接入API文档

接口规范说明书

**2018年12月**

修订历史记录

|  |  |  |  |
| --- | --- | --- | --- |
| **日期** | **版本** | **说明** | **作者** |
| 2018-12 | <1.0> | 接口规范说明 | 天泽信息 |
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# 引言

## 范围

本文档定义了商户接入接口规范和标准，旨在给第三方实现接口开发提供参考。

# 基本参数

HTTPS应用地址：https://

# 全局返回码说明

|  |  |
| --- | --- |
| 返回码 | 代码描述 |
| 101 | 票据过期 |
| 102 | 令牌无效 |

# 接口清单

|  |  |  |
| --- | --- | --- |
| 序号 | 接口名称 | 接口描述 |
| 1 | userinfo | 用户信息查询 |
| 2 | throwin | 投放数据上传 |
|  |  |  |
|  |  |  |

## 获取请求票据

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **接口调用请求说明** | | | | | |
| **HTTPS 请求方式** | | | GET请求服务 | | |
| https://应用地址/token?appid=应用ID&secret=应用秘钥 | | | | | |
| **参数说明** | | | | | |
| **参数名** | | **中文描述** | | **类型** | **约束** |
| appid | | 应用ID | | String | 必填 |
| secret | | 应用秘钥 | | String | 必填 |
| **返回说明** | | | | | |
| **正常返回结果** | | | | | |
| {errcode:0, token:”req token”,expires:7200} | | | | | |
| **参数** | | **说明** | | | |
| **errcode** | | 返回码 | | | |
| **token** | | 令牌 | | | |
| **expires** | | 票据有效时间:单位秒 | | | |
| **错误返回结果** | | | | | |
| {"errcode": "1","errmsg": "错误信息"} | | | | | |
| **返回码说明** | | | | | |
| **返回码** | **说明** | | | | |
| 0 | 成功 | | | | |
| 1 | 错误消息/票据失效 | | | | |

## 用户信息查询

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **接口调用请求说明** | | | | | |
| **HTTPS 请求方式** | | | GET请求服务 | | |
| https://应用地址/userinfo?token=票据&type=身份识别方式&auth=身份识别&device=设备编号 | | | | | |
| **参数说明** | | | | | |
| **参数名** | | **中文描述** | | **类型** | **约束** |
| token | | 令牌 | | String | 必填 |
| type | | 身份识别方式  1：IC卡；  2：APP二维码；  3：垃圾袋二维码； | | Integer | 必填 |
| auth | | 身份识别 | | String | 必填 |
| device | | 设备编号 | | string | 必填 |
| **返回说明** | | | | | |
| **正常返回结果** | | | | | |
| {errcode:0,name:“用户名”,account:“用户账号”，money:“余额”} | | | | | |
| **参数** | | **说明** | | | |
| **errcode** | | 返回码 | | | |
| **name** | | 用户名 | | | |
| **account** | | 账号 | | | |
| **money** | | 余额 | | | |
| **错误返回结果** | | | | | |
| {"errcode": "1","errmsg": "错误信息"} | | | | | |
| **返回码说明** | | | | | |
| **返回码** | **说明** | | | | |
| 0 | 成功 | | | | |
| 1 | 错误消息 | | | | |

## 投放数据上传

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **接口调用请求说明** | | | | | |
| **HTTPS 请求方式** | | | GET请求服务 | | |
| [https://应用地址](https://应用地址?)/throwin?token=口令&device=设备编号  http body:  {“type”:1,  “auth”:“1234567890”,  “data”:[{  “category”:1,  “weight”:1.5,  “before”:0,  “after”:1.5}，  {  “category”:2,  “weight”:1.5,  “before”:0,  “after”:1.5}  ]  } | | | | | |
| **参数说明** | | | | | |
| **参数名** | | **中文描述** | | **类型** | **约束** |
| token | | 令牌 | | String | 必填 |
| device | | 设备编号 | | string | 必填 |
| type | | 身份识别方式  1：IC卡；  2：APP二维码；  3：垃圾袋二维码； | | Integer | 必填 |
| auth | | 身份识别 | | String | 必填 |
| category | | 投放垃圾类别 | | int | 必填 |
| weight | | 本次投放重量(kg) | | decimal | 必填 |
| before | | 投放前重量(kg) | | decimal | 必填 |
| after | | 投放后重量(kg) | | decimal | 必填 |
| **返回说明** | | | | | |
| **正常返回结果** | | | | | |
| {errcode:0,token:”令牌”} | | | | | |
| **参数** | | **说明** | | | |
| **errcode** | | 0 | | | |
| **money** | | 投放后的总余额 | | | |
| **错误返回结果** | | | | | |
| {"errcode": "1","errmsg": "错误信息"} | | | | | |
| **返回码说明** | | | | | |
| **返回码** | **说明** | | | | |
| 0 | 鉴权成功 | | | | |
| 1 | 错误消息 | | | | |

