
Vantiv eCommerce Python SDK

Release 11.4.0

Vantiv eCommerce

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Contents

1	EXAMPLES	1
1.1	Using dict	1
1.2	Using object	3
2	API	5
2.1	batch.download	5
2.2	batch.submit	5
2.3	batch.retrieve	6
2.4	batch.Transactions	6
2.5	online.request	7
2.6	utils.Configuration	7
3	Transactions	9
3.1	accountUpdate	9
3.2	activate	9
3.3	activateReversal	10
3.4	authReversal	10
3.5	authorization	10
3.6	balanceInquiry	12
3.7	cancelSubscription	12
3.8	capture	12
3.9	captureGivenAuth	13
3.10	createPlan	14
3.11	credit	14
3.12	deactivate	15
3.13	deactivateReversal	15
3.14	depositReversal	16
3.15	echeckCredit	16
3.16	echeckPreNoteCredit	17
3.17	echeckPreNoteSale	17
3.18	echeckRedeposit	17
3.19	echeckSale	18
3.20	echeckVerification	18
3.21	echeckVoid	19
3.22	fastAccessFunding	19
3.23	forceCapture	19
3.24	fraudCheck	20

3.25	fundingInstructionVoid	20
3.26	giftCardAuthReversal	21
3.27	giftCardCapture	21
3.28	giftCardCredit	21
3.29	load	22
3.30	loadReversal	22
3.31	payFacCredit	22
3.32	payFacDebit	23
3.33	physicalCheckCredit	23
3.34	physicalCheckDebit	23
3.35	queryTransaction	24
3.36	refundReversal	24
3.37	registerTokenRequest	24
3.38	reserveCredit	25
3.39	reserveDebit	25
3.40	sale	25
3.41	serviceStatusRequest	27
3.42	submerchantCredit	27
3.43	submerchantDebit	28
3.44	unload	28
3.45	unloadReversal	28
3.46	updateCardValidationNumOnToken	29
3.47	updatePlan	29
3.48	updateSubscription	29
3.49	vendorCredit	30
3.50	vendorDebit	30
3.51	void	30

4 Complex Types 33

4.1	advancedFraudChecksType	33
4.2	advancedFraudResultsType	33
4.3	amexAggregatorData	33
4.4	applepayHeaderType	34
4.5	applepayType	34
4.6	authInformation	34
4.7	billMeLaterRequest	34
4.8	billToAddress	35
4.9	bmlProductType	35
4.10	card	36
4.11	cardPaypageType	36
4.12	cardTokenType	36
4.13	cardType	36
4.14	createAddOnType	37
4.15	createDiscountType	37
4.16	customBilling	37
4.17	customerInfo	37
4.18	deleteAddOnType	38
4.19	deleteDiscountType	38
4.20	detailTax	38
4.21	echeck	39
4.22	echeckForTokenType	39
4.23	echeckToken	39
4.24	echeckType	39
4.25	enhancedData	40

4.26	filteringType	40
4.27	fraudCheckType	40
4.28	fraudResult	41
4.29	giftCardCardType	41
4.30	giropayType	41
4.31	healthcareAmounts	41
4.32	healthcareIIAS	42
4.33	idealType	42
4.34	lineItemData	42
4.35	litleInternalRecurringRequestType	42
4.36	merchantDataType	43
4.37	mposType	43
4.38	payPal	43
4.39	pos	43
4.40	processingInstructions	44
4.41	recurringRequestType	44
4.42	recurringSubscriptionType	44
4.43	recyclingRequestType	44
4.44	sepaDirectDebitType	44
4.45	shipToAddress	45
4.46	sofortType	45
4.47	token	45
4.48	updateAddOnType	46
4.49	updateDiscountType	46
4.50	virtualGiftCardType	46
4.51	wallet	46

Index

47

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.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.',
```

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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('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'])

```

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.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

```

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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('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 # 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('LittleTransaction ID: %s' % response['batchResponse']['authorizationResponse']['  
→ 'littleTxnId'])
```

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 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.

