Vantiv eCommerce Python SDK

Release 9.12.2

Vantiv eCommerce

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CHAPTER 1

EXAMPLES

Using dict

```
#Example for SDK
from __future__ import print_function, unicode_literals

from vantivsdk import *

# Initial Configuration object. If you have saved configuration in '.vantiv_python_sdk.conf' at system environment
# variable: VANTIV_SDK_CONFIG or user home directory, the saved configuration will be automatically load.
conf = utils.Configuration()

# Configuration need following attributes for online request:
# attributes = default value
# user = ''
# password = ''
# merchantId = ''
# reportGroup = 'Default Report Group'
# url = 'https://www.testlitle.com/sandbox/communicator/online'
# proxy = ''
# print_xml = False

# Transaction presented by dict
txn_dict ={
    'authorization':{
        'orderId': '1',
        'amount': 10010,
        'orderSource': 'ecommerce',
        'id': 'ThisIsRequiredby11',
        'billToAddress': {
            'name': 'John & Mary Smith',
            'addressLine1': '1 Main St.',
```

```
            'city': 'Burlington',
            'state': 'MA',
            'zip': '01803-3747',
            'country': 'USA'
        },
        'card': {
            'number': '4100000000000000',
            'expDate': '1215',
            'cardValidationNum' : '349',
            'type': 'VI'
        },
        'enhancedData':{
            'detailTax': [
                {'taxAmount':100},
                {'taxAmount':200},
            ],
        }
    }
}

# Send request to server and get response as dict
response = online.request(txn_dict, conf)

print('Message: %s' % response['authorizationResponse']['message'])
print('LitleTransaction ID: %s' % response['authorizationResponse']['litleTxnId'])

# Configuration need following attributes for batch request:
# attributes = default value
# sftp_username = ''
# sftp_password = ''
# sftp_url = ''
# batch_requests_path = '/tmp/vantiv_sdk_batch_request'
# batch_response_path = '/tmp/vantiv_sdk_batch_response'
# fast_url = ''
# fast_ssl = True
# fast_port = ''
# id = ''

# Initial batch transactions container class
transactions = batch.Transactions()

# Add transaction to batch transactions container
transactions.add(txn_dict)

# Sent batch to server via socket and get response as dict
response = batch.stream(transactions, conf)

print('Message: %s' % response['batchResponse']['authorizationResponse']['message'])
print('LitleTransaction ID: %s' % response['batchResponse']['authorizationResponse'][
↪'litleTxnId'])
```

Using object

```
#Example for SDK
from __future__ import print_function, unicode_literals
```

```
3
4  from vantivsdk import *
5
6  # Initial Configuration object. If you have saved configuration in '.vantiv_python_
   ↪sdk.conf' at system environment
7  # variable: VANTIV_SDK_CONFIG or user home directory, the saved configuration will␣
   ↪be automatically load.
8  conf = utils.Configuration()
9
10 # Configuration need following attributes for online request:
11 # attributes = default value
12 # user = ''
13 # password = ''
14 # merchantId = ''
15 # reportGroup = 'Default Report Group'
16 # url = 'https://www.testlitle.com/sandbox/communicator/online'
17 # proxy = ''
18 # print_xml = False
19
20 # Initial Transaction.
21 transaction = fields.authorization()
22 transaction.orderId = '1'
23 transaction.amount = 10010
24 transaction.orderSource = 'ecommerce'
25 transaction.id = 'ThisIsRequiredby11'
26
27 # Create contact object
28 contact = fields.contact()
29 contact.name = 'John & Mary Smith'
30 contact.addressLine1 = '1 Main St.'
31 contact.city = 'Burlington'
32 contact.state = 'MA'
33 contact.zip = '01803-3747'
34 contact.country = 'USA'
35 # The type of billToAddress is contact
36 transaction.billToAddress = contact
37
38 # Create cardType object
39 card = fields.cardType()
40 card.number = '4100000000000000'
41 card.expDate = '1215'
42 card.cardValidationNum = '349'
43 card.type = 'VI'
44 # The type of card is cardType
45 transaction.card = card
46
47 # detail tax
48 detailTaxList = list()
49
50 detailTax = fields.detailTax()
51 detailTax.taxAmount = 100
52 detailTaxList.append(detailTax)
53
54 detailTax2 = fields.detailTax()
55 detailTax2.taxAmount = 200
56 detailTaxList.append(detailTax2)
57
58 enhancedData = fields.enhancedData()
```

```
enhancedData.detailTax = detailTaxList

# Send request to server and get response as dict
response = online.request(transaction, conf)

print('Message: %s' % response['authorizationResponse']['message'])
print('LitleTransaction ID: %s' % response['authorizationResponse']['litleTxnId'])

# Configuration need following attributes for batch request:
# attributes = default value
# sftp_username = ''
# sftp_password = ''
# sftp_url = ''
# batch_requests_path = '/tmp/vantiv_sdk_batch_request'
# batch_response_path = '/tmp/vantiv_sdk_batch_response'
# fast_url = ''
# fast_ssl = True
# fast_port = ''
# id = ''

# Initial batch transactions container class
transactions = batch.Transactions()

# Add transaction to batch transactions container
transactions.add(transaction)

# Sent batch to server via socket and get response as dict
response = batch.stream(transactions, conf)

print('Message: %s' % response['batchResponse']['authorizationResponse']['message'])
print('LitleTransaction ID: %s' % response['batchResponse']['authorizationResponse']['
↪'litleTxnId'])
```

