

Merchant Integration Guide Python API v 1.1.0



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**** PLEASE READ CAREFULLY****

You have a responsibility to protect cardholder and merchant related confidential account information. Under no circumstances should ANY confidential information be sent via email while attempting to diagnose integration or production issues. When sending sample files or code for analysis by Moneris staff, all references to valid card numbers, merchant accounts and transaction tokens should be removed and or obscured. Under no circumstances should live cardholder accounts be used in the test environment.

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1. About this Documentation

This document describes the basic information for using the Python API for sending credit card transactions. In particular, it describes the format for sending transactions and the corresponding responses you will receive. If you are interested in also being able to accept INTERAC payments via your online application, please refer to the Python API with INTERAC Online Payment document found at:

https://www3.moneris.com/connect/en/documents/index.html

2. System and Skill Requirements

In order to use the Python API your system will need to have the following:

- 1. Port 443 open
- 2. Python 2.x (2.6 and up)
- 3. urllib2

As well, you will need to have the following knowledge and/or skill set:

1. Python programming language

Note:

Your solution may be required to demonstrate compliance with the card associations' PCI/CISP/PABP requirements. For more information please contact our Sales Center and visit https://www3.moneris.com/connect/en/download/feb05/misc/eSELECTplus PCI Requirements.pdf

The card association has a couple of data security standards that define specific requirements for all organizations that store, process, or transmit cardholder data. As a Moneris Solutions client or partner using this method of integration, your solution must demonstrate compliance to the Payment Card Industry Data Security Standard (PCI DSS) and/or the Payment Application Data Security Standard (PA DSS). These standards are designed to help the cardholders and merchants in such ways as they ensure credit card numbers are encrypted when transmitted/stored in a database and that merchants have strong access control measures.

Non-compliant solutions may prevent merchant boarding with Moneris Solutions. For further information on PCI DSS & PA DSS requirements, please visit http://www.pcisecuritystandards.org.

3. What is the Process I will need to follow?

You will need to follow these steps.

- 1. Do the required development as outlined in this document
- 2. Test your solution in the test environment
- 3. Activate your store
- 4. Make the necessary changes to move your solution from the test environment into production as outlined in this document

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4. Transaction Types and Transaction Flow

eSELECTplus supports a wide variety of transactions through the API. Below is a list of transactions supported by the API, other terms used for the transaction type are indicated in brackets.

Purchase – (sale) The Purchase transaction verifies funds on the customer's card, removes the funds and readies them for deposit into the merchant's account.

PreAuth – (authorisation / preauthorisation) The PreAuth verifies and locks funds on the customer's credit card. The funds are locked for a specified amount of time, based on the card issuer. To retrieve the funds from a PreAuth so that they may be settled in the merchant's account a Capture must be performed.

Capture – (Completion / PreAuth Completion) Once a PreAuth is obtained the funds that are locked need to be retrieved from the customer's credit card. The Capture retrieves the locked funds and readies them for settlement into the merchant's account.

Void – (Correction / Purchase Correction) Purchases and Captures can be voided the same day* that they occur. A Void must be for the full amount of the transaction and will remove any record of it from the cardholder's statement.

Refund – (Credit) A Refund can be performed against a Purchase or a Capture to refund any part, or all of the transaction.

Batch Close – (End of Day / Settlement) When a batch close is performed it takes the monies from all Purchase, Capture and Refund transactions so they will be deposited or debited the following business day. For funds to be deposited the following business day the batch must close before 11pm EST.

* A Void can be performed against a transaction as long as the batch that contains the original transaction remains open. When using the automated closing feature Batch Close occurs daily between 10 – 11 pm EST.

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5. Transaction Examples

Included below is the sample code that can be found in the Python API download.

Purchase (basic)

In the purchase example we require several variables (store_id, api_token, order_id, amount, pan, expdate, and crypt_type). Please refer to Appendix A for variable definitions.

```
import time
import mpgClasses
p = mpgClasses.Purchase ("UNIQUE_ORDER_ID", "1.00", "4242424242424242", "1010", "7")
p.setCustId ("customer 1")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "storel", "yesguy", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
```

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PreAuth (basic)

The PreAuth is virtually identical to the Purchase with the exception of the transaction type. It is 'Preauth' instead of 'Purchase'. Like the Purchase example, PreAuth's require several variables (store_id, api_token, order_id, amount, pan, expdate, and crypt_type). Please refer to Appendix A for variable definitions. In the example below the test environment store_id (store5) and api_token (yesguy) have been hard coded, and highlighted in the mpgHttpsPost object.

```
import time
import mpgClasses
p = mpgClasses.Preauth ("UNIQUE_ORDER_ID-" + str(time.time()), "1.00", "4242424242424242", "1111", "7")
p.setCustId ("cust 1")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "store5", "yesguy", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
```

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Capture

The Capture (completion) transaction is used to secure the funds locked by a PreAuth transaction. When sending a 'Completion' request you will need two pieces of information from the original PreAuth – the order_id and the txn_number from the returned response.

```
import mpgClasses
p = mpgClasses.Completion("ORDER_ID_FROM_PREAUTH", "1.00", "TXN_NUMBER_FROM_PREAUTH", "7")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "store5", "yesguy", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
```

