
Vantiv eCommerce Python SDK

Release 12.30.0

Vantiv eCommerce

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1.1 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.testvantivcnf.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.',
```

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```

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('cnpTransaction ID: %s' % response['authorizationResponse']['cnpTxnId'])
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('cnpTransaction ID: %s' % response['batchResponse']['authorizationResponse']['
↪ 'cnpTxnId'])

```


1.2 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.testvantivcn.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

```

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```
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('cnpTransaction ID: %s' % response['authorizationResponse']['cnpTxnId'])
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 # id = ''
75
76 # Initial batch transactions container class
77 transactions = batch.Transactions()
78
79 # Add transaction to batch transactions container
80 transactions.add(transaction)
81
82 # Sent batch to server via socket and get response as dict
83 response = batch.stream(transactions, conf)
84
85 print('Message: %s' % response['batchResponse']['authorizationResponse']['message'])
86 print('cnpTransaction ID: %s' % response['batchResponse']['authorizationResponse']['
  ↳ 'cnpTxnId'])
```

2.1 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.

2.2 batch.submit

`vantivsdk.batch.submit(transactions, conf, filename="", timeout=60)`

Submitting a Session File for Processing to server via sFTP

1. Generate `cnpRequest.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.

2.3 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.

2.4 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

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

Type bool

```
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 instance 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

2.5 online.request

`vantivsdk.online.request(transaction, conf, return_format='dict', timeout=30, same-DayFunding=False)`

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. It's the time that server has not issued a response.
- **sameDayFunding** (*bool*) – Start v11.3. Used for Online Dynamic Payout Funding Instructions only. Set to True for same day funding.

Returns response XML in desired format.

Raises `VantivExceptions`.

2.6 utils.Configuration

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

Setup Configuration variables.

user

authentication.user
Type Str

password

authentication.password
Type Str

merchantId

The unique string to identify the merchant within the system.
Type Str

reportGroup
To separate your transactions into different categories,
Type Str

url
Url for server.
Type Str

proxy
Https proxy server address. Must start with “https://”
Type Str

sftp_username
Username for sftp
Type Str

sftp_password
Password for sftp
Type Str

sftp_url
Address for sftp
Type Str

batch_requests_path
Location for saving generated batch request xml
Type Str

batch_response_path
Location for saving batch response xml
Type Str

print_xml
Whether print request and response xml
Type Str

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

3.1 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

3.2 activate

class `vantivsdk.fields.activate`

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

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

3.3 activateReversal

class *vantivsdk.fields.activateReversal*

Variables

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

3.4 authReversal

class *vantivsdk.fields.authReversal*

Variables

- **actionReason** – String or Number
- **additionalCOFData** – instance of *vantivsdk.fields.additionalCOFData*
- **amount** – String or Number
- **cnpTxnId** – String or Number
- **customerId** – String or Number
- **id** – String or Number
- **paypalNotes** – String or Number
- **reportGroup** – String or Number
- **surchargeAmount** – String or Number

3.5 authorization

class `vantivsdk.fields.authorization`

Variables

- **`additionalCOFData`** – instance of `vantivsdk.fields.additionalCOFData`
- **`advancedFraudChecks`** – instance of `vantivsdk.fields.advancedFraudChecksType`
- **`allowPartialAuth`** – String or Number
- **`amount`** – String or Number
- **`applepay`** – instance of `vantivsdk.fields.applepayType`
- **`authIndicator`** – String or Number
- **`billToAddress`** – instance of `vantivsdk.fields.billToAddress`
- **`businessIndicator`** – String or Number
- **`card`** – instance of `vantivsdk.fields.cardType`
- **`cardholderAuthentication`** – instance of `vantivsdk.fields.fraudCheckType`
- **`cnpTxnId`** – String or Number
- **`crypto`** – String or Number
- **`customBilling`** – instance of `vantivsdk.fields.customBilling`
- **`customerId`** – String or Number
- **`customerInfo`** – instance of `vantivsdk.fields.customerInfo`
- **`debtRepayment`** – String or Number
- **`decisionPurpose`** – String or Number
- **`enhancedData`** – instance of `vantivsdk.fields.enhancedData`