CHAPTER 2

API

batch.stream

vantivsdk.batch.**stream**(*transactions*, *conf*, *return_format='dict'*, *timeout_send=60*, *timeout_rev=2*)

stream batch request to IBC (inbound batch communicator) via socket and get return object

Parameters

- **transactions** – an instance of batch.Transactions.
- **conf** – An instance of utils.Configuration.
- **return_format** – Return format. The default is 'dict'. Could be one of 'dict', 'object' or 'xml'.
- **timeout_send** – Positive int. Timeout in second for socket connection when sending.
- **timeout_rev** – Positive int. Timeout in second for socket connection when receiving.

Returns response XML in desired format.

batch.download

vantivsdk.batch.**download**(*filename*, *conf*, *delete_remote=False*, *timeout=60*)

Download Processed Session File from server via sFTP

Get xml file from server and save to local file system

Parameters

- **filename** – filename of file in outbound folder at remote server with '.asc' as extension.

- **conf** – An instance of utils.Configuration.
- **delete_remote** – If delete the remote file after download. The default is False
- **timeout** – Timeout in second for ssh connection for sftp.

Returns path for file that saved in local file system.

Raises Exception depends on when get it.

batch.submit

vantivsdk.batch.**submit**(*transactions*, *conf*, *filename=''*, *timeout=60*)

Submitting a Session File for Processing to server via sFTP

1.Generate litleRequest xml.

2.Save xml at local file system.

3.Send xml file to server.

Parameters

- **transactions** – an instance of batch.Transactions.
- **conf** – An instance of utils.Configuration.
- **filename** – String. File name for generated xml file. If the file exist, a timestamp string will be added.
- **timeout** – Positive int. Timeout in second for ssh connection for sftp.

Returns filename of file in inbound folder at remote server with '.asc' as extension.

Raises Exception depends on when get it.

batch.retrieve

vantivsdk.batch.**retrieve**(*filename*, *conf*, *return_format='dict'*, *save_to_local=False*, *delete_remote=False*, *timeout=60*)

Retrieving Processed Session File from server via sFTP

1.Get xml file string from server and return object

2.If save_to_local, save to local file system

Parameters

- **filename** – filename of file in outbound folder at remote server with '.asc' as extension.
- **conf** – An instance of utils.Configuration.
- **return_format** – Return format. The default is 'dict'. Could be one of 'dict', 'object' or 'xml'.
- **save_to_local** – whether save file to local. default is false.
- **delete_remote** – If delete the remote file after download. The default is False
- **timeout** – Timeout in second for ssh connection for sftp.

Returns response XML in desired format.

Raises Exception depends on when get it.

batch.Transactions

class vantivsdk.batch.**Transactions**
Container of transactions for batch request

Then transactions could be RFRRequest and any batch request supported transactions and recurring-Transaction. RFRRequest cannot exist in the same instance with any other transactions.

A instance cannot contain more than 1,000,000 transactions.

add(*transaction*)
Add transaction to the container class.
Parameters **transaction** – an instance of Transactions or RFRRequest which could process by Batch.
Returns None
Raises Exceptions.

is_rfr_request
A property, whether current instanc include a RFRRequest
Returns Boolean

recurringTransactions
A property, return a new list of recurringTransactions.
Returns list of recurringTransactions

transactions
A property, return a new list of transactions.
Returns list of transactions

online.request

vantivsdk.online.**request**(*transaction*, *conf*, *return_format='dict'*, *timeout=30*)
Send request to server.

Parameters

- **transaction** – An instance of transaction class
- **conf** – An instance of utils.Configuration
- **return_format** – Return format. The default is 'dict'. Could be one of 'dict', 'object' or 'xml'.
- **timeout** – timeout for the request in seconds. timeout is not a time limit on the entire response.
- **the time that server has not issued a response.**(*It's*) –

Returns response XML in desired format.