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Void

The Void (Correction) transaction is used to cancel a transaction that was performed in the current batch. No amount is required because a Void is always for 100% of the original transaction. The only transactions that can be Voided are Captures and Purchases. To send a 'Correction' the order_id and txn_number from the Capture or Purchase are required.

```
import mpgClasses
p = mpgClasses.Correction("ORDER_ID_FROM_PURCHASE_OR_CAPTURE", "TXN_NUMBER_FROM_PURCHASE_OR_CAPTURE", "7")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "store1", "yesquy", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
```

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Refund

The Refund will credit a specified amount to the cardholder's credit card. A Refund can be sent up to the full value of the original Capture or Purchase. To send a 'Refund' you will require the order_id and txn_number from the original Capture or Purchase.

```
import time
import mpgClasses
r = mpgClasses.Refund("ORDER_ID_FROM_PURCH_OR_CAPTURE", "1.00", "7", "TXN_NUMBER_FROM_PURCH_OR_CAPTURE")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "storel", "yesguy", r)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
```

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Independent Refund

The Independent Refund (IndRefund) will credit a specified amount to the cardholder's credit card. The Independent Refund does not require an existing order to be logged in the eSELECTplus gateway; however, the credit card number and expiry date will need to be passed. In the example below the values are hard coded (and highlighted) in the appropriate locations. The transaction format is almost identical to a Purchase or a PreAuth.

```
import time
import mpgClasses
p = mpgClasses.IndRefund ("UNIQUE_ORDER_ID-" + str(time.time()), "1.00", "4242424242424242", "1010", "7")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "store3", "yesquy", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
```

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Batch Close

At the end of every day (11pm EST) the Batch needs to be closed in order to have the funds settled the next business day. By default eSELECTplus will close your Batch automatically for you daily whenever there are funds in the open Batch. Some merchants prefer to control Batch Close, and disable the automatic functionality. For these merchants we have provided the ability to close your Batch through the API. When a Batch is closed the response will include the transaction count and amount for each type of transaction for each type of card. To disable automatic close you will need to call the technical support line.

```
import mpgClasses
ot = mpgClasses.BatchClose("66002178")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "store2", "yesquy", ot)
req.postRequest()
resp = req.getResponse()
ecrs = resp.getECRs()
for termid in ecrs.keys():
       print ("ecr is: "+ termid )
       cardTypes = resp.getCardTypes(termid)
       for card in cardTypes:
              print ("Card Type is : " + card)
              print ("\tPurchase Count: " + resp.getPurchaseCount(termid, card))
              print ("\tPurchase Amount: " + resp.getPurchaseAmount(termid, card))
              print ("\tRefund Count: " + resp.getRefundCount(termid, card))
              print ("\tRefund Amount: " + resp.getRefundAmount(termid, card))
              print ("\tCorrection Count: " + resp.getCorrectionCount(termid, card))
              print ("\tCorrection Amount: " + resp.getCorrectionAmount(termid, card))
              print ("\n\n")
       print ("-----
                             ----\n\n")
```

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6. Transaction with Extra features - Examples

In the previous section the instructions were provided for the basic transaction set. eSELECTplus also provides several extra features/functionalities. These features include storing customer and order details, Verified by Visa and sending transactions to the Recurring Billing feature. Verified by Visa and Recurring Billing must be added to your account, please call the Service Centre at 1 866 319 7450 to have your profile updated.

Purchase (with Customer and Order details)

Below is an example of sending a Purchase with the customer and order details. If one piece of information is sent then all fields must be included in the request. Unwanted fields need to be blank. The identical format is used for PreAuth with the exception of transaction type which changes from 'Purchase' to 'Preauth'. Customer details can only be sent with Purchase and PreAuth. It can be used in conjunction with other extra features such as VBV and Recurring Billing. *Please note that the CustInfo fields are not used for any type of address verification or fraud check.*

```
import time
import mpgClasses
p = mpgClasses.Purchase ("UNIQUE_ORDER_ID", "1.00", "424242424242424", "1109", "7")
p.setCustId ("customer 1")
#CustInfo fields
cust = mpgClasses.CustInfo()
billing = mpgClasses.BillingInfo("first_name", "last_name", "company_name", "address", "city", "province", "postal_code", "country", "phone_number", "fax", "tax1", "tax2", "tax3", "shipping_cost") shipping = mpgClasses.ShippingInfo("first_name", "last_name", "company_name", "address", "city", "province", "postal_code", "country", "phone_number", "fax", "tax1", "tax2", "tax3", "shipping_cost")
email = "email@abc.com"
instruction = "take it slow"
cust.setBilling(billing)
cust.setShipping(shipping)
cust.setEmail(email)
cust.setInstruction(instruction)
cust.addItem(mpgClasses.Item("item 123", "1", "4527182-90123", "5.00")) cust.addItem(mpgClasses.Item("item 234", "2", "4527182-90234", "4.00")) cust.addItem(mpgClasses.Item("item 345", "3", "4527182-90345", "3.00"))
p.setCustInfo (cust)
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "storel", "yesquy", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getTransID())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getTicket())
print ("Ticket: " + resp.getTicket())
```

