# 线上平台数据服务

文件版本

|  |  |  |  |
| --- | --- | --- | --- |
| 版本号 | 更新内容 | 更新人 | 日期 |
| 0.1 | 初始版 | FredWang/朱永辉 | 2019-07-09 |
| 0.2 | 1.添加服务11电子发票服务  2.服务2添加说明  3.服务7参数account🡪 openid | FredWang | 2019-07-10 |
| 0.3 | 1.服务3里账单明细添加欠费月份，发票信息（欠费月份会用在支付服务里）  2.添加服务1.2批量查询客户信息  3.添加服务3.1批量查询账单明细  4. 服务7入参 account-》openid | FredWang | 2019-07-15 |
| 0.4 | 添加服务12，查询水费阶梯明细 | FredWang | 2019-07-23 |
| 0.5 | 添加服务13,14,15 支付接口 | 朱永辉 | 2019-07-25 |

Contents

[线上平台数据服务 1](#_Toc14708244)

[1. 服务3里账单明细添加欠费月份，发票信息（欠费月份会用在支付服务里） 1](#_Toc14708245)

[2. 添加服务1.2 批量查询客户信息 1](#_Toc14708246)

[配置说明 3](#_Toc14708247)

[1. 通过用户编号查询用户信息V2 3](#_Toc14708248)

[1.2 批量查询客户信息最多不能超过100个 4](#_Toc14708249)

[2. 通过客户编号/手机号/证件号/纳税人识别号查询用户信息 5](#_Toc14708250)

[3. 查询账单明细 6](#_Toc14708251)

[3.1 批量按编号查询最近一期的账单明细 7](#_Toc14708252)

[4. 查询水表明细 8](#_Toc14708253)

[5. 查询未缴费账单列表 8](#_Toc14708254)

[6. 按客户编号和年份查询账单列表 9](#_Toc14708255)

[7. 下载水费电子账单 9](#_Toc14708256)

[8. 短信服务 10](#_Toc14708257)

[9.人脸识别服务(公安无测试环境，均为生产地址) 10](#_Toc14708258)

[10 公安信息补充接口(公安无测试环境，均为生产地址) 11](#_Toc14708259)

[11. 电子发票开票服务 12](#_Toc14708260)

## 配置说明

自助终端调用以下服务时

channel：固定传 "zzzd"

openid: 固定传 "Terminal-admin-001"

服务地址前缀配置（测试服务前缀，可配置）：

http://xxxxx/testapi/op/

## 1. 通过用户编号查询用户信息V2

http://xxxxx/testapi/op/CustomerInfo/GetCustomerDetail POST

入参："{\"channel\":\"wechat\",\"openid\":\"XXXXXXXXX\",\"customercode\":\"1742080261\"}";

channel: 微信渠道固定传 "wechat" openid：微信openid custommercode：客户编号

出参：

{"code":0,"datarows":1,"data":[{"customerCode":"1742080261","customerAddress":"新田社区元一村路口","customerName":"深圳市宝安区观澜街道市政服务中心","customerType":"计划户","customerAddressHide":"\*\*区元一村路口","customerNameHide":"\*\*街道市政服务中心","paymentType":"银行代收","payerTaxid":null,"payerEmail":null,"payerPhone":null,"payerID":null,"payingAccount":"000047466227","payingBank":"农村商业银行","payername":"深圳市宝安区观澜街道市政服务中心","customerID":null,"customerPhone":null,"userid":1137439}],"datasource":"localdb","message":"操作成功"}

