



# Merchant API Documentation

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## General Information

Integration of the VirtEx Merchant API requires only basic knowledge of HTML, and the ability to copy and paste a section of HTML code into your existing website. More advanced features (such as loading products from a database, shopping cart integration, or instant payment notification) will require more in depth knowledge of the coding behind your website (PHP, .Net, Python, etc)

## Initial Setup

1. Login to your VirtEx account
2. Click on the “Information” menu item under the “Merchant” heading
3. Fill in your Merchant information, all fields are required
4. Specify your “Auto Sell Percent”. This is the percentage of each payment you receive as Bitcoins that will be converted into CAD automatically. By default 100% is converted to CAD.

## Simple Integration - Buy Now Button

1. Login to your VirtEx account
2. Click on the “Button Generator” menu item under the “Merchant” heading
3. Fill in the details about your product. If shipping is required, check the “shipping required” box and indicate a shipping cost. All prices are in CAD.
4. Click the “Generate” button
5. Copy & Paste the code that appears in the “Generated button code” section to your website

## Advanced Integration - Shopping Cart

Ability to pass in multiple items, using a sequence number on each line item.

## Advanced Features

Return URL  
Cancel URL  
Instant Payment Notification URL

## Appendix 1 – POST Variables

POST URL: [https://www.cavirtex.com/merchant\\_purchase/MERCHANT\\_KEY](https://www.cavirtex.com/merchant_purchase/MERCHANT_KEY)

Your MERCHANT\_KEY can be obtained from your “Information” page.

<i>Variable</i>	<i>Type</i>	<i>R/O</i>	<i>Description</i>
name (nameN)	Varchar (255)	R	The name of the product
code (codeN)	Varchar (255)	O	The code for the product. This can be your internal product number, database product ID.
price (priceN)	Decimal	R	The price of the product, in CAD
quantity (quantityN)	Integer	O	Default 1, quantity of the product
shipping	Decimal	O	The shipping cost of the entire order, in CAD
shipping_required	Boolean (0 or 1)	R	Whether shipping is required. If “1”, the checkout will ask for shipping address before payment can be made.
tax	Decimal	O	The total tax of the entire order, in CAD
cancel_url	Varchar (512)	O	The URL to return to if the payment is cancelled. This is presented as a link to the user that they may, or may not click on.
return_url	Varchar (512)	O	The URL to return to if the payment is completed. This is presented as a link to the user that they may, or may not click on.
email	Varchar (255)	O	Email address of the customer. If not passed in, it will be prompted for
customer_name	Varchar (128)	O	Name of the customer. If not passed in, it will be prompted for
address	Varchar (128)	O	Mailing address of the customer. If not passed in, it will be prompted for if shipping is required
address2	Varchar (128)	O	Mailing address (line 2) of the customer. If not passed in, it will be prompted for if shipping is required
city	Varchar (64)	O	City of the customer. If not passed in, it will be prompted for if shipping is required
province	Varchar (3)	O	Province (2 or 3 letter abbreviation) of the customer. If not passed in, it will be prompted for if shipping is required
postal	Varchar (15)	O	Postal Code of the customer. If not passed in, it will be prompted for if shipping is required
country	Varchar(3)	O	If your merchant profile setting for international orders is set to “yes” shipping

			requirements will include the country dropdown
format	Varchar(4)	O	If “json” passed in, response will include exchange_rate, btc_total, cad_total (includes shipping total), shipping_total, tax_total, btc_payment_address, time_left (in seconds), status and summary of all line items including (code, extended_price, name, unit_price and quantity), otherwise it will redirect the request to the invoice page on cavitex.com
custom_1	Varchar(512)	O	A custom field that can be used by the merchant to store any important information regarding the order. This field is then returned when the IPN is sent

R/O = Required or Optional

**Note:** For multiple products/items. In addition to name, code, price, quantity any subsequent items please include an index beside the param starting at 2.

For example for two products we would have: name, code, price, quantity, name2, code2, price2, quantity2, or you may index all items starting at 1, for example: name1, code1, price1, quantity1, name2, code2, price2, quantity2

### Merchant Order Status of Payment:

GET URL: [https://www.cavitex.com/merchant\\_invoice\\_balance\\_check](https://www.cavitex.com/merchant_invoice_balance_check)

Variable	Type	R/O	Description
merchant_key	Varchar	R	Merchant key can be obtained from you “Information” page or from the response of a merchant purchase request
order_key	Varchar	R	Sent in the response of a merchant purchase request.

