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| **Open Interface SDK Documentation of Kuaishou** |
| Version 1.1.0 |
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|  |
| **2016/3/1** |



**Zhejiang KuaiShou Information Technology Ltd.**

**Version History**

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| --- | --- | --- | --- |
| **Version** | **Updating Date** | **Editor** | **Updated content** |
| 1.0.0 | 2016.3.15 | Guangmu, Zhang | First draft |
| 1.0.1 | 2016.7.15 | Guangmu, Zhang | WeChat Official Accounts payment |
| 1.0.2 | 2016.7.18 | Yongchao, Wang | Add details about statistics and batch queries, and modify the details of the document |
| 1.1.0 | 2016.8.5 | Yongchao, Wang | Add information about query interface, refund interface and third-party order number returning |

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## Summary

* This service is implemented based on http/https
* UTF-8 Character set: UTF-8
* Short link
* Message format: Support JSON
* Message encryption (not essential, but encryption of HTTP protocol communication is recommended)

Message encryption is supported. It depends on whether the parameter‘**encrypt’**is empty. Message is not encrypted when it is empty, otherwise it will be encrypted. Currently 3DES encryption is supported. The original message is encrypted and encoded with BASE64 during the encryption.

* Protocol entrance
	+ https：Production environment on https：

https://www.sssyin.cn /openGateway/openService/

* + http：Production environment on http:

http://www.sssyin.cn/openGateway/openService/

* + Testing environment:

<http://uat.sssyin.cn:9000/openGateway/openService/>

* Protocol invoking include:
	+ QR code payment procedure(scanned by consumers)
	+ QR code payment procedure(scanned by merchants)
	+ Asynchronous notification (Reverse interface)
	+ Return interface
	+ Transaction inquiry
	+ Revocation interface

## Using of the API

1. Create request object request

In SDK, it contains all the requests that need to be used.



Just create the requests and set the necessary parameters when it is used. Here is the code:



1. Get client

Get client provides a unified factory class that does not need to be created:



When you get the client, you need to import the client that invokes the SDK. If it is a JAVA call, you can use the code above. If it's an Android invoking, you need to import‘**false**’



In addition, the factory class also provides the transaction client and Write off client

Transaction client



When you get the client, you need to import the client that invokes the SDK. If it is a JAVA call, you can use the code above. If it's an Android invoking, you need to import‘**false**’



Write off client



1. Response Execute the request and get the return result

To execute the request, just invoke the client's execute method, here is the code:



The execution process must capture and handle exceptions. If the required parameters are not complete, there will be a error.

1. Result processing

After the response is acquired, start business process about the result. Determine whether the result is successful or not



## QR code payment procedure(scanned by merchants)

1. Demonstration



1. Interface profiles:
* request：com.sosopay.request. SosopayTradePayRequest
* client：SosopayAPIClientFactory.getSosopayClient(参数…);
* response：com.sosopay.response. SosopayTradePayResponse
* Timeout about this interface is 80 seconds. If the payment is not completed within 80 seconds, the transaction order will be cancelled automatically.
* The payment channel will be automatically judged without entry and will be returned to the specific payment channel after the payment is successful.
1. Request parameter

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| --- |
| Table 2.3 Requesting parameter |
| Parameter | Parameter Name | Type | Parameter Description | Can be empty? | Sample |
| BUSI\_ID | Merchant ID | String | Merchant ID is assigned centrally by SOUSHOU | No | 0010000001 |
| OPER\_ID | Operator ID | String | Operator ID | No | oper01 |
| DEV\_ID | Device number | String | Device number | No | dev01 |
| MERCHANTPARA | User parameter | String | The user parameter is encoded using base64, and the interface will return it without any modification. | Yes | 01000001 |
| REGISTER\_ID | Store code | String | Store code | Yes | 02016 |
| AMT | The transaction amount | String | Unit is CNY | No | ¥158.00 |
| DYNAMIC\_ID | Dynamic code for clients | Integer | Customer’s Alipay or WeChat wallet dynamic code (obtained by merchant scanning customer’s QR/barcode code) | No | 284214903060794755 |
| CHARGE\_CODE | Trading up serial number | String | Merchants traded up serial number (need to be unique) | No | 20150324001069125999 |
| PAY\_SUBJECT | Payment description | String | Payment description | No | 20150324001069125999 |
| goodsInfos | Product information description | List<GoodsInfo> | For node information, please refer to Appendix 1, "commodity information definition"" | Yes | Please refer to request sample 2.4  |