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Purchase (with Verified by Visa - VBV)

Below is an example of sending a Purchase with the Verified by Visa extra fields. The 'cavv' is obtained by using either the Moneris MPI or a third party MPI. The format outlined below is identical for a PreAuth with the exception of the TransType which changes from 'CavvPurchase' to 'CavvPreauth'. VBV must be added to your account, please call the Service Centre at 1 866 319 7450 to have your profile updated. The optional customer and order details can be included in the transaction using steps 1, 2 and 5 from the method above -*Purchase (with Customer and Order Details)*.

```
import time
import mpgClasses
p = mpgClasses.CavvPurchase ("UNIQUE_ORDER_ID-" + str(time.time()), "10.30", "4242424242424242", "0909",
"CAACCJIGVSZTUSIOJqZVAAAAAA=")
p.setCustId ("cust 1")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "moneris", "hurgle", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
```

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Purchase (with Recurring Billing)

Recurring Billing is a feature that allows the transaction information to be sent once and then re-billed on a specified interval for a certain number of times. This is a feature commonly used for memberships, subscriptions, or any other charge that is re-billed on a regular basis. The transaction is split into two parts; the recur information and the transaction information. Please see Appendix C for description of each of the fields. The optional customer and order details can be included in the transaction using steps 1, 2 and 5 from the method above -*Purchase (with Customer and Order Details)*. Recurring Billing must be added to your account, please call the Service Centre at 1 866 319 7450 to have your profile updated.

```
import time
import mpgClasses
p = mpgClasses.Purchase ("test_python-" + str(time.time()), "1.00", "4242424242424242", "0909", "7")
p.setCustId ("cust 1")
recur = mpgClasses.Recur("month", "true", "2010/10/10", "12", "1", "30.00")
p.setRecur(recur)
req = mpqClasses.mpqHttpsPost("esqa.moneris.com", "moneris", "hurqle", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
print ("RecurSuccess: " + resp.getRecurSuccess())
```

As part of the Recurring Billing response there will be an additional method called getRecurSuccess(). This can return a value of 'true' or 'false' based on whether the recurring transaction was successfully registered in our database.

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Recur Update

Recur Update allows a user to alter characteristics of a previously registered Recurring Billing transaction. This feature is commonly used to update customer's credit card information and the number of recurs to the account. Please see Appendix A and Appendix C for description of each of the fields. Recurring Billing must be added to your account, please call the Service Centre at 1 866-319-7450 to have your profile updated.

```
import mpgClasses
p = mpgClasses.RecurUpdate("test_python-1271187587.31")
p.setCustId ("cust 1")
p.setRecurAmount("1.00")
p.setPan("424242424242424")
p.setExpDate("1111")
p.setAddNumRecurs("1")
p.setTotalNumRecurs("20")
##p.setHold("false")
##p.setTerminate("false")
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "moneris", "hurgle", p)
req.postRequest()
resp = req.getResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("RecurUpdateSuccess: " + resp.getRecurUpdateSuccess())
print ("NextRecurDate: " + resp.getNextRecurDate())
print ("RecurEndDate: " + resp.getRecurEndDate())
```

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Purchase with CVD and AVS (eFraud)

Below is an example of a Purchase transaction with CVD and AVS information. These values can be sent in conjunction with other additional variables such as Recurring Billing or customer information. With this feature enabled in your merchant profile, you will be able to pass in these fields for the following transactions 'Purchase', 'Preauth', 'CavvPurchase', and 'CavvPreauth'. To form CvdInfo please refer to Appendix E, to form AvsInfo please refer to Appendix F.

If you wish to have the eFraud feature added to your profile, once you have completed your testing, please contact the eSELECTplus Integration Support Team at eselectplus@moneris.com to have it enabled. Please make sure to include your store ID or merchant number in any eFraud activation email requests.

When testing eFraud (AVS and CVD) you <u>must only use</u> the Visa test card number 42424242424242 and the amounts described in the Simulator eFraud Response Codes document found at: https://www3.moneris.com/connect/en/documents/index.html
These tests will only work with "store5" as the store_id.

