35500.00",  "1755|29.78|44|31240.00",  "1800|26.37|2|1420.00",  "1805|25.70|2|1420.00",  "1810|24.80|2|1420.00",  "1815|24.71|2|1420.00",  "1820|24.54|2|1420.00",  ……  "2350|6.4||",  "2355|6.4||"  ],  "ecode": "0NoB1sKepV9perkf",  "actedata":[  {"t":"04:20:00","i":-1},  {"t":"05:25:00","i":4},  {"t":"06:20:00","i":5},  ……  ,{"t":"23:59:00","i":-1}]  "falldata": {  "date": "2102-12-21 17:33:00",  "type": "Fall Down"  }  } | | |
| getsleep  返回睡眠数据 | ucode：用户id  scode：sensorid  ecode：session  source：来源  cdate：当前时间  dates：查询日期 | 成功：  status：200  mindata：昨天日期  fdate：yyyy-mm-dd 睡着日期  ftime：hh:mm:ss 睡着时间  tdate：yyyy-mm-dd 起床日期  ttime：hh:mm:ss 起床时间  ecode：session code  data:  "A|B "  A:当天0点到当前的分钟数（注意，到第二天0点开始，分钟数归零）  B:move值  失败：  status：101  用户id不存在  status：102  用户id和sensorid关联错误  status：203  当天没有sensor数据导入 |  |
| Post：  {  "ucode": "1GeGUBP0eFXchdYFwpOv5Vg0GmuhmHJRkuB7",  "scode": "39",  "dates": "2013-8-14",  "cdate": "2013-8-27 16:48:23",  "ecode": "0NoB1sKepV9perkf",  "source": "w"  }  Return：  {"status":200,"mindate":"2013-12-19","fdate":"2013-12-19","ftime":"22:00:00","tdate":"2013-12-20","ttime":"07:00:00","ecode":"PQ4V6rYl6wXWkQOR",  "data":["1320|14","1325|18","1330|19","1335|16","1340|20","1345|20","1350|17","1355|17","1360|17","1365|13","1370|12","1375|12","1380|12","1385|12","1390|16","1395|13","1400|14","1405|17","1410|14","1415|10","1420|14","1425|14","1430|10","1435|15","0|27","5|19","10|19","15|25","20|21","25|24","30|17","35|24","40|24","45|25","50|24","55|22","60|22","65|22","70|24","75|24","80|25","85|20","90|20","95|17","100|18","105|18","110|20","115|28","120|19","125|23","130|24","135|23","140|17","145|21","150|25","155|21","160|19","165|19","170|22","175|28","180|20","185|26","190|26","195|23","200|21","205|23","210|26","215|24","220|26","225|17","230|19","235|22","240|24","245|22","250|23","255|22","260|24","265|24","270|23","275|23","280|17","285|22","290|20","295|20","300|24","305|24","310|20","315|23","320|22","325|20","330|25","335|24","340|20","345|24","350|20","355|26","360|24","365|29","370|21","375|24","380|20","385|22","390|25","395|18","400|19","405|23","410|24","415|18","420|28"]} | | |
| saveupdated  【get】  保存已更新状态（只用于notifier） | ucode：用户id  scode：sensorid  ecode：session  source：来源 | 成功：  status:200  失败：  status:1  msg：error in saving process | 传感器已存储最新数据，数据库内更新状态设为已更新 |
|  | | |
| saveprofile  保存用户信息 | ucode：用户id  scode：sensorid  ecode：session  source：来源  email  nickname  gender  height  weight  dob  timezone  stepwidth  unit  password  stepgoal  caloriesgoal  distancegoal  defaultgoal  language | 成功：  status：200  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：401  修改密码时原密码错误 | defaultgoal， 取值distance/calories/step  language:字符串，  目前取值EN/CN，如果为空则默认为EN |
| 修改个人信息：  Post:  {  "ucode": "7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M",  "scode": "1",  "ecode": "Zs3wlP6a9yYpISzl",  "username": "Shawn",  "gender": "M",  "dob": "1956-8-11",  "height": "181",  "weight": "81",  "stepwidth": "71",  "timezone": "+08:00",  "cdate": "2013-8-27 17:24:40",  "unit": "Metric",  "source": "w"  }  Return:  {  "status": "200",  "ecode": "Zs3wlP6a9yYpISzl"  } | | |
| 修改密码：  Post：  {  "ucode": "7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M",  "scode": "1",  "ecode": "Zs3wlP6a9yYpISzl",  "password": "12",  "newpass": "1234",  "cdate": "2013-8-27 17:40:59",  "source": "w"  }  Return：  {  "status": "200",  "ecode": "Zs3wlP6a9yYpISzl"  } | | |