1. Return message

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| Table 2.5 Returning parameter for scanned interface |
| Parameters | Parameter Name | Type | Parameter Description | Sample |
| RESULT | Response code | Object | Response code of the interface. The sub-node of the node including:* CODE：Returned code. Please refer to appendix 5 for detailed info.
* INFO：Return information.
 | Please refer to “2.6 Returning sample “for detailed info. |
| CHANNEL\_TYPE | Payment channel | Integer | Please refer to appendix 2 for detailed info. | 1 |
| CHARGE\_CODE | Trading up serial number | String | Merchant trading up serial number | 20150324001069125999 |
| CHARGE\_DOWN\_CODE | Trading down serial number | String | Trading down serial number from SOUSHOU | 1435736619488 |
| CHARGE\_THIRD\_CODE | Serial number of pay channel | String | serial number of pay channel(alipay, wechat pay...) | 2088110245121545154 |
| MERCHANTPARA | User Parameter | String | The user parameter is encoded using base64, and the interface will return it without any modification. | 01000001 |
| FUND\_BILL\_LIST | Payment channel information | List | The payment channel information for this transaction and it can contain the information of the sub nodes for multiple channels, i.e. TRADEFUNDBILL, the parameters included by the node are: * AMOUNT：The trading amount which is paid via the specified payment channel, the unit is Yuan.
* FUND\_CHANNEL：Payment channel, please refer to appendix 3 for detailed info.
 | Please refer to “2.6 Sample for returning message“ |
| OPER\_ID | Operator ID | String | Operator ID | oper01 |
| DEV\_ID | Device number | String | Device number | dev01 |
| BEGIN\_TIME | The transaction date | Date | The transaction date | 2015-10-14 04:43:14 |
| AMT | The transaction amount | String | Unit is cent | 15800 |

## QR code payment procedure (scanned by consumers)

1. Demonstration



1. Interface introduction
* request：com.sosopay.request. SosopayTradePrecreateRequest
* client：SosopayAPIClientFactory.getSosopayClient(Parameter…);
* response：com.sosopay.response. SosopayTradePrecreateResponse
1. Request parameter list

 Table 3.3Request parameter

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Parameter name | Type | Parameter description | Can be empty | Sample |
| BUSI\_ID | Merchant ID | String | Merchant ID is allocated centrally by SOUSHOU | No | 0010000001 |
| OPER\_ID | Operator ID | String | Operator ID | No | Operator01 |
| DEV\_ID | Device number | String | Device number | No | Cash Register 01 |
| MERCHANTPARA | User parameter | String | The user parameter is encoded using base64, and the interface will return it without any modification. | Yes | 01000001 |
| REGISTER\_ID | Store code | String | Store code | Yes | 02016 |
| AMT | The transaction amount | String | Unit is Yuan | No | 158.00 |
| CHANNEL\_TYPE | Payment Channel | Integer | Please refer to appendix 2 for detailed info. | No | 1 |
| CHARGE\_CODE | Trading up serial number | String | Merchants traded up serial number (need to be unique) | No | 20150324001069125999 |
| NODIFY\_URL | Asynchronous notification address | String | The address that SOUSHOU can notify the merchant after a successful payment. 1，\_type: Requirement for the format of the returning message:Json or xml，xml is the default format when this parameter is not set.2，encrypt: Currently supports the 3DES encryption to the content of the message. When the parameter is empty, will not do any encryption. | Yes | http://221.12.11.172:8081/sosopayweb/sosopaytest? \_type=json&encrypt=3DES |
| PAY\_SUBJECT | Payment description | String | Payment description | No | QR Code to pay |
| goodsInfos | Product information description | List<GoodsInfo> | For node information, please refer to Appendix 1, "commodity information definition"" | Yes | Please refer to request sample 2.4  |