Raises VantivExceptions.

utils.Configuration

class vantivsdk.utils.**Configuration**(*conf_dict={}*)

Setup Configuration variables.

user
Str – authentication.user

password
Str – authentication.password

merchantId
Str – The unique string to identify the merchant within the system.

reportGroup
Str – To separate your transactions into different categories,

url
Str – Url for server.

proxy
Str – Https proxy server address. Must start with "https://"

sftp_username
Str – Username for sftp

sftp_password
Str – Password for sftp

sftp_url
Str – Address for sftp

batch_requests_path
Str – Location for saving generated batch request xml

batch_response_path
Str – Location for saving batch response xml

fast_url
Str – Fast address, using for batch stream

fast_port
Str – Fast port, using for batch stream

print_xml
Str – Whether print request and response xml

save()
Save Class Attributes to .vantiv_python_sdk.conf
Returns full path for configuration file.
Raises IOError – An error occurred

CHAPTER 3

Transactions

accountUpdate

class vantivsdk.fields.**accountUpdate**

Variables

- **cardOrToken** – instance of *vantivsdk.fields.card*, *vantivsdk.fields.token*,
- **customerId** – String or Number
- **id** – String or Number
- **orderId** – String or Number
- ***reportGroup*** – String or Number

activate

class vantivsdk.fields.**activate**

Variables

- **amount** – String or Number
- ***card*** – instance of *vantivsdk.fields.cardType*
- **customerId** – String or Number
- **id** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

- **virtualGiftCard** – instance of *vantivsdk.fields.virtualGiftCardType*

activateReversal

class vantivsdk.fields.**activateReversal**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- ***reportGroup*** – String or Number

authReversal

class vantivsdk.fields.**authReversal**

Variables

- **actionReason** – String or Number
- **amount** – String or Number
- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- **payPalNotes** – String or Number
- ***reportGroup*** – String or Number
- **surchargeAmount** – String or Number

authorization

class vantivsdk.fields.**authorization**

Variables

- **advancedFraudChecks** – instance of *vantivsdk.fields.advancedFraudChecksType*
- **allowPartialAuth** – String or Number
- ***amexAggregatorData*** – instance of *vantivsdk.fields.amexAggregatorData*
- **amount** – String or Number
- **applepay** – instance of *vantivsdk.fields.applepayType*
- ***billMeLaterRequest*** – instance of *vantivsdk.fields.billMeLaterRequest*

- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- ***card*** – instance of *vantivsdk.fields.cardType*
- **cardholderAuthentication** – instance of *vantivsdk.fields.fraudCheckType*
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- ***customerInfo*** – instance of *vantivsdk.fields.customerInfo*
- **debtRepayment** – String or Number
- ***enhancedData*** – instance of *vantivsdk.fields.enhancedData*
- **filtering** – instance of *vantivsdk.fields.filteringType*
- **fraudFilterOverride** – String or Number
- ***healthcareIIAS*** – instance of *vantivsdk.fields.healthcareIIAS*
- **id** – String or Number
- **litleTxnId** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **orderSource** – String or Number
- **originalNetworkTransactionId** – String or Number
- **originalTransactionAmount** – String or Number
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*
- **paypal** – instance of *vantivsdk.fields.payPal*
- ***pos*** – instance of *vantivsdk.fields.pos*
- ***processingInstructions*** – instance of *vantivsdk.fields.processingInstructions*
- **processingType** – String or Number
- **recurringRequest** – instance of *vantivsdk.fields.recurringRequestType*
- **recyclingRequest** – instance of *vantivsdk.fields.recyclingRequestType*
- ***reportGroup*** – String or Number
- **secondaryAmount** – String or Number
- ***shipToAddress*** – instance of *vantivsdk.fields.shipToAddress*
- **surchargeAmount** – String or Number
- **taxType** – String or Number
- ***token*** – instance of *vantivsdk.fields.cardTokenType*
- ***wallet*** – instance of *vantivsdk.fields.wallet*

balanceInquiry

class vantivsdk.fields.**balanceInquiry**

Variables

- ***card*** – instance of *vantivsdk.fields.cardType*
- **customerId** – String or Number
- **id** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

cancelSubscription

class vantivsdk.fields.**cancelSubscription**

Variables **subscriptionId** – String or Number

capture

class vantivsdk.fields.**capture**

Variables

- **amount** – String or Number
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- ***enhancedData*** – instance of *vantivsdk.fields.enhancedData*
- **id** – String or Number
- **litleTxnId** – String or Number
- **partial** – String or Number
- **payPalNotes** – String or Number
- **payPalOrderComplete** – String or Number
- **pin** – String or Number
- ***processingInstructions*** – instance of *vantivsdk.fields.processingInstructions*
- ***reportGroup*** – String or Number
- **surchargeAmount** – String or Number

captureGivenAuth

class vantivsdk.fields.**captureGivenAuth**

Variables

- ***amexAggregatorData*** – instance of *vantivsdk.fields.amexAggregatorData*
- **amount** – String or Number
- ***authInformation*** – instance of *vantivsdk.fields.authInformation*
- ***billMeLaterRequest*** – instance of *vantivsdk.fields.billMeLaterRequest*
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- ***card*** – instance of *vantivsdk.fields.cardType*
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- **debtRepayment** – String or Number
- ***enhancedData*** – instance of *vantivsdk.fields.enhancedData*
- **id** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **orderSource** – String or Number
- **originalNetworkTransactionId** – String or Number
- **originalTransactionAmount** – String or Number
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*
- ***pos*** – instance of *vantivsdk.fields.pos*
- ***processingInstructions*** – instance of *vantivsdk.fields.processingInstructions*
- **processingType** – String or Number
- ***reportGroup*** – String or Number
- **secondaryAmount** – String or Number
- ***shipToAddress*** – instance of *vantivsdk.fields.shipToAddress*
- **surchargeAmount** – String or Number
- **taxType** – String or Number
- ***token*** – instance of *vantivsdk.fields.cardTokenType*