String customerCode; //客户编号

String customerAddress; //用水地址

String customerName; //客户名称

String customerType; //客户类别

String customerAddressHide; //用水地址打码

String customerNameHide; //客户名称打码

String paymentType; //付款方式

String payerTaxid; //纳税人识别号

String payerEmail; //纳税人电子邮箱

String payerPhone; //纳税人联系电话

String payerID; //纳税人证件号

String payingAccount;//银行账号

String payingBank; //付款银行

String payername; //付款账户名

String customerID; //开户人证件号

String customerPhone; //开户人手机号

Long userid; //客户数据id

## 1.2批量查询客户信息最多不能超过100个

[http://xxxxx/testapi/op/CustomerInfo/GetCustomerDetailList](http://szgk.sz-water.com.cn/testapi/op/CustomerInfo/GetCustomerDetailList) POST  
入参：  
{“channel”:”wechat”, “openid”:”xxxxxx”,”customercodelist”:[“ 1742080238”,” 1742080233”,”1742080258”]}  
出参：  
{"code":0,"datarows":3,"data":[{"customerCode":"1742080238","customerAddress":"龙华区观湖街道新田社区元岗村31号","customerName":"伍文中","customerType":"居民户","customerAddressHide":"\*\*\*\*\*\*元岗村31号","customerNameHide":"\*文中","paymentType":"银行代收","payerTaxid":null,"payerEmail":null,"payerPhone":null,"payerID":null,"payingAccount":"145000000993","payingBank":"农村商业银行","payername":"伍文忠","customerID":"440321196709293718","customerPhone":"13510288822","userid":1137462},{"customerCode":"1742080258","customerAddress":"观澜新田社区谷二村路口18号旁","customerName":"深圳市龙华区观湖街道办事处","customerType":"计划户","customerAddressHide":"\*\*\*\*\*\*路口18号旁","customerNameHide":"\*\*\*\*\*\*观湖街道办事处","paymentType":"银行代收","payerTaxid":null,"payerEmail":null,"payerPhone":null,"payerID":null,"payingAccount":"44250100008708207007","payingBank":"建设银行","payername":"深圳市龙华区观湖街道办事处","customerID":null,"customerPhone":"13662676393","userid":1137442},{"customerCode":"1742080233","customerAddress":"观澜新田村新丰工业区23号对面","customerName":"深圳市凯博文置业有限公司","customerType":"计划户","customerAddressHide":"\*\*\*\*\*\*区23号对面","customerNameHide":"\*\*\*\*\*\*置业有限公司","paymentType":"银行代收","payerTaxid":null,"payerEmail":null,"payerPhone":null,"payerID":null,"payingAccount":"6230351803041249","payingBank":"农村商业银行","payername":"深圳市凯博文置业有限公司","customerID":null,"customerPhone":"13312949145","userid":1137467}],"datasource":"localdb","message":"操作成功"}

## 2. 通过客户编号/手机号/证件号/纳税人识别号查询用户信息

http://xxxxx/testapi/op/Customer/AccountListByIDNum POST

入参:{"channel": "wechat","openid":"xxxxxxxx","customerType":"person", "IDNum":"13172490787"}

//客户类别 person/company

客户编号/手机号/证件号用于个人客户编号/纳税人识别号用户企业

出参:{"code":0,"datarows":2,"data":[{"customerCode":"1415996674","customerAddress":"西乡街道幸","customerName":"宋","customerType":"居民户","mobile":"13172490787","role":"payer","searchKey":"mobile","key":"13172490787"},{"customerCode":"1415996674","customerAddress":"西乡街道幸","customerName":"宋\*\*","customerType":"居民户","mobile":"13172490787","role":"payer","searchKey":"mobile","key":"13172490787"}],"datasource":"localdb","message":"操作成功"}

String customerCode; //客户编号

String customerAddress; //用水地址

String customerName; //客户名称

String customerType; //客户类别 person/company （居民户/计划户/临时户）居民户为个人，剩余两种为企业

String mobile; //系统中预留的手机号

String role； //预留的手机号对应的角色 householder 开户人 payer 委托付款人 contact联系人（一般用在企业）

String searchKey；//查询的字段列

String key； //查询键值

## 3. 查询账单明细

http://xxxxx/testapi/op/BillInfo/GetBillDetail POST

入参： {"channel":"wechat", "openid":"xxxxxxxx"，"customercode":"xxxx", "billmonth":"xxxx"}

//channel:微信渠道固定传 "wechat", openid: 传渠道openid或账号， customercode：客户编号， billmomnth：账单月份

出参：

{"code":0,"datarows":1,"data":[{"customerCode":"1743034679","costDate":201811,"waterAmount":161.05,"sewageAmount":42.9,"garbageAmount":25.54,"lateFee":0.0,"deductedAmount":0.0,"dueDate":"2019-01-01","paymentStatus":"已缴清","waterConsumption":5,"isLatestUnpaidBillmonth":false,"isLatestBillmonth":false,"prebillmonth":201810,"nextbillmonth":201812,"netAmount":0.0,"totalAmount":229.49,"hisnetAmount":0.0,"needpay":0.0,"displayTotal":229.49}],"datasource":"localdb","message":"操作成功"}

