

WonderlandPay

Refund Processing API

27/08/2015

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1 Preface

1.1 Abstract

This paper provides a starting point for technology professionals or developers who are looking for technical information about integrating the refund platform into their applications.

1.2 Definitions

Name	Description
merNo	This value is used to authenticate a merchant
gatewayNo	This value is used to authenticate a merchant, Sub-MID
signKey	A unique secret key which will be signed to each GatewayNo.
signInfo	After an important parameter combination, then sha256 encryption to prevent data being intercepted and tampered with, thus ensuring data accuracy.

1.3 Statement

- Ensuring official and successful order processed before developing this API as only successful live orders can be refunded.
- There's no testing function for the refund API.
- Please submit parameters in accordance with the field names in following table, parameter names are case-sensitive.

1.4 Version

Title:	Wonderlandpay Refund Processing API
Version:	1.0
Creation Date:	2015-08-27
Authors:	Edward
Reviewers:	Edward

2 Refund

2.1 Refund Instructions

You can apply for refund through the interface, 50 maximum refund applications for each time. Both parameters be submitted to do the refund and the returning of the refund processing result are all should be in json format. Making sure all the refund applications are successful orders under the same gatewayNo.

Refund submitting URL: <http://mer.wonderlandpay.com/RefundInterface>

2.2 Submit Refund

2.2.1 Parameters list for submitting refund (json format)

Name	Type	Length	Required	Description
Refund Info				
merNo	Long	5	Yes	MID
gatewayNo	Long	8	Yes	Gateway No.
refundOrders	List	1000		【Refund Order Collections】 Details of refund orders, 50 maximum each time, Details pls refer to clause: 2.2.2 Parameters list for details of refund orders
signInfo	String	64	Yes	【 Digital signature information 】 signInfo =sha256(merNo+ gatewayNo+ tradeNo+ signkey) For example: (merNo+gatewayNo+tradeNo(1)+...+tradeNo(n) + signkey);

2.2.2 Parameters list for details of refund orders

Name	Type	Length	Required	Description
refundOrders Info				
tradeNo	String	50	Yes	Unique identifier allocated by Wonderlandpay.
orderNo	String	50	Yes	【 orderNo 】 Customer's order number
tradeAmount	String	10	Yes	【 Customer's order amount 】 Number format only
refundAmount	String	10	Yes	【Refund Amount】 Number format only, and should be no more than tradeAmount
currency	String	3	Yes	【 Customer's order currency 】
refundReason	String	1000	Yes	【reason of the refund】

2.2.3 Refund submitting example:

```
{ "merNo": "10000",
  "gatewayNo": "10000001",
  "signInfo": "213123435sdf",
  "refundOrders": [
    { "tradeNo": "N2014081408182309029996",
      "orderNo": "01111111",
      "currency": "CNY",
      "tradeAmount": "10",
      "refundAmount": "1",
      "refundReason": "test"},
    { "tradeNo": "N2014090310210578151401",
      "orderNo": "02222222",
      "currency": "CNY",
      "tradeAmount": "10",
      "refundAmount": "1",
      "refundReason": "test"}
    .....
  ] }
```

2.3 Refund Operation Response:

2.3.1 Parameters list of refund operation response (json format)

Name	Type	Description
merNo	Long	【 MID 】
gatewayNo	Long	Gateway No.
refundOrders	List	【refund inforamtion】 For details pls refer to: 2.3.2 response details of refund operations
signInfo	String	【 Digital signature information 】
errorStatus	String	【Refund checking status】 0:Failure 1: Successful
errorInfo	String	【Refund Checking Reason】

2.3.2 Response details of refund operation

Name	Type	Description
tradeNo	String	【tradeNo】 Unique identifier allocated by Wonderlandpay.
orderNo	String	【orderNo】 Customer's order number
tradeAmount	String	【 Customer's order amount 】 Number format only
refundAmount	String	【Refund Amount】 Number format only, and should be no more than tradeAmount
currency	String	【 Customer's order currency】
refundReason	String	【reason of the refund】
refundStatus	String	【Refund checking status on an order】 0: Failure 1: Successful
refundInfo	String	【Failure reason for a refund order】

2.3.3 Parameters of Refund Response Example:

```
{ "errorInfo": "Refund Successfully",
  "errorStatus": "1",
```

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```
"gatewayNo":10000001,
"merNo":10000,
"signInfo":"213123435sdf",
"refundOrders":[{
  "currency":"CNY",
  "orderNo":"01233123",
  "refundAmount":1.125,
  "refundInfo":" Invalid format of the refund amount",
  "refundStatus":"0",
  "refundReason":"test",
  "tradeAmount":10,
  "tradeNo":"N2014081408182309029996"},
 {"currency":"CNY",
  "orderNo":"01233213",
  "refundAmount":1,
  "refundInfo":" Only successful order can be refunded",
  "refundStatus":"0",
  "refundReason":"test",
  "tradeAmount":10,
  "tradeNo":"N2014090310210578151401"}
.....
]}
```