createPlan

class vantivsdk.fields.**createPlan**

Variables

- **active** – String or Number
- **amount** – String or Number
- **description** – String or Number
- **intervalType** – String or Number
- **name** – String or Number
- **numberOfPayments** – String or Number
- **planCode** – String or Number
- **trialIntervalType** – String or Number
- **trialNumberOfIntervals** – String or Number

credit

class vantivsdk.fields.**credit**

Variables

- **actionReason** – String or Number
- ***amexAggregatorData*** – instance of *vantivsdk.fields.amexAggregatorData*
- **amount** – String or Number
- ***billMeLaterRequest*** – instance of *vantivsdk.fields.billMeLaterRequest*
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- ***card*** – instance of *vantivsdk.fields.cardType*
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- ***enhancedData*** – instance of *vantivsdk.fields.enhancedData*
- **id** – String or Number
- **litleTxnId** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **orderSource** – String or Number
- **payPalNotes** – String or Number
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*

- **paypal** – instance of *vantivsdk.fields.payPal*
- **pin** – String or Number
- ***pos*** – instance of *vantivsdk.fields.pos*
- ***processingInstructions*** – instance of *vantivsdk.fields.processingInstructions*
- ***reportGroup*** – String or Number
- **secondaryAmount** – String or Number
- **surchargeAmount** – String or Number
- **taxType** – String or Number
- ***token*** – instance of *vantivsdk.fields.cardTokenType*

deactivate

class vantivsdk.fields.**deactivate**

Variables

- ***card*** – instance of *vantivsdk.fields.cardType*
- **customerId** – String or Number
- **id** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

deactivateReversal

class vantivsdk.fields.**deactivateReversal**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- ***reportGroup*** – String or Number

depositReversal

class vantivsdk.fields.**depositReversal**

Variables

- **customerId** – String or Number
- **id** – String or Number

- **litleTxnId** – String or Number
- ***reportGroup*** – String or Number

echeckCredit

class vantivsdk.fields.**echeckCredit**

Variables

- **amount** – String or Number
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- **echeckOrEcheckToken** – instance of *vantivsdk.fields.echeck*, *vantivsdk.fields.echeckToken*,
- **id** – String or Number
- **litleTxnId** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number
- **secondaryAmount** – String or Number

echeckPreNoteCredit

class vantivsdk.fields.**echeckPreNoteCredit**

Variables

- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- **customerId** – String or Number
- ***echeck*** – instance of *vantivsdk.fields.echeck*
- **id** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

echeckPreNoteSale

class vantivsdk.fields.**echeckPreNoteSale**

Variables

- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- **customerId** – String or Number
- ***echeck*** – instance of *vantivsdk.fields.echeck*
- **id** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

echeckRedeposit

class vantivsdk.fields.**echeckRedeposit**

Variables

- **customerId** – String or Number
- **echeckOrEcheckToken** – instance of *vantivsdk.fields.echeck*, *vantivsdk.fields.echeckToken*,
- **id** – String or Number
- **litleTxnId** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- ***reportGroup*** – String or Number

echeckSale

class vantivsdk.fields.**echeckSale**

Variables

- **amount** – String or Number
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- **echeckOrEcheckToken** – instance of *vantivsdk.fields.echeck*, *vantivsdk.fields.echeckToken*,
- **id** – String or Number
- **litleTxnId** – String or Number

- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number
- **secondaryAmount** – String or Number
- ***shipToAddress*** – instance of *vantivsdk.fields.shipToAddress*
- **verify** – String or Number

echeckVerification

class vantivsdk.fields.**echeckVerification**

Variables

- **amount** – String or Number
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- **customerId** – String or Number
- **echeckOrEcheckToken** – instance of *vantivsdk.fields.echeck*, *vantivsdk.fields.echeckToken*,
- **id** – String or Number
- **litleTxnId** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

echeckVoid

class vantivsdk.fields.**echeckVoid**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- ***reportGroup*** – String or Number

forceCapture

class vantivsdk.fields.**forceCapture**

Variables

- ***amexAggregatorData*** – instance of *vantivsdk.fields.amexAggregatorData*
- **amount** – String or Number
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- ***card*** – instance of *vantivsdk.fields.cardType*
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- **debtRepayment** – String or Number
- ***enhancedData*** – instance of *vantivsdk.fields.enhancedData*
- **id** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **orderSource** – String or Number
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*
- ***pos*** – instance of *vantivsdk.fields.pos*
- ***processingInstructions*** – instance of *vantivsdk.fields.processingInstructions*
- **processingType** – String or Number
- ***reportGroup*** – String or Number
- **secondaryAmount** – String or Number
- **surchargeAmount** – String or Number
- **taxType** – String or Number
- ***token*** – instance of *vantivsdk.fields.cardTokenType*

