

# **1stPayGateway.net, LLC**

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**PRODUCT: Payment Module Gateway**

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# TABLE OF CONTENTS

- 1.1. Scope .....4
- 1.2. Product Description.....4
- 1.3. Intended Audience .....4
- 2. Definitions.....5
  - 2.1. Operation Types .....5
  - 2.2. Initial QueryString Parameters/Field Definitions .....5
- 3. API Specifications.....12
  - 3.1. Requirements for PM Utilization.....12
  - 3.2. Auth/Sale Credit Card Operations - ACH Debit Operations .....13
    - 3.2.1. Auth/Sale Credit Card E-commerce .....13
      - 3.2.1.1. URL for E-commerce Auth/Sale .....14
    - 3.2.2. Auth/Sale Credit Card Retail (Card Present) .....15
      - 3.2.2.1. URL for Retail (Card Present) Auth/Sale .....16
    - 3.2.3. ACH Debit.....18
      - 3.2.3.1. URL for ACH Debit.....18
    - 3.2.4. Auth/Sale with Level II (B2B) Support.....19
      - 3.2.4.1. URL for Level II B2B transaction .....19
    - 3.2.5. Auth/Sale with Additional and Custom Fields Support.....20
      - 3.2.5.1. URL for Additional Fields transaction .....20
      - 3.2.5.2. URL for Custom Additional Fields transaction .....20
    - 3.2.6. Auth/Sale Level III Data Support .....21
      - 3.2.6.1. URL Level III Data Support transaction .....22
    - 3.2.7. Auth/Sale/ACH Debit/Credit CIM (Customer Information Management) Support .....24
      - 3.2.7.1. URL E-commerce Auth/Sale CIM (New Customer) transaction.....25
      - 3.2.7.2. URL ACH Debit CIM (New Customer) transaction .....25
    - 3.2.8. Auth/Sale Recurring Billing Support.....27
      - 3.2.8.1. URL E-commerce Auth/Sale Recurring Billing transaction .....28
    - 3.2.9. Dual Operation Support ACH/CC on same page .....28
    - 3.2.10. Auth/Sale Responses .....29
  - 3.3. Credit Operations .....33
    - 3.3.1. Retail (Card Present) Single Transaction Credit .....33
    - 3.3.2. ACH Credit.....34
      - 3.3.2.1. URL for ACH Credit .....35
    - 3.3.3. Credit Response .....35
  - 3.4. CIM Operations .....37
    - 3.4.1. CIM INSERT Create Customer .....37
    - 3.4.2. CIM INSERT Transaction Response .....38
- 4. Error Responses .....39
- 5. Changing the Payment Module’s Look with CSS .....39
- 6. Test Authorization Account Information .....39
- 7. Sample Code .....41
  - 7.1.1. Embedded HTML Sample for E-commerce Auth .....41
  - 7.1.2. MD5 Hash Value Generation .....42

## Introduction

The purpose of this document is to outline the technology and processes that drive the Web-Based Payment Module, referred to as PM in the sections below. The Payment Module or PM provides a secure web-based interface into the gateway transaction processing. The end-user, after reading this document, should have sufficient knowledge based on the documentation and working samples provided to successfully integrate their business with this PM.

### **1.1. Scope**

This specification will walk the reader through the each type of transaction supported by the PM. A detailed description of each acceptable input parameter will be documented along with example responses. There will be sample code provided in section 6 and screen shots throughout the document depicting the PM in use.

### **1.2. Product Description**

The PM is a web page interface that resides on transaction servers which communicate directly to credit card processing networks. The interface does not require any programming skills. If you know how to type a URL into a web browser to access a webpage, then you have the skills required to use this PM.

The PM accepts the card purchasers information, including credit card information, billing address, total charge amount and order id and produces an authorization or decline directly from the merchant bank. The PM provides methods to perform the following operations: ECOM AUTH, ECOM SALE, RETAIL AUTH, RETAIL SALE, RETAIL CREDIT, MOTO AUTH, MOTO SALE, ACH DEBIT, ACH CREDIT and CIM INSERT.