出参说明：

String customerCode; //客户编号

Integer costDate; //账单月份

Double waterAmount; //水费金额

Double sewageAmount; //污水费

Double garbageAmount; //垃圾处理费

Double lateFee; //违约金

Double deductedAmount; //减免违约金 (已在违约金字段抵消，一般这里的值为0）

String dueDate; //违约金起算日

String paymentStatus; //账单付款状态

Integer waterConsumption; //用水量（立方米）

Boolean isLatestBillmonth=false; //是否最近一期的账单

Boolean isLatestUnpaidBillmonth=false; //是否最近一期的账单且未支付

Integer prebillmonth; //前一个账单月份可为null，账单存在时不为null

Integer nextbillmonth; //下一个账单月可为null，账单存在时不为null

Double netAmount; //本期账单未缴清费用

Double totalAmount; //本期账单总费用（不含历史欠费）

Double hisnetAmount; //历史欠费（不含本期）

Double needpay; //本期应缴总金额（包含本期账单未缴清费用和历史欠费）

Double displayTotal; //逻辑总金额（部分页面显示用) （未缴清时此值为本期应缴总金额，已缴清时此值为本期账单总费用）

String unpaidBillmonth: //欠费月份列表，逗号隔开如 "201906,201907,201908"只有最近一期账单里有值，其他月份账单里为null

String fapiaoStatus: //开票状态

String[] fapiaoList: //发票url地址列表

## 3.1批量按编号查询最近一期的账单明细

[http://xxxxx/testapi/op/BillInfo/GetLatestBillDetails](http://szgk.sz-water.com.cn/testapi/op/BillInfo/GetLatestBillDetails) POST  
入参：{“channel”:”wechat”, “openid”:”o8D5D1qJj1za1poCjjwlDGt0r5YA”,”customercodelist”:[“1111000055”,”1113701023”,”1742080258”,”1743084718”,”1285160451”]}  
出参：  
{“code”:0,”datarows”:3,”data”:[{“customerCode”:”1111000055”,”costDate”:201906,”waterAmount”:5418.53,”sewageAmount”:1441.6,”garbageAmount”:318.06,”lateFee”:0.0,”deductedAmount”:0.0,”dueDate”:”2019-07-01”,”paymentStatus”:”已缴清”,”waterConsumption”:1270,”isLatestUnpaidBillmonth”:false,”isLatestBillmonth”:true,”prebillmonth”:201905,”nextbillmonth”:null,”netAmount”:0.0,”totalAmount”:7178.19,”hisnetAmount”:0.0,”needpay”:0.0,”displayTotal”:7178.19,”unpaidBillmonth”:null,”fapiaoStatus”:”未开票”,”fapiaoList”:null},{“customerCode”:”1113701023”,”costDate”:201607,”waterAmount”:41.4,”sewageAmount”:14.4,”garbageAmount”:40.5,”lateFee”:0.0,”deductedAmount”:0.0,”dueDate”:”9999-12-31”,”paymentStatus”:”已缴清”,”waterConsumption”:6,”isLatestUnpaidBillmonth”:false,”isLatestBillmonth”:true,”prebillmonth”:201605,”nextbillmonth”:null,”netAmount”:0.0,”totalAmount”:96.3,”hisnetAmount”:0.0,”needpay”:0.0,”displayTotal”:96.3,”unpaidBillmonth”:null,”fapiaoStatus”:”未开票”,”fapiaoList”:null},{“customerCode”:”1742080258”,”costDate”:201812,”waterAmount”:229.97,”sewageAmount”:60.5,”garbageAmount”:14.85,”lateFee”:0.0,”deductedAmount”:0.0,”dueDate”:”2019-02-01”,”paymentStatus”:”未缴清”,”waterConsumption”:61,”isLatestUnpaidBillmonth”:true,”isLatestBillmonth”:true,”prebillmonth”:201811,”nextbillmonth”:null,”netAmount”:305.32,”totalAmount”:305.32,”hisnetAmount”:0.0,”needpay”:305.32,”displayTotal”:305.32,”unpaidBillmonth”:null,”fapiaoStatus”:”未开票”,”fapiaoList”:null}],”datasource”:”localdb”,”message”:”操作成功”}