fraudCheck

class vantivsdk.fields.**fraudCheck**

Variables

- **advancedFraudChecks** – instance of *vantivsdk.fields.advancedFraudChecksType*
- **amount** – String or Number
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- **customerId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number
- ***shipToAddress*** – instance of *vantivsdk.fields.shipToAddress*

load

class vantivsdk.fields.**load**

Variables

- **amount** – String or Number
- ***card*** – instance of *vantivsdk.fields.cardType*
- **customerId** – String or Number
- **id** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

loadReversal

class vantivsdk.fields.**loadReversal**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- ***reportGroup*** – String or Number

payFacCredit

class vantivsdk.fields.**payFacCredit**

Variables

- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number

payFacDebit

class vantivsdk.fields.**payFacDebit**

Variables

- **amount** – String or Number

- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number

physicalCheckCredit

class vantivsdk.fields.**physicalCheckCredit**

Variables

- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number

physicalCheckDebit

class vantivsdk.fields.**physicalCheckDebit**

Variables

- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number

queryTransaction

class vantivsdk.fields.**queryTransaction**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **origAccountNumber** – String or Number
- **origActionType** – String or Number
- **origId** – String or Number

- **origLitleTxnId** – String or Number
- **origOrderId** – String or Number
- ***reportGroup*** – String or Number

refundReversal

class vantivsdk.fields.**refundReversal**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- ***reportGroup*** – String or Number

registerTokenRequest

class vantivsdk.fields.**registerTokenRequest**

Variables

- **accountNumber** – String or Number
- **applepay** – instance of *vantivsdk.fields.applepayType*
- **cardValidationNum** – String or Number
- **customerId** – String or Number
- **echeckForToken** – instance of *vantivsdk.fields.echeckForTokenType*
- **id** – String or Number
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **paypageRegistrationId** – String or Number
- ***reportGroup*** – String or Number

reserveCredit

class vantivsdk.fields.**reserveCredit**

Variables

- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number

- **id** – String or Number
- ***reportGroup*** – String or Number

reserveDebit

class vantivsdk.fields.**reserveDebit**

Variables

- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number

sale

class vantivsdk.fields.**sale**

Variables

- **advancedFraudChecks** – instance of *vantivsdk.fields.advancedFraudChecksType*
- **allowPartialAuth** – String or Number
- ***amexAggregatorData*** – instance of *vantivsdk.fields.amexAggregatorData*
- **amount** – String or Number
- **applepay** – instance of *vantivsdk.fields.applepayType*
- ***billMeLaterRequest*** – instance of *vantivsdk.fields.billMeLaterRequest*
- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- ***card*** – instance of *vantivsdk.fields.cardType*
- **cardholderAuthentication** – instance of *vantivsdk.fields.fraudCheckType*
- ***customBilling*** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- ***customerInfo*** – instance of *vantivsdk.fields.customerInfo*
- **debtRepayment** – String or Number
- ***enhancedData*** – instance of *vantivsdk.fields.enhancedData*
- **filtering** – instance of *vantivsdk.fields.filteringType*
- ***fraudCheck*** – instance of *vantivsdk.fields.fraudCheckType*

- **fraudFilterOverride** – String or Number
- ***healthcareIIAS*** – instance of *vantivsdk.fields.healthcareIIAS*
- **id** – String or Number
- **ideal** – instance of *vantivsdk.fields.idealType*
- **litleInternalRecurringRequest** – instance of *vantivsdk.fields.litleInternalRecurringRequestType*
- **litleTxnId** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **orderSource** – String or Number
- **originalNetworkTransactionId** – String or Number
- **originalTransactionAmount** – String or Number
- **payPalNotes** – String or Number
- **payPalOrderComplete** – String or Number
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*
- **paypal** – instance of *vantivsdk.fields.payPal*
- ***pos*** – instance of *vantivsdk.fields.pos*
- ***processingInstructions*** – instance of *vantivsdk.fields.processingInstructions*
- **processingType** – String or Number
- **recurringRequest** – instance of *vantivsdk.fields.recurringRequestType*
- **recyclingRequest** – instance of *vantivsdk.fields.recyclingRequestType*
- ***reportGroup*** – String or Number
- **secondaryAmount** – String or Number
- **sepaDirectDebit** – instance of *vantivsdk.fields.sepaDirectDebitType*
- ***shipToAddress*** – instance of *vantivsdk.fields.shipToAddress*
- **surchargeAmount** – String or Number
- **taxType** – String or Number
- ***token*** – instance of *vantivsdk.fields.cardTokenType*
- ***wallet*** – instance of *vantivsdk.fields.wallet*

submerchantCredit

class vantivsdk.fields.**submerchantCredit**

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckType*
- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number
- **submerchantName** – String or Number

