

Indirect Payment Processor

Technical Integration

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1 INTRODUCTION

1.1 Abstract

This document provides a detailed description about the different features and interfaces included in the Payment Processor.

1.2 Audience

This paper provides a starting point for technology professionals or developers who are looking for technical information about integrating the Payment platform into their applications. Familiarity with web development techniques is assumed.

1.3 Prerequisites

- All input and all responses is UTF-8.
- You are using the right merchant number, payment url and secret key. InDirectInterface
- **Testing Gateway:** <https://ssl.wondersslforsite.com/TestInDirectInterface>
- **Official Gateway :** <https://ssl.wondersslforsite.com/InDirectInterface>
- We strongly recommend performing the following test cases in test environment before moving to production.
- **Payment information is submitted to payment platform in Form, and submitting mode is Post with hidden Field.**

Note! No real bank transfers are involved under the test suite.

2 Indirect payments

2.1 Payment Session Example

We open a merchant account No.11111 for you, then we will provide a gateway No.11111001, a SignKey "abcdefjhigk" to you.

For example: A girl named vivian who uses her credit card (No. 4111111111111111) to take an order that No. is 00001. The total amount is EUR 98. Then the merchant will post it to the address that you filled up on the Website. In the meantime, the electronic bill will be sent to your email (test@domain.com). All the trade information will be encrypted by Sha256. At the same time, the system will send signInfo to us. Once it is done, we will send the result to the returnUrl (<http://domain.com/result.php>) that you provide by redirect .

```
<input type="hidden" name="merNo" value="1111" />
<input type="hidden" name="gatewayNo" value="1111001" />
<input type="hidden" name="orderNo" value="00001" />
<input type="hidden" name="orderCurreny" value="EUR" />
<input type="hidden" name="orderAoumnt" value="98" />
<input type="hidden" name="returnUrl" value="http://domain.com/return.php" />
<input type="hidden" name="shipFee" value="8" />
<input type="hidden" name="discount" value="-10" />
<input type="hidden" name="goodsInfo" value="iphone# ,#L124#,#45.2#,#2
                                     #;#Nike#,#k121#,#20.5#,#4 " />
<input type="hidden" name="cardNo" value="4111111111111111" />
<input type="hidden" name="cardExpireMonth " value="12" />
<input type="hidden" name="cardExpireYear value="2019" />
<input type="hidden" name="cardSecurityCode " value="456" />
<input type="hidden" name="issuingBank " value="bankofusa" />
<input type="hidden" name="fisrtName" value="jone" />
<input type="hidden" name="lastName" value="eva" />
<input type="hidden" name="customerID" value="10001" />
<input type="hidden" name="email" value="test@google.com" />
<input type="hidden" name="ip" value="127.0.0.1" />
<input type="hidden" name="phone" value="5258636 " />
<input type="hidden" name="country" value="US" />
<input type="hidden" name="state" value="Canada" />
<input type="hidden" name="city" value="tue" />
<input type="hidden" name="address" value="asdfsdfsdfs" />
<input type="hidden" name="zip" value="123456" />
<input type="hidden" name="shipFirstName" value="jone" />
<input type="hidden" name="shipLastName" value="eva" />
```

```

<input type="hidden" name="shipAddress" value="huaerjie" />
<input type="hidden" name="shipCity" value="Nork" />
<input type="hidden" name="shipState" value="FL" />
<input type="hidden" name="shipCountry" value="US" />
<input type="hidden" name="shipZip" value="22222" />
<input type="hidden" name="shipEmail" value="test@hotmail.com" />
<input type="hidden" name="shipPhone" value="18888888888" />
<input type="hidden" name="remark" value="test" />
<input type="hidden" name="signInfo " value="4B8FA15BBCA0A22F3FDB" />
    
```

2.2 Authorize

The next table describes the request parameters to perform an Authorize.