JSON Response example:

```
{“status”:”received”, “status_nice”:”Not Paid”, “time_left”:145.55, “total_received”:0.5}
```

status is used internally and status\_nice is used on the front end.

Status states are:

received, paid, credited, confirmed, expired, refunded, invalid

paid, credited and confirmed states signify that the payment has been made. We use these internally for different operation on the order.

The status\_nice field just represents the above states in a nicer format.

They are: Not Paid, Paid, Credited, Confirmed, Expired, Refunded and Invalid.

time\_left is in seconds

total\_received is how much has been paid in BTC

### Merchant Invoice:

For viewing invoice on cavirtex.com

GET URL: [https://www.cavirtex.com/merchant\\_invoice](https://www.cavirtex.com/merchant_invoice)

<i>Variable</i>	<i>Type</i>	<i>R/O</i>	<i>Description</i>
merchant_key	Varchar	R	Merchant key can be obtained from you “Information” page or from the response of a merchant purchase request
order_key	Varchar	R	Sent in the response of a merchant purchase request.

### IPN:

Is sent in JSON format when customer payment is received. It is sent to the IPN URL which is set in your merchant profile. Fields that are sent include:

btc\_received: how much btc has been received

order\_key: secure key which identifies the order

invoice\_number: your invoice number

exchange\_rate: exchange rate used for order

tax\_total: the total tax that was added to the total (if any)

shipping\_total: the total shipping that was added to the total (if any)

cad\_total: the total CAD value of the order (includes shipping and tax)

name: the name of the buyer

email: the email of the buyer

custom\_1: custom field which can be set by the merchant

### Merchant IPN Confirmation:

Available for confirming IPN information sent from cavirtex is correct. Send back the same params that were sent to you in the IPN and cavirtex will confirm that the information is accurate.

POST URL: [https://www.cavirtex.com/merchant\\_confirm\\_ipn](https://www.cavirtex.com/merchant_confirm_ipn)

<i>Variable</i>	<i>Type</i>	<i>R/O</i>	<i>Description</i>
secret_key	Varchar	R	Secret key can be obtained from you “Information” page
order_key	Varchar	R	Sent with the IPN
btc_received	Varchar	R	Sent with the IPN
invoice_number	Varchar	R	Sent with the IPN
exchange_rate	Varchar	R	Sent with the IPN
tax_total	Varchar	R	Sent with the IPN
shipping_total	Varchar	R	Sent with the IPN
cad_total	Varchar	R	Sent with the IPN
name	Varchar	R	Sent with the IPN
email	Varchar	R	Sent with the IPN
custom_1	Varchar	R	Sent with the IPN

Note: Even if the IPN sends some field values that are 0 (zero) or “” (empty string), please send it all back for the confirmation to go through.

#### **Merchant Invoice Transactions:**

POST URL: [https://www.cavirtex.com/merchant\\_invoice\\_transactions](https://www.cavirtex.com/merchant_invoice_transactions)

Provides information on the wallet transactions made to fill the order including bitcoin address, bitcoin amount, confirmations, timereceived and txid.

<i>Variable</i>	<i>Type</i>	<i>R/O</i>	<i>Description</i>
merchant_key	Varchar	R	Merchant key can be obtained from your “Information” page
order_key	Varchar	R	Sent with the IPN

Returns:

status: ok or error

transactions: list of transactions for the invoice

JSON response:

```
{“status”:”ok”, “transactions”:{“1”:{“address”:”123abcdef”,”amount”:”0.00000001”,
”confirmations”:”6”, “timereceived”:1234567890, “txid”:”123abc456def”}}}
```

## Merchant Exchange Rate Estimate:

POST URL: [https://www.cavirtex.com/merchant\\_exchange\\_rate\\_estimate](https://www.cavirtex.com/merchant_exchange_rate_estimate)

Provides an estimate on the virtex exchange rate for a given invoice total. However this does not guarantee the exchange rate to be the same when creating an invoice.

<i>Variable</i>	<i>Type</i>	<i>R/O</i>	<i>Description</i>
merchant_key	Varchar	R	Merchant key can be obtained from your “Information” page
invoice_total	Varchar	R	The invoice total for which to obtain the exchange rate for in CAD

Returns:

status: ok or error

exchange rate: the rate at this moment in time for the invoice total in CAD/BTC

JSON response:

```
{“status”:”ok”, “exchange_rate”:490.33}
```