The PM can be accessed directly via most web browsers such as Internet Explorer or FireFox. It can also be embedded within a web page using an IFRAME. Details about how to use each method will be provided.

URL for Payment Module:

**<https://secure.1stpaygateway.net/secure/gateway/pm.aspx>**

Operational process:

1. The PM is loaded as a stand-alone web page or embedded in a frame on the client's web page.
2. The interface rendered to the end user will be based on the configuration parameters contained in the URL loaded.
3. The user will fill out the form by entering the required fields and any optional fields they wish to provide data for and then submit it for processing by clicking the button shown.
4. The transaction server will evaluate the incoming request and provide the result to the user as requested.

### **1.3. Intended Audience**

This document is written exclusively for the use of approved merchants of 1stPayGateway, LLC. It is intended to assist merchants with the task of integrating their business solution with products offered or approved for integration with 1stPayGateway's secure gateway processing networks.

## 2. Definitions

### 2.1. Operation Types

Operation Type	Description
<a href="#">ECOM_AUTH</a>	An ECOM_AUTH operation produces a transaction that reserves the funds on a customer's credit card. The ECOM_AUTH transaction must be settled in order to receive the funds. Ecommerce transactions require an Ecommerce merchant account.
<a href="#">ECOM SALE</a>	An ECOM_SALE operation produces a transaction that authorizes and captures the funds for settlement. Ecommerce transactions require an Ecommerce merchant account.
<a href="#">MOTO_AUTH</a>	A MOTO_AUTH operation produces a transaction that reserves the funds on a customer's credit card. The MOTO_AUTH transaction must be settled in order to receive the funds. MOTO transactions require a MOTO merchant account.
<a href="#">.MOTO SALE</a>	A MOTO_SALE operation produces a transaction that authorizes and captures the funds for settlement. MOTO transactions require a MOTO merchant account.
<a href="#">RETAIL_AUTH</a>	A RETAIL_AUTH operation produces a transaction that reserves the funds on a customer's credit card. The RETAIL_AUTH transaction must be settled in order to receive the funds. Retail transactions require a Retail merchant account.
<a href="#">RETAIL SALE</a>	A RETAIL_SALE operation produces a transaction that authorizes and captures the funds for settlement. Retail transactions require a Retail merchant account.
<a href="#">RETAIL CREDIT</a>	A RETAIL_CREDIT operation produces a transaction that is a credit performed on new transactions that have never been processed through the gateway. Retail transactions require a Retail merchant account.
<a href="#">ACH DEBIT</a>	An ACH_DEBIT operation produces a transaction that debits a bank checking or savings account.
<a href="#">ACH CREDIT</a>	An ACH_CREDIT operation produces a transaction that credits a bank checking or savings account.
DUAL	Used by accounts that can accept ACH and CC transactions. Will allow the customer to choose the desired payment method inside the web portal. Only supports auth (debit) / sale operation types.
<a href="#">CIM_INSERT</a>	A CIM_INSERT operation allows a customer to be inserted into the CIM without first charging a customer.

### 2.2. Initial QueryString Parameters/Field Definitions

Field Name	Field Type	Field Length	Description
<b>Required Section</b>			
transaction_center_id	Int	9	Unique identifier assigned by gateway. This is your unique Transaction Center number, not your 16 digit Merchant ID.
Embedded	String	Varchar(20)	Specifies how the PM is used. Supported values: no, frame. Default: no
operation_type	String	Varchar(20)	String specifying operation attempting to be run. Must be

