FlexPay Purchase API v3

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Related documents:	FlexPay Subscription v3 API

Document History

No.	Description	Changed by:	Date:
1.0	Document created	Verotel IT Services	14/4/2015

Table of Contents

Introduction	2
Setup	2
FlexPay Purchase interactions	4
A new purchase order starts with a "startorder" request	4
Once the initial transaction is successfully processed the enduser is redirected to the "success URL"	4
Successful initial sale postback ("OK data") is sent in the background	5
Sale status request	5
Technical details	6
Constructing purchase "startorder" request	6
Data posted to success URL upon the FlexPay Subscription transaction (OK data)	7
"OK data" postback call	7
FlexPay status page request	3
Calculating signature10	D



Introduction

FlexPay API allows dynamically set parameters of Verotel Order Pages. This is especially useful when integrating with eCommerce or other systems which use dynamic pricing.

FlexPay version 3 offers two types of orders:

- purchase
- subscription

The main difference between purchase and subscription is that **subscription** has some duration - a time period - for which it is active while **purchase** is just a simple once-off sale.

This document provides the description of v3 FlexPay Purchase API.

Setup

• Create a FlexPay website in *Control Center > Setup Websites*. From the *Website detail* page you will now have access to several configuration options.

ADD A NEW WEBSITE

How do you want integrate Verotel into your website? Please, select one of the following options:		
Membership - Ideal for websites with paid members' area.		
We take care not only of charging your customers but we will also manage their access to your me	embers' area using Verotel Remote User Management.	
FlexPay - Ideal for cam sites, websites with pre-paid credit or websites selling tangible products		
FlexPay is really easy and simple to implement. It is perfect for one-time payments. You simply se successfuly charge the user, your system is notified via Postback Url so you can respond to it (add	, , , , , , , , , , , , , , , , , , , ,	

• Configure the "Postback script" and the "Success page" URLs in *FlexPay options* page.

FLEXPAY OPTIONS #92830
Payment methods Credit card Available worldwide
Bitcoin Available worldwide
Postback script URL
http://flexpaypostbacks.website.com/postback.php
Success URL
http://flexpaypostbacks.website.com/success.php
Save

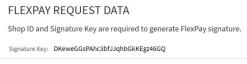
• Select which payment methods are enabled for your purchases. Currently Credit card and Bitcoin payments are supported. At least one payment method has to be enabled.

FLEXPAY OPTIONS #64233

Payment methods		
 Credit card 		
Available worldwide		
✓ Bitcoin		
Available worldwide		



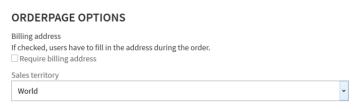
 Get the FlexPay "Signature Key" - this can be found on the same page. This key is used for calculating signatures to ensure integrity of data in requests and postbacks (SEE CALCULATING SIGNATURE).



• Customize the order page to match your website design

ORDERPAGE DESIGN SETUP
ORDERPAGE STYLE
Background color
without #, e.g. FFFFF
Please enter a hexadecimal RGB value which is 6 characters long.
Foreground color
without #, e.g. 000000
Please enter a hexadecimal RGB value which is 6 characters long.
ORDERPAGE LOGO
There is currently no logo for this website.
No changes
O Upload new logo
Continue

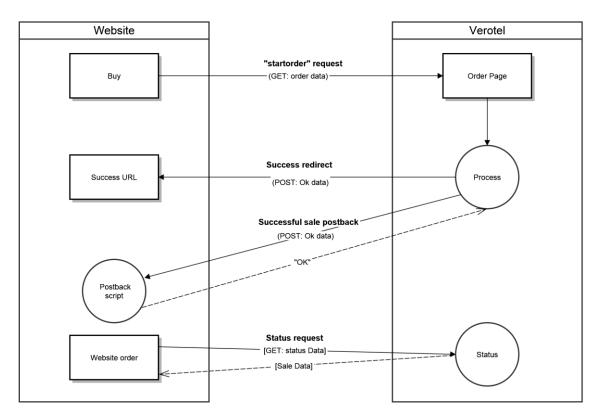
• Additionally you can require the buyers to enter their billing address by enabling this option in the *Orderpage options* section. You can also restrict sales to one of the predefined territories.



• NEXT: Integrate the Verotel OrderPage to your website.



FlexPay Purchase interactions



FlexPay purchase is a once-off operation without any active time period. It is an ideal dynamic pricing solution for:

- camsites pay
- per view sites
- pay per download sites
- shopping cart systems (also for tangible products)
- token / credit purchase systems

FlexPay purchase supports payments by Credit Card and Bitcoin.

A new purchase order starts with a "startorder" request

The "**startorder**" purchase request is used to redirect buyer to the Verotel Order Page in order to process one-off purchase with a given amount, currency and other parameters .

SEE "CONSTRUCTING PURCHASE "STARTORDER" REQUEST"

Once the initial transaction is successfully processed the enduser is redirected to the "success URL"

Verotel system also sends a set of data ("OK data") describing the sale along as HTTP parameters.