Name	Type	Length	Required	Description
Merchant Info				
merNo	String	5	Yes	This value is used to authenticate a merchant.
gatewayNo	String	8	Yes	This value is used to authenticate a merchant.
orderNo	String	50	Yes	This value is the order number or tracking code, it can contain any alphanumeric value with a maximum length of 50 chars. The value must be unique.
orderCurrency	String	3	Yes	ISO 4217 Currency code that indicates the currency of the transaction.
orderAmount	String	10	Yes	Transaction amount. The decimal separator must be a point "."
returnUrl	String	500	Yes	Payment result will be posted to this URL provided by merchant.
notifyUrl	String	500	No	return the payment result to this address by server asynchronous.
shipFee	String	10	No	The delivery freight Only for the digital, and only two decimal places after the decimal point
discount	String	10	No	Default negative values Only for the digital, and only two decimal places after the decimal point
goodsInfo	String	5000	No	Goods detail Information

				Including Name,Id,price and quantity Detail can be found in the appendices. APPENDIX: 5.1 Goods Information
Customer Info				
cardNo	String	20	Yes	Card holder account number.
cardExpireMonth	String	2	Yes	Card expiration Month. Valid values are from 1 to 12.
cardExpireYear	String	4	Yes	Card expiration Year expressed with 4 digits. i.e. 2007
cardSecurityCode	String	3	Yes	Card validation code. Each card type has a unique name for this field. Visa (Cvv2), MasterCard (Cvc2), Amex (CID) ...
issuingBank	String	255	No	Customer's credit card issuing bank.
customerID	String	200	No	The unique identifier of the guests on the website
firstName	String	100	Yes	Customer's first name.
lastName	String	50	Yes	Customer's last name.
email	String	200	Yes	Customer's email address.
phone	String	50	Yes	Customer's billing phone.
country	String	100	Yes	Customer's billing country. Two country code, eg:US
state	String	100	No	Customer's billing state.
city	String	100	Yes	Customer's billing city.
address	String	500	Yes	Customer's billing address
zip	String	100	Yes	Customer's billing zipCode
Encryption Info				
signInfo	String	64	Yes	Digital signature information. signInfo =sha256(merNo + gatewayNo + orderNo + orderCurrency + orderAmount + cardNO + cardExpireYear + cardExpireMonth + cardSecurityCode + signkey);
Delivery info				
shipFirstName	String	100	No	Consignee's first name
shipLastName	String	100	No	Consignee's last name
shipAddress	String	100	No	Consignee's shipping address
shipCity	String	100	No	Consignee's shipping city
shipState	String	100	No	Consignee's shipping state
shipCountry	String	100	No	Consignee's shipping country Two country code
shipZip	String	100	No	Consignee's shipping zip
shipEmail	String	100	No	Consignee's shipping email

Other Info				
remark	String	1000	No	order remark information

2.3 Operation Responses

The next table describes the fields returned in all the responses.

Name	Type	Description
merNo	String	This value is used to authenticate a merchant.
gatewayNo	String	This value is used to authenticate a merchant.
tradeNo	String	Unique identifier
orderNo	String	Customer's order number
orderCurrency	String	Customer's order currency.
orderAmount	String	Customer's order amount.
orderStatus	String	Transaction status: -2: To be confirmed -1: Pending 0: Failure 1: Success
orderInfo	String	Transaction result code + the result of a transaction information
billAddress	String	Billing address It will be returned when payment is successful.
signInfo	String	Digital signature on the payment of the results of key fields. signInfo =sha256(merNo + gatewayNo + tradeNo + orderNo + orderCurrency + orderAmount + orderStatus + orderInfo + signkey);
paymentMethod	String	Payment Method
remark	String	Remark□The self-defined message for merchant. It will be returned exactly as the original one.
orderErrorCode	String	Response Error Code (00: Success)
returnType	String	1 : Browser Back

		2 : server real time return 3 : server asynchronous return
--	--	---

3 Retrieve

3.1 Retrieve example

This method allows you retrieving the result of a transaction sent previously.

- Gateway :
- <http://mer.wonderlandpay.com/customerCheck>

```
<input type="hidden" name="merNo" value="1111" />
<input type="hidden" name="gatewayNo" value="1111001" />
<input type="hidden" name="orderNo" value="00001,00002,0003" />
<input type="hidden" name="singInfo" value="QWERTYUIDFGHJK" />
```

3.2 Submit Data

Name	Type	Length	Description
merNo	String	5	This value is used to authenticate a merchant.
gatewayNo	String	8	This value is used to authenticate a merchant.
orderNo	String	1000	Can inquire one or more order No. (can only enter up to 100 order number) The separator must be a comma","
signInfo	String	64	Digital signature information signInfo =sha256(merNo + gatewayNo + signkey);

3.3 Result data

If the batch query will return many records.