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*
- **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

3.4 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

3.5 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*

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
- **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

3.9 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*

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
- **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*

3.12 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

3.13 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

3.14 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

3.15 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

3.16 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

3.17 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

3.18 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

3.19 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

3.20 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

3.21 echeckVoid

```
class vantisdk.fields.echeckVoid
```

Variables

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

3.22 fastAccessFunding

```
class vantisdk.fields.fastAccessFunding
```

Variables

- **amount** – String or Number
- **card** – instance of *vanivsdk.fields.cardType*
- **customerId** – String or Number
- **fundingSubmerchantId** – String or Number
- **fundsTransferId** – String or Number
- **id** – String or Number
- **paypage** – instance of *vanivsdk.fields.cardPaypageType*
- **reportGroup** – String or Number
- **submerchantName** – String or Number
- **token** – instance of *vanivsdk.fields.cardTokenType*

3.23 forceCapture

```
class vantisdk.fields.forceCapture
```

Variables

- **amexAggregatorData** – instance of *vanivsdk.fields.amexAggregatorData*
- **amount** – String or Number
- **billToAddress** – instance of *vanivsdk.fields.billToAddress*
- **card** – instance of *vanivsdk.fields.cardType*
- **customBilling** – instance of *vanivsdk.fields.customBilling*
- **customerId** – String or Number
- **debtRepayment** – String or Number
- **enhancedData** – instance of *vanivsdk.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*

3.24 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*

3.25 fundingInstructionVoid

class *vantivsdk.fields.fundingInstructionVoid*

Variables

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

3.26 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

3.27 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

3.28 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

3.29 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

3.30 loadReversal

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

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

3.31 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

3.32 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

3.33 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

3.34 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

3.35 queryTransaction

```
class vantivsdk.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

3.36 refundReversal

```
class vantivsdk.fields.refundReversal
```

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

3.37 registerTokenRequest

```
class vantivsdk.fields.registerTokenRequest
```

Variables

- **accountNumber** – String or Number
- **applepay** – instance of *vantivsdk.fields.applepayType*
- **cardValidationNum** – String or Number
- **customerId** – String or Number

- **echeckForToken** – instance of *vantivsdk.fields.echeckForTokenType*
- **id** – String or Number
- **mpos** – instance of *vantivsdk.fields.mposType*
- **orderId** – String or Number
- **paypageRegistrationId** – String or Number
- **reportGroup** – String or Number

3.38 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

3.39 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

3.40 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*

3.41 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

3.42 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

3.43 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

3.44 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

3.45 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

3.46 updateCardValidationNumOnToken

```
class vantisdk.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

3.47 updatePlan

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

Variables

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

3.48 updateSubscription

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

Variables

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

3.49 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

3.50 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

3.51 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

4.1 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

4.2 advancedFraudResultsType

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

Variables

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

4.3 amexAggregatorData

```
class vantisdk.fields.amexAggregatorData
```

Variables

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

4.4 applepayHeaderType

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

Variables

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

4.5 applepayType

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

Variables

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

4.6 authInformation

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

Variables

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

4.7 billMeLaterRequest

```
class vantisdk.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

4.8 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

4.9 bmlProductType

```
class vantivsdk.fields.bmlProductType
```

4.10 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

4.11 cardPaypageType

```
class vantivsdk.fields.cardPaypageType
```

Variables

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

4.12 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

4.13 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

4.14 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 customBilling

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

Variables

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

4.17 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

4.18 deleteAddOnType

```
class vantivsdk.fields.deleteAddOnType
```

Variables **addOnCode** – String or Number

4.19 deleteDiscountType

```
class vantivsdk.fields.deleteDiscountType
```

Variables **discountCode** – String or Number

4.20 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

4.21 echeck

```
class vantivsdk.fields.echeck
```

Variables

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

4.22 echeckForTokenType

```
class vantivsdk.fields.echeckForTokenType
```

Variables

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

4.23 echeckToken