			one of the supported operation types: ECOM_AUTH, ECOM_SALE, MOTO_AUTH, MOTO_SALE, ACH_DEBIT, ACH_CREDIT, RETAIL_AUTH, RETAIL_SALE, RETAIL_CREDIT, CIM_INSERT, DUAL
<b>Semi-optional Transaction Details Section</b>			
<b>mid</b>	String	Varchar(50)	Specific merchant number or firstfund username for the transaction to be processed under. This is only applicable if you have multiple accounts associated with your transaction_center_id.
<b>tid</b>	String	Varchar(50)	Specific terminal number this transaction. This is required if the mid is supplied and it is not an ACH transaction.
<b>processor</b>	String	Varchar(50)	Processor for the mid/tid combination supplied. Must be one of the follownig: echeck,paymentech,nova, fdc, vital, fifththird  This is required if the mid is supplied and it is not an ACH transaction.
<b>processor_id</b>	Int		This can be used in place of mid/tid/processor. This value is available in the transaction center.
<b>operation_type1</b>	String	Varchar(50)	Dual operation support. Must be one of following: ECOM_AUTH, ECOM_SALE, MOTO_AUTH, MOTO_SALE, RETAIL_AUTH, RETAIL_SALE
<b>mid1</b>	String	Varchar(50)	Specific merchant number or firstfund username for the transaction to be processed under. This is only applicable if you have multiple accounts associated with your transaction_center_id.
<b>tid1</b>	String	Varchar(50)	Specific terminal number this transaction. This is required if the mid is supplied and it is not an ACH transaction.
<b>processor1</b>	String	Varchar(50)	Sandbox, globaleast, paymentech,nova, fdc, vital, fifththird
<b>processor_id1</b>	Int		This can be used in place of mid/tid/processor. This value is available in the transaction center.
<b>operation_type2</b>	String	Varchar(50)	Dual operation support. Must be one of following: ACH_DEBIT
<b>mid2</b>	String	Varchar(50)	Specific merchant number or firstfund username for the transaction to be processed under. This is only applicable if you have multiple accounts associated with your transaction_center_id.
<b>tid2</b>	String	Varchar(50)	n/a
<b>processor2</b>	String	Varchar(50)	Fnms, sandbox_echeck, echeck
<b>processor_id2</b>	Int		This can be used in place of mid/tid/processor. This value is available in the transaction center.
<b>operation_type_default</b>	string	Varchar(5)	ACH or CC, default is CC. This is used when operation_type=default. It determines which payment type is asked for first.
<b>cim_ref_num</b>	String	Varchar(75)	Unique alpha-numeric value used to identify the card holder as a customer. Required for CIM_INSERT. If passed in for another operation type and the cim_ref_num supplied matches a previous customer, the billing info will be pre-populated.
<b>order_id</b>	String	Varchar(50)	Unique order id or invoice number. Cannot contain "insert", "update" or "delete".

<b>auto_oid</b>	Boolean	Bit	Used to automatically generate a unique Order ID on the form load. This can be used instead of passing the order_id field.
<b>total</b>	Numeric	(9,2)	Amount in US dollars. No dollar signs (\$) or commas allowed.
<b>tax_amount</b>	Numeric	(9,2)	Amount in US dollars. No dollar signs (\$) or commas allowed.
<b>security_hash</b>	String	Varchar(32)	<p>MD5 hash used to check for forged URLs. Hash must be generated from values passed in this order: transaction_center_id, embedded, operation_type, total, cim_ref_num and gateway_id.</p> <p>The Gateway ID value should be Upper-cased before computing the MD5 hash value.</p> <p>The gateway id is not passed in to the PM.</p> <p><b>This field is required by default.</b> To opt out of this security measure, contact support.</p>
<b>security_hash1</b>	String	Varchar(32)	<p>MD5 hash used to check for forged URLs. Hash must be generated from values passed in this order: transaction_center_id, embedded, operation_type1, total, cim_ref_num and gateway_id.</p> <p>The Gateway ID value should be Upper-cased before computing the MD5 hash value.</p> <p>The gateway id is not passed in to the PM.</p> <p><b>This field is required by default if operation_type = dual.</b> To opt out of this security measure, contact support.</p>
<b>security_hash2</b>	String	Varchar(32)	<p>MD5 hash used to check for forged URLs. Hash must be generated from values passed in this order: transaction_center_id, embedded, operation_type2, total, cim_ref_num and gateway_id.</p> <p>The Gateway ID value should be Upper-cased before computing the MD5 hash value.</p> <p>The gateway id is not passed in to the PM.</p> <p><b>This field is required by default if operation_type = dual.</b> To opt out of this security measure, contact support.</p>
<b>Optional Card Data Section</b>			
<b>cc_validate</b>	Boolean	Bit	<p>Set the value to 1 for doing small pre- authorizations to determine a valid card, AVS or CVV2. The Transaction will be immediately voided.</p> <p>This field is NOT required for any other authorizations.</p>
<b>card_sequence</b>	Int	9	<p>Only used for CIM transactions that correspond to a previous customer. This will result in the Credit Card data being pre-populated for this transaction.. This can be left blank in most cases unless your customer has multiple Credit Card accounts defined and you want to pre-populate the form with an account other than the default.</p>