Note: The CVD value supplied by the cardholder should simply be passed to the eSELECTplus payment gateway. Under no circumstances should it be stored for subsequent uses or displayed as part of the receipt information.

```
import time
import mpgClasses
p = mpgClasses.Purchase ("UNIQUE_ORDER_ID", "1.00", "424242424242424", "1011", "7")
p.setCustId ("customer 1")
cvd = mpgClasses.CvdInfo("1", "123")
avs = mpgClasses.AvsInfo("123", "Main St", "a1a2b2")
p.setCvdInfo(cvd)
p.setAvsInfo(avs)
req = mpgClasses.mpgHttpsPost("esqa.moneris.com", "store5", "yesguy", p)
rea.postRequest()
resp = req.qetResponse()
print ("ReceiptId: " + resp.getReceiptId())
print ("ReferenceNum: " + resp.getReferenceNum())
print ("ResponseCode: " + resp.getResponseCode())
print ("ISO: " + resp.getISO())
print ("AuthCode: " + resp.getAuthCode())
print ("TransTime: " + resp.getTransTime())
print ("TransDate: " + resp.getTransDate())
print ("TransType: " + resp.getTransType())
print ("Complete: " + resp.getComplete())
print ("Message: " + resp.getMessage())
print ("TransAmount: " + resp.getTransAmount())
print ("CardType: " + resp.getCardType())
print ("TransID: " + resp.getTransID())
print ("TimedOut: " + resp.getTimedOut())
print ("BankTotals: " + resp.getBankTotals())
print ("Ticket: " + resp.getTicket())
print ("AvsResultCode: " + resp.getAvsResultCode())
print ("CvdResultCode: " + resp.getCvdResultCode())
```

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7. What Information will I get as a Response to My Transaction Request?

For each transaction you will receive a response message. For a full description of each field please refer to Appendix B.

To determine whether a transaction is successful or not the field that must be checked is ResponseCode. See the table below to determine the transaction result.

| Response Code | Result |
|----------------------|------------|
| 0 – 49 (inclusive) | Approved |
| 50 – 999 (inclusive) | Declined |
| Null | Incomplete |

For a full list of response codes and the associated message please refer to https://www3.moneris.com/connect/en/documents/index.html and download the Response Code document.

8. How Do I Test My Solution?

A testing environment is available for you to connect to while you are integrating your site to our payment gateway. The test environment is generally available 7x24, however since it is a test environment we cannot guarantee 100% availability. Also, please be aware that other merchants are using the test environment so you may see transactions and user IDs that you did not create. As a courtesy to others that are testing we ask that when you are processing Refunds, changing passwords and/or trying other functions that you use only the transactions/users that you created.

When using the APIs in the test environment you will need to use test store_id and api_token. These are different than your production IDs. The IDs that you can use in the test environment are in the table below.

| Test IDs | | | | |
|------------|-----------|----------|----------|--|
| store_id | api_token | Username | Password | |
| store1 | yesguy | DemoUser | password | |
| store2 | yesguy | DemoUser | password | |
| store3 | yesguy | DemoUser | password | |
| store5 * | yesguy | DemoUser | password | |
| moneris ** | hurgle | DemoUser | password | |

^{* &}quot;store5" is for testing eFraud (AVS & CVD)

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^{**} the "moneris" store is for testing VBV

When testing you may use the following test card numbers with any future expiry date.

| Test Card Numbers | | | |
|-------------------|-----------------|--|--|
| Card Plan | Card Number | | |
| MasterCard | 54545454545454 | | |
| Visa | 42424242424242 | | |
| Amex | 373599005095005 | | |
| Diners | 36462462742008 | | |

To access the Merchant Resource Centre in the test environment go to https://esqa.moneris.com/mpg. And use the logins provided in the previous table.

The test environment has been designed to replicate our production environment as closely as possible. One major difference is that we are unable to send test transactions onto the production authorization network and thus Issuer responses are simulated. Additionally, the requirement to emulate approval, decline and error situations dictates that we use certain transaction variables to initiate various response and error situations.

The test environment will approve and decline transactions based on the penny value of the amount field. For example, a transaction made for the amount of \$399.00 or \$1.00 will approve since the .00 penny value is set to approve in the test environment. Transactions in the test environment should not exceed \$1000.00. This limit does not exist in the production environment. For a list of all current test environment responses for various penny values, please see the Test Environment Penny Response table as well as the Test Environment eFraud Response table, available at https://www3.moneris.com/connect/en/documents/index.html.



These responses may change without notice. Moneris Solutions recommends you regularly refer to our website to check for possible changes.

9. What Do I Need to Include in the Receipt?

Visa and MasterCard expect certain variables be returned to the cardholder and presented as a receipt when a transaction is approved. These 12 fields are listed below. A sample receipt is provided in Appendix H.

- 1. Amount
- 2. Transaction Type
- 3. Date and Time
- 4. Auth Code
- 5. Response Code
- 6. ISO Code
- 7. Response Message
- 8. Reference Number
- 9. Goods and Services Order
- 10. Merchant Name
- 11. Merchant URL
- 12. Cardholder Name
- 13. Return Policy (only a requirement for e-commerce transactions)

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10. How Do I Activate My Store?

Once you have received your activation letter/fax go to https://www3.moneris.com/connect/en/activate/index.php as instructed in the letter/fax. You will need to input your store ID and merchant ID then click on 'Activate'. In this process you will need to create an administrator account that you will use to log into the Merchant Resource Centre to access and administer your eSELECTplus store. You will need to use the Store ID and API Token to send transactions through the API.

Once you have created your first Merchant Resource Centre user, please log on to the Interface by clicking the "eSELECTplus" button. Once you have logged in please proceed to ADMIN and then STORE SETTINGS. At the bottom please place a check beside the APIs that you are using. This will allow us to keep you up to date regarding any changes to the APIs that may affect your store. Also, this is where you may locate your production API Token.

