FlexPay Subscription upgrade

Author:	Verotel IT Services
Related documents:	FlexPay Subscription API v3.4

Document History

No.	Description	Changed by:	Date:
1.0	Document created	Verotel IT Services	07/10/2016
1.1	Added "upgradeOption" parameter	Verotel IT Services	16/11/2016

Table of Contents

Introduction

What is FlexPay Upgrade

As of version 3.4 FlexPay supports "**subscriptionupgrade**" type.

FlexPay subscription upgrade allows switching from currently active subscription to a new one with new pricing and rebill period.

Functionality

How it works

It works as follows:

- The **startorder** request with "**type=upgradesubscription"** launches the ordinary OrderPage
- Once the buyer enters the payment details and proceeds, a new subscription sale gets processed
- If successful an "**upgrade**" postback is sent, the current one is terminated in Verotel system (the expiry postback is not send in this case) and the buyer continues with the new subscription. Notification emails are sent.
- If the upgrade transaction is declined the current subscription stays unchanged

Upgrade Options

The optional "**upgradeOption**" parameter specifies how the remaining time from the previous sale is handled:

- "**extend**" - Any remaining time from previous sale is added to the initial period of the new subscription. This is also how the remaining time is handled if the "upgradeOption" parameter is not specified.
- "**lost**" - Any remaining time from previous sale is ignored/lost.

Note:

- It is possible to switch between recurring and onetime subscriptions, between payment methods and change the periods and amounts.

Functionality

Constructing the Upgrade request

The "**upgrade**" request is used to redirect buyer to the Verotel Order Page in order to process superseding subscription with a given amount, duration and currency.

The upgrade request is like the **startorder** request but the type needs to be "**upgradesubscription**" and there is mandatory *precedingSaleID* parameter.

Please note that **referenceID** parameter is not accepted in the upgrade request. If **referenceID** was

supplied initially in the startorder of the preceding subscription, it is copied over to the new upgraded subscription.

The URLs for different account brands:

Brand	startorder URL
Verotel	*https://secure.verotel.com/startorder?*
CardBilling	*https://secure.billing.creditcard/startorder?*
FreenomPay	*https://secure.freenompay.com/startorder?*

The "**subscriptionType**" parameter specifies which of the two subscription types is to be created:

- **"one-time"** subscriptions - simply expire after the time specified in "**period**" parameter.
- **"recurring"** subscriptions - will attempt to rebill the buyer in order to stay active.

Parameter	Type	Optional / Mandatory	Description
backURL	*string*	optional	URL for redirect after successful transaction. NOTE: Max 255 characters Supported from version 3.2
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
declineURL	*string*	optional	URL for redirect after declined transaction. NOTE: Max 255 characters Supported from version 3.3
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
name	*string*	optional	name of the subscription. Text is displayed on the order page
paymentMethod	*string*	optional	payment method, "CC","DDEU" or "BTC" (if not set then buyers can choose from available payment methods) Note: • DDEU is available only in DE, AT, CH, BE, IT, NL, ES and FR and only for "one-time" • BTC is only available for "one-time"
period	*string*	mandatory	duration in ISO8601 format, for example: P30D, minimum is 7 days for "recurring" and 2 days for "on-time"
precedingSaleID	*number*	mandatory	Identificator of sale the buyer is upgrading from
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) Note: only EUR is can be used for DDEU payment method

shopID	*number*	mandatory	numerical ID of the shop or website in the Verotel system
signature	*string*	mandatory	security token to verify the integrity of the posted data
subscriptionType	*string*	mandatory	"one-time" or "recurring" Note: DDEU and BTC only support "one-time"
type	*string*	mandatory	"**upgradesubscription**"
upgradeOption	*conts*	optional	"**lost**" or "**extend**" – this option defines how to deal with the remaining period from the previous sale, if not provided the remaining period is added to new sale ("same as "extend")
version	*number*	mandatory	version of the FlexPay call, "3.4" for this version

Example "startorder" request:

https://secure.verotel.com/startorder?name=Upgrade+to+1+Month+recurring+Subscription&period=P1M&priceAmount=29.99&priceCurrency=USD&shopID=64233&type=upgradesubscription&subscriptionType=recurring&upgradeOption=extend&version=3.4&signature=a1eaced551d406f0227e32759e743c6b5269f7e3

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

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

NOTE: The data is not sent to URL defined in **backURL**, the buyer is only redirected there. The **backURL** is a dynamic parameter so it can by itself contain enough data to identify the sale.

Parameter	Type	Description
shopID	*number*	website id
type	*string*	"subscription"
subscriptionType	*string*	"one-time" or "recurring"
event	*string*	"upgrade"
referenceID	*string*	Merchant's reference identifier if provided.
saleID	*number*	identifier of the sale in the Verotel system
priceAmount	*number*	amount to be processed (max 2 decimal places, stripped zeroes)
priceCurrency	*string*	3 char ISO code of the Sale currency
period	*number*	subscription duration in ISO8601 format
expiresOn or **nextChargeOn**	*date*	date of next rebill or expiry date [yyyy-mm-dd] e.g "2015-04-24"
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
signature	*string*	security token to verify the integrity of the postback data

'Upgrade' Postback call

Upgrade postback call is sent to the merchant's postback URL when the subscription is switched from one plan to another. The postback is sent instead of the Successful sale postbacks when the new subscription the buyer is switching to is successfully created and the previous subscription is terminated in Verotel system (No Expiry postback is sent). See "FlexPay API Upgrade" document for more details.

Parameter	Type	Description
shopID	number	numerical ID of the shop or website in the Verotel system
type	string	"subscription"
subscriptionType	string	"one-time" or "recurring"
event	string	"upgrade"
referenceID	string	merchant reference identifier if provided in the first sale.
saleID	number	identifier of the sale in the Verotel system
precededBySaleID	number	Identifier of the previous sale the enduser is switching from
priceAmount	number	amount to be processed (max 2 decimal places, stripped zeroes)
priceCurrency	string	3 char ISO code of the Sale currency
period	number	duration in ISO8601 format, for example P30D
expiresOn or nextChargeOn	date	date when the cancelled or one-time subscription expires, or date of the next planned rebill [yyyy-mm-dd] e.g "2015-04-24"
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 used for the payment, "CC", "DDEU" or "BTC"
signature	string	security token to verify the integrity of the postback data