close_date	Varchar	(8)	The date the transaction is intended to post. Format: MM/DD/YY
<b>Optional Partial Billing Section</b>			
partial_id	Numeric	(20,0)	This numeric value is returned for partially approved transactions. It is used to tie subsequent transactions together to make up the larger transaction.
prevent_partial	Boolean	Bit	0 or 1 – indicates if a partial approval is allowed for this transaction. If this is set to 1 then a partially approved transaction will be rejected. This is 0 by default.
total_original	Numeric	(9,2)	Amount in US dollars representing the total amount this transaction set should equal
total_current	Numeric	(9,2)	Amount in US dollars that this partial transaction set has currently been billed.
<b>Optional ACH Data Section</b>			
close_date	Varchar	(8)	The date the transaction is intended to post. Format: MM/DD/YY
ach_sequence	Int	9	Only used for CIM transactions that correspond to a previous customer. This will result in the ACH data being pre-populated for this transaction. This can be left blank in most cases unless your customer has multiple ACH accounts defined and you are want to pre-populate the form with an account other then the default.
<b>Optional Cardholder/ACH/Customer Billing Section</b>			
Name	String	Varchar (75)	Card holder/ACH account name
Street	String	Varchar (250)	Billing street address
street2	String	Varchar (250)	Billing street address 2
City	String	Varchar (100)	Billing city
State	String	Varchar (100)	Billing state
Zip	String	Varchar (20)	Billing zipcode
Country	String	Varchar (200)	Billing country
Email	String	Varchar (300)	Billing email address
Phone	String	Varchar (25)	Billing phone number
<b>Options Shipping Information (level_iii_on only)</b>			
shipping_name	String	Varchar (75)	
shipping_street	String	Varchar (250)	
shipping_street2	String	Varchar (250)	
shipping_city	String	Varchar (100)	
shipping_state	String	Varchar (100)	
shipping_zip	String	Varchar (20)	
shipping_country	String	Varchar (200)	
shipping_email	String	Varchar (300)	
shipping_phone	String	Varchar (25)	
shipping_method	String	Varchar(50)	
shipping_sequence	Int		Only used for CIM transactions that correspond to a previous customer. This will result in the Shipping data being pre-populated for this transaction. This can be left blank in most cases unless your customer has multiple Shipping accounts defined and you are want to pre-populate the form with an account other then the default
<b>GUI Configuration Parameters</b>			
cim_on	Boolean	Bit	0 or 1 – indicates if customer should be added to the CIM