11. How Do I Configure My Store For Production?

Once you have completed you testing you are ready to point your store to the production host. You will need to edit the transaction.py (i.e. testPurchase.py) file and change the host as highlighted below in red. You will also need to change the store_id to reflect your production store ID as well the api_token must be changed to your production token to reflect the token that you received during activation.

| PRODUCTION | DEVELOPMENT |
|--|--|
| <pre>req = mpgClasses.mpgHttpsPost("www3.moneris.com", store_id, api_token, p)</pre> | <pre>req = mpgClasses.mpgHttpsPost("esqa.moneris.com", store_id, api_token, p)</pre> |

Once you are in production you will access the Merchant Resource Centre at https://www3.moneris.com/mpg. You can use the store administrator ID you created during the activation process and then create additional users as needed.

For further information on how to use the Merchant Resource Centre please see the eSELECTplus Merchant Resource Centre User's Guide which is available at https://www3.moneris.com/connect/en/documents/index.html.

12. How Do I Get Help?

If you require technical assistance while integrating your store, please contact the eSELECTplus Support Team:

For technical support:

Phone: 1-866-319-7450 (Technical Difficulties)

For integration support: Phone: 1-866-562-4354

Email: eselectplus@moneris.com

When sending an email support request please be sure to include your name and phone number, a clear description of the problem as well as the type of API that you are using. For security reasons, please do not send us your API Token combined with your store ID, or your merchant number and device number in the same email.

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13. Appendix A. Definition of Request Fields

| | | Request Fields |
|-------------------|------------------|--|
| Variable Name | Size/Type | Description |
| order_id | 50 / an | Merchant defined unique transaction identifier - must be unique for every Purchase, PreAuth and Independent Refund attempt. For Refunds, Completions and Voids the order_id must reference the original transaction. |
| pan | 20 / variable | Credit Card Number - no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration for future expansion and/or potential support of private label card ranges. |
| expdate | 4 / num | Expiry Date - format YYMM no spaces or slashes. PLEASE NOTE THAT THIS IS REVERSED FROM THE DATE DISPLAYED ON THE PHYSICAL CARD WHICH IS MMYY |
| amount | 9 / decimal | Amount of the transaction. This must contain 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 9999999.99 |
| crypt_type | 1 / an | E-Commerce Indicator: 1 - Mail Order / Telephone Order - Single 2 - Mail Order / Telephone Order - Recurring 3 - Mail Order / Telephone Order - Instalment 4 - Mail Order / Telephone Order - Unknown Classification 5 - Authenticated E-commerce Transaction (VBV) 6 - Non Authenticated E-commerce Transaction (VBV) 7 - SSL enabled merchant 8 - Non Secure Transaction (Web or Email Based) 9 - SET non - Authenticated transaction |
| txn_number | 255 / varchar | Used when performing follow on transactions - this must be filled with the value that was returned as the Txn_number in the response of the original transaction. When performing a Capture this must reference the PreAuth. When performing a Refund or a Void this must reference the Capture or the Purchase. |
| cust_id | 50/an | This is an optional field that can be sent as part of a Purchase or PreAuth request. It is searchable from the Moneris Merchant Resource Centre. It is commonly used for policy number, membership number, student ID or invoice number. |
| cavv | | This is a value that is provided by the Moneris MPI or by a third party MPI. It is part of a VBV transaction. |
| avs_street_number | | Street Number & Street Name (max – 19 digit limit for street number and |
| avs_street_name | 19 / an | street name combined). This must match the address that the issuing bank has on file. |
| avs_zipcode | 10 / an | Zip or Postal Code – This must match what the issuing banks has on file. |
| cvd_value | 4 / num | Credit Card CVD value – this number accommodates either 3 or 4 digit CVD values. |
| | | Note: The CVD value supplied by the cardholder should simply be passed to the eSELECTplus payment gateway. Under no circumstances should it be stored for subsequent uses or displayed as part of the receipt information. |
| cvd_indicator | 1 / num | CVD presence indicator (1 digit – refer to Appendix E for values) |

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14. Appendix B. Definitions of Response Fields

