

# **Direct 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.
- **Official Gateway:**
- Indirect payments: <https://shoppingingstore.com/TPInterface>  
Payment information is submitted to payment platform in Form, and submitting mode is Post with domain hidden.

We strongly recommend performing the following test cases in test environment before moving to production.

### **Testing Gateway:**

Indirect payments: <https://shoppingingstore.com/TestTPInterface>

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

## 2 Direct payments

### 2.1 Payment Session Example

We open a merchant account No.2222for you, the we will provide a gateway No.2222001 and SignKey"abcdefjhigk" to you.

For example: A girl named Evatan who uses her credit card (No.4512910687950025) 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@google.com](mailto:test@google.com)). All the trade information will be encrypted by Sha256. At the same time, the system will send signInfo to us.

```
<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="orderCurrency" value="EUR" />
<input type="hidden" name="orderAmount" value="98" />
<input type="hidden" name="firstName" value="tan" />
<input type="hidden" name="lastName" value="eva" />
<input type="hidden" name="cardNo" value="4512910687950025" />
<input type="hidden" name="cardExpireMonth" value="12" />
<input type="hidden" name="cardExpireYear" value="12" />
<input type="hidden" name="cardSecurityCode" value="456" />
<input type="hidden" name="issuingBank" value="bank of china" />
<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="USA" />
<input type="hidden" name="state" value="Canada" />
<input type="hidden" name="city" value="tue" />
<input type="hidden" name="address" value="asfdsfsdfsfs" />
<input type="hidden" name="zip" value="518000" />
<input type="hidden" name="signInfo" value="4B8FA15BBCA0A22F3FDB" />
<input type="hidden" name="returnUrl" value="http://www.xx.com" />
<input type="hidden" name="csid" id="csid" />
```

## 2.2 Authorize

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

Name	Type	Length	Required	Description
<b>Merchant Info</b>				
merNo	String	5	Yes	This value is provided by Trustspay and is used to authenticate a merchant.
gatewayNo	String	8	Yes	This value is provided by Trustspay and 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 50chars. 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 "."
<b>Customer Info</b>				
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	Yes	Customer's credit card issuing bank.
firstName	String	100	Yes	Customer's first name.
lastName	String	50	Yes	Customer's last name.
email	String	200	Yes	Customer's email address.
ip	String	50	Yes	Customer's IP.
phone	String	50	Yes	Customer's billing phone.
country	String	100	Yes	Customer's billing country.
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
signInfo	String	64	Yes	Digital signature information. <b>signInfo</b> =sha256(merNo +

				gatewayNo +orderNo +orderCurrency+orderAmount + firstName + lastName + cardNO + cardExpireYear + cardExpireMonth + cardSecurityCode+ email + signkey );
<b>Other</b>				
remark	String	1000	No	EG: order Info
returnUrl	String	500	Yes	Transaction URL
csid	String	100	Yes	Capture the value through https://shoppingingstore.com/pub/sp s.js

- Please submit more paramters in order to avoid chanrgback.。 see: [Risk parameters list](#) .

## 2.3 Operation Responses

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

Name	Type	Description
merNo	String	This value is provided by Trustspay and is used to authenticate a merchant.
gatewayNo	String	This value is provided by Trustspay and is used to authenticate a merchant.
tradeNo	String	Unique identifier allocated by Trustspay.
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
signInfo	String	Digital signature on the payment of the results of key fields. <b>signInfo</b> =sha256( merNo + gatewayNo + tradeNo + orderNo + orderCurrency + orderAmount + orderStatus + orderInfo + signkey);
remark	String	Remark The self-defined message for merchant. It will be returned exactly as the original one.



## 3 Retrieve

# Transaction Result

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

➤ Gateway :

<https://saferconnectdirect.com/services/customerCheckWS?WSDL>

```
<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" />
```

### 3.1 Submit

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 <b>signInfo</b> =sha256(merNo + gatewayNo + signkey);

## 3.2 Result

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

## 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 Risk parameters

Name	Type	Length	Required	Description
ET_USERNAME	String	100	NO	The login name of cardholder
ET_REGISTERDATE	String	100	NO	Registration date of user
ET_PASSWORD	String	100	NO	Registration Password
ET_ISCOPY	String	100	NO	Copy and paste password or not
ET_FALE	String	100	NO	SEX
ET_FINGERPRINT	String	100	NO	Host Unique Value
ET_GOODSNAME	String	100	NO	The name of the commodities or service you bought
ET_GOODSPRICE	String	100	NO	The unit price of commodities or service
ET_GOODSNUM	String	100	NO	The quantities of commodities or service
ET_PRICETYPE	String	100	NO	Price range of the commodities
ET_DELIVERYWAY	String	100	NO	Shipping Methods
ET_DELIVERYPRICE	String	100	NO	Delivery Fee
ET_RECEIVING_ADD	String	100	NO	Receipt Address
ET_COUPONS	String	100	NO	Using coupon?
ET_GIFT	String	100	NO	Asking for gift?
ET_STAYTIME	String	100	NO	The time of cardholder stay on Website(minute)
ET_CHAT	String	100	NO	Chat records are less than ten or not?
ET_FIND	String	100	NO	Cardholder enter the domain name to find out the Website
ET_OPINION	String	100	NO	Any feedback or suggestion for the commodities or service
ET_GAMENAME	String	100	NO	The Name of the game for the last recharge
ET_GAMEPRICE	String	100	NO	The price range for the last game
ET_GAMETIMES	String	100	NO	The number of drawing Lottery for the last game
ET_GAMEDATE	String	100	NO	The time of drawing Lottery for the last game