1. Return parameter

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| Table 3.5 Returning parameter for scanning interface |
| Parameter | Parameter name | Type | Parameter Description | Sample |
| RESULT | Response code | Object | The sub-node including:* CODE：Response code, please refer to appendix 5 for detailed info.
* INFO：Return message
 | Please refer to the sample in section 3.6 for detailed info. |
| CHARGE\_DOWN\_CODE | Trading down serial number | String | The transaction serial number returned by SOUSHOU | 1435736619488 |
| CHARGE\_CODE | Tradingserialnumber | String | Merchants traded up serial number (need to be unique) | 20150324001069125999 |
| MERCHANTPARA | User parameters | String | User parameter is encoded by base64 and the interface return the data as returned. | 01000001 |
| BAR\_CODE | Payment links | String | Used to generate the QR code of the payment(alipay, WeChat pay)，or the payment link of other bank payments.  | https://qr.alipay.com/baidecagzveqxn6oe7 |

## WeChat Official Accounts payment procedure

1. Interface introduction
* request：com.sosopay.request. SosopayTradePrecreateRequest
* client：SosopayAPIClientFactory.getSosopayClient(参数…);
* response：com.sosopay.response. SosopayTradePrecreateResponse
1. Request parameter table

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| --- |
| Table 4.2 Requesting parameter for interface |
| Parameter | Parameter name | Type | Parameter Description | Can be empty? | Sample |
| BUSI\_ID | Merchant ID | String | Merchant ID is allocated centrally by SOUSHOU | No | 0010000001 |
| OPER\_ID | Operator ID | String | Operator ID | No | Operator01 |
| DEV\_ID | Device number | String | Device number | No | Cash Register 01 |
| MERCHANTPARA | User parameter | String | The user parameter is encoded using base64, and the interface will return it without any modification. | Yes | 01000001 |
| REGISTER\_ID | Store code | String | Store code | Yes | 02016 |
| AMT | The transaction amount | String | Unit is Yuan | No | 158.00 |
| CHANNEL\_TYPE | Payment Channel | Integer | Please refer to appendix 2 for detailed info. | No | 1 |
| TRADE\_TYPE | Pay type | String | values：JSAPI，NATIVE，APPDefault is NATIVE  | Yes | JSAPI |
| subAppid | The appid of Sub merchant | String | The appid of Sub merchant distributed by WeChat,this param is required when you need obtain sub\_openid after payment completion | Yes | wx8888888888888888 |
| subOpenid | Sub openid under subappid | String | If trade\_type==JSAPI，this parameter can’t be empty,it is uniquely identify under the sub-merchant appid for user | Yes |  |
| CHARGE\_CODE | Tradingserialnumber | String | Merchants traded up serial number (need to be unique) | No | 20150324001069125999 |
| NODIFY\_URL | Asynchronous notification address | String | The address that SOUSHOU can notify the merchant after a successful payment. 1，\_type: Requirement for the format of the returning message:Json or xml，xml is the default format when this parameter is not set.2，encrypt: Currently supports the 3DES encryption to the content of the message. When the parameter is empty, will not do any encryption. | Yes | http://221.12.11.172:8081/sosopayweb/sosopaytest? \_type=json&encrypt=3DES |
| PAY\_SUBJECT | Payment description | String | Payment description | No | QR Code to pay |
| GOODS\_DETAIL | Product information description | List | The description for the product which can contain multiple items.For node information, please refer to the appendix 1 for detailed info. | Yes | Please refer to “4.3 Sample for requesting message “for detailed info. |

1. Return parameter

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| --- |
| Table 3.5 returns parameters |
| Parameter | Parameter name | Type | Parameter Description | Can be empty? | Sample |
| RESULT | Response code | Object | Xml node nodes includeCODE: return code. Please refer to Appendix 5 for details* INFO: return message
 | No | Please refer to the return example |
| CHARGE\_DOWN\_CODE | Trading down serial number | String | Transaction serial number returned from Kuaishou | No | 1435736619488 |
| CHARGE\_CODE | Trading up serial number | String | Merchants traded up serial number (need to be unique) | No | 20150324001069125999 |
| CHARGE\_THIRD\_CODE | Channels serial number | String | serial number of pay channel (alipay, Wechat pay...) | No | 2016071521001004510282746866 |
| MERCHANTPARA | User Parameter | String | The user parameter is encoded using base64, and the interface will return it without any modification. | Yes | 01000001 |
| appId | Wechat official account id | String | Service provider APPID | No |  |
| timeStamp | time stamp | String | time stamp | No |  |
| nonceStr | Random string | String | Random string | No |  |
| packageData | Order details extension string | String | Order details extension string | No |  |
| signType | sign | String | sign | No |  |
| sign | sign | String | sign | No |  |