| | Response Fields | | | |
|---------------|-----------------|---|--|--|
| Variable Name | Size/Type | Description | | |
| order_id | 50 / an | order_id specified in request | | |
| ReferenceNum | 18 / num | The reference number is an 18 character string that references the terminal used to process the transaction as well as the shift, batch and sequence number, This data is typically used to reference transactions on the host systems and must be displayed on any receipt presented to the customer. This information should be stored by the merchant. The following illustrates the breakdown of this field where "660123450010690030" is the reference number returned in the message, "66012345" is the terminal id, "001" is the shift number, "069" is the batch number and "003" is the transaction number within the batch. | | |
| | | Moneris Host Transaction identifier. | | |
| ReponseCode | 3 / num | Transaction Response Code < 50: Transaction approved >= 50: Transaction declined NULL: Transaction was not sent for authorization | | |
| | | * If you would like further details on the response codes that are returned please see the Response Codes document available at https://www3.moneris.com/connect/en/documents/index.html | | |
| ISO | 2 / num | ISO response code | | |
| AuthCode | 8 / an | Authorization code returned from the issuing institution | | |
| TransTime | ##:##:## | Processing host time stamp | | |
| TransDate | yyyy-mm- dd | Processing host date stamp | | |
| TransType | an | Type of transaction that was performed | | |
| Complete | True/False | Transaction was sent to authorization host and a response was received | | |
| Message | 100 / an | Response description returned from issuing institution. | | |
| TransAmount | | | | |
| CardType | 2 / alpha | Credit Card Type | | |
| Txn_number | 20 / an | Gateway Transaction identifier | | |
| TimedOut | True/False | Transaction failed due to a process timing out | | |
| Ticket | n/a | reserved | | |
| RecurSucess | True/false | Indicates whether the transaction successfully registered. | | |
| AvsResultCode | 1/alpha | Indicates the address verification result. Refer to Appendix F. | | |
| CvdResultCode | 2/an | Indicates the CVD validation result. Refer to Appendix E. | | |

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Appendix C. Recur Fields 15.

| | Recur Request Fields | | | | |
|---------------|----------------------|--|--|--|--|
| Variable Name | Size/Type | Description | | | |
| recur_unit | day, week, month | The unit that you wish to use as a basis for the Interval. This can be set as day, week or month. Then using the "period" field you can configure how many days, weeks, months between billing cycles. | | | |
| period | 0 – 999 / num | This is the number of recur_units you wish to pass between billing cycles. Example: period = 3, recur_unit=month -> Card will be billed every 3 months. period = 4, recur_unit=weeks -> Card will be billed every 4 weeks. period = 45, recur_unit=day -> Card will be billed every 45 days. Please note that the total duration of the recurring billing transaction should not exceed 5-10 years in the future. | | | |
| start_date | YYYY/MM/DD | This is the date on which the first charge will be billed. The value must be in the future. It cannot be the day on which the transaction is being sent. If the transaction is to be billed immediately the start_now feature must be set to true and the start_date should be set at the desired interval after today. | | | |
| start_now | true / false | When a charge is to be made against the card immediately start_now should be set to 'true'. If the billing is to start in the future then this value is to be set to 'false'. When start_now is set to 'true' the amount to be billed immediately may differ from the recur amount billed on a regular basis thereafter. | | | |
| recur_amount | 9 / decimal | Amount of the recurring transaction. This must contain 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 9999999.99. This is the amount that will be billed on the start_date and every interval thereafter. | | | |
| num_recurs | 1 – 99 / num | The number of times to recur the transaction. | | | |
| amount | 9 / decimal | When start_now is set to 'true' the amount field in the transaction array becomes the amount to be billed immediately. When start_now is set to 'false' the amount field in the transaction array should be the same as the recur_amount field. | | | |

| Recur Request Examples | | |
|--|---|--|
| Recur Request Exampl | Description | |
| recur = mpgClasses.Recur("month", "false", "2007/01/02", "12", "2", "30.00") | In the example to the left the first transaction will occur in the future on Jan 2 nd 2007. It will be billed \$30.00 every 2 months on the 2 nd of | |
| p.setRecur(recur) | each month. The card will be billed a total of 12 times. | |
| recur = mpgClasses.Recur("week", "true", "2007/01/02", "26", "2", "30.00") | In the example on the left the first charge will be billed immediately. The initial charge will be for \$15.00. Then starting on Jan 2^{nd} 2007 the credit card will be billed \$30.00 every 2 weeks for 26 recurring charges. The card will be billed a total of 27 times. (1 x \$15.00 (immediate) and 26 x \$30.00 (recurring)) | |
| p.setRecur(recur) | | |



When completing the recurring billing portion please keep in mind that to prevent the shifting of recur bill dates, avoid setting the start_date for anything past the 28th of any given month. For example, all billing dates set for the 31st of May will shift and bill on the 30th in June and will then bill the cardholder on the 30th for every subsequent month.