| 修改Goal：  Post：  {  "ucode": "7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M",  "scode": "1",  "ecode": "Zs3wlP6a9yYpISzl",  "source": "w",  "caloriesgoal": "5000",  "stepgoal": "6846",  "distancegoal": "4.86",  "cdate": "2013-8-27 17:45:56"  }  Return：  {  "status": "200",  "ecode": "Zs3wlP6a9yYpISzl"  } | | |
| upload\_data  上传运动数据（可用newinput.php 模拟） | ucode：用户id  scode：sensorid  ecode：session  source：来源  data (base)  stamp  calories  steps  distance  temp  move  sleepmode | 成功：  status:200  updated:0/1 (是否更新sensor，为1把sdata写入sensor)  scode：sensorid  sdata：sensor数据  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误 | 传感器上传数据，若需要更新sensor则写回。 |
| Post：  {  "ucode": "7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M",  "scode": "1",  "data": [  {  "stamp": "2013-08-27 00:00",  "calories": "4.68",  "steps": 0,  "distance": "0.000",  "temp": "20.0",  "move": 21,  "sleepmode": 1,  "angle": 2,  "maxspeed": 3,  "minspeed": 6,  "averagespeed": 1,  "detectedposition": 3  },  {  "stamp": "2013-08-27 00:05",  "calories": "4.07",  "steps": 0,  "distance": "0.000",  "temp": "20.0",  "move": 19,  "sleepmode": 1,  "angle": 1,  "maxspeed": 2,  "minspeed": 5,  "averagespeed": 3,  "detectedposition": 2  },  ……  {  "stamp": "2013-08-27 23:55",  "calories": "2.95",  "steps": 0,  "distance": "0.000",  "temp": "22.4",  "move": 10,  "sleepmode": 1,  "angle": 5,  "maxspeed": 8,  "minspeed": 3,  "averagespeed": 5,  "detectedposition": 3  }  ],  "ecode": "SzWO2XmKHQJCUegL",  "source": "w"  }  Return: (sensor有更新的情况下)  {  "status": 200,  "updated": 1,  "scode": "1",  "sdata": {  "station": 0,  "connected": 0,  "power": 0,  "nickname": "",  "headimage": "avatar.gif",  "dob": "0000-00-00",  "unit": "Metric",  "gender": "M",  "age": 30,  "height": 176,  "weight": 87,  "defaultgoal":"distance",  "fallalert":0,  "positionalert":0,  "para0":4,  "para1":24,  "para2":64,  "para3":4,  "para4":85,  "stepgoal": 10000,  "caloriesgoal": 4000,  "stepwidth": 73.04,  "distancegoal": 7.3039999008179,  "runningwidth": 73.040000915527,  "bmi": 28.086259841919,  "bmr": 1940.6280517578,  "sleepgoal": 480,  "detailid": 1,  "usertype": 1  },  "ecode": "j63IZQkWVCIaA3XP"  }  Return: (sensor没有更新的情况下)  {  "status": 200,  "updated": 0,  "scode": "1",  "sdata": {  "station": -1,  },  "ecode": "j63IZQkWVCIaA3XP"  } | | |
|  | | |
| upload\_alert  上传警告 | ucode：用户id  scode：sensorid  ecode：session  source：来源  alertlist：警告列表  [  {stamp：时间  type：警告信息  }  ] | 成功：  status:200  extinfo:发送消息状态  device：接收设备devicetoken  result：发送反馈（成功或者失败）  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误 | 警告信息上传后，会调用后台发给这个sensor关联的所有ios设备  是否接收成功取决于接收方手机是否在网络中，苹果的服务器是否能查到接收手机联网状况，所以接收可能会有延迟。 |
| Post：  {  "ucode": "ZFCTvSGhCzWUxXDw911paPuu0oEFUk6iJ8BK",  "scode": "94",  "ecode": "640S9VQGT5x80rsE",  "source": "w",  "alertlist":[{"stamp": "2013-8-20 17:55:52",  "type": "fall down"}]  }  Return：  {  "status": "200",  "ecode": "640S9VQGT5x80rsE"  } | | |
| getdata-app | 此为已有协议,,用于获取用户的各项目标，以及完成情况的协议；  建议修改为通用的，因为需要传参数在家庭成员与朋友属性中没有，导致家庭成员与朋友不能使用词条协议获取信息； | | |
| searchmenbers  查找好友 | ucode：用户id  scode：sensorid  ecode：session  source：来源  keyword：查找关键字 | 成功：  status:200  memberList:  {nickname:昵称  id:sensorid  headimage：头像  }  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：501  没有查到关键字这个邮箱  status：502  该邮箱已经发送过申请，尚未审批  status：503  该邮箱已经在好友列表中  status：504  该邮箱是查询者本人邮箱 | 为数据安全原因，Keyword目前只允许email全称，不分大小写。 |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","keyword":"hh@ledo.com","ecode":"HFcFqMmwBS2ATP6x","source":"w"} |   Return：  {"status":200,"memberList":[{"nickname":"","id":"7","headimage":"avatar.gif"}]} | | |