- **`filtering`** – instance of `vantivsdk.fields.filteringType`
- **`fraudCheckStatus`** – String or Number
- **`fraudFilterOverride`** – String or Number
- **`fraudSwitchIndicator`** – String or Number
- **`fsErrorCode`** – String or Number
- **`healthcareIIAS`** – instance of `vantivsdk.fields.healthcareIIAS`
- **`id`** – String or Number
- **`lodgingInfo`** – instance of `vantivsdk.fields.lodgingInfo`
- **`merchantAccountStatus`** – String or Number
- **`merchantCategoryCode`** – String or Number
- **`merchantData`** – instance of `vantivsdk.fields.merchantDataType`
- **`mpos`** – instance of `vantivsdk.fields.mpostype`

- **orderChannel** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- **originalNetworkTransactionId** – String or Number
- **originalTransactionAmount** – String or Number
- **overridePolicy** – String or Number
- **passengerTransportData** – instance of *vantivsdk.fields.passengerTransportData*
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*
- **paypal** – instance of *vantivsdk.fields.payPal*
- **pinlessDebitRequest** – instance of *vantivsdk.fields.pinlessDebitRequestType*
- **pos** – instance of *vantivsdk.fields.pos*
- **processingInstructions** – instance of *vantivsdk.fields.processingInstructions*
- **processingType** – String or Number
- **productEnrolled** – String or Number
- **recurringRequest** – instance of *vantivsdk.fields.recurringRequestType*
- **recyclingRequest** – instance of *vantivsdk.fields.recyclingRequestType*
- **reportGroup** – String or Number
- **retailerAddress** – instance of *vantivsdk.fields.retailerAddress*
- **secondaryAmount** – String or Number
- **sellerInfo** – instance of *vantivsdk.fields.sellerInfo*
- **shipToAddress** – instance of *vantivsdk.fields.shipToAddress*
- **skipRealtimeAU** – String or Number
- **surchargeAmount** – String or Number
- **taxType** – String or Number
- **token** – instance of *vantivsdk.fields.cardTokenType*
- **wallet** – instance of *vantivsdk.fields.wallet*

3.6 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

3.7 cancelSubscription

class `vantivsdk.fields.cancelSubscription`

Variables **subscriptionId** – String or Number

3.8 capture

class `vantivsdk.fields.capture`

Variables

- **amount** – String or Number
- **cnpTxnId** – String or Number
- **customBilling** – instance of `vantivsdk.fields.customBilling`
- **customerId** – String or Number
- **enhancedData** – instance of `vantivsdk.fields.enhancedData`
- **id** – String or Number
- **lodgingInfo** – instance of `vantivsdk.fields.lodgingInfo`
- **orderId** – String or Number
- **partial** – String or Number
- **passengerTransportData** – instance of `vantivsdk.fields.passengerTransportData`
- **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

3.9 captureGivenAuth

class `vantivsdk.fields.captureGivenAuth`

Variables

- **`additionalCOFData`** – instance of `vantivsdk.fields.additionalCOFData`
- **`amount`** – String or Number
- **`authInformation`** – instance of `vantivsdk.fields.authInformation`
- **`billToAddress`** – instance of `vantivsdk.fields.billToAddress`
- **`businessIndicator`** – String or Number
- **`card`** – instance of `vantivsdk.fields.cardType`
- **`crypto`** – String or Number
- **`customBilling`** – instance of `vantivsdk.fields.customBilling`
- **`customerId`** – String or Number
- **`debtRepayment`** – String or Number
- **`enhancedData`** – instance of `vantivsdk.fields.enhancedData`
- **`id`** – String or Number
- **`lodgingInfo`** – instance of `vantivsdk.fields.lodgingInfo`
- **`merchantCategoryCode`** – 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
- **`passengerTransportData`** – instance of `vantivsdk.fields.passengerTransportData`
- **`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
- **`retailerAddress`** – instance of `vantivsdk.fields.retailerAddress`
- **`secondaryAmount`** – String or Number
- **`shipToAddress`** – instance of `vantivsdk.fields.shipToAddress`

- **surchargeAmount** – String or Number
- **taxType** – String or Number
- **token** – instance of *vantivsdk.fields.cardTokenType*

3.10 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

3.11 credit

class *vantivsdk.fields.credit*

Variables

- **actionReason** – String or Number
- **additionalCOFData** – instance of *vantivsdk.fields.additionalCOFData*
- **amount** – String or Number
- **billToAddress** – instance of *vantivsdk.fields.billToAddress*
- **businessIndicator** – String or Number
- **card** – instance of *vantivsdk.fields.cardType*
- **cnpTxnId** – String or Number
- **customBilling** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- **enhancedData** – instance of *vantivsdk.fields.enhancedData*
- **id** – String or Number
- **lodgingInfo** – instance of *vantivsdk.fields.lodgingInfo*
- **merchantCategoryCode** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*

- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **orderSource** – String or Number
- **passengerTransportData** – instance of *vantivsdk.fields.passengerTransportData*
- **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*

3.12 customerCredit

