
Vantiv eCommerce Python SDK

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Vantiv eCommerce

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Using dict

```
1  #Example for SDK
2  from __future__ import print_function, unicode_literals
3
4  from vantisdk 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 # Transaction presented by dict
21 txn_dict = {
22     'authorization': {
23         'orderId': '1',
24         'amount': 10010,
25         'orderSource': 'ecommerce',
26         'id': 'ThisIsRequiredby11',
27         'billToAddress': {
28             'name': 'John & Mary Smith',
29             'addressLine1': '1 Main St.',
```

```

30         'city': 'Burlington',
31         'state': 'MA',
32         'zip': '01803-3747',
33         'country': 'USA'
34     },
35     'card': {
36         'number': '4100000000000000',
37         'expDate': '1215',
38         'cardValidationNum': '349',
39         'type': 'VI'
40     },
41     'enhancedData': {
42         'detailTax': [
43             {'taxAmount': 100},
44             {'taxAmount': 200},
45         ],
46     }
47 }
48
49
50 # Send request to server and get response as dict
51 response = online.request(txn_dict, conf)
52
53 print('Message: %s' % response['authorizationResponse']['message'])
54 print('LittleTransaction ID: %s' % response['authorizationResponse']['littleTxnId'])
55
56 # Configuration need following attributes for batch request:
57 # attributes = default value
58 # sftp_username = ''
59 # sftp_password = ''
60 # sftp_url = ''
61 # batch_requests_path = '/tmp/vantiv_sdk_batch_request'
62 # batch_response_path = '/tmp/vantiv_sdk_batch_response'
63 # fast_url = ''
64 # fast_ssl = True
65 # fast_port = ''
66 # id = ''
67
68 # Initial batch transactions container class
69 transactions = batch.Transactions()
70
71 # Add transaction to batch transactions container
72 transactions.add(txn_dict)
73
74 # Sent batch to server via socket and get response as dict
75 response = batch.stream(transactions, conf)
76
77 print('Message: %s' % response['batchResponse']['authorizationResponse']['message'])
78 print('LittleTransaction ID: %s' % response['batchResponse']['authorizationResponse']['
↵ 'littleTxnId'])

```

Using object

```

1 #Example for SDK
2 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()

```

```
59 enhancedData.detailTax = detailTaxList
60
61 # Send request to server and get response as dict
62 response = online.request(transaction, conf)
63
64 print('Message: %s' % response['authorizationResponse']['message'])
65 print('LittleTransaction ID: %s' % response['authorizationResponse']['littleTxnId'])
66
67 # Configuration need following attributes for batch request:
68 # attributes = default value
69 # sftp_username = ''
70 # sftp_password = ''
71 # sftp_url = ''
72 # batch_requests_path = '/tmp/vantiv_sdk_batch_request'
73 # batch_response_path = '/tmp/vantiv_sdk_batch_response'
74 # fast_url = ''
75 # fast_ssl = True
76 # fast_port = ''
77 # id = ''
78
79 # Initial batch transactions container class
80 transactions = batch.Transactions()
81
82 # Add transaction to batch transactions container
83 transactions.add(transaction)
84
85 # Sent batch to server via socket and get response as dict
86 response = batch.stream(transactions, conf)
87
88 print('Message: %s' % response['batchResponse']['authorizationResponse']['message'])
89 print('LittleTransaction ID: %s' % response['batchResponse']['authorizationResponse']['  
↪ 'littleTxnId'])
```

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 littleRequest.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.

sameDayFunding

bool – Since v11.1. Used for Dynamic Payout Funding Instructions only. Set to True to mark this Batch of Funding Instructions for same day funding.

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
```

accountUpdate

`class vantisdk.fields.accountUpdate`

Variables

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

activate

`class vantisdk.fields.activate`

Variables

- **amount** – String or Number
- **card** – instance of *vantisdk.fields.giftCardCardType*
- **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

- **card** – instance of *vantivsdk.fields.giftCardCardType*
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalAmount** – String or Number
- **originalRefCode** – String or Number
- **originalSequenceNumber** – String or Number
- **originalSystemTraceId** – String or Number
- **originalTxnTime** – String or Number
- **reportGroup** – String or Number
- **virtualGiftCardBin** – 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
- **littleTxnId** – 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
- **littleTxnId** – 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.giftCardCardType*
- **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
- **littleTxnId** – 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
- **littleTxnId** – 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.giftCardCardType*
- **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

- **card** – instance of *vantivsdk.fields.giftCardCardType*
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalRefCode** – String or Number

- **originalSequenceNumber** – String or Number
- **originalSystemTraceId** – String or Number
- **originalTxnTime** – String or Number
- **reportGroup** – String or Number

depositReversal

`class vantivsdk.fields.depositReversal`

Variables

- **card** – instance of `vantivsdk.fields.giftCardCardType`
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalAmount** – String or Number
- **originalRefCode** – String or Number
- **originalSequenceNumber** – String or Number
- **originalSystemTraceId** – String or Number
- **originalTxnTime** – 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`
- **customIdentifier** – String or Number
- **customerId** – String or Number
- **echeckOrEcheckToken** – instance of `vantivsdk.fields.echeck`,
`vantivsdk.fields.echeckToken`,
- **id** – String or Number
- **littleTxnId** – 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

- **customIdentifier** – String or Number
- **customerId** – String or Number
- **echeckOrEcheckToken** – instance of *vantivsdk.fields.echeck*,
vantivsdk.fields.echeckToken,
- **id** – String or Number

- **littleTxnId** – 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*
- **customIdentifier** – String or Number
- **customerId** – String or Number
- **echeckOrEcheckToken** – instance of *vantivsdk.fields.echeck*, *vantivsdk.fields.echeckToken*,
- **id** – String or Number
- **littleTxnId** – 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
- **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
- **littleTxnId** – 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*

fundingInstructionVoid

class *vantivsdk.fields.fundingInstructionVoid*

Variables

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

giftCardAuthReversal

class *vantivsdk.fields.giftCardAuthReversal*

Variables

- **card** – instance of *vantivsdk.fields.giftCardCardType*
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalAmount** – String or Number
- **originalRefCode** – String or Number
- **originalSequenceNumber** – String or Number

- **originalSystemTraceId** – String or Number
- **originalTxnTime** – String or Number
- *reportGroup* – String or Number

giftCardCapture

class `vantivsdk.fields.giftCardCapture`

Variables

- **captureAmount** – String or Number
- *card* – instance of `vantivsdk.fields.giftCardCardType`
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalAmount** – String or Number
- **originalRefCode** – String or Number
- **originalTxnTime** – String or Number
- **partial** – String or Number
- *reportGroup* – String or Number

giftCardCredit

class `vantivsdk.fields.giftCardCredit`

Variables

- *card* – instance of `vantivsdk.fields.giftCardCardType`
- **creditAmount** – String or Number
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- *reportGroup* – String or Number

load

class `vantivsdk.fields.load`

Variables

- **amount** – String or Number

- **card** – instance of *vantivsdk.fields.giftCardCardType*
- **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

- **card** – instance of *vantivsdk.fields.giftCardCardType*
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalAmount** – String or Number
- **originalRefCode** – String or Number
- **originalSequenceNumber** – String or Number
- **originalSystemTraceId** – String or Number
- **originalTxnTime** – 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 vantisdk.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 vantisdk.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 vantisdk.fields.queryTransaction
```