			after transaction is processed. Requires CIM to be enabled for merchant's account.
<b>auto_sequence</b>	Boolean	Bit	0 or 1 – when set to 1 and a cim_ref_num is passed without any corresponding card, ach or shipping sequence parameters, the gateway will automatically attempt to pull a previously stored sequence for the customer and default to that. Only valid if cim_on is set to 1.
<b>cim_condensed</b>	Boolean	Bit	0 or 1 – when set to 1 and a previously created cim_ref_num is passed, the form will condense all the input areas and display them as read only or radio button based options for the customer to choose. If a card, ach or shipping sequence is passed, that section will be forced to use that sequence. Only valid if cim_on is set to 1.
<b>country_list</b>	String	Varchar(1000)	CSV list of countries. This will result in a dropdown menu shown for all country input sections that only contain the countries passed in.
<b>recurring_on</b>	Boolean	Bit	0 or 1 – indicated if dropdown should be shown so the transaction can be set to a supported recurring type.
<b>show_recurring_dates</b>	Boolean		0 or 1 – only applicable if recurring_on = 1 If 1, a start and stop date entry box will be shown below the recurring frequency. These dates do NOT prevent the initial billing. You can use the close date with the recurring options to schedule the first charge in the future and then have it recur after that if desired.
<b>show_cc_close_date</b>	Boolean		0 or 1 – only applicable for credit card transactions not ACH If 1 will show a close_date entry box that will allow a cc txn to be scheduled for a future date of processing
<b>level_ii_on</b>	Boolean	Bit	0 or 1 Will allow B2B entry fields to be used.
<b>level_iii_on</b>	Boolean	Bit	0 or 1 – Will provide shipping information entry area. Requires Level III to be enabled for merchant's account.
<b>level_iii_items_on</b>	Boolean	Bit	0 or 1 – Will provide entry fields for items being purchased. Required level_iii_on = 1
<b>b2s_auto</b>	Boolean	Bit	0 or 1 – Will fill in the shipping fields with whatever is in the billing fields automatically. The shipping fields will be set as readonly. This is only used when level_iii_on = 1
<b>readonly</b>	Boolean	Bit	0 or 1 – Any field with a default value will be uneditable. This is useful when pre-populating the form with values you do not want the user to be able to change.
<b>swiper_on</b>	Boolean	Bit	0 or 1 Will prompt user to swipe card when form is loaded. Only applicable for retail transactions.
<b>additional_fields_on</b>	Boolean	Bit	0 or 1 Will provide additional field entry fields if any are set up. Additional fields are configurable in the Transaction Center.
<b>sidebyside</b>	Boolean	Bit	0 or 1 – If 1 then the form is positioned horizontally. This means that the shipping info and additional field area will be shown to

			the right of the billing and ordering information.
<b>voice_auth_on</b>	Boolean	Bit	0 or 1 Will provide a voice authorization entry box on the form so a voice authorization can be processed.
<b>billing_info_required</b>	Boolean	Bit	0 or 1 If set to 1 then the name, street, city, state, country, phone and email are required in addition to the zipcode which is always required.
<b>shipping_info_required</b>	Boolean	Bit	0 or 1 This only applies when level_iii_on =1 It will require the shipping name, street, city, state, country, zipcode, phone and email to be required
<b>order_information_header</b>	String	Varchar(250)	Allows the 'Order Information' header to be renamed
<b>customer_information_header</b>	String	Varchar(250)	Allows the 'Customer Billing Information' header to be renamed
<b>shipping_information_header</b>	String	Varchar(250)	Allows the 'Shipping Information' header to be renamed
<b>card_information_header</b>	String	Varchar(250)	Allows the 'Credit Card Information' header to be renamed
<b>bank_information_header</b>	String	Varchar(250)	Allows the 'Bank Account Information' header to be renamed
<b>show_military_help</b>	Boolean	Bit	0 or 1 – If 1 then the form will show a link beneath the Customer Information and Shipping Information headers that will display a modal window explaining how to properly enter in a military address.
<b>show_cvv2_help</b>	Boolean	Bit	0 or 1 – If 1 then the form will show a link beneath the CVV2 field that will display a modal window explaining what the CVV2 code is.
<b>is_intl</b>	Boolean	Bit	0 or 1 – If 1 the state field will allow up to 3 characters instead of 2 and will be titled as "Region" instead of "State"
<b>Result Notification Parameters</b>			
<b>respond_inline</b>	Boolean	Bit	0 or 1  All responses will be shown directly to the end user on the page without doing any redirection.  Downside - Merchant will have no way of being notified about the transaction outcome.  Upside – no custom response handling is needed.  If this is true and respond_hidden is false then the url params will be ignored.  If this is false and respond_hidden is false then the url params will be used for redirecting the visitor.
<b>respond_hidden</b>	Boolean	Bit	0 or 1  This will cause the program to do a web request to the URL specified in the URL parameter used behind the scenes instead of redirecting.