submerchantDebit

class vantivsdk.fields.**submerchantDebit**

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckType*
- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number
- **submerchantName** – String or Number

unload

class vantivsdk.fields.**unload**

Variables

- **amount** – String or Number
- ***card*** – instance of *vantivsdk.fields.cardType*
- **customerId** – String or Number
- **id** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- ***reportGroup*** – String or Number

unloadReversal

class vantivsdk.fields.**unloadReversal**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- ***reportGroup*** – String or Number

updateCardValidationNumOnToken

class vantivsdk.fields.**updateCardValidationNumOnToken**

Variables

- **cardValidationNum** – String or Number
- **customerId** – String or Number
- **id** – String or Number
- **litleToken** – String or Number
- **orderId** – String or Number
- ***reportGroup*** – String or Number

updatePlan

class vantivsdk.fields.**updatePlan**

Variables

- **active** – String or Number
- **planCode** – String or Number

updateSubscription

class vantivsdk.fields.**updateSubscription**

Variables

- ***billToAddress*** – instance of *vantivsdk.fields.billToAddress*
- **billingDate** – String or Number
- ***card*** – instance of *vantivsdk.fields.cardType*
- **createAddOn** – instance of *vantivsdk.fields.createAddOnType*
- **createDiscount** – instance of *vantivsdk.fields.createDiscountType*

- **deleteAddOn** – instance of *vantivsdk.fields.deleteAddOnType*
- **deleteDiscount** – instance of *vantivsdk.fields.deleteDiscountType*
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*
- **planCode** – String or Number
- **subscriptionId** – String or Number
- ***token*** – instance of *vantivsdk.fields.cardTokenType*
- **updateAddOn** – instance of *vantivsdk.fields.updateAddOnType*
- **updateDiscount** – instance of *vantivsdk.fields.updateDiscountType*

vendorCredit

class vantivsdk.fields.**vendorCredit**

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckType*
- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number
- **vendorName** – String or Number

vendorDebit

class vantivsdk.fields.**vendorDebit**

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckType*
- **amount** – String or Number
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- ***reportGroup*** – String or Number
- **vendorName** – String or Number

void

class vantivsdk.fields.**void**

Variables

- **customerId** – String or Number
- **id** – String or Number
- **litleTxnId** – String or Number
- ***processingInstructions*** – instance of *vantivsdk.fields.processingInstructions*
- ***reportGroup*** – String or Number

CHAPTER 4

Complex Types

advancedFraudChecksType

class vantivsdk.fields.**advancedFraudChecksType**

Variables

- **customAttribute1** – String or Number
- **customAttribute2** – String or Number
- **customAttribute3** – String or Number
- **customAttribute4** – String or Number
- **customAttribute5** – String or Number
- **threatMetrixSessionId** – String or Number

advancedFraudResultsType

class vantivsdk.fields.**advancedFraudResultsType**

Variables

- **deviceReputationScore** – String or Number
- **deviceReviewStatus** – String or Number
- **triggeredRule** – String or Number

amexAggregatorData

class vantivsdk.fields.**amexAggregatorData**

Variables

- **sellerId** – String or Number
- **sellerMerchantCategoryCode** – String or Number

applepayHeaderType

class vantivsdk.fields.**applepayHeaderType**

Variables

- **applicationData** – String or Number
- **ephemeralPublicKey** – String or Number
- **publicKeyHash** – String or Number
- **transactionId** – String or Number

applepayType

class vantivsdk.fields.**applepayType**

Variables

- **data** – String or Number
- **header** – instance of *vantivsdk.fields.applepayHeaderType*
- **signature** – String or Number
- **version** – String or Number

authInformation

class vantivsdk.fields.**authInformation**

Variables

- **authAmount** – String or Number
- **authCode** – String or Number
- **authDate** – String or Number
- ***fraudResult*** – instance of *vantivsdk.fields.fraudResult*

billMeLaterRequest

class vantivsdk.fields.**billMeLaterRequest**

Variables

- **authorizationSourcePlatform** – String or Number
- **bmlMerchantId** – String or Number

- ***bmlProductType*** – instance of *vantivsdk.fields.bmlProductType*
- **customerBillingAddressChanged** – String or Number
- **customerEmailChanged** – String or Number
- **customerPasswordChanged** – String or Number
- **customerPhoneChanged** – String or Number
- **itemCategoryCode** – String or Number
- **merchantPromotionalCode** – String or Number
- **preapprovalNumber** – String or Number
- **secretQuestionAnswer** – String or Number
- **secretQuestionCode** – String or Number
- **termsAndConditions** – String or Number
- **virtualAuthenticationKeyData** – String or Number
- **virtualAuthenticationKeyPresenceIndicator** – String or Number

billToAddress

class vantivsdk.fields.**billToAddress**

Variables

- **addressLine1** – String or Number
- **addressLine2** – String or Number
- **addressLine3** – String or Number
- **city** – String or Number
- **companyName** – String or Number
- **country** – String or Number
- **email** – String or Number
- **firstName** – String or Number
- **lastName** – String or Number
- **middleInitial** – String or Number
- **name** – String or Number
- **phone** – String or Number
- **state** – String or Number
- **zip** – String or Number