```
class vantivsdk.fields.customerCredit
```

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckTypeCtx*
- **amount** – String or Number
- **customIdentifier** – String or Number
- **customerId** – String or Number
- **customerName** – String or Number
- **fundingCustomerId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- **reportGroup** – String or Number

3.13 customerDebit

```
class vantivsdk.fields.customerDebit
```

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckTypeCtx*

- **amount** – String or Number
- **customIdentifier** – String or Number
- **customerId** – String or Number
- **customerName** – String or Number
- **fundingCustomerId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- **reportGroup** – String or Number

3.14 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

3.15 deactivateReversal

```
class vantivsdk.fields.deactivateReversal
```

Variables

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

3.16 depositReversal

```
class vantivsdk.fields.depositReversal
```

Variables

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

3.17 depositTransactionReversal

```
class vantivsdk.fields.depositTransactionReversal
```

Variables

- **amount** – String or Number
- **cnpTxnId** – String or Number
- **customBilling** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- **enhancedData** – instance of *vantivsdk.fields.enhancedData*
- **id** – String or Number
- **lodgingInfo** – instance of *vantivsdk.fields.lodgingInfo*
- **passengerTransportData** – instance of *vantivsdk.fields.passengerTransportData*
- **pin** – String or Number
- **processingInstructions** – instance of *vantivsdk.fields.processingInstructions*
- **reportGroup** – String or Number
- **surchargeAmount** – String or Number

3.18 echeckCredit

```
class vantivsdk.fields.echeckCredit
```


Variables

- **amount** – String or Number
- **billToAddress** – instance of *vantivsdk.fields.billToAddress*
- **cnpTxnId** – String or Number
- **customBilling** – instance of *vantivsdk.fields.customBilling*
- **customIdentifier** – String or Number
- **customerId** – String or Number
- **echeck** – instance of *vantivsdk.fields.echeckType*
- **echeckToken** – instance of *vantivsdk.fields.echeckTokenType*
- **id** – 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

3.19 echeckPreNoteCredit

```
class vantivsdk.fields.echeckPreNoteCredit
```

Variables

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

3.20 echeckPreNoteSale