Variables

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

- **origLittleTxnId** – String or Number
- **reportGroup** – String or Number

refundReversal

`class vantisdk.fields.refundReversal`

Variables

- **card** – instance of `vantisdk.fields.giftCardCardType`
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalAmount** – String or Number
- **originalRefCode** – String or Number
- **originalSequenceNumber** – String or Number
- **originalSystemTraceId** – String or Number
- **originalTxnTime** – String or Number
- **reportGroup** – String or Number

registerTokenRequest

`class vantisdk.fields.registerTokenRequest`

Variables

- **accountNumber** – String or Number
- **applepay** – instance of `vantisdk.fields.applepayType`
- **cardValidationNum** – String or Number
- **customerId** – String or Number
- **echeckForToken** – instance of `vantisdk.fields.echeckForTokenType`
- **id** – String or Number
- **mpos** – instance of `vantisdk.fields.mpostType`
- **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
- **giropay** – instance of *vantivsdk.fields.giropayType*
- **healthcareIIAS** – instance of *vantivsdk.fields.healthcareIIAS*
- **id** – String or Number
- **ideal** – instance of *vantivsdk.fields.idealType*
- **littleInternalRecurringRequest** – instance of *vantivsdk.fields.littleInternalRecurringRequestType*
- **littleTxnId** – 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*
- **sofort** – instance of *vantivsdk.fields.sofortType*
- **surchargeAmount** – String or Number
- **taxType** – String or Number
- **token** – instance of *vantivsdk.fields.cardTokenType*
- **wallet** – instance of *vantivsdk.fields.wallet*

serviceStatusRequest

```
class vantivsdk.fields.serviceStatusRequest
```

Variables

- **customerId** – String or Number
- **id** – String or Number
- **pathId** – String or Number
- **reportGroup** – String or Number
- **serviceId** – String or Number

submerchantCredit

```
class vantivsdk.fields.submerchantCredit
```

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckType*
- **amount** – String or Number
- **customIdentifier** – 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
- **customIdentifier** – 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.giftCardCardType*
- **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

- *card* – instance of *vantivsdk.fields.giftCardCardType*
- **customerId** – String or Number
- **id** – String or Number
- **littleTxnId** – String or Number
- **originalAmount** – String or Number
- **originalRefCode** – String or Number
- **originalSequenceNumber** – String or Number
- **originalSystemTraceId** – String or Number
- **originalTxnTime** – 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
- **littleToken** – 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
- **littleTxnId** – String or Number
- **processingInstructions** – instance of *vantivsdk.fields.processingInstructions*
- **reportGroup** – String or Number

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
- **checkoutId** – String or Number
- **expDate** – String or Number
- **littleToken** – 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 vantisdk.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 vantisdk.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 vantisdk.fields.customBilling
```

Variables

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

customerInfo

```
class vantisdk.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 vantisdk.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 vantisdk.fields.echeckForTokenType
```

Variables

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

echeckToken

```
class vantisdk.fields.echeckToken
```

Variables

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

echeckType

```
class vantisdk.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 vantisdk.fields.fraudResult
```

Variables

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

giftCardCardType

```
class vantisdk.fields.giftCardCardType
```

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

giropayType

```
class vantisdk.fields.giropayType
```

Variables **preferredLanguage** – String or Number

healthcareAmounts

```
class vantisdk.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 vantisdk.fields.healthcareIIAS
```

Variables

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

idealType

```
class vantisdk.fields.idealType
```

Variables **preferredLanguage** – String or Number

lineItemData

```
class vantisdk.fields.lineItemData
```

Variables

- **commodityCode** – String or Number
- **detailTax** – instance of `vantisdk.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 vantisdk.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

sofortType

`class vantivsdk.fields.sofortType`

Variables **preferredLanguage** – String or Number

token

`class vantivsdk.fields.token`

Variables

- **cardValidationNum** – String or Number
- **checkoutId** – String or Number
- **expDate** – String or Number
- **littleToken** – 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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