bmlProductType

class vantivsdk.fields.**bmlProductType**

card

class vantivsdk.fields.**card**

Variables

- **cardValidationNum** – String or Number
- **expDate** – String or Number
- **number** – String or Number
- **pin** – String or Number
- **track** – String or Number
- **type** – String or Number

cardPaypageType

class vantivsdk.fields.**cardPaypageType**

Variables

- **cardValidationNum** – String or Number
- **expDate** – String or Number
- **paypageRegistrationId** – String or Number
- **type** – String or Number

cardTokenType

class vantivsdk.fields.**cardTokenType**

Variables

- **cardValidationNum** – String or Number
- **expDate** – String or Number
- **litleToken** – String or Number
- **type** – String or Number

cardType

class vantivsdk.fields.**cardType**

Variables

- **cardValidationNum** – String or Number
- **expDate** – String or Number
- **number** – String or Number
- **pin** – String or Number

- **track** – String or Number
- **type** – String or Number

createAddOnType

class vantivsdk.fields.**createAddOnType**

Variables

- **addOnCode** – String or Number
- **amount** – String or Number
- **endDate** – String or Number
- **name** – String or Number
- **startDate** – String or Number

createDiscountType

class vantivsdk.fields.**createDiscountType**

Variables

- **amount** – String or Number
- **discountCode** – String or Number
- **endDate** – String or Number
- **name** – String or Number
- **startDate** – String or Number

customBilling

class vantivsdk.fields.**customBilling**

Variables

- **city** – String or Number
- **descriptor** – String or Number
- **phone** – String or Number
- ***url*** – String or Number

customerInfo

class vantivsdk.fields.**customerInfo**

Variables

- **customerCheckingAccount** – String or Number

- **customerRegistrationDate** – String or Number
- **customerSavingAccount** – String or Number
- **customerType** – String or Number
- **customerWorkTelephone** – String or Number
- **dob** – String or Number
- **employerName** – String or Number
- **incomeAmount** – String or Number
- **incomeCurrency** – String or Number
- **residenceStatus** – String or Number
- **ssn** – String or Number
- **yearsAtEmployer** – String or Number
- **yearsAtResidence** – String or Number

deleteAddOnType

class vantivsdk.fields.**deleteAddOnType**

Variables **addOnCode** – String or Number

deleteDiscountType

class vantivsdk.fields.**deleteDiscountType**

Variables **discountCode** – String or Number

detailTax

class vantivsdk.fields.**detailTax**

Variables

- **cardAcceptorTaxId** – String or Number
- **taxAmount** – String or Number
- **taxIncludedInTotal** – String or Number
- **taxRate** – String or Number
- **taxTypeIdentifier** – String or Number

echeck

class vantivsdk.fields.**echeck**

Variables

- **accNum** – String or Number
- **accType** – String or Number
- **ccdPaymentInformation** – String or Number
- **checkNum** – String or Number
- **routingNum** – String or Number

echeckForTokenType

class vantivsdk.fields.**echeckForTokenType**

Variables

- **accNum** – String or Number
- **routingNum** – String or Number

echeckToken

class vantivsdk.fields.**echeckToken**

Variables

- **accType** – String or Number
- **checkNum** – String or Number
- **litleToken** – String or Number
- **routingNum** – String or Number

echeckType

class vantivsdk.fields.**echeckType**

Variables

- **accNum** – String or Number
- **accType** – String or Number
- **ccdPaymentInformation** – String or Number
- **checkNum** – String or Number
- **routingNum** – String or Number

enhancedData

class vantivsdk.fields.**enhancedData**

Variables

- **customerReference** – String or Number

- **deliveryType** – String or Number
- **destinationCountryCode** – String or Number
- **destinationPostalCode** – String or Number
- ***detailTax*** – instance of *vantivsdk.fields.detailTax*
- **discountAmount** – String or Number
- **dutyAmount** – String or Number
- **invoiceReferenceNumber** – String or Number
- ***lineItemData*** – instance of *vantivsdk.fields.lineItemData*
- **orderDate** – String or Number
- **salesTax** – String or Number
- **shipFromPostalCode** – String or Number
- **shippingAmount** – String or Number
- **taxExempt** – String or Number

filteringType

class vantivsdk.fields.**filteringType**

Variables

- **chargeback** – String or Number
- **international** – String or Number
- **prepaid** – String or Number

fraudCheckType

class vantivsdk.fields.**fraudCheckType**

Variables

- **authenticatedByMerchant** – String or Number
- **authenticationTransactionId** – String or Number
- **authenticationValue** – String or Number
- **customerIpAddress** – String or Number

fraudResult

class vantivsdk.fields.**fraudResult**

Variables

- **advancedAVSResult** – String or Number

- **advancedFraudResults** – instance of *vantivsdk.fields.advancedFraudResultsType*
- **authenticationResult** – String or Number
- **avsResult** – String or Number
- **cardValidationResult** – String or Number