字段说明参加服务3

## 4.查询水表明细

http://xxxxx/testapi/op/MeterWaterUsage/GetWaterUsageDetail POST

入参： {"channel":"wechat", "openid":"xxxxxxxx"，"customercode":"xxxx", "billmonth":"xxxx"}

//channel:微信渠道固定传 "wechat", openid: 传渠道openid或账号， customercode：客户编号， billmomnth：账单月份

出参

{"code":0,"datarows":1,"data":[{"customerCode":"1743096444","costDate":201811,"waterMeterCode":"174309644401","meterCheckPreDate":"2018-10-10T13:51:01","waterNumberPreTime":339,"meterCheckMonDate":"2018-11-09T10:52:37","waterNumber":351,"waterConsumption":12,"waterConsumptionpre":18,"waterUseDays":30,"waterConsumIncreRate":0.0}],"datasource":"ucis","message":"操作成功"}

waterMeterCode：水表编号

meterCheckPreDate 上次抄表日期

waterNumberPreTime 上次抄表数

meterCheckMonDate 本次抄表日期

waterNumber 本次抄表数

waterConsumptionpre 上期用水量（立方米）

waterConsumption 本期用水量（立方米）

waterUseDays 本期用水天数

waterConsumIncreRate （未使用）

## 5.查询未缴费账单列表

http://xxxxx/testapi/op/UnpaidBillList/{channel}/{openid}/{customercode} GET

入参: channel 渠道, openid账号, customercode 用水编号

出参：

{"code":0,"datarows":2,"data":[{"totalAmount":105.41,"costDate":201901,"customerCode":"1114001137","paymentStatus":"未缴清"},{"totalAmount":71.89,"costDate":201903,"customerCode":"1114001137","paymentStatus":"未缴清"}],"datasource":"ucis","message":"操作成功"}

Double totalAmount; //账单总金额

Integer costDate; //账单月份

String customerCode; //客户编号

String paymentStatus; //付款状态

## 6.按客户编号和年份查询账单列表

http://xxxxx/testapi/op/BillListByYearV2/{customercode}/{billyear} GET

入参：customercode 客户编号 billyear：年份如 2018

出参：

{"code":0,"datarows":2,"data":[{"totalAmount":405.38,"costDate":201811,"customerCode":"1742080258","paymentStatus":"已缴清"},{"totalAmount":305.32,"costDate":201812,"customerCode":"1742080258","paymentStatus":"未缴清"}],"datasource":"localdb","message":"操作成功"}

Double totalAmount; //账单总金额

Integer costDate; //账单月份

String customerCode; //客户编号

String paymentStatus; //付款状态

## 7.下载水费电子账单

http://xxxxx/testapi/op/GenerateBillPdfFiles POST

入参:{channel:"wechat","openid":"openidxxxx","email":"xxxds@126.com","billlist":[{"customercode":"xxxxx","billmonth":201901},{"customercode":"xxxxx","billmonth":201811}]}

//email:有值且有效时会发送pdf文件到邮箱

出参：{"code":0,"datarows":1,"data":[{"pdfurl":"http://xxxxx/testapi/pdf/1551061774378.pdf"}],"datasource":"localdb","message":""}

pdfurl：电子账单地址

## 8.短信服务

http://xxxxx/testapi/op/MSGProxy/Send

入参:

{"channel":"wechat","openid":"xxxxxx", "content":"您好,xxxxxxxx","receivers":[{"mobile":"13900000000"}，{"mobile":"13900011111"}]}

content：发送内容

receivers：手机号列表

出参：

{

"code": 0,

"datarows": 0,

"data":null,

"datasource": "proxy",

"message": "发送成功"