## Asynchronous notification

* 1. Interface introduction
* The asynchronous interface is applicable for returning payment result when customer scanning merchant’s QR code/bar code for payment.
* URL: Merchant’s address for receiving the asynchronous notification? \_type=json&encrypt=3DES&sign={sign}
* Invocation Mode：POST
* The asynchronous notification will stop when the response code of the http request is 200, otherwise will keep querying the notification interface for 30 times per 5 seconds.
* Format for notification message：according ‘\_type’ parameter to determine: if it is not specified, then default format is xml, and if it is set as “json”, then the returning message will be in json format.
* Whether to encrypt the returning message： according ‘encrypt’ to determine, if it is empty, then no encryption is applied. Currently, 3DES encryption is supported.
	1. Notification parameters

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| --- |
| Table 4.2 Parameters for asynchronous interface |
| Parameter | Parameter name | Type | Parameter description | Can be empty? | Sample |
| BUSI\_ID | Merchant ID | String | Merchant ID is assigned by SOUSHOU | No | 0010000001 |
| OPER\_ID | Operator ID | String | Operator ID | No | Cash register 01 |
| DEV\_ID | Device number | String | Device number | No | Cash register 01 |
| AMT | Trading amount | String | Unit is Cent | No | 15800 |
| CHANNEL\_TYPE | Payment channel | Integer | Please refer to appendix 2 for detailed info. | No | 1 |
| CHARGE\_CODE | Trading serial number | String | Merchants trading up serial number (need to be unique) | No | 20150324001069125999 |
| CHARGE\_DOWN\_CODE | Trading down serial number | String | Trading down serial number returned by SOUSHOU | No | 1435736619488 |
| CHARGE\_THIRD\_CODE | Serial number of pay channel | String | serial number of pay channel(alipay, wechat pay...) | No | 2016071521001004510282746866 |
| PAY\_SUBJECT | Description for payment information | String | Description for payment information | No | QR code products |
| GOODS\_DETAIL | Product details | List | The product information which can contain multiple products.For node information, please refer to appendix 1 for detailed info. | Yes | Please refer to 4.3 for sample. |
| STATE | Order status | Integer | Please refer to appendix 4 for detailed info. | No | 1 |
| MERCHANTPARA | User parameter | String | The user parameter is encoded using base64, and the interface will return it without any modification. | Yes | 01000001 |
| FUND\_BILL\_LIST | Information for Payment channel | List | The payment channel information for this transaction, and it can contain the information of the sub-node (<TRADEFUNDBILL>) for multiple channels, the parameters included by the node are: * AMOUNT：The trading amount which is paid via the specified payment channel, and the unit is Yuan.
* FUND\_CHANNEL：Payment channel, please refer to appendix 3 for detailed info.
 | No | Please refer to 4.3 for sample |

* 1. Notification message sample

JSON format

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| { "PAY\_NODIFY": { "BUSI\_ID": "0010000001", "CHARGE\_CODE": "1C88FADB-75D2-4517-9C38-F273D423FFF3", "CHARGE\_DOWN\_CODE": "20151123100000095182", "CHANNEL\_TYPE": 1, "STATE": 1, "AMT": 1, "OPER\_ID": "TEST1", "PAY\_SUBJECT": "嗖嗖产品1", "FUND\_BILL\_LIST": { "TRADEFUNDBILL": [ { "FUND\_CHANNEL": "10", "AMOUNT": "0.01" } ] }, "DEV\_ID": "QQQQ", "MERCHANTPARA": "111111111111111111111111" }} |

* 1. Notification return message (notification, return SUCCESS, stop notification)

## Refund interface

* 1. Interface introduction
* request：com.sosopay.request. SosopayTradeRefundRequest
* client：SosopayAPIClientFactory.getSosopayClient(parameter…);
* response：com.sosopay.response. SosopayTradeRefundResponse
	1. request parameter