healthcareAmounts

class vantivsdk.fields.**healthcareAmounts**

Variables

- **RxAmount** – String or Number
- **clinicOtherAmount** – String or Number
- **dentalAmount** – String or Number
- **totalHealthcareAmount** – String or Number
- **visionAmount** – String or Number

healthcareIIAS

class vantivsdk.fields.**healthcareIIAS**

Variables

- **IIASFlag** – String or Number
- ***healthcareAmounts*** – instance of *vantivsdk.fields.healthcareAmounts*

idealType

class vantivsdk.fields.**idealType**

Variables **preferredLanguage** – String or Number

lineItemData

class vantivsdk.fields.**lineItemData**

Variables

- **commodityCode** – String or Number
- ***detailTax*** – instance of *vantivsdk.fields.detailTax*
- **itemDescription** – String or Number
- **itemDiscountAmount** – String or Number
- **itemSequenceNumber** – String or Number

- **lineItemTotal** – String or Number
- **lineItemTotalWithTax** – String or Number
- **productCode** – String or Number
- **quantity** – String or Number
- **taxAmount** – String or Number
- **unitCost** – String or Number
- **unitOfMeasure** – String or Number

litleInternalRecurringRequestType

class vantivsdk.fields.**litleInternalRecurringRequestType**

Variables

- **finalPayment** – String or Number
- **recurringTxnId** – String or Number
- **subscriptionId** – String or Number

merchantDataType

class vantivsdk.fields.**merchantDataType**

Variables

- **affiliate** – String or Number
- **campaign** – String or Number
- **merchantGroupingId** – String or Number

mposType

class vantivsdk.fields.**mposType**

Variables

- **encryptedTrack** – String or Number
- **formatId** – String or Number
- **ksn** – String or Number
- **track1Status** – String or Number
- **track2Status** – String or Number

payPal

class vantivsdk.fields.**payPal**

Variables

- **payerEmail** – String or Number
- **payerId** – String or Number
- ***token*** – String or Number
- **transactionId** – String or Number

pos

class vantivsdk.fields.**pos**

Variables

- **capability** – String or Number
- **cardholderId** – String or Number
- **catLevel** – String or Number
- **entryMode** – String or Number
- **terminalId** – String or Number

processingInstructions

class vantivsdk.fields.**processingInstructions**

Variables **bypassVelocityCheck** – String or Number

recurringRequestType

class vantivsdk.fields.**recurringRequestType**

Variables **subscription** – instance of *vantivsdk.fields.recurringSubscriptionType*

recurringSubscriptionType

class vantivsdk.fields.**recurringSubscriptionType**

Variables

- **amount** – String or Number
- **createAddOn** – instance of *vantivsdk.fields.createAddOnType*
- **createDiscount** – instance of *vantivsdk.fields.createDiscountType*

- **numberOfPayments** – String or Number
- **planCode** – String or Number
- **startDate** – String or Number

recyclingRequestType

class vantivsdk.fields.**recyclingRequestType**

Variables

- **recycleBy** – String or Number
- **recycleId** – String or Number

sepaDirectDebitType

class vantivsdk.fields.**sepaDirectDebitType**

Variables

- **iban** – String or Number
- **mandateProvider** – String or Number
- **mandateReference** – String or Number
- **mandateSignatureDate** – String or Number
- **mandateUrl** – String or Number
- **preferredLanguage** – String or Number
- **sequenceType** – String or Number

shipToAddress

class vantivsdk.fields.**shipToAddress**

Variables

- **addressLine1** – String or Number
- **addressLine2** – String or Number
- **addressLine3** – String or Number
- **city** – String or Number
- **companyName** – String or Number
- **country** – String or Number
- **email** – String or Number
- **firstName** – String or Number
- **lastName** – String or Number
- **middleInitial** – String or Number

- **name** – String or Number
- **phone** – String or Number
- **state** – String or Number
- **zip** – String or Number

token

class vantivsdk.fields.**token**

Variables

- **cardValidationNum** – String or Number
- **expDate** – String or Number
- **litleToken** – String or Number
- **type** – String or Number

updateAddOnType

class vantivsdk.fields.**updateAddOnType**

Variables

- **addOnCode** – String or Number
- **amount** – String or Number
- **endDate** – String or Number
- **name** – String or Number
- **startDate** – String or Number

updateDiscountType

class vantivsdk.fields.**updateDiscountType**

Variables

- **amount** – String or Number
- **discountCode** – String or Number
- **endDate** – String or Number
- **name** – String or Number
- **startDate** – String or Number

virtualGiftCardType

class vantivsdk.fields.**virtualGiftCardType**

Variables

- **accountNumberLength** – String or Number
- **giftCardBin** – String or Number

wallet

class vantivsdk.fields.**wallet**

Variables

- **walletSourceType** – String or Number
- **walletSourceTypeId** – String or Number

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