```
class vantivsdk.fields.echeckToken
```

Variables

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

4.24 echeckType

```
class vantivsdk.fields.echeckType
```

Variables

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

4.25 enhancedData

```
class vantisdk.fields.enhancedData
```

Variables

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

4.26 filteringType

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

Variables

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

4.27 fraudCheckType

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

Variables

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

4.28 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

4.29 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

4.30 giropayType

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

Variables **preferredLanguage** – String or Number

4.31 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

4.32 healthcareIIAS

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

Variables

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

4.33 idealType

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

Variables **preferredLanguage** – String or Number

4.34 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

4.35 litleInternalRecurringRequestType

```
class vantisdk.fields.litleInternalRecurringRequestType
```

Variables

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

4.36 merchantDataType

```
class vantisdk.fields.merchantDataType
```

Variables

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

4.37 mpostType

```
class vantisdk.fields.mpostType
```

Variables

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

4.38 payPal

```
class vantisdk.fields.payPal
```

Variables

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

4.39 pos

```
class vantisdk.fields.pos
```

Variables

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

4.40 processingInstructions

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

4.41 recurringRequestType

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

4.42 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

4.43 recyclingRequestType

class `vantivsdk.fields.recyclingRequestType`
Variables

- `recycleBy` – String or Number
- `recycleId` – String or Number

4.44 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

4.45 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

4.46 sofortType

class `vantivsdk.fields.sofortType`

Variables **preferredLanguage** – String or Number

4.47 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

4.48 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

4.49 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

4.50 virtualGiftCardType

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

Variables

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

4.51 wallet

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

Variables

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

A

`add()` (*vantivsdk.batch.Transactions method*), 6

B

`batch_requests_path` (*vantivsdk.utils.Configuration attribute*), 8

`batch_response_path` (*vantivsdk.utils.Configuration attribute*), 8

C

`Configuration` (*class in vantivsdk.utils*), 7

D

`download()` (*in module vantivsdk.batch*), 5

I

`is_rfr_request` (*vantivsdk.batch.Transactions attribute*), 7

M

`merchantId` (*vantivsdk.utils.Configuration attribute*), 7

P

`password` (*vantivsdk.utils.Configuration attribute*), 7

`print_xml` (*vantivsdk.utils.Configuration attribute*), 8

`proxy` (*vantivsdk.utils.Configuration attribute*), 8

R

`recurringTransactions` (*vantivsdk.batch.Transactions attribute*), 7

`reportGroup` (*vantivsdk.utils.Configuration attribute*), 7