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| | Recur Update Request Fields | | | |
|------------------|-----------------------------|--|--|--|
| Variable Name | Size/Type | Description | | |
| cust_id | 50 / an | This updates the current cust_id associated with the recurring transaction and will be submitted with all future recurring purchases. | | |
| pan | 20 / variable | Credit Card Number - no spaces or dashes. Most credit card numbers today are 16 digits in length but some 13 digits are still accepted by some issuers. This field has been intentionally expanded to 20 digits in consideration for future expansion and/or potential support of private label card ranges. This will be the new credit card number charged with all future recurs. This field pertains only to credit card transactions. | | |
| expiry_date | YYMM / num | Expiry Date - format YYMM no spaces or slashes, replaces the current expiry date in the payment details and must be today's date or later. PLEASE NOTE THAT THIS IS REVERSED FROM THE DATE DISPLAYED ON THE PHYSICAL CARD WHICH IS MMYY | | |
| avs_street_numbe | r | Street Number & Street Name (max – 19 digit limit for street number and | | |
| avs_street_name | 19 / an | street name combined). This must match the address that the issuing bank has on file. The updated AVS details will be submitted for all future credit card recurs. Please note; the store must have the AVS feature enabled. | | |
| avs_zipcode | 9 / an | Zip or Postal Code – This must match what the issuing banks has on file. | | |
| recur_amount | 9 / decimal | Amount of all future recurring transaction. This must contain 3 digits with two penny values. The minimum value passed can be 0.01 and the maximum 9999999.99. | | |
| add_num | 1-999 / num | This is the number of recurring transactions to be added to the current total number of recurs on file. Example: num_recurs* = 5, add_num = 2, New total number of recurs = 7 *the "num_recurs" initially sent in while registering the recurring transaction. Please refer to Recur Request Fields table for variable definition. | | |
| total_num | 1-999 / num | This is an update to replace the current total number of recurs on file. Example: num_recurs* = 5, total_num = 2, New total number of recurs = 2 *the "num_recurs" initially sent in while registering the recurring transaction. Please refer to Recur Request Fields table for variable definition. | | |
| hold | true / false | A transaction can be put 'On Hold' at any time. While a transaction is 'On Hold' it will not be billed when the time comes for it to recur, but the number of recurs will be decremented. | | |
| terminate | true / false | A Recurring Billing transaction can be Terminated at any time. A terminated Recurring transaction can no longer be reactivated. | | |

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Recur Update Response codes:

The Recur Update response is a 3 digit numeric value. The following is a list of all possible responses once a Recur Update transaction has been sent thru.

| Recur Update RESPONSE CODES | | | |
|-----------------------------|---|--|--|
| RESULT VALUE DEFINITION | | | |
| 001 | Recurring transaction successfully updated (optional: terminated) | | |
| 983 | 983 Can not find the previous transaction | | |
| 984 | Data error: (optional: field name) | | |
| 985 | 985 Invalid number of recurs | | |
| 986 | 986 Incomplete: timed out | | |
| null Error: Malformed XML | | | |



When completing the update recurring billing portion please keep in mind that the recur bill dates cannot be changed to have an end date greater than 10 years from today and cannot be changed to have an end date end today or earlier.

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16. Appendix D. Error Messages

Global Error Receipt – You are not connecting to our servers. This can be caused by a firewall or your internet connection.

Response Code = NULL – The response code can be returned as null for a variety of reasons. A majority of the time the explanation is contained within the Message field. When a 'NULL' response is returned it can indicate that the Issuer, the credit card host, or the gateway is unavailable, either because they are offline or you are unable to connect to the internet. A 'NULL' can also be returned when a transaction message is improperly formatted.

Below are error messages that are returned in the Message field of the response.

Message: XML Parse Error in Request: <System specific detail>

Cause: For some reason an improper XML document was sent from the API to the servlet

Message: XML Parse Error in Response: <System specific detail>

Cause: For some reason an improper XML document was sent back from the servlet

Message: Transaction Not Completed Timed Out

Cause: Transaction times out before the host responds to the gateway

Message: Request was not allowed at this time

Cause: The host is disconnected

Message: Could not establish connection with the gateway:

<System specific detail>

Cause: Gateway is not accepting transactions or server does not have proper access to internet

Message: Input/Output Error: <System specific detail>

Cause: Servlet is not running

Message: The transaction was not sent to the host because of a duplicate order id

Cause: Tried to use an order id which was already in use

Message: The transaction was not sent to the host because of a duplicate order id

Cause: Expiry Date was sent in the wrong format

17. Appendix E. Card Validation Digits (CVD)

The Card Validation Digits (CVD) value refers to the numbers appearing on the back of the credit card which are not imprinted on the front. The exception to this is with American Express cards where this value is indeed printed on the front. The CvdInfo parameter is broken down into two elements. The first element is the CVD Value itself.

The second element is the CVD Indicator. This value indicates the possible scenarios when collecting CVD information. This is a 1 digit value which can have any of the following values:

CVD Indicator:

- 0 = CVD value is deliberately bypassed or is not provided by the merchant.
- 1 = CVD value is present.
- 2 = CVD value is on the card, but is illegible.
- 9 = Cardholder states that the card has no CVD imprint.

CVD Response codes:

The CVD response is an alphanumeric 2 byte variable. The first byte is the numeric CVD indicator sent in the request; the second byte would be the response code. The following is a list of all possible responses once a CVD value has been passed in.

CVD Response Code:

M = Match

N = No Match

P = Not Processed

S = CVD should be on the card, but Merchant has indicated that CVD is not present

U = Issuer is not a CVD participant



For American Express, a CVD Response code will not be returned; the response will be either Approved or Declined.

To have CVD for American Express added to your profile, please contact AmEx directly.

The CVD value supplied by the cardholder should simply be passed to the eSELECTplus payment gateway. Under no circumstances should it be stored for subsequent uses or displayed as part of the receipt information.

^{*}For additional information on how to handle these responses, please refer to Appendix G.