```
class vantivsdk.fields.echeckPreNoteSale
```

Variables

- **billToAddress** – instance of *vantivsdk.fields.billToAddress*
- **customerId** – String or Number
- **echeck** – instance of *vantivsdk.fields.echeckType*
- **id** – String or Number

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

3.21 echeckRedeposit

class *vantivsdk.fields.echeckRedeposit*

Variables

- **cnpTxnId** – String or Number
- **customIdentifier** – String or Number
- **customerId** – String or Number
- **echeck** – instance of *vantivsdk.fields.echeckType*
- **echeckToken** – instance of *vantivsdk.fields.echeckTokenType*
- **id** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **reportGroup** – String or Number

3.22 echeckSale

class *vantivsdk.fields.echeckSale*

Variables

- **amount** – String or Number
- **billToAddress** – instance of *vantivsdk.fields.billToAddress*
- **cnpTxnId** – String or Number
- **customBilling** – instance of *vantivsdk.fields.customBilling*
- **customIdentifier** – String or Number
- **customerId** – String or Number
- **echeck** – instance of *vantivsdk.fields.echeckType*
- **echeckToken** – instance of *vantivsdk.fields.echeckTokenType*
- **id** – 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

3.23 echeckVerification

class `vantivsdk.fields.echeckVerification`

Variables

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

3.24 echeckVoid

class `vantivsdk.fields.echeckVoid`

Variables

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

3.25 fastAccessFunding

class `vantivsdk.fields.fastAccessFunding`

Variables

- **amount** – String or Number
- **card** – instance of `vantivsdk.fields.cardType`
- **cardholderAddress** – instance of `vantivsdk.fields.address`
- **customerId** – String or Number
- **customerName** – String or Number
- **disbursementType** – String or Number
- **fundingCustomerId** – String or Number

- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- **paypage** – instance of *vantivsdk.fields.cardPaypageType*
- **reportGroup** – String or Number
- **submerchantName** – String or Number
- **token** – instance of *vantivsdk.fields.cardTokenType*

3.26 forceCapture

class `vantivsdk.fields.forceCapture`

Variables

- **amount** – String or Number
- **billToAddress** – instance of *vantivsdk.fields.billToAddress*
- **businessIndicator** – String or Number
- **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
- **lodgingInfo** – instance of *vantivsdk.fields.lodgingInfo*
- **merchantCategoryCode** – String or Number
- **merchantData** – instance of *vantivsdk.fields.merchantDataType*
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **orderSource** – String or Number
- **passengerTransportData** – instance of *vantivsdk.fields.passengerTransportData*
- **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*

3.27 fraudCheck

class *vantivsdk.fields.fraudCheck*

Variables

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

3.28 fundingInstructionVoid

class *vantivsdk.fields.fundingInstructionVoid*

Variables

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

3.29 giftCardAuthReversal

class *vantivsdk.fields.giftCardAuthReversal*

Variables

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

3.30 giftCardCapture

class `vantivsdk.fields.giftCardCapture`

Variables

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

3.31 giftCardCredit

class `vantivsdk.fields.giftCardCredit`

Variables

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

3.32 load

```
class vantisdk.fields.load
```

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

3.33 loadReversal

```
class vantisdk.fields.loadReversal
```

Variables

- **card** – instance of *vantisdk.fields.giftCardCardType*
- **cnpTxnId** – String or Number
- **customerId** – String or Number
- **id** – 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

3.34 payFacCredit

```
class vantisdk.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

3.35 payFacDebit

```
class vantisdk.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

3.36 payoutOrgCredit

```
class vantisdk.fields.payoutOrgCredit
```

Variables

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

3.37 payoutOrgDebit

```
class vantisdk.fields.payoutOrgDebit
```

Variables

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

3.38 physicalCheckCredit

```
class vantisdk.fields.physicalCheckCredit
```

Variables

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

3.39 physicalCheckDebit

```
class vantisdk.fields.physicalCheckDebit
```

Variables

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

3.40 queryTransaction

```
class vantisdk.fields.queryTransaction
```

Variables

- **customerId** – String or Number
- **id** – String or Number
- **origActionType** – String or Number
- **origCnpTxnId** – String or Number
- **origId** – String or Number
- **reportGroup** – String or Number
- **showStatusOnly** – String or Number

3.41 refundReversal

```
class vantisdk.fields.refundReversal
```

Variables

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

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

3.42 refundTransactionReversal

```
class vantivsdk.fields.refundTransactionReversal
```

Variables

- **amount** – String or Number
- **cnpTxnId** – String or Number
- **customBilling** – instance of *vantivsdk.fields.customBilling*
- **customerId** – String or Number
- **enhancedData** – instance of *vantivsdk.fields.enhancedData*
- **id** – String or Number
- **lodgingInfo** – instance of *vantivsdk.fields.lodgingInfo*
- **passengerTransportData** – instance of *vantivsdk.fields.passengerTransportData*
- **pin** – String or Number
- **processingInstructions** – instance of *vantivsdk.fields.processingInstructions*
- **reportGroup** – String or Number
- **surchargeAmount** – String or Number

3.43 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*
- **encryptedAccountNumber** – String or Number
- **encryptedCardValidationNum** – String or Number
- **encryptionKeyId** – String or Number
- **id** – String or Number
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **paypageRegistrationId** – String or Number
- **reportGroup** – String or Number

3.44 reserveCredit

```
class vantivsdk.fields.reserveCredit
```

Variables

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

3.45 reserveDebit