`request()` (*in module vantivsdk.online*), 7

`retrieve()` (*in module vantivsdk.batch*), 6

S

`sameDayFunding` (*vantivsdk.batch.Transactions attribute*), 6

`save()` (*vantivsdk.utils.Configuration method*), 8

`sftp_password` (*vantivsdk.utils.Configuration attribute*), 8

`sftp_url` (*vantivsdk.utils.Configuration attribute*), 8

`sftp_username` (*vantivsdk.utils.Configuration attribute*), 8

`submit()` (*in module vantivsdk.batch*), 5

T

`Transactions` (*class in vantivsdk.batch*), 6

`transactions` (*vantivsdk.batch.Transactions attribute*), 7

U

`url` (*vantivsdk.utils.Configuration attribute*), 8

`user` (*vantivsdk.utils.Configuration attribute*), 7

V

`vantivsdk.fields.accountUpdate` (*built-in class*), 9

`vantivsdk.fields.activate` (*built-in class*), 9

`vantivsdk.fields.activateReversal` (*built-in class*), 10

`vantivsdk.fields.advancedFraudChecksType` (*built-in class*), 33

`vantivsdk.fields.advancedFraudResultsType` (*built-in class*), 33

`vantivsdk.fields.amexAggregatorData` (*built-in class*), 33

`vantivsdk.fields.applepayHeaderType` (*built-in class*), 34

`vantivsdk.fields.applepayType` (*built-in class*), 34

`vantivsdk.fields.authInformation` (*built-in class*), 34

`vantivsdk.fields.authorization` (*built-in class*), 10

`vantivsdk.fields.authReversal` (*built-in class*), 10

<code>vantivsdk.fields.balanceInquiry</code> (<i>built-in class</i>), 12	18
<code>vantivsdk.fields.billMeLaterRequest</code> (<i>built-in class</i>), 34	<code>vantivsdk.fields.echeckToken</code> (<i>built-in class</i>), 39
<code>vantivsdk.fields.billToAddress</code> (<i>built-in class</i>), 35	<code>vantivsdk.fields.echeckType</code> (<i>built-in class</i>), 39
<code>vantivsdk.fields.bmlProductType</code> (<i>built-in class</i>), 35	<code>vantivsdk.fields.echeckVerification</code> (<i>built-in class</i>), 18
<code>vantivsdk.fields.cancelSubscription</code> (<i>built-in class</i>), 12	<code>vantivsdk.fields.echeckVoid</code> (<i>built-in class</i>), 19
<code>vantivsdk.fields.capture</code> (<i>built-in class</i>), 12	<code>vantivsdk.fields.enhancedData</code> (<i>built-in class</i>), 40
<code>vantivsdk.fields.captureGivenAuth</code> (<i>built-in class</i>), 13	<code>vantivsdk.fields.fastAccessFunding</code> (<i>built-in class</i>), 19
<code>vantivsdk.fields.card</code> (<i>built-in class</i>), 36	<code>vantivsdk.fields.filteringType</code> (<i>built-in class</i>), 40
<code>vantivsdk.fields.cardPaypageType</code> (<i>built-in class</i>), 36	<code>vantivsdk.fields.forceCapture</code> (<i>built-in class</i>), 19
<code>vantivsdk.fields.cardTokenType</code> (<i>built-in class</i>), 36	<code>vantivsdk.fields.fraudCheck</code> (<i>built-in class</i>), 20
<code>vantivsdk.fields.cardType</code> (<i>built-in class</i>), 36	<code>vantivsdk.fields.fraudCheckType</code> (<i>built-in class</i>), 40
<code>vantivsdk.fields.createAddOnType</code> (<i>built-in class</i>), 37	<code>vantivsdk.fields.fraudResult</code> (<i>built-in class</i>), 41
<code>vantivsdk.fields.createDiscountType</code> (<i>built-in class</i>), 37	<code>vantivsdk.fields.fundingInstructionVoid</code> (<i>built-in class</i>), 20
<code>vantivsdk.fields.createPlan</code> (<i>built-in class</i>), 14	<code>vantivsdk.fields.giftCardAuthReversal</code> (<i>built-in class</i>), 21
<code>vantivsdk.fields.credit</code> (<i>built-in class</i>), 14	<code>vantivsdk.fields.giftCardCapture</code> (<i>built-in class</i>), 21
<code>vantivsdk.fields.customBilling</code> (<i>built-in class</i>), 37	<code>vantivsdk.fields.giftCardCardType</code> (<i>built-in class</i>), 41
<code>vantivsdk.fields.customerInfo</code> (<i>built-in class</i>), 37	<code>vantivsdk.fields.giftCardCredit</code> (<i>built-in class</i>), 21