| sendrequest  发送好友请求 | ucode：用户id  scode：sensorid  ecode：session  source：来源  fid：好友的sensorid  reltome:相对我的关系（我如何称呼他）  relforme:相对他的关系（他如何称呼我） | 成功：  status:200  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：505  没有查到scode和fid这个sensorid  的关联申请 | 比如我查找好友，选择的关系是Dad  那么reltome:Dad  relforme:Son |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","fid":"91","ecode":"HFcFqMmwBS2ATP6x","source":"w","reltome":"Dad","relforme":"Son"} |   Return：  {"status":200} | | |
| getrequest  获取好友请求 | ucode：用户id  scode：sensorid  ecode：session  source：来源 | 成功：  status:200  reqList:请求列表  [{  message:请求信息  nickname：请求者昵称  rdate:发送请求时间  headimage:请求者头像  scode:请求者sensorid  relation:请求者与你关系  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误 | 比如我查找好友，选择的关系是Dad  那么reltome:Dad  relforme:Son |
| Post：  {"ucode":"IDoYPIvp53i5404SA6FYvEDnBCRIjdhycC6e","scode":"91","ecode":"1vXnUCD7yASxXxVW","source":"w"}  Return：  {"status":200,"reqList":[{"message":"TestSohu just invited you a friend invitation.","nickname":"TestSohu","rdate":"2014-01-28 13:21:56","headimage":"p7pOARIt0PEB9JSppm9znMwZCJGAMLUS2FvP.jpg","scode":1,"relation":"Son"}],"ecode":"1vXnUCD7yASxXxVW"} | | |
| dealrequest  处理好友请求 | ucode：用户id  scode：sensorid  ecode：session  source：来源  reqcode：请求者的sensorid  action:处理行为(accept/decline)批准或拒绝 | 成功：  status:200  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：505  没有查到scode和fid这个sensorid  的关联申请 | 比如我查找好友，选择的关系是Dad  那么reltome:Dad  relforme:Son |
| Post：  {  "ucode":"IDoYPIvp53i5404SA6FYvEDnBCRIjdhycC6e","scode":"91","ecode":"BA3iR0KBhR25V7FB","source":"w","type":"accept","reqcode":1  }  Return：  {"status":200,"ecode":"BA3iR0KBhR25V7FB"} | | |
| sendmessage  发送信息 | ucode：用户id  scode：sensorid  ecode：session  source：来源  fcode：好友的sensorid  message:消息 | 成功：  status:200  exitinfo：  devicetoken：好友设备号  message：发送信息  result：发送结果  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：601  没有查到scode和fcode的好友关系 |  |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","ecode":"ToqmPKNOxk3wYS3d","source":"w","fcode":"91","message":"new test","cdate":"2014-1-30 1:13:23"} |   Return：  {"status":200} | | |
| getmessage  获取信息 | ucode：用户id  scode：sensorid  ecode：session  source：来源  numberPerPage：每页数量  pageNumber:页号  mode：信息状态 | 成功：  status:200  totalnumber:存在信息总数（用于前端判断总页数）  msglist:{  fcode:好友sensorid  nickname:昵称  headimage：头像  sdate:发送信息日期  messageid :信息id  message:信息  readmode：阅读状态  }  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：601  没有查到scode和fcode的好友关系 | Post Mode：  0：未读  1：已读  2：全部  返回readmode：0：未读  1：已读 |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","ecode":"ToqmPKNOxk3wYS3d","source":"w","numberPerPage":"10","pageNumber":"1","mode":"0"} |   Return：  {"status":200,"totalnumber":4,"msglist":[{"fcode":"91","nickname":"new shawn","headimage":"avatar.gif","sdate":"2014-01-30 01:13:23","messageid":125, "message":"new test","readmode":0},{"fcode":"91","nickname":"new shawn","headimage":"avatar.gif","sdate":"2014-01-30 01:04:53","messageid":82, "message":"hello again","readmode":0},{"fcode":"91","nickname":"new shawn","headimage":"avatar.gif","sdate":"2014-01-30 00:35:13","messageid":58, "message":"hello","readmode":0},{"fcode":"91","nickname":"new shawn","headimage":"avatar.gif","sdate":"2014-01-30 00:31:24","messageid":12, "message":"hello","readmode":0}]} | | |