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| --- |
| Table 6.2 Requesting parameters for refund interface |
| Parameter | Parameter name | Type | Parameter description | Can be empty? | Sample |
| BUSI\_ID | Merchant ID | String | Merchant ID is assigned by SOUSHOU | No | 0010000001 |
| OPER\_ID | Operator ID | String | Operator ID | No | oper01 |
| DEV\_ID | Device number | String | Device number | No | dev01 |
| CHARGE\_REFUND\_FEE | Amount of the refund | String | The refund amount cannot be greater than the principal amount. The unit is Yuan. | No | 158.00 |
| REFUND\_SUBJECT | Description for refund | String | Description for refund | No | Merchant refunds |
| CHARGE\_CODE | Trading up serial number | String | Trading up serial number (need to be unique) | No | 20150324001069125999 |
| CHARGE\_DOWN\_CODE | Trading down serial number | String | The trading down serial number retuned by SOUSHOU (either trading up or trading down serial number will be leveraged. And the trading down serial number will take priority when both numbers are available.) | Yes | 1435736619488 |
| OUT\_REFUND\_NO | Serial number for refunding | String | Merchant refund serial number (need to be unique) | Yes | 20150324001069125999 |

* 1. Return Parameter

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| --- |
| Table5.4 rerurn parameter |
| Parameter | Parameter name | Type | Parameter description | Can be empty? | Sample |
| RESULT | Response code | String | Xml node nodes includeCODE: return code. Please refer to Appendix 5 for detailsINFO: return message | NO | Please refer to the return example5.5 |
| AMT | Transaction amount | String | In 0.01 yuan | NO | 15800 |
| CHARGE\_CODE | Transaction serial number | String | Trading up serial number (need to be unique) | NO | 20150324001069125999 |
| CHARGE\_DOWN\_CODE | Trading down serial number | String | Down serial number will be returned from Kuaishou | NO | 1435736619488 |
| CHARGE\_THIRD\_CODE | Channel serial number | String | Serial number of pay channel (alipay, wechat pay...) | NO | 2016071521001004510282746866 |
| FUND\_BILL\_LIST | Refund channel | List | The payment channel information for this transaction in XML format and it can contain the information of the sub nodes for multiple channels, i.e. TRADEFUNDBILL, the parameters included by the node are: * AMOUNT：The trading amount which is paid via the specified payment channel, the unit is Yuan.
* FUND\_CHANNEL：Payment channel, please refer to appendix 3 for detailed info.
 | NO | Please refer to the return example5.5 |
| CHANNEL\_TYPE | Payment channel | String | Please refer to appendix 2 Payment channel dictionary | NO | 1 |

## Query interface

1. Interface introduction
* request：com.sosopay.request. SosopayTradeQueryRequest
* client：SosopayAPIClientFactory.getSosopayClient(parameter…);
* response：com.sosopay.response. SosopayTradeQueryResponse
* Serial number CHARGE\_CODE when class **serType=0** or it is null value it is the merchants serial number， if **serType=1**, it is Kuaishou serial number.
1. Return prarameter

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| --- |
| Table7.2 Query interface returns parameters |
| Parameters | Parameter Name | Type | Parameter Description | Can be empty? | Sample |
| RESULT | Response code | Object | The Xml node subnodes are included\*CODE: return code. Please refer to Appendix 5 for details\*INFO: return message | NO | Please refer to the sample |
| BUSI\_ID | Merchant ID | String | The merchant ID is assigned by Kuaishou | NO | 0010000001 |
| OPER\_ID | Operator ID | String | Operator ID | NO | Cashier 01 |
| DEV\_ID | Device ID | String | Device ID | NO | Cashier 01 |
| MERCHANTPARA | User parameter | String | User parameters are encoded by Base64, and the interface returns as without modification | Yes | 01000001 |
| AMT | Transaction amount | String | In 0.01 yuan | NO | 15800 |
| CHANNEL\_TYPE | Payment channels | String | Please refer to Appendix 2, payment channel dictionary" | NO | 1 |
| CHARGE\_CODE | Trading serial number | String | Merchant transaction uplink serial number | NO | 20150324001069125999 |
| CHARGE\_DOWN\_CODE | Downlink transaction serial number | String | Downlink serial number will be returned from Kuaishou | NO | 1435736619488 |
| CHARGE\_THIRD\_CODE | Channel serial number | String | Serial number of pay channel (alipay, wechat pay...) | NO | 2016071521001004510282746866 |
| PAY\_SUBJECT | Payment information description | String | Payment information description | NO | QR code product payment |
| STATE | Order status | String | Please refer to Appendix 4, "order status dictionary"" | NO | 1 |
| GOODS\_DETAIL | Product details | List | The transaction description contains several kinds of commodity. For node information, please refer to Appendix 1, "commodity information definition""。 | Yes | Please refer to the sample |
| BEGIN\_TIME | Transaction start time | Date | Transaction start time | NO | 2015-10-14 04:43:14 |
| END\_TIME | Transaction end time | Date | Transaction end time | Yes | 2015-10-14 04:43:14 |
| REGISTER\_ID | Store number | String | Store number | Yes | 02016 |
| DYNAMIC\_ID | Dynamic code of payer | String | Customer’s Alipay or WeChat wallet dynamic code (obtained by merchant scanning customer’s QR/barcode code) | NO | 284214903060794755 |
| FUND\_BILL\_LIST | Payment channel information | List | The payment channel information for this transaction in XML format and it can contain the information of the sub nodes for multiple channels, i.e. TRADEFUNDBILL, the parameters included by the node are: * AMOUNT：The trading amount which is paid via the specified payment channel, the unit is Yuan.
* FUND\_CHANNEL：Payment channel, please refer to appendix 3 for detailed info.
 | NO | Please refer to the sample |