SEE "DATA POSTED TO SUCCESS URL UPON THE FLEXPAY SUBSCRIPTION TRANSACTION (OK DATA)"



Successful initial sale postback ("OK data") is sent in the background

The "**initial**" OK data postback is sent to the nominated "Postback URL" immediately after the sale has been processed.

"OK data" is sent only for successfully approved transactions. The data in the postback provide essential information about the sale. If more information is needed, for example billing address or email address of the buyer, the merchant should query the <u>status page</u>.

Important: The Verotel system expects "**OK**" response. If no such response is received, an automatic refund is initiated. (Or in case of BTC payment a notification is sent to merchant, support and enduser).

SEE ""OK DATA" POSTBACK CALL"

Sale status request

Although it is an optional step, we recommend that you cross check the received data with the Verotel Status service. You send the Verotel transaction ID or the sale Reference ID (if you have provided one in the "**startorder"** request) to the Verotel status script in order to verify the status of the transaction. Usually, this extra check is performed before the buyer is informed that the transaction was successfully processed. The Verotel Status service can be used anytime after the transaction took place. (SEE "FLEXPAY STATUS PAGE REQUEST")



Technical details

Constructing purchase "startorder" request

FlexPay purchase call is used to redirect buyer to the Verotel Order Page in order to process the purchase sale.

The "**startorder**" request for FlexPay purchase consists of number of parameters passed to "*https://secure.verotel.com/startorder?*" and secured by a signature.

Parameter	Туре	Optional / Mandatory	Description
version	number	mandatory	version of the FlexPay call, " 3 " for this version
shopID	number	mandatory	numerical ID of the shop or website in the Verotel system
type	string	mandatory	"purchase"
priceAmount	number	mandatory	amount to be processed in nnn.nn format
priceCurrency	string	mandatory	3 char ISO code, must be one of the Sale currencies (USD, EUR, GBP, AUD, CAD, CHF, DKK, NOK, SEK)
description	string	mandatory	description of the product. Text is displayed on the order page
referenceID	string	optional	Merchant's reference identifier. It must be unique if provided
custom1	string	optional	pass-through variable - max 255 printable characters
custom2	string	optional	pass-through variable - max 255 printable characters
custom3	string	optional	pass-through variable - max 255 printable characters
email	string	optional	email of the buyer. If not set, it will be collected on the Order Page NOTE: email is excluded from signature calculations
paymentMethod	string	optional	payment method, " CC " or " BTC " (if not set then buyers can choose from available payment methods)
signature	string	mandatory	security token to verify the integrity of the postback data (<u>SEE CALCULATING SIGNATURE</u>)

Example "startorder" request:

https://secure.verotel.com/startorder?custom1=my+custom+code&description=Spring+Special&pric eAmount=9.99&priceCurrency=USD&shopID=64233&type=purchase&version=3&signature=b690ae8 daca52243c85d3ce4365f137944e58d1d



Since the Payment method was not specified this opens a page which lets the buyer to select from the available payment methods.

🥓 Verotel		
Your order Description: Spring Special Price: 9.99 USD		
Select payment method		
Credit Card		>
Bitcoin Obitcoin		}
Frequently asked questions	Verotel privacy statement	General terms & conditions

Data posted to success URL upon the FlexPay Subscription transaction (OK data)

After a successful transaction, the buyer is redirected to a nominated "Success URL" and a set of data describing the sale is sent along as HTTP parameters.

Parameter	Туре	Description
shopID	number	numerical ID of the shop or website in the Verotel system
type	string	"purchase"
referenceID	string	Merchant's reference identifier if provided.
saleID	number	identifier of the sale in the Verotel system
priceAmount	number	amount to be processed in nnn.nn format
priceCurrency	string	3 char ISO code of the Sale currency
custom1	string	pass-through variable - max 255 printable characters
custom2	string	pass-through variable - max 255 printable characters
custom3	string	pass-through variable - max 255 printable characters
paymentMethod	string	Used payment method, "CC" or "BTC"
signature	string	security token to verify the integrity of the postback data (SEE
		CALCULATING SIGNATURE)

"OK data" postback call

The successful sale postback is sent to the nominated "**Postback URL**" immediately after the sale has been processed.

The postback is sent only for successfully approved transactions. The data in the postback provide essential information about the sale. If more information is needed, for example billing address or email address of the buyer, the merchant should query the status page.

Important: The Verotel system expects "**OK**" response. If no such response is received, an automatic refund is initiated. (Or in case of BTC payment a notification is sent to merchant, support and enduser).

Parameter	Туре	Description
shopID	number	numerical ID of the shop or website in the Verotel system
type	string	"purchase"
referenceID	string	merchant reference identifier. It must be unique if provided
saleID	number	identifier of the sale in the Verotel system



Parameter	Туре	Description
priceAmount	number	amount to be processed in nnn.nn format
priceCurrency	string	3 char ISO code of the Sale currency
custom1	string	pass-through variable - max 255 printable characters
custom2	string	pass-through variable - max 255 printable characters
custom3	string	pass-through variable - max 255 printable characters
paymentMethod	string	payment method, "CC" or "BTC"
signature	string	security token to verify the integrity of the postback data (SEE
		CALCULATING SIGNATURE

FlexPay status page request

A status of a sale made with a FlexPay API can be reviewed by querying the status page. Status page provides complete information about the sale, the buyer, and its status.