## 6 APPENDIX

### 6.1 List of ISO 4217 Currencies

Name	Code
Chinese Yen	CNY
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

## 6.2 Common Integration Errors

Code	Description
I0001	Merchant Number cannot be empty!
I0002	Gateway Number cannot empty!
I0003	Gateway of Merchant Number cannot be empty
I0004	Gateway of Merchant Number is incorrect
I0005	Merchant Number is not activated
I0006	Merchant Number is disabled
I0007	Merchant Number is canceled
I0008	The state of merchant Number is anomalous
I0009	Gateway Number is not activated
I0010	Gateway Number is disabled
I0011	Gateway Number is canceled
I0012	The state of gateway Number is anomalous
I0013	Encryption value is incorrect
I0014	Informal gateway Number accesses to formal interface
I0015	Untested gateway Number accesses to test interface
I0016	The gateway Number does not blind the interface
I0017	Merchant order Number is empty
I0018	Order Number cannot exceed 50 characters
I0019	Order value cannot be empty
I0020	Order value is incorrect
I0021	The decimal place of order value should be between 0-2 digit
I0022	Order currency is empty
I0023	Order currency is incorrect
I0024	Return URL cannot be empty
I0025	The length of returning URL cannot exceed 1000 characters
I0026	Card No cannot be empty
I0027	Please input 13 or 16 digit
I0028	Please input number
I0029	Card Number should begin with 4 or 5
I0030	Card Number is incorrect
I0031	Month cannot be empty
I0032	Please input double digit only;
I0033	Please input numbers only
I0034	The month should be between 1-12
I0035	Year cannot be empty
I0036	Please input 4-digit only
I0037	Please input numbers only
I0038	Year and month cannot be smaller than current date and greater than 10 year
I0039	Verification code cannot be empty

I0040	Please input 3-digit Verification code
I0041	Please input numbers only
I0042	Issuing bank cannot be empty
I0043	Please input between 2-50 characters only
I0044	First name cannot be empty
I0045	Please input between 2-50 characters only
I0046	Last name cannot empty
I0047	Please input between 2-50 characters only
I0048	E-mail address cannot be empty
I0049	Please input between 2-100 characters only
I0050	E-mail address format is incorrect
I0051	The phone number of card holder cannot be empty
I0052	Please input between 2-50 characters only
I0053	The country of cardholder cannot be empty
I0054	Please input between 2-50 characters only
I0055	The address of cardholder cannot be empty
I0056	Please input between 2-100 characters only
I0057	The zip code of cardholder cannot be empty
I0058	Please input between 2-50 characters only
I0059	Property{0},can not be empty
I0060	Property{0},length is more than {1}
I0061	Merchant order NUMBER has unsuccessful transation
I0062	Host index exists
I0063	The state/province of cardholder cannot be empty
I0064	Please input between 2-50 characters only
I0065	The city of cardholder cannot be empty
I0066	Please input no more than 100 characters
I0067	Please input no more than 500 characters
R0000	High risk
R0001	Do not set up the limitation of amount
C0001	Do not pass the number of times that payment are made limitation
C0002	Merchant gateway Number unbinds the channel
C0003	Merchant gateway Number do not set up deduction rate
C0004	Channel deduction rate of merchant gateway Number is incorrect
C0005	Channel deduction rate of merchant gateway Number is incorrect
C0006	The exchange rate of currency does not set up
C0007	Obtaining currency failed
C0008	Merchant does not bind payment domain name
C0009	Merchant gateway Number do not bind channel {0}
S0001	Merchant gateway Number do not set up deduction rate
S0002	Fail to save to anomalous transation list
S0003	Fail to save to the information list of cardholder
S0004	Fail to save to the informal transation list

S0005	Fail to save to the additional transation list
S0006	Channel information the system obtained is anomalous
S0007	Fail to save transation information
S0008	Fail to update testing list
S0009	Fail to delete anomalous record
S0010	Fail to save transation record
S0011	Fail to obtain domain name the merchant bound
S0012	Fail to save the information list of cardholder
S0013	Fail to obtain the information of bank channel
S0014	System Exception
E0001	Channel does not bind e-mail domain name
E0002	The operation has timed out
E0003	The operation has timed out
E0004	Sending failed
E0005	Invoking failed
E0006	The channel code that the bank returned does not exist