## revocation interface

1. Interface Introduction
* request：com.sosopay.request. SosopayTradeCancelRequest
* client：SosopayAPIClientFactory.getSosopayClient(parameter…);
	+ response：com.sosopay.response. SosopayTradeCancelResponse
	+ If parameter **opType**is nullor not **ACO** revocation will be started in real time，When **opType=ACO**  revocation will be submitted.

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| Table 8.2 The returning parameter for revoking interface |
| Parameter | Parameter name | Type | Parameter description | Sample |
| RESULT | Response code | Object | The sub-node including:* CODE：Returning code, please refer to appendix 5 for detailed info.
* INFO：Returning message
 | 1 |

## Batch query interface

* 1. Interface introduction
* request：com.sosopay.request. SosopayTradeBatchQueryRequest
* client：SosopayAPIClientFactory.getSosopayClient(parameter…);
	+ response：com.sosopay.response. SosopayTradeBatchQueryResponse
	1. Request parameter

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Parameter | Parameter name | Type | Parameter description | Can be empty | Sample |
| \_type | Response format | String | Return data format：JSON in default | NO | json |
| state | Order status | Integer | Order status, please refer to Appendix 4 (for all status data when empty) | Yes | 1 |
| beginDate | Start time | String | Query start date format：YYYY-MM-DD | Yes | 2016-01-01 |
| endDate | End time | String | Query end dateformat：YYYY-MM-DD | Yes | 2016-01-31 |
| busiCode | Merchant ID | String |  | NO | 0010000001 |
| userId | Operator ID | String | Operator account which is currently used to login the PC  | Yes | test |
| Channel Type | Payment channel | Integer | Please refer to appendix 2 | Yes |  |
| PageNum | page | Integer | Page number | NO | 1 |
| pageSize | Records per page | Integer | Records per page | NO | 10 |
| Charge Code | Merchant order number | String | Uplink order number | Yes |  |

* 1. Return Parameter

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| --- | --- | --- | --- | --- | --- |
| Parameter | Parameter name | Type | Parameter description | Can be empty | Sample |
| RESULT | Response code | Object | Xml node nodes includeCODE: return code. Please refer to Appendix 5 for detailsINFO: return message | NO | Please refer to the sample |
| chargesSize | Order quantity | Integer | Returned Order quantity | NO | 1 |
| tradeInfos | Order list | List<TradeInfo> | Returned Order list | Yes |  |

## Payment channel interface

1. Interface introduction
* request：com.sosopay.request. SosopayChannelRequest
* client：SosopayAPIClientFactory.getSosopayClient(parameter…);
	+ response：com.sosopay.response. SosopayChannelResponse
1. Return parameter

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| --- |
| Table7.2 revocation interface Return parameter |
| Parameter | Parameter name | Type | Parameter description | Can be empty | Sample |
| RESULT | Response code | Object | Xml node nodes includeCODE: return code. Please refer to Appendix 5 for details* INFO: return message
 | NO | Please refer to the returm sample 2.2” |
| PAY\_CHANNEL\_LIST | Payment channel | List | The Kuaishou cashier's payment channel information contains multiple channel information sub-nodes <PAY\_CHANNEL, which contains the parameters CHANNEL\_NAME: Payment channel name CHANNEL\_TYPE: Payment Channels, see "Appendix 2 Payment Channel Data Dictionary"*  SORT\_NO: Configured payment channel display location
 | NO | For Xml return format See "8.3 xml return example"For JSON return format See "8.4 json return sample" |