**回收物品类编码表**

|  |  |  |  |
| --- | --- | --- | --- |
| 序号 | 回收物品类编码 | 回收物回品类名称 | 备注 |
| 1 | 0 | 厨余垃圾 |  |
| 2 | 1 | 其他垃圾 |  |
| 3 | 2 | 纸类可回收物 |  |
| 4 | 3 | 塑料可回收物 |  |
| 5 | 4 | 玻璃可回收物 |  |
| 6 | 5 | 金属可回收物 |  |
| 7 | 6 | 有害可回收物 |  |
| 8 | 7 | 可回收物 |  |
| 9 | 8 | 塑料瓶 |  |
| 10 | 9 | 金属易拉罐 |  |
| 11 | 10 | 电池 |  |
| 12 | 11 | 织物 |  |
| 13 | 12 | 书本 |  |
| 14 | 13 | 报纸 |  |

## 故障码上传

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **接口调用请求说明** | | | | | |
| **HTTPS 请求方式** | | | GET请求服务 | | |
| <https://应用地址/fault?token=令牌>&device=设备编号  http body (第n路投口对应的故障码)  {0x14, 0x14, 0x14, 0x14,…} | | | | | |
| **参数说明** | | | | | |
| **参数名** | | **中文描述** | | **类型** | **约束** |
| token | | 令牌 | | String | 必填 |
| device | | 设备编号 | | String | 必填 |
| **返回说明** | | | | | |
| **正常返回结果** | | | | | |
| {errcode:0 } | | | | | |
| **参数** | | **说明** | | | |
| **errcode** | | 返回码 | | | |
| **错误返回结果** | | | | | |
| {"errcode": "1","errmsg": "错误信息"} | | | | | |
| **返回码说明** | | | | | |
| **返回码** | **说明** | | | | |
| 0 | 成功 | | | | |
| 1 | 错误消息 | | | | |

## 清理签到上传

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **接口调用请求说明** | | | | | |
| **HTTPS 请求方式** | | | GET请求服务 | | |
| <https://应用地址/clean?token=票据&type=身份识别方式&auth=身份识别方式>&device=设备编号 | | | | | |
| **参数说明** | | | | | |
| **参数名** | | **中文描述** | | **类型** | **约束** |
| token | | 令牌 | | String | 必填 |
| type | | 身份识别方式  1：IC卡；  2：APP二维码；  3：垃圾袋二维码； | | Integer | 必填 |
| auth | | 身份识别方式 | | String | 必填 |
| device | | 设备编号 | | string | 必填 |
| **返回说明** | | | | | |
| **正常返回结果** | | | | | |
| {errcode:0 } | | | | | |
| **参数** | | **说明** | | | |
| **errcode** | | 返回码 | | | |
| **错误返回结果** | | | | | |
| {"errcode": "1","errmsg": "错误信息"} | | | | | |
| **返回码说明** | | | | | |
| **返回码** | **说明** | | | | |
| 0 | 成功 | | | | |
| 1 | 错误消息 | | | | |

## 4.6 设备状态上传

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **接口调用请求说明** | | | | | |
| **HTTPS 请求方式** | | | POST推送服务 | | |
| <https://应用地址/status?token=票据>&device=设备编号 | | | | | |
| **参数说明** | | | | | |
| **参数名** | | **中文描述** | | **类型** | **约束** |
| token | | 令牌 | | String | 必填 |
| device | | 设备编号 | | string | 必填 |
| temperature | | 温度(℃) | | String | 必填 |
| capacities | | 桶内满溢百分比(%) | | Int[] | 必填 |
| **返回说明** | | | | | |
| **正常返回结果** | | | | | |
| {errcode:0 } | | | | | |
| **参数** | | **说明** | | | |
| **errcode** | | 返回码 | | | |
| **错误返回结果** | | | | | |
| {"errcode": "1","errmsg": "错误信息"} | | | | | |
| **返回码说明** | | | | | |
| **返回码** | **说明** | | | | |
| 0 | 成功 | | | | |
| 1 | 错误消息 | | | | |