| markmessage  将消息设为已读 | ucode：用户id  scode：sensorid  ecode：session  source：来源  messageid：消息ID | 成功：  status:200  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：602  没有查到message和用户的关联关系 |  |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","ecode":"ToqmPKNOxk3wYS3d","source":"w"," messageid ":"58"} |   Return：  {"status":200} | | |
| updatepower  发送信息 | ucode：用户id  scode：sensorid  ecode：session  source：来源  power：电量  cdate:本地时间 | 成功：  status:200  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：601  没有查到scode和fcode的好友关系 |  |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","ecode":"ToqmPKNOxk3wYS3d","source":"w",,"power":"90","cdate":"2014-1-30 1:13:23"} |   Return：  {"status":200} | | |
| ping  给好友发送即时提醒 | ucode：用户id  scode：sensorid  ecode：session  source：来源  fcode：  好友sensorid  message:好友手机弹出信息 | 成功：  status:200  exitinfo：  devicetoken：好友设备号  message：发送信息  result：发送结果  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：601  没有查到scode和fcode的好友关系  status：201  好友的sensorid没有绑定任何devicetoken | 只有最新登陆时绑定的devicetoken会收到这个信息。  发送信息是实时的，但是接受信息取决于苹果服务器查找到该手机的速度，可能会不实时。 |
|  | | |
| removefriend  删除好友 | ucode：用户id  scode：sensorid  ecode：session  source：来源  rcode：  欲删除sensorid | 成功：  status:200  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：601  没有查到scode和fcode的好友关系 | 只有最新登陆时绑定的devicetoken会收到这个信息。  发送信息是实时的，但是接受信息取决于苹果服务器查找到该手机的速度，可能会不实时。 |
|  | | |
| deletemessage  将消息设为已读 | ucode：用户id  scode：sensorid  ecode：session  source：来源  messageid：消息ID | 成功：  status:200  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  status：602  没有查到message和用户的关联关系 |  |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","ecode":"ToqmPKNOxk3wYS3d","source":"w"," messageid ":"58"} |   Return：  {"status":200} | | |
| getdailyposition查询当日传感器状态g统计值 | ucode：用户id  scode：sensorid  ecode：session  source：来源  cdate：查询日期 | 成功：  status:200  positionStation：正确姿态占百分比（1为100%）  wrongPositionLast：错误坐姿持续时间（分钟）  elist：  t:截止时间  i:状态值  last：持续分钟  percent:占总有数据时间百分比  失败：  status：101  没有这个用户id  status：102  用户id与sensorid关联错误  s | 状态值：  0：无数据  1：静止  2：睡眠中  3：端坐  4：非端坐  5：走路  6：跑步  7：未定义 |
| Post：   |  | | --- | |  | | {"ucode":"7ZYSquiG2Q0BEibjMXpYJnPnydPgtIdUCq9M","scode":"1","ecode":"ToqmPKNOxk3wYS3d","source":"w"," cdate ":"2013-9-25"} |   Return：  {"status":200,"positionStation":0.40677966101695,"wrongPositionLast":175,"elist":[{"t":"00:40:00","i":"2","last":40},{"t":"02:40:00","i":"5","last":120},{"t":"03:30:00","i":"3","last":50},{"t":"04:00:00","i":"6","last":30},{"t":"04:25:00","i":"1","last":25},{"t":"05:35:00","i":"5","last":70},{"t":"07:25:00","i":"6","last":110},{"t":"08:20:00","i":"4","last":55},{"t":"09:05:00","i":"1","last":45},{"t":"11:15:00","i":"5","last":130},{"t":"12:40:00","i":"6","last":85},{"t":"13:40:00","i":"4","last":60},{"t":"14:40:00","i":"6","last":60},{"t":"15:10:00","i":"5","last":30},{"t":"16:15:00","i":"7","last":65},{"t":"17:15:00","i":"1","last":60},{"t":"18:25:00","i":"3","last":70},{"t":"19:30:00","i":"2","last":65},{"t":"20:45:00","i":"6","last":75},{"t":"21:45:00","i":"1","last":60},{"t":"22:55:00","i":"7","last":70},{"t":"23:55:00","i":"4","last":60},{"t":"23:59:00","i":"0","last":4}],"edata":[{"positionid":0,"lasttime":4,"percent":0.0027797081306463},{"positionid":1,"lasttime":190,"percent":0.1320361362057},{"positionid":2,"lasttime":105,"percent":0.072967338429465},{"positionid":3,"lasttime":120,"percent":0.083391243919388},{"positionid":4,"lasttime":175,"percent":0.12161223071577},{"positionid":5,"lasttime":350,"percent":0.24322446143155},{"positionid":6,"lasttime":360,"percent":0.25017373175817},{"positionid":7,"lasttime":135,"percent":0.093815149409312}]} | | |