## Permission authentication

1. Interface introduction
* request：com.sosopay.request. SosoauthRequest
* client：SosopayAPIClientFactory.getSosopayClient(parameter…);
	+ response：com.sosopay.response. SosoauthResponse

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| Table 9.1 Permission authentication input parameter |
| Parameter | Parameter name | Type | Parameter description | Can be empty | Sample |
| username | username | String | User name on mobile APP. The username for the POS device is the assigned device number | NO |  |
| password | password | String | password | NO |  |
| busiCode | Merchant ID | String | Provide Merchant ID to the user  | Yes |  |

1. 返回参数 Return Parameter

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| Table9.2 Permission authentication interface returns parameters |
| Parameter | Parameter name | Type | Parameter description | Can be empty | Sample |
| success | Response code | String | true : Authentication is successfulfalse：Authentication is failed | NO | Please refer to the sample |
| message | Failed massage | String | Error message is returned after failure | Yes | Account/password error |
| user | user | Object | User informarion | Yes |  |
| id | Devide ID | String | UserID | Yes | 1 |
| companyId | Merchant ID | String |  | Yes |  |
| loginName | Loginname | String |  | Yes |  |
| name | username | String |  | Yes |  |
| userType | User type | String | 1：No refund permission2：With refund permission | Yes | 2 |
| loginDate | Latest login date | String | 2015-11-02 14:28:36 | Yes |  |
| loginFlag | Forbid or not | String | 0：Login disabled1：Login available | Yes | Please refer to the sample |
| delFlag | Delete or not | String | 0：Available1：Deteled | Yes | Please refer to the sample |
| IMEI | Device serial number | String |  | Yes |  |
| teType | Terminal software version | String | 1 Android | Yes |  |
| appVer | Terminal software version number | String |  | Yes |  |
| loginStatus | Online status |  | 0：Offline1：Online | Yes |  |
| company | Merchants | Object |  | Yes |  |
| id | Merchant ID |  |  | Yes |  |
| name | Merchant name |  |  | Yes |  |
| code | Merchant code |  | After the certification is passed, the order merchant code needs to be checked again with this parameter, and the same merchant can be refunded | Yes |  |
| useable | Merchant status |  | 0 On behalf of the audit1 Audit passed 2 audit failed | Yes |  |
| delFlag | Whether merchant is deleted |  | 0：Available1：Deleted | Yes |  |
| amountLimit | Transaction limit |  |  | Yes |  |
| refundAtScene | Whether refund site |  | 0:Yes, 1:No | Yes |  |
| chargeMode | Trading mode |  | 1 Offline payments 2 cashier | Yes |  |
| profit | rate |  |  | Yes |  |
| timeLimit | Timeout limit (minute) |  |  | Yes |  |
| isUploadGoods | Whether Upload commodity information |  | 0 don’t upload 1 Upload | Yes |  |
| privateUrl | Merchant URL |  |  | Yes |  |

1. Return example

Format:JSON

## Appendix

### Appendix 1 Definition of the Product Information

|  |
| --- |
| Table8.1 Product information GOODS\_DETAIL |
| Parameter | Parameter name | Type | Parameter Description | Can be empty? | Sample |
| GOOD\_ID | Product ID | String | Product ID | No | 2010 |
| GOOD\_NAME | Product name | String | Product name | No | IPhone |
| GOOD\_CLASS | Classification of products | String | Device code | No | Mobile phone |
| GOOD\_PRICE | Amount of the product | String | Unit is Yuan | No | 4999.00 |
| GOOD\_SUBJECT | Product description | String | Please refer to appendix 2 for detailed info. | No | Digital products |
| GOOD\_QUANTITY | The number of products | String | Need to be unique | No | 1 |
| GOOD\_SHOWURL | Exhibition address for the product | String | The address of the goods | Yes | www.sssyin.cn |