<code>vantivsdk.fields.deactivate</code> (<i>built-in class</i>), 15	<code>vantivsdk.fields.giropayType</code> (<i>built-in class</i>), 41
<code>vantivsdk.fields.deactivateReversal</code> (<i>built-in class</i>), 15	<code>vantivsdk.fields.healthcareAmounts</code> (<i>built-in class</i>), 41
<code>vantivsdk.fields.deleteAddOnType</code> (<i>built-in class</i>), 38	<code>vantivsdk.fields.healthcareIIAS</code> (<i>built-in class</i>), 42
<code>vantivsdk.fields.deleteDiscountType</code> (<i>built-in class</i>), 38	<code>vantivsdk.fields.idealType</code> (<i>built-in class</i>), 42
<code>vantivsdk.fields.depositReversal</code> (<i>built-in class</i>), 16	<code>vantivsdk.fields.lineItemData</code> (<i>built-in class</i>), 42
<code>vantivsdk.fields.detailTax</code> (<i>built-in class</i>), 38	<code>vantivsdk.fields.litleInternalRecurringRequestType</code> (<i>built-in class</i>), 42
<code>vantivsdk.fields.echeck</code> (<i>built-in class</i>), 39	<code>vantivsdk.fields.load</code> (<i>built-in class</i>), 22
<code>vantivsdk.fields.echeckCredit</code> (<i>built-in class</i>), 16	<code>vantivsdk.fields.loadReversal</code> (<i>built-in class</i>), 22
<code>vantivsdk.fields.echeckForTokenType</code> (<i>built-in class</i>), 39	<code>vantivsdk.fields.merchantDataType</code> (<i>built-in class</i>), 43
<code>vantivsdk.fields.echeckPreNoteCredit</code> (<i>built-in class</i>), 17	<code>vantivsdk.fields.mposType</code> (<i>built-in class</i>), 43
<code>vantivsdk.fields.echeckPreNoteSale</code> (<i>built-in class</i>), 17	<code>vantivsdk.fields.payFacCredit</code> (<i>built-in class</i>), 22
<code>vantivsdk.fields.echeckRedeposit</code> (<i>built-in class</i>), 17	<code>vantivsdk.fields.payFacDebit</code> (<i>built-in class</i>), 22
<code>vantivsdk.fields.echeckSale</code> (<i>built-in class</i>), 17	

class), 23
 vantivsdk.fields.payPal (*built-in class*), 43
 vantivsdk.fields.physicalCheckCredit (*built-in class*), 23
 vantivsdk.fields.physicalCheckDebit (*built-in class*), 23
 vantivsdk.fields.pos (*built-in class*), 43
 vantivsdk.fields.processingInstructions (*built-in class*), 44
 vantivsdk.fields.queryTransaction (*built-in class*), 24
 vantivsdk.fields.recurringRequestType (*built-in class*), 44
 vantivsdk.fields.recurringSubscriptionType (*built-in class*), 44
 vantivsdk.fields.recyclingRequestType (*built-in class*), 44
 vantivsdk.fields.refundReversal (*built-in class*), 24
 vantivsdk.fields.registerTokenRequest (*built-in class*), 24
 vantivsdk.fields.reserveCredit (*built-in class*), 25
 vantivsdk.fields.reserveDebit (*built-in class*), 25
 vantivsdk.fields.sale (*built-in class*), 25
 vantivsdk.fields.sepaDirectDebitType (*built-in class*), 44
 vantivsdk.fields.serviceStatusRequest (*built-in class*), 27
 vantivsdk.fields.shipToAddress (*built-in class*), 45
 vantivsdk.fields.sofortType (*built-in class*), 45
 vantivsdk.fields.submerchantCredit (*built-in class*), 27
 vantivsdk.fields.submerchantDebit (*built-in class*), 28
 vantivsdk.fields.token (*built-in class*), 45
 vantivsdk.fields.unload (*built-in class*), 28
 vantivsdk.fields.unloadReversal (*built-in class*), 28
 vantivsdk.fields.updateAddOnType (*built-in class*), 46
 vantivsdk.fields.updateCardValidationNumOnToken (*built-in class*), 29
 vantivsdk.fields.updateDiscountType (*built-in class*), 46
 vantivsdk.fields.updatePlan (*built-in class*), 29
 vantivsdk.fields.updateSubscription (*built-in class*), 29
 vantivsdk.fields.vendorCredit (*built-in class*), 30
 vantivsdk.fields.vendorDebit (*built-in class*), 30
 vantivsdk.fields.virtualGiftCardType (*built-in class*), 46
 vantivsdk.fields.void (*built-in class*), 30
 vantivsdk.fields.wallet (*built-in class*), 46