```
class vantivsdk.fields.reserveDebit
```

Variables

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

3.46 sale

class `vantivsdk.fields.sale`

Variables

- **`additionalCOFData`** – instance of `vantivsdk.fields.additionalCOFData`
- **`advancedFraudChecks`** – instance of `vantivsdk.fields.advancedFraudChecksType`
- **`allowPartialAuth`** – String or Number
- **`amount`** – String or Number
- **`applepay`** – instance of `vantivsdk.fields.applepayType`
- **`billToAddress`** – instance of `vantivsdk.fields.billToAddress`
- **`businessIndicator`** – String or Number
- **`card`** – instance of `vantivsdk.fields.cardType`
- **`cardholderAuthentication`** – instance of `vantivsdk.fields.fraudCheckType`
- **`cnpInternalRecurringRequest`** – instance of `vantivsdk.fields.cnpInternalRecurringRequestType`
- **`cnpTxnId`** – String or Number
- **`crypto`** – String or Number
- **`customBilling`** – instance of `vantivsdk.fields.customBilling`
- **`customerId`** – String or Number
- **`customerInfo`** – instance of `vantivsdk.fields.customerInfo`
- **`debtRepayment`** – String or Number
- **`decisionPurpose`** – String or Number
- **`enhancedData`** – instance of `vantivsdk.fields.enhancedData`
- **`filtering`** – instance of `vantivsdk.fields.filteringType`
- **`fraudCheck`** – instance of `vantivsdk.fields.fraudCheckType`
- **`fraudCheckStatus`** – String or Number
- **`fraudFilterOverride`** – String or Number
- **`fraudSwitchIndicator`** – String or Number
- **`fsErrorCode`** – 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`
- **`lodgingInfo`** – instance of `vantivsdk.fields.lodgingInfo`
- **`merchantAccountStatus`** – String or Number

- **merchantCategoryCode** – String or Number
- **merchantData** – instance of `vantivsdk.fields.merchantDataType`
- **mpos** – instance of `vantivsdk.fields.mposType`
- **orderChannel** – String or Number
- **orderId** – String or Number
- **orderSource** – String or Number
- **originalNetworkTransactionId** – String or Number
- **originalTransactionAmount** – String or Number
- **overridePolicy** – String or Number
- **passengerTransportData** – instance of `vantivsdk.fields.passengerTransportData`
- **paypalNotes** – String or Number
- **paypalOrderComplete** – String or Number
- **paypage** – instance of `vantivsdk.fields.cardPaypageType`
- **paypal** – instance of `vantivsdk.fields.payPal`
- **pinlessDebitRequest** – instance of `vantivsdk.fields.pinlessDebitRequestType`
- **pos** – instance of `vantivsdk.fields.pos`
- **processingInstructions** – instance of `vantivsdk.fields.processingInstructions`
- **processingType** – String or Number
- **productEnrolled** – String or Number
- **recurringRequest** – instance of `vantivsdk.fields.recurringRequestType`
- **recyclingRequest** – instance of `vantivsdk.fields.recyclingRequestType`
- **reportGroup** – String or Number
- **retailerAddress** – instance of `vantivsdk.fields.retailerAddress`
- **secondaryAmount** – String or Number
- **sellerInfo** – instance of `vantivsdk.fields.sellerInfo`
- **sepaDirectDebit** – instance of `vantivsdk.fields.sepaDirectDebitType`
- **shipToAddress** – instance of `vantivsdk.fields.shipToAddress`
- **skipRealtimeAU** – String or Number
- **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*

3.47 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

3.48 submerchantCredit

class *vantivsdk.fields.submerchantCredit*

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckTypeCtx*
- **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

3.49 submerchantDebit

class *vantivsdk.fields.submerchantDebit*

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckTypeCtx*
- **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

3.50 translateToLowValueTokenRequest

```
class vantisdk.fields.translateToLowValueTokenRequest
```

Variables

- **customerId** – String or Number
- **id** – String or Number
- **orderId** – String or Number
- *reportGroup* – String or Number
- *token* – String or Number

3.51 unload

```
class vantisdk.fields.unload
```

Variables

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

3.52 unloadReversal

```
class vantisdk.fields.unloadReversal
```

Variables

- *card* – instance of *vanitvdk.fields.giftCardCardType*
- **cnptxnId** – String or Number
- **customerId** – String or Number
- **id** – 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

3.53 updateCardValidationNumOnToken

```
class vantisdk.fields.updateCardValidationNumOnToken
```

Variables

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

3.54 updatePlan

```
class vantisdk.fields.updatePlan
```

Variables

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

3.55 updateSubscription