}

## 9.人脸识别服务(公安无测试环境，均为生产地址)

http://xxxxx/policeservice/face/userDetail?token=xxxxx&guid=xxxxx GET

入参：

token: 公安局回调参数原样返回

guid:公安局回调参数原样返回

出参：

{

"succeed": true,

"message": null,

"statusCode": 0,

"content": "{\"ID\":\"身份证号码\",\"name\":\"姓名\",\"phone\":\"手机号\",\"ID\_address\":\"\",\"sex\":\"\",\"nation\":\"\",\"uid\":\"d9125bc3-0674-35f9-9b07-d9eaf291fd42\",\"ID\_birth\":\"\",\"ID\_authority\":\"\",\"ID\_valid\_date\":\"\",\"validatedata\":\"\",\"yt\_errorcode\":\"0\",\"yt\_errormsg\":\"成功\",\"livestatus\":\"0\",\"livemsg\":\"成功\",\"comparestatus\":\"0\",\"comparemsg\":\"成功\",\"out\_trade\_no\":\"2c4dc84186c54046a486cee2dd8bss08\",\"out\_extra\":\"\",\"passport\":\"xxxxx\",\"countryCode\":156,\"scene\":{\"sceneID\":\"\",\"sceneName\":\"\"},\"type\":\"1\",\"location\":\"114.09782409667969|22.543243408203125\"}"

}

## 10 公安信息补充接口(公安无测试环境，均为生产地址)

业务办理结束后，应该调用此接口将参数返回

http://xxxxx/policeservice/push/data POST

入参：

{"waterAddress":"4","openAccountDate":"2019年4月10日","accountName":"张三","accountType":"证件","accountAdd":"1","bussinessName":"123","userId":"001","token":"{1CBE70B2-66D8-432D-B9ED-BABC8B938FF3}","accountStatus":"1","accountId":"360428199608070421","unit":"水务集团","accountTel":"13333333333","accountPhone":"13333333333","guid":"58c23108-2b8b-d1d3-8efd-e872f614c3fe","username":"张三"}

参数含义：

userId //用户ID

username //用户名

unit //管理单位

waterAddress //用水地址

openAccountDate //开户日期

accountType //证件类型

accountId //证件号码

accountName //联系人

accountTel //联系电话

accountPhone //手机号码

accountStatus //用户状态

accountAdd //送票地址

guid //实名认证后回调参数guid

token //实名认证后回调参数token

bussinessName //业务名称

出参：

{

"succeed": true, #true 成功 false 失败

"message": "success",

"statusCode": null,

"content": null

}

## 11.电子发票开票服务

http://xxxxx/testapi/op/Fapiao/GetPDFFiles POST

入参：

{channel:"wechat","openid":"openidxxxx","email":"xxxds@126.com","customercode":"xxxxx",

"billlist":[{"billmonth":201901},{"billmonth":201811}]}

email: 有值且有效时会发送pdf文件到邮箱

customercode：客户编号

billlist：账单月份列表

出参：

{"code":0,"datarows":0,"data":[{"pdfurl":"http://xxxxx/testapi/pdf/1551061774378.pdf"}],"datasource":"ucis","message":"操作成功"}

//pdfurl：发票pdf文件地址

可能会有多个pdfurl

## 12.查询费用阶梯明细

http://xxxxx/testapi/op/BillInfo/GetLadderdetail POST

入参：

"{\"channel\":\"wechat\",\"openid\":\"o8D5D1qJj1za1poCjjwlDGt0r5YA\",\"customercode\":\"1285160451\",\"billmonth\":\"201812\"}";

//channel:微信渠道固定传 "wechat", openid: 传渠道openid或账号， customercode：客户编号， billmomnth：账单月份

出参：

{"code":0,"datarows":3,"data":[

{"billingladderid":964246029,"userid":7992552,"billmonth":201812,"waterusagename":"居民用水","wateritemname":"垃圾费","laddersn":1,"ladderunit":15,"ladderprice":0.59,"landercost":8.85},

{"billingladderid":964246030,"userid":7992552,"billmonth":201812,"waterusagename":"居民用水","wateritemname":"污水费","laddersn":1,"ladderunit":15,"ladderprice":0.9,"landercost":13.5},

{"billingladderid":964246031,"userid":7992552,"billmonth":201812,"waterusagename":"居民用水","wateritemname":"水费","laddersn":1,"ladderunit":17,"ladderprice":2.67,"landercost":45.39}],"datasource":"localdb","message":"操作成功"}