Name	Type	Description
merNo	String	This value is used to authenticate a merchant.
gatewayNo	String	This value is used to authenticate a merchant.
orderNo	String	Customer's order number.
tradeNo	String	Unique identifier
tradeDate	String	Trading hours. yyyyMMddHHmmss
tradeAmount	String	Customer's order amount.
tradeCurrency	String	Customer's order currency.
sourceWebSite	String	Customer's order website.
queryResult	String	-2: To be confirmed -1: To be processing 0 : failure 1 : success 2 : orders does not exist 3 : incoming parameters incomplete 4 : order an excessive number (can only enter up to 100 order number) 5 : merchants, gateway access error 6 : signInfo information error 7 : access to the ip error 999: query system error occurred
returnStatus	String	1 : success 3 : incoming parameters incomplete 4 : order an excessive number (can only enter up to 100 order number) 5 : merchants, gateway access error 6 : signInfo information error 7 : access to the ip error 999: query system error occurred

Example query interface returns:

```
{ "merNo": "10000",
  "gatewayNo": "10000001",
  "tradeList": [{ "tradeDate": "20140312142512",
                  "orderNo": "00001",
```

```
        "tradeNo": "N2014031214251201436375",
        "sourceWebSite": "mytest.com",
        "tradeAmount": "323",
        "queryResult": "1",
        "tradeCurrency": "USD"
    },
    {
        "tradeDate": "20140312132614",
        "orderNo": "00002",
        "tradeNo": "N2014031213261401436375",
        "sourceWebSite": "mytest.com",
        "tradeAmount": "62",
        "queryResult": "0",
        "tradeCurrency": "USD"
    }
    . . . . .
    ],
    "returnStatus": "1"
}
```

4 Common Errors

4.1 I0013 : Encryption value is incorrect

- a. Please signKey attention to correctness.
- b. Use sha256 encryption method.
- c. returnUrl is not allowed in the ampersand (&)

4.2 I0014 : Informal gateway No. accesses to formal interface

This gateway access number(gatewayNo) in the state of the test account, please do not submit to the official gateway address, you can be replaced with the [test gateway address](#).

The test is successful, please contact customer service gateway access to the official status.

4.3 I0015 : Untested gateway No. accesses to test interface

This gateway access number(gatewayNo) as a full trading account, please do not use the test address to the transaction. Please submit the address to the [official gateway address](#).

5 APPENDIX

5.1 Goods Information

Goods information (goodsInfo) arranged in the following order: name,Id, price, quantity
 Which the order can not be exchanged. It is separated by “#,#” between goods Info. And it is separated by “#;#” between good Info. If the information is empty,you can use “0” replace it. The currency of goods info is the same as order currency. The example is below:

```

    Good1-Name #,# Good1-ID#,# Good1-Price #,# Good1-Qty
                # ;#
    Good2-Name #,# Good2-ID#,# Good2-Price #,# Good2- Qty
                # ;#
    Good3-Name #,# Good3-ID#,# Good3-Price #,# Good3- Qty
    
```

5.2 List of ISO 4217 Currencies

Name	Code
US Dollar	USD
Hong Kong Dollar	HKD
Pound	GBP
Japanese Yen	JPY
Euro	EUR
Australia Dollar	AUD
Canadian Dollar	CAD
Singapore Dollar	SGD
New Zealand Dollar	NZD
Taiwan Dollar	TWD
Korean Won	KRW
Danish Krone	DKK
Turkish lira	TRL
Malaysian Ringgit	MYR
Thailand Baht	THB

Indian Rupee	INR
Philippine Peso	PHP
Swiss Franc	CHF
Swedish krone	SEK
New Shekel	ILS
South African Rand	ZAR
Russian Ruble	RUB
Norwegian Krone	NOK
United Arab Emirates Dirham	AED

