



SPARROW

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SPARROW Gateway

Fubon/China Union Pay Integration

Version 3.2.0 (Build 7373)

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Revision History

Date	Revision	Comments	Author
2015-04-09	1.0	Initial document created	Ivan Voropaev, Blinova Alexandra

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Overview

Fubon and China Union Pay merchant accounts will communicate through their secured sites with their associated banks to process 3DS cards.

Architecture

The architecture will remain the same way the current redirect exists today. Interaction with the service should be performed through the POST Https Request which in turn will request processing through Fubon/China Union Pay.

Process Workflow

1.) Payment process request is initiated by calling .../payments/checkout.aspx using the transaction variables in the table below.

mkey (Fubon/CUP mkey)

transtype (sale)

amount (sale amount)

orderid (Not required but highly suggested if there is a need to tie transactions between systems. This value will be returned to the merchant)

Transaction Variables

Sale

Sparrow Variable Name	Required	Format	Description
transtype	Required	sale	sale = Transaction Sale
mkey	Required		Secured merchant account key
cardnum	Optional		Credit card number
cardexp	Optional	MMYY	Credit card expiration (ie. 0720 = 7/2020)
currency	Optional	CCC (ISO 4217 alphabetic code)	Code of the payment currency. If the currency is not specified, the default currency is assumed
amount	Required	d.dd	Total amount to be charged (i.e. 10.00)
paytype	Optional	creditcard	Set Payment Type to Credit Card
skunumber_#	Optional	skunumber_1	SKU number of the product being purchased
description_#	Optional	description_1	Description of the product being purchased
amount_#	Optional	amount_1	Price of the single unit of a

			product being purchased
quantity_#	Optional	quantity_1	Number of units of a product being purchased
orderdesc	Optional		Order description
orderid	Required*		Order Id
cardipaddress	Recommended	ddd.ddd.ddd.ddd	IP address of the customer
tax	Optional	d.dd	Total tax amount
shipamount	Optional	d.dd	Total shipping amount
ponumber	Optional		Original Purchase Order
firstname	Recommended *		Billing first name.
lastname	Recommended *		Billing last name.
company	Recommended *		Billing company
address1	Recommended*		Billing address. alpha-numeric characters and can include #,-,; ;
address2	Optional *		Billing address – line 2. For alpha-numeric characters and can include #,-,; ;
city	Recommended *		Billing city.
state	Recommended*	CC	Billing state (2 character abbrev.)
zip	Recommended *		Billing postal code. Must be 5 digits or 10 digits if the country is US.
country	Recommended *	CC (ISO-3166)	Billing country (i.e. US)
phone	Recommended *		Billing phone number.
fax	Optional *		Billing fax number
email	Recommended *		Billing email address
shipfirstname	Optional *		Shipping first name.
shiplastname	Optional *		Shipping last name.
shipcompany	Optional *		Shipping company
shipaddress1	Optional *		Shipping address. alpha-numeric characters and can include #,-,; ;
shipaddress2	Optional *		Shipping address – line 2. 200 alpha-numeric characters and can include #,-,; ;
shipcity	Optional *		Shipping city.
shipstate	Optional *	CC	Shipping state (2 character abbrev.)
shipzip	Optional *		Shipping zip code. Must be 5 digits or 10 digits if the country is US.
shipcountry	Optional *	CC (ISO-3166)	Shipping country (i.e. US)

shipphone	Optional *		Shipping phone number.
shipemail	Optional *		Shipping email address (single or comma separated emails)
saveclient	Optional	true / false	If true new data vault client will be created with the same payment/contact info
opt_amount_type_#	Optional		Type of additional amount (e.g. tip)
opt_amount_value_#	Optional		Value of additional amount (e.g. 1.00)
opt_amount_percentage_#	Optional		Percentage of additional amount (e.g. 10)

The call will return an HTTP page, this page has to be displayed in end-user’s browser. This page contains JS code to redirect the end-user to Fubon/CUP’s payment window where he/she can provides payment information.

- 2.) The customer completes the payment process in the vendors website.
(Screens and flow on the bank website may vary)
- 3.) Customer is returned back to the merchant website’s successful and failed URL’s submitted to Sparrow by the merchant during account setup. The successful and failed URLs can be the same URL. The URLs will contain the following parameters in the query string.

Result

Sparrow Variable Name	Format	Description
response	d	Result code 1=Success, 2=Failed, 3=Error
textresponse		Textual response
transid	d	Original Payment Gateway transaction id
amount	d.dd	Total amount to be processed (i.e. 10.00)
orderid		Order Id value passed in from the merchant request

- 4.) Performing Refunds are performed through the service API like any other transaction refund. The 3DS process is not utilized during this time.

Refunds

Refund

Sparrow Variable Name	Required	Format	Description
transtype	Required	refund	refund = Refund Transaction
mkey	Required		Secured merchant account key
transid	Required		Original Payment Gateway transaction id
amount	Optional	d.dd	Total amount to be refunded (i.e. 10.00)
opt_amount_type_#	Optional		Type of additional amount (e.g. tip, surcharge)
opt_amount_value_#	Optional		Value of additional amount (e.g. 1.00)
sendtransreceipttobillemail	Optional	true/false	If true receipt will be sent to email from Billing Information if email is specified
sendtransreceipttoshippemail	Optional	true/false	If true receipt will be sent to emails from Shipping Information if emails are specified
sendtransreceipttoemails	Optional	^([\w+-.%]+@[\w+.\.]+\.[A-Za-z]{2,4},?)+\$ (single or comma separated emails)	Additional list of emails for receipts

Result

Sparrow Variable Name	Format	Description
response	d	Result code 1=Success, 2=Failed, 3=Error
textresponse		Textual response
transid	d	Original Payment Gateway transaction id

Appendix A – Return Values

ReturnCode

The following table describes possible values of ReturnCode field in all web method responses.

Return Code	Description
1	Success
2	Failed
3	Error Processing