18. Appendix F. Address Verification Service (AVS)

The Address Verification Service (AVS) value refers to the cardholder's street number, street name and zip/postal code as it would appear on their statement. AvsInfo is broken down into three elements:

| Element | Туре | Length |
|-----------------|--------------|-------------------------|
| Street Number | Numeric | 19 characters combined. |
| Street Name | Alphanumeric | 19 Characters combined. |
| Zip/Postal Code | Alphanumeric | 9 characters |

The following table outlines the possible responses when passing in AVS information.

| Table of possible Visa and MC AVS result codes | | | | | | | |
|--|---|----------|---------------|--|--|--|--|
| VALUE | DESCRIPTION | Domestic | International | | | | |
| A | Street addresses match. The street addresses match but the postal/ZIP codes do not, or the request does not include the postal/ZIP code. | V | V | | | | |
| В | Street addresses match. Postal code not verified due to incompatible formats. (Acquirer sent both street address and postal code.) | V | V | | | | |
| С | Street address and postal code not verified due to incompatible formats. (Acquirer sent both street address and postal code.) | | √ | | | | |
| D | Street addresses and postal codes match. | | √ | | | | |
| G | Address information not verified for international transaction. | | V | | | | |
| I | Address information not verified. | | \checkmark | | | | |
| М | Street address and postal code match. | | \checkmark | | | | |
| N | No match. Acquirer sent postal/ZIP code only, or street address only, or both postal code and street address. | √ | √ | | | | |
| P | Postal code match. Acquirer sent both postal code and street address, but street address not verified due to incompatible formats. | √ | √ | | | | |
| R | Retry: System unavailable or timed out. Issuer ordinarily performs its own AVS but was unavailable. Available for U.S. issuers only. | √ | | | | | |
| S | Not applicable. If present, replaced with G (for international) or U (for domestic) by V.I.P. Available for U.S. Issuers only. | √ | | | | | |
| U | Address not verified for domestic transaction. Visa tried to perform check on issuer's behalf but no AVS information was available on record, issuer is not an AVS participant, or AVS data was present in the request but issuer did not return an AVS result. | V | | | | | |
| W | Not applicable. If present, replaced with "Z" by V.I.P. Available for U.S. issuers only. | √ | | | | | |
| X | Not applicable. If present, replaced with "Y" by V.I.P. Available for U.S. issuers only. | √ | | | | | |
| Y | Street address and postal code match. | V | | | | | |
| Z | Postal/ZIP matches; street address does not match or street address not included in request. | V | √ | | | | |

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| Table of possible AVS response codes from Discover | | | | | |
|--|---|--|--|--|--|
| VALUE | DESCRIPTION | | | | |
| х | All digits match, nine-digit zip code. | | | | |
| A | All digits match, five-digit zip code. | | | | |
| Y | Address matches, zip code does not match. | | | | |
| Т | Nine-digit zip code matches, address does not match. | | | | |
| z | Five-digit zip codes matches, address does not match. | | | | |
| N | Nothing matches. | | | | |
| w | No data from issuer/authorization system. | | | | |
| U | Retry, system unable to process. | | | | |
| S | AVS not supported at this time. | | | | |

19. Appendix G. Additional Information for CVD and AVS

The responses that are received from CVD and AVS verifications are intended to provide added security and fraud prevention, but the response itself will not affect the completion of a transaction. Upon receiving a response, the choice to proceed with a transaction is left entirely to the merchant.

Please note that all responses coming back from these verification methods are not direct indicators of whether a merchant should complete any particular transaction. The responses should <u>not</u> be used as a strict guideline of which transaction will approve or decline.



Please note that CVD verification is only applicable towards Visa, MasterCard and AmEx transactions.

Also, please note that AVS verification is only applicable towards Visa, MasterCard, and Discover transactions. This verification method is <u>not</u> applicable towards AmEx or any other card type.

030012

Appendix H. Sample Receipt 20.

Your order has been Approved Print this receipt for your records

> QA Merchant #1 3250 Bloor St West Toronto Ontario M8X2X9

1 800 987 1234 www.moneris.com

Transaction Type: Purchase

Order ID: mhp3495435587

Date/Time: 2002-10-18 11:27:48 Approval Code: Sequence Number: 660021630012090020 Response / ISO Code: 028/04

12.00 APPROVED * = Amount:

| Item | Description | Qty | Amount | Subtotal |
|---------|--------------|-----|-----------|-----------|
| cir-001 | Med Circle | 1 | 2.00 | 2.00 |
| tri-002 | Big triangle | 1 | 1.00 | 1.00 |
| squ-003 | small square | 2 | 1.00 | 3.00 |
| | | | | |
| | | | Shipping: | 4.00 |
| | | | GST : | 1.00 |
| | | | PST : | 1.00 |
| | | | Total: | 12.00 CAD |

Ship To: Bill To:

Test **Test Customer**

1 King St 123 Main St Bakersville Springfield ON ON Canda Canada M1M 1M1 M1M 1M1 tel: 416 555 2222

tel: 416 555 1111 fax: 416 555 2222 fax: 416 555 1111

Special Instructions

Knock on Back door when delivering

E-Mail Address:eselectsupport@moneris.com

Refund Policy

 $30\ \mathsf{Days}$ - Must be unopened, 10% restocking charge.

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