```
class vantisdk.fields.updateSubscription
```

Variables

- **billToAddress** – instance of *vantisdk.fields.billToAddress*
- **billingDate** – String or Number
- **card** – instance of *vantisdk.fields.cardType*
- **createAddOn** – instance of *vantisdk.fields.createAddOnType*
- **createDiscount** – instance of *vantisdk.fields.createDiscountType*
- **deleteAddOn** – instance of *vantisdk.fields.deleteAddOnType*
- **deleteDiscount** – instance of *vantisdk.fields.deleteDiscountType*
- **paypage** – instance of *vantisdk.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*

3.56 vendorCredit

class *vantivsdk.fields.vendorCredit*

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckTypeCtx*
- **amount** – String or Number
- **customerId** – String or Number
- **fundingCustomerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- **reportGroup** – String or Number
- **vendorAddress** – instance of *vantivsdk.fields.address*
- **vendorName** – String or Number

3.57 vendorDebit

class *vantivsdk.fields.vendorDebit*

Variables

- **accountInfo** – instance of *vantivsdk.fields.echeckTypeCtx*
- **amount** – String or Number
- **customerId** – String or Number
- **fundingCustomerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- **reportGroup** – String or Number
- **vendorAddress** – instance of *vantivsdk.fields.address*
- **vendorName** – String or Number

3.58 void

class `vantivsdk.fields.void`

Variables

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

4.1 additionalCOFData

```
class vantivsdk.fields.additionalCOFData
```

Variables

- **frequencyOfMIT** – String or Number
- **paymentType** – String or Number
- **sequenceIndicator** – String or Number
- **totalPaymentCount** – String or Number
- **uniqueId** – String or Number
- **validationReference** – String or Number

4.2 address

```
class vantivsdk.fields.address
```

Variables

- **addressLine1** – String or Number
- **addressLine2** – String or Number
- **addressLine3** – String or Number
- **city** – String or Number
- **country** – String or Number
- **state** – String or Number
- **zip** – String or Number

4.3 advancedFraudChecksType

```
class vantisdk.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
- **webSessionId** – String or Number

4.4 advancedFraudResultsType

```
class vantisdk.fields.advancedFraudResultsType
```

Variables

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

4.5 applepayHeaderType

```
class vantisdk.fields.applepayHeaderType
```

Variables

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

4.6 applepayType

```
class vantisdk.fields.applepayType
```

Variables

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

4.7 authInformation

```
class vantisdk.fields.authInformation
```

Variables

- **authAmount** – String or Number
- **authCode** – String or Number
- **authDate** – String or Number
- **fraudResult** – instance of *van tivsd k . fields . fraudResult*

4.8 billToAddress

```
class vantisdk.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
- **sellerId** – String or Number
- **state** – String or Number
- **url** – String or Number
- **zip** – String or Number

4.9 card

```
class vantisdk.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

4.10 cardPaypageType

class `vantivsdk.fields.cardPaypageType`

Variables

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

4.11 cardTokenType

class `vantivsdk.fields.cardTokenType`

Variables

- **authenticatedShopperID** – String or Number
- **cardValidationNum** – String or Number
- **checkoutId** – String or Number
- **cnpToken** – String or Number
- **expDate** – String or Number
- **tokenURL** – String or Number
- **type** – String or Number

4.12 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

4.13 cnpInternalRecurringRequestType

```
class vantisdk.fields.cnpInternalRecurringRequestType
```

Variables

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

4.14 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

4.15 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

4.16 ctxPaymentInformationType

```
class vantisdk.fields.ctxPaymentInformationType
```

Variables **ctxPaymentDetail** – String or Number

4.17 customBilling

```
class vantisdk.fields.customBilling
```

Variables

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

4.18 customerInfo

class `vantivsdk.fields.customerInfo`

Variables

- **accountCreatedDate** – String or Number
- **accountUsername** – String or Number
- **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
- **membershipEmail** – String or Number
- **membershipId** – String or Number
- **membershipName** – String or Number
- **membershipPhone** – String or Number
- **residenceStatus** – String or Number
- **ssn** – String or Number
- **userAccountEmail** – String or Number
- **userAccountNumber** – String or Number
- **userAccountPhone** – String or Number
- **yearsAtEmployer** – String or Number
- **yearsAtResidence** – String or Number