5.3 Common Integration Errors

Code	Description
I0001	Merchant No. can not be empty
I0002	Gateway No. can not empty
I0003	Encrypted value can not be empty
I0004	Gateway of Merchant No. is incorrect
I0005	Merchant No. is not actived
I0006	Merchant No. is disabled
I0007	Merchant No. is canceled
I0008	The state of merchant No. is anomalous
I0009	Gateway No. is not actived
I0010	Gateway No. is disabled
I0011	Gateway No. is canceled
I0012	The state of gateway No. is anomalous
I0013	Encryption value is incorrect
I0014	Informal gateway No. accesses to formal interface
I0015	Untested gateway No. accesses to test interface
I0016	The gateway No. does not blind the interface
I0017	Merchant order No. is empty
I0018	Order No. can not exceed 50 characters
I0019	Order value can not be empty
I0020	Order value is incorrect
I0021	Invalid format of amount Two decimal places support and the amount must be greater than zero
I0022	Order currency is empty
I0023	Order currency is incorrect
I0024	Return URL can not be empty
I0025	The length of returning URL can not exceed 1000 characters
I0026	Card No can not be empty
I0027	Please input 13 to 16 digit

I0028	Card number should be digit
I0029	The card type entered is not currently supported.
I0030	Card No. is incorrect
I0031	Month can not be empty
I0032	The month should be two digits only
I0033	The month should be digit
I0034	The month should be between 1-12
I0035	Year can not be empty
I0036	The year should be four digits only
I0037	The year should be digit
I0038	Year and month can not be smaller than current date and greater than 10 year
I0039	Verification code can not be empty
I0040	Please input 3-digit or 4-digit Verification code
I0041	Security code should be digit
I0042	Issuing bank can not be empty
I0043	Issuing bank should be 2-50 characters only
I0044	First name can not be empty
I0045	First name should be within 2-50 characters
I0046	Last name can not be empty
I0047	Last name should be within 2-50 characters
I0048	E-mail address can not be empty
I0049	E-mail address should be within 2-100 characters
I0050	E-mail address format is incorrect
I0051	The phone number of card holder can not be empty
I0052	phone number should be within 2-50 characters
I0053	The country of cardholder can not be empty
I0054	country should be within 2-50 characters
I0055	The address of cardholder can not be empty
I0056	address should be within 2-500 characters
I0057	Zip code of cardholder can not be empty
I0058	Zip code should be within 2-50 characters
I0059	Required parameter can not be empty
I0060	Incorrect length parameter
I0061	There has been a successful transaction of this order No. within 24 hours
I0062	Host index exists
I0063	State/Province of cardholder can not be empty
I0064	State should be within 2-50 characters
I0065	City of cardholder can not be empty
I0066	City should be within 2-50 characters
I0067	Remark should be within 2-500 characters
I0068	It did not pass 2-Party limitation

I0069	Please select payment method
I0070	Please select payment type
I0071	IP address can not be empty
I0072	IP address format is incorrect
I0092	Payment method error
I0115	Not find the record
I0116	The merchant don't support the shortcut
R0000	High risk
R0001	The website was not submitted/registered
R0002	Cross-border transaction
R0003	High risk
R0004	High risk
R0015	High risk
R0014	Do not set up the limitation of amount
C0001	Merchant gateway No. unbinds the channel
C0002	Merchant gateway No. do not set up deduction rate
C0003	Channel deduction rate of merchant gateway No. is incorrect
C0004	Channel currency does not set up
C0005	The exchange rate of currency does not set up
C0006	Obtaining currency failed
C0007	Merchant does not bind payment domain name
C0008	Merchant gateway No. do not bind channel {0}
C0009	Merchant gateway No. do not set up deduction rate
C0010	The settlement currency does not exist
C0011	The settlement exchange rate does not set up
C0012	Merchant does not bind payment submit url
C0014	Rate ratio does not set up
C0013	The card type entered is not currently supported.
S0013	System Exception
S0014	Channel does not bind e-mail domain name
E0001	The operation has timed out
E0002	The operation has timed out
E0006	Receiving failed
E0007	System Error
E0008	Please don't submit payments repeatedly
E0009	Wrong operation
P0000	Repay parameter error
P0001	Transaction does not exist
P0002	Query the transaction exception
P0003	Transaction are not allowed to pay again
P0004	Transaction has exceeded the validity period
P0005	Data decryption failure
P0006	Transaction is not credit card payment

P0007	GatewayNo is not allowed to pay again
T0001	Transaction succeeded we do not charge any fees for testing transation
T0002	Pending
T0003	Succesed two party does not connect to the bank
T0004	Transaction failed
T0005	To be confirmed
U0001	Customer cancel
U0002	Transaction failed