			<p>No redirect will occur.</p> <p>The merchants program will need to process the incoming request and do something with it on their end.</p> <p>This is used ONLY when using INLINE as it will allow the merchant's site to be aware of the outcome.</p>
<b>url_redirect</b>	String	Varchar(500)	<p>Page to send response to. Useful if success and reject results are sent to the same location.</p> <p>Required if url_success and url_cancel are not used and respond_inline and respond_hidden are not 1.</p> <p>Required if url_success and url_cancel are not used and respond_hidden is 1.</p>
<b>url_success</b>	String	Varchar(500)	Page to send customer upon successful order.
<b>url_reject</b>	String	Varchar(500)	<p>Page to send customer upon declined order.</p> <p>This is not used when an error or validation failure occurs.</p>
<b>email_customer</b>	Boolean	Bit	<p>0 or 1</p> <p>If set to 1 and the customer email is submitted with the transaction, an invoice will be sent to them.</p>
<b>merchant_name</b>	String	Varchar(25)	<p>Short merchant name that is passed to the processor during settlement and will show up on the customer's statement. This is not supported by all processors. Contact support for more information.</p>
<b>merchant_email</b>	String	Varchar(100)	<p>Email address that a receipt of this transactions should be sent. This should be an email you, the merchant, have access to. This will generate the same email the customer would receive if the email_customer flag was set to 1</p>
<b>header_email_receipt</b>	String	Varchar(250)	<p>Text which will appear at the top of the emailed receipt such as your business name and phone number. This must be URL encoded when passed in.</p>
<b>footer_email_receipt</b>	String	Varchar(250)	<p>Text which will appear at the bottom of the emailed receipt. This must be URL encoded when passed in.</p>

**NOTES:**

Shipping data is only available for accounts with level III enabled

ACH transactions can only be run if you have an ACH account.

CIM can only be used if you have CIM enabled on your account.

Retail Transactions can only be run if you have a RETAIL account.

Contact support or your sales rep to enable these features or to find out if they are already if you do not know.

The following URL can be used for **url\_redirect**, **url\_success** or **url\_reject** if **respond\_hidden** and **respond\_inline** are set to 0: <https://secure.1stpaygateway.net/secure/gateway/pmredirect.aspx>. This technique is useful for integrations that

emulate a browser such as a console application. This will only be used for very advanced integrations of the Payment Web Portal. Most implementations that use the redirect parameters will pass a URL that resides on a server you control. This hosted landing page will output key-value pairs, which the invoking software can parse internally and then show the result to your customers. An example of the output can be viewed here in this simulated redirect response:

**`https://secure.1stpaygateway.net/secure/gateway/pmredirect.aspx?avs_response=&success=False&reference_number=4299&cvv2_response=&auth_response=Declined&auth_code=&error_message=&total=1.00&zip=08035&card_exp_mm=06&card_exp_yy=19&card_type=Visa&card_num4=1111`**

#### **How to compute the security\_hash?**

The security hash is a one way hash value used to validate the request. In order to generate the MD5 hash value, the program that loads the payment web portal should calculate the value server-side and pass it into the portal. The reason this should be done server-side is so the gateway id is not exposed to the customer and remains secret.

The hash must be generated using the following parameters in the exact order specified: **transaction\_center\_id, embedded, operation\_type, total, cim\_ref\_num and gateway\_id**. If one or more of the parameters is not supplied when you load the portal, leave it blank in the string used to generate the MD5 hash. The gateway id value should be upper-cased prior to computing the hash value.