### Appendix 2 Payment Channel Data Dictionary (Items which are marked in red are not supported yet )

|  |
| --- |
| Table 8.2 CHANNEL\_TYPE |
| Code of payment code | Payment channel |
| 0 | when Customer’s QR code is scanned by merchant to pay,we will automatic determination channels if set 0. |
| 1 | Alipay |
| 2 | WeChat pay |
| 3 | China Merchants Bank |
| 4 | ICBC |
| 5 | CCB |
| 6 | Bank of Communications |
| 7 | Everbright Bank of China |
| 8 | Huaxia Bank |
| 9 | Agricultural Bank |
| 10 | Shanghai Pudong Development Bank |
| 11 | Minsheng Bank of China |
| 12 | Industrial Bank |
| 13 | Bank of China |
| 14 | CITIC Bank |
| 15 | China Guangfa Bank |
| 16 | Ping An Bank |
| 17 | Reserved |
| 18 | Shenzhen Development Bank |
| 19 | HSBC |
| 20 | Bank of East Asia |
| 21 | Hang Seng Bank |
| 22 | Citibank |
| 23 | Standard Chartered Bank |
| 24 | Baidu Wallet |
| 25 | ChinaMobile HeBao wallet |
| 26 | Unicom pays |
| 27 | ChinaTelecom Yi payment |
| 28 | Mi Wallet |
| 29 | Apple Pay |
| 30 | Samsung Pay |
| 31 | QQ Wallet  |

### Appendix 3 Payment Channel Data Dictionary

|  |
| --- |
| Table 8.3 Payment channels FUND\_BILL\_LIST |
| Code of payment channel | Payment channel |
| 00 | Alipay bonus |
| 10 | Alipay balance |
| 60 | Alipay prepaid card |
| 30 | Alipay Ji Fenbao |
| 70 | Payment by Alipay credit |
| 40 | Discount vouchers |
| 80 | Prepaid card |
| 90 | Credit Payment (consumer loan) |
| 11 | WeChat Pay |
| 41 | Payment by WeChat cash coupon |
| 12 | QQ Wallet pay |
| 42 | QQ Wallet cash coupon pay |
| 100 | Alipay financial accounts |
| 101 | Merchant store card |
| 102 | Merchant coupons |
| 103 | Bank card (via Alipay) |
| 104 | Merchant bonus |
| 9001 | Bank card (via Bank, including debit and credit cards) |
| 9002 | Random discount |
| 9003 | Free |
| 9004 | Apply corresponding discount when transaction amount meet the pre-set discounting amount by the merchant |

### Appendix 4 Order Status Dictionary

|  |
| --- |
| Table 8.4 Order State |
| Order status | Description |
| 0 | Pending payment |
| 1 | Paid |
| 2 | Revoked |
| 3 | Application for revocation |
| 4 | Partial refund |
| 5 | Refunded |
| 6 | Transaction closed |
| 8 | Refunding(Platform did not return a result of refund) |
| 9 | Refund failed |
| 10 | To be refunded (check the refund when the corresponding merchant serial number OUT\_REFUND\_N return to the state) |
| 11 | Refund successful (query refund when the corresponding business into the serial number OUT\_REFUND\_N, return to the state) |
| 12 | Refund Canceled (check refund time to return to the corresponding business serial number OUT\_REFUND\_N return to the state) |
| 13 | Refund failed (check the refund when the corresponding merchant serial number OUT\_REFUND\_N return to the state) |
| 14 | Cancel the order of success (check the refund when the corresponding merchant serial number OUT\_REFUND\_N return to the state) |

### Appendix 5 Return Code Data Dictionary

|  |
| --- |
| Table 9.5 Return code |
| Return code | Description |
| SUCESS | Success |
| FAIL | Fail |
| ILLEGAL\_PARAMETER | Parameter error |
| INVALID\_SIGN  | Signature error |
| AMT\_ERROR | Amount error |
| DATABASE\_ERROR | Database connection exception |
| INVALID\_CONTRACT | Invalid contract status |
| UNREGISTERED\_BUSI | Unregistered merchant |
| EXCEPTION | Unknown exception |
| CHARGE\_NONEXISTENT | The transaction does not exist |
| SERVICE\_UNAVAILABLE | Service is not available |
| HTTP\_EXCEPTION | HTTP requesting exception |
| IO\_EXCEPTION | IO exception |
| CREATE\_SECURITY\_CONNECTION\_ERROR | Failed to create secure links! |
| AREADY\_REVOKED | The order has been revoked |
| SERIAL\_REPEAT | The serial number is duplicated with the existing record in the system. |