出参：

Long billingladderid;

Long userid; //用户id

Integer billmonth; //账单月份

String waterusagename;//用水性质

String wateritemname; //费用类型

Integer laddersn;//阶梯档位

Integer ladderunit; //阶梯水量

Double ladderprice;//阶梯水价

Double landercost;//阶梯水费

## 13.支付接口(无测试地址，均为生产地址)

外网地址：http://szgk.sz-water.com.cn/payservice

请求地址：[http://10.250.2.12:7000](http://10.250.2.12:7000/)

微信二维码：/pay/wxQRCode

支付宝二维码：/pay/alipayQRCode

银联二维码：/pay/upQRCode

请求方式：POST

请求参数：

{

"channelId":"4", //4:自助终端

"contactId":"U001", //appUserId

"accountId":"U001\_wx001",//openId

"payType":"WxQRCode", //支付方式WxQRCode=微信二维码

// AlipayQRCode=支付宝二维码

// UnionPayQRCode=银联二维码

"amount":"1", //支付金额（分）

"orderTitle":"2019年1月水费", //账单名字规则缴费年月+水费

"details":[

{

"customerId":"4520456922", //用户编号

"costMonth":"201812,201901",//缴费月份

"amount":"1" //金额(分)

}

]

}

返回参数：

{

"message":null,

"statusCode":0,

"content":{

"qrcode":"https://pay.swiftpass.cn/pay/qrcode?uuid=https%3A%2F%2Fqr.95516.com%2F00010000%2F01171616948150942996869696526658",

//二维码地址

"paymentSn":"d8a07c0f2a07461a934a4d33766c0aba",//支付订单号

"payInfo":null

},

"succeed":true //成功标志

}

## 14.支付状态接口(无测试地址，均为生产地址)

发起支付请求后，可针对支付请求查询其支付状态。

支付状态：

1：成功：表示支付操作完成，金额正确支付。

2：超时：表示为在特定时间内未完成支付操作。

注：成功获取到交易二维码后，应当及时发起一个不超时的http请求此地址，在状态变更后，会返回参数

请求地址：[http://10.250.2.12:7000](http://10.250.2.12:7000/)/pay/payWaiting

请求类型：POST

请求参数：【接口13返回中content参数原样送上】

{

"qrcode":"https://pay.swiftpass.cn/pay/qrcode?uuid=https%3A%2F%2Fqr.95516.com%2F00010000%2F01171616948150942996869696526658",

"paymentSn":"d8a07c0f2a07461a934a4d33766c0aba",

"payInfo":null

}

响应：

{

"message":null,

"statusCode":0,

"content":"ack\_pay",

"succeed":true

}

支付成功

{

"message":null,

"statusCode":-1,

"content":null,

"succeed":false

}

支付超时，二维码类支付此时应该重新获取新的交易二维码

## 15.销账状态接口(无测试地址，均为生产地址)

请求地址：[http://10.250.2.12:7000](http://10.250.2.12:7000/)/pay/payStatus

请求方式：POST

注：此接口在交易成功后，定时查询此接口以判断销账状态，若销账出现未知情况，则不会返回成功，页面应做好超时控制

请求参数：【接口13返回中content参数原样送上】

{

"qrcode":"https://pay.swiftpass.cn/pay/qrcode?uuid=https%3A%2F%2Fqr.95516.com%2F00010000%2F01171616948150942996869696526658",

"paymentSn":"d8a07c0f2a07461a934a4d33766c0aba",

"payInfo":null

}

响应：

{

"message": null,

"statusCode": 0,

"succeed": true, //成功标识

"content": "{\"successList\":[{\"amount\":\"16876\",\"customerid\":\"1132949601\",\"costmonth\":\"201907\"}],\"paymentsn\":\"f57ff61cc47d4009bc18851d777f1820\",\"failAmount\":0,\"failList\":[],\"time\":1563266423890,\"successAmount\":16876,\"status\":\"Finished\"}"

}

successAmount:总成功金额

failAmount：总失败金额

paymentsn：支付订单号

successList：成功详情amount金额customerid用户编号costmonth账单月份

failList:失败详情amount金额customerid用户编号costmonth账单月份