4.19 deleteAddOnType

class `vantivsdk.fields.deleteAddOnType`

Variables **addOnCode** – String or Number

4.20 deleteDiscountType

```
class vantisdk.fields.deleteDiscountType
```

Variables **discountCode** – String or Number

4.21 detailTax

```
class vantisdk.fields.detailTax
```

Variables

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

4.22 echeckForTokenType

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

Variables

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

4.23 echeckTokenType

```
class vantisdk.fields.echeckTokenType
```

Variables

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

4.24 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

4.25 echeckTypeCtx

class `vantivsdk.fields.echeckTypeCtx`

Variables

- **accNum** – String or Number
- **accType** – String or Number
- **ccdPaymentInformation** – String or Number
- **checkNum** – String or Number
- **ctxPaymentInformation** – instance of `vantivsdk.fields.ctxPaymentInformationType`
- **routingNum** – String or Number

4.26 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
- **discountCode** – String or Number
- **discountPercent** – String or Number
- **dutyAmount** – String or Number
- **fulfilmentMethodType** – 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

4.27 filteringType

```
class vantisdk.fields.filteringType
```

Variables

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

4.28 fraudCheckType

```
class vantisdk.fields.fraudCheckType
```

Variables

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

4.29 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

4.30 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

4.31 giropayType

class `vantivsdk.fields.giropayType`

Variables **preferredLanguage** – String or Number

4.32 healthcareAmounts

class `vantivsdk.fields.healthcareAmounts`

Variables

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

4.33 healthcareIIAS

class `vantivsdk.fields.healthcareIIAS`

Variables

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

4.34 idealType

class `vantivsdk.fields.idealType`

Variables **preferredLanguage** – String or Number

4.35 lineItemData

class `vantivsdk.fields.lineItemData`

Variables

- **commodityCode** – String or Number

- **detailTax** – instance of *vantivsdk.fields.detailTax*
- **itemCategory** – String or Number
- **itemDescription** – String or Number
- **itemDiscountAmount** – String or Number
- **itemSequenceNumber** – String or Number
- **itemSubCategory** – String or Number
- **lineItemTotal** – String or Number
- **lineItemTotalWithTax** – String or Number
- **productCode** – String or Number
- **productId** – String or Number
- **productName** – String or Number
- **quantity** – String or Number
- **taxAmount** – String or Number
- **unitCost** – String or Number
- **unitOfMeasure** – String or Number

4.36 lodgingCharge

```
class vantivsdk.fields.lodgingCharge
    Variables name – String or Number
```

4.37 lodgingInfo

```
class vantivsdk.fields.lodgingInfo
    Variables
        • bookingID – String or Number
        • checkInDate – String or Number
        • checkOutDate – String or Number
        • customerServicePhone – String or Number
        • duration – String or Number
        • fireSafetyIndicator – String or Number
        • hotelFolioNumber – String or Number
        • lodgingCharge – instance of vantivsdk.fields.lodgingCharge
        • numAdults – String or Number
        • numberOfRooms – String or Number
        • passengerName – String or Number
        • programCode – String or Number
```

- **`propertyAddress`** – instance of `vantivsdk.fields.propertyAddress`
- **`propertyLocalPhone`** – String or Number
- **`roomRate`** – String or Number
- **`roomTax`** – String or Number
- **`smokingPreference`** – String or Number
- **`tollFreePhoneNumber`** – String or Number
- **`travelPackageIndicator`** – String or Number

4.38 merchantDataType

```
class vantivsdk.fields.merchantDataType
```

Variables

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

4.39 mpostType

```
class vantivsdk.fields.mpostType
```

Variables

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

4.40 passengerTransportData

```
class vantivsdk.fields.passengerTransportData
```

Variables

- **`arrivalDate`** – String or Number
- **`carrierName`** – String or Number
- **`computerizedReservationSystem`** – String or Number
- **`creditReasonIndicator`** – String or Number
- **`customerCode`** – String or Number
- **`exchangeAmount`** – String or Number

- **exchangeFeeAmount** – String or Number
- **exchangeTicketNumber** – String or Number
- **issueDate** – String or Number
- **issuingCarrier** – String or Number
- **numberOfAdults** – String or Number
- **numberOfChildren** – String or Number
- **passengerName** – String or Number
- **restrictedTicketIndicator** – String or Number
- **ticketChangeIndicator** – String or Number
- **ticketIssuerAddress** – String or Number
- **ticketNumber** – String or Number
- **travelAgencyCode** – String or Number
- **travelAgencyName** – String or Number
- **tripLegData** – instance of *vantivsdk.fields.tripLegData*