Status request URL: "https:// secure.verotel.com/status/order?" followed by parameters in the table bellow:

GET parameters in response	Description
version	Version of the Verotel Purchase OrderPage protocol. Currently "1" , "2" or "3"
shopID	numerical ID of the website or shop in Verotel system
referenceID (optional)	Merchant's reference identifier if provided
saleID (optional)	Verotel saleID identifier (referenceID or saleID must be posted)
signature	SHA-1 hash generated on data listed above and Merchant's private key stringsha1_hex(signatureKey + ":referenceID=" + referenceID + ":saleID=" + saleID + ":shopID=" + shopID + ":version=" + version)

Example:

https://secure.verotel.com/status/order?saleID=7263519&shopID=64233&version=3&signature=cde e1607c7746ed63d6d8ec54875ed43b07895f7

Flexpay Purchase Status response:

The date returned to the status request is in plain-text and contains lines with parameterName, colon, parameterValue:

Output parameter name	Description
response	FOUND - purchase record found and returned
	NOTFOUND - purchase not found
	ERROR - error (see 'error' key)
error	message (for response=ERROR)
saleID	identifier of the transaction in Verotel System
shopID	ID of the website or shop in Verotel system
paymentMethod	an identifier of payment method that was used for the transaction. Can be one of following: " Credit Card " or " Bitcoin "



Output parameter	Description
name	
priceAmount	amount to be processed. in nnn.nn formatt
priceCurrency	3 char ISO code of the Sale currency
description	Product description text
referenceID	Merchant reference identifier
name	name of the buyer
email	email address of the buyer
country	selected or detected country ISO code (ISO 3166-1-alpha-2 code)
btc_transaction_status	Only for Bitcoin sales: The status of Bitcoin transaction as set by the
	postback from Bitcoin processor:
	"paid" - the transaction was successfully sent to the processor
	"complete" - the transaction was confirmed and processed completely
	"invalid" - the transaction could not be processed, it was unsuccessful
createdOn	Timestamp of purchase creation
saleResult	purchase processing result (APPROVED)
billingAddr_fullName	billing address: full name field value
billingAddr_company	billing address: company field value
billingAddr_addressLine1	billing address: 1st line field value
billingAddr_addressLine2	billing address: 2nd line field value
billingAddr_city	billing address: city name
billingAddr_zip	billing address: zip code / postal code
billingAddr_state	billing address: US state code (ISO 3166-2)
billingAddr_country	billing address: country ISO code (ISO 3166-1-alpha-2 code)

Example response:

response: FOUND

shopID: 60678
paymentMethod: Credit Card
priceAmount: 51.20
priceCurrency: EUR

description: some description of product referenceID: AX62362I3 saleID: 13029033 saleResult: APPROVED name: John Black email: black@example.com country: CZ

billingAddr_fullName: John Black billingAddr_company: billingAddr_addressLine1: Longstreet 3782/13 billingAddr_addressLine2: billingAddr_city: London billingAddr_zip: 73811 billingAddr_state: billingAddr_country: GB



Calculating signature

The signature used in FlexPay requests and postbacks is calculated as SHA-1 hash (hexadecimal output) from the request parameters.

The first parameter has to be your signatureKey, followed by the parameters ordered alphabetically by their names.

Optional arguments that are used (have value) must be contained in the signature calculation. Optional arguments that are not used must not be contained in the signature calculation.

The email parameter in "startorder" request is not included in the signature calculations.

It is mandatory to convert arguments values into UTF-8 before computing the signature.

e.g.

signature = sha1_hex(signatureKey + ":description=" + description + ":period=" + period + ":priceAmount=" + priceAmount + ":priceCurrency=" + priceCurrency + ":referenceID=" + referenceID + ":shopID=" + shopID + ":subscriptionType=" + subscriptionType + ":type=" + type + ":version=" + version)

Example calculation:

Parameter	Value
(signatureKey)	BddJxtUBkDgFB9kj7Zwguxde4gAqha
description	Super video download
priceAmount	9.99
priceCurrency	USD
custom1	ххууzz
shopID	64233
type	purchase
version	3

Signature calculation using the values above:

signature = sha1_hex(BddJxtUBkDgFB9kj7Zwguxde4gAqha:custom1=xxyyzz:description=Super video download:priceAmount=9.99:priceCurrency=USD:shopID=64233:type=purchase:version=3) => a043071d3db1d3bbacee04e1eaf07da0d3ab1d17

The FlexPay subscription request then is:

https://secure.verotel.com/startorder?custom1=xxyyzz&description=Super+video+download&price Amount=9.99&priceCurrency=USD&shopID=64233&type=purchase&version=3&signature=a043071 d3db1d3bbacee04e1eaf07da0d3ab1d17