4.41 payPal

```
class vantivsdk.fields.payPal
```

Variables

- **payerEmail** – String or Number
- **payerId** – String or Number
- **token** – instance of *vantivsdk.fields.cardTokenType*
- **transactionId** – String or Number

4.42 pinlessDebitRequestType

```
class vantivsdk.fields.pinlessDebitRequestType
```

Variables

- **preferredDebitNetworks** – instance of *vantivsdk.fields.preferredDebitNetworksType*
- **routingPreference** – String or Number

4.43 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

4.44 preferredDebitNetworksType

```
class vantivsdk.fields.preferredDebitNetworksType
    Variables debitNetworkName – String or Number
```

4.45 processingInstructions

```
class vantivsdk.fields.processingInstructions
    Variables bypassVelocityCheck – String or Number
```

4.46 propertyAddress

```
class vantivsdk.fields.propertyAddress
    Variables
        • city – String or Number
        • country – String or Number
        • name – String or Number
        • region – String or Number
```

4.47 recurringRequestType

```
class vantivsdk.fields.recurringRequestType
    Variables createSubscription – instance of vantivsdk.fields.recurringSubscriptionType
```

4.48 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

4.49 recyclingRequestType

class `vantivsdk.fields.recyclingRequestType`

Variables

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

4.50 retailerAddress

class `vantivsdk.fields.retailerAddress`

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
- **sellerId** – String or Number
- **state** – String or Number
- **url** – String or Number
- **zip** – String or Number

4.51 sellerAddress

class `vantivsdk.fields.sellerAddress`

Variables

- **sellerCity** – String or Number

- **sellerCountrycode** – String or Number
- **sellerPostalcode** – String or Number
- **sellerProvincecode** – String or Number
- **sellerStreetaddress** – String or Number
- **sellerUnit** – String or Number

4.52 sellerInfo

class `vantivsdk.fields.sellerInfo`

Variables

- **accountNumber** – String or Number
- **aggregateOrderCount** – String or Number
- **aggregateOrderDollars** – String or Number
- **createdDate** – String or Number
- **domain** – String or Number
- **email** – String or Number
- **lastUpdateDate** – String or Number
- **name** – String or Number
- **onboardingEmail** – String or Number
- **onboardingIpAddress** – String or Number
- **parentEntity** – String or Number
- **phone** – String or Number
- **sellerAddress** – instance of `vantivsdk.fields.sellerAddress`
- **sellerId** – String or Number
- **sellerTags** – instance of `vantivsdk.fields.sellerTagsType`
- **username** – String or Number

4.53 sellerTagsType

class `vantivsdk.fields.sellerTagsType`

Variables **tag** – String or Number

4.54 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

4.55 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
- **sellerId** – String or Number
- **state** – String or Number
- **url** – String or Number
- **zip** – String or Number

4.56 sofortType

```
class vantivsdk.fields.sofortType
```

Variables **preferredLanguage** – String or Number

4.57 token

```
class vantivsdk.fields.token
```

Variables

- **authenticatedShopperID** – String or Number
- **cardValidationNum** – String or Number
- **checkoutId** – String or Number
- **cnpToken** – String or Number
- **expDate** – String or Number
- **tokenURL** – String or Number
- **type** – String or Number

4.58 tripLegData

```
class vantivsdk.fields.tripLegData
```

Variables

- **arrivalTime** – String or Number
- **carrierCode** – String or Number
- **departureCode** – String or Number
- **departureDate** – String or Number
- **departureTime** – String or Number
- **destinationCode** – String or Number
- **fareBasisCode** – String or Number
- **originCity** – String or Number
- **remarks** – String or Number
- **serviceClass** – String or Number
- **stopOverCode** – String or Number
- **travelNumber** – String or Number
- **tripLegNumber** – String or Number

4.59 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

4.60 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

4.61 virtualGiftCardType

```
class vantivsdk.fields.virtualGiftCardType
```

Variables

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

4.62 wallet

```
class vantivsdk.fields.wallet
```

Variables

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

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