If you load the payment web portal using the following parameters:

**`transaction_center_id=1264&embedded=no&operation_type=retail_auth&total=1.00&cim_ref_num=`**

And your gateway id is: **`5A3E0A0F-678C-42A5-87F9-D97D0D0FEC94`**

The MD5 hash would be generated from the following string:

**`1264noretail_auth1.005A3E0A0F-678C-42A5-87F9-D97D0D0FEC94`**

The resulting MD5 hash value which you would pass in as the **security\_hash** parameter would be:

**`2EF3077DA1503328B19B81757334AF16`**

The sample code section will show a few methods that can be used to generate this MD5 hash value.

## **3. API Specifications**

### **3.1. Requirements for PM Utilization**

1. Transaction Center ID
  - a. Numeric access key assigned by 1stPayGateway
  - b. Unique to merchant
  - c. Cannot be changed
  - d. Required for API integration
2. Gateway ID
  - a. Alpha-numeric passphrase assigned by 1stPayGateway
  - b. Can be changed via the Gateway Options area in the Transaction Center
  - c. Should be changed every 90 days to ensure security
  - d. Required for PM security
  - e. Retrieved from the Security Settings tab in the Transaction Center  
<https://secure.1stpaygateway.net/secure/transcenter/>

3. MID / TID /Processor or Processor ID
  - a. These parameters are only used for accounts that have multiple merchant accounts associated with a single transaction center id.
  - b. If your account has multiple ACH accounts and you want to specify which one to process a transaction under, simply submit the mid parameter with the 3 character ACH username you have been assigned for that account.
  - c. The values needed for each account can be found within your Transaction Center.
4. Secure URL  
https://secure.1stpaygateway.net/secure/gateway/pm.aspx
5. Development/Testing
  - a. Test account is available
  - b. Full test account information is documented in [section 5](#)

### 3.2. **Auth/Sale Credit Card Operations - ACH Debit Operations**

The AUTH/SALE Credit Card group of operations is the basic gateway function and the most commonly used function. These operation types are responsible for processing authorization only and sales on a customer's credit card.

Several variations of the AUTH/SALE operation type are available to be used. Each variation offers different features. Refer to their definitions below to decide which are most suitable for the integration desired. In addition, all authorization features can be combined into one message for example: E-commerce Auth Only, with Level III Data, Recurring Billing "Monthly", Additional Fields and CIM.

ACH Debit Operations will process a check transaction using the Automated Clearing House function. When an ACH Debit is initiated, the routing number is verified and the transaction is accepted. The ACH is assumed to be valid. The check will process on the specified date that is sent in the close\_date field. All ACH transactions that are posted prior to 4pm Eastern time, will process that day and funds should be available the next morning.

ACH transactions may be done as a CIM transaction as well as and or in addition to a recurring billing transaction. All additional functions of credit card transactions, additional fields, recurring billing and Level III data are available for each transaction.

#### 3.2.1. **Auth/Sale Credit Card E-commerce**

Fields utilized to attempt an auth and capture (ECOM\_SALE operation\_type) for e-commerce. This will generate a form for the user to enter their billing information and submit a credit card charge.

Field Name	Field Value	Required
<b>Transaction Header Section</b>		
transaction_center_id	Number	X
Embedded	"no" or "frame"	X
operation_type	"ecom_auth" or "ecom_sale"	X
mid	String	
tid	String	If mid
processor	String	If mid
processor_id	Int	Use in place of mid/tid/processor
<b>Transaction Details Section</b>		
order_id	String	

<b>total</b>	Money	
<b>Card Holder Billing Address Section</b>		
<b>name</b>	String	
<b>street</b>	String	
<b>street2</b>	String	
<b>city</b>	String	
<b>state</b>	String	
<b>zip</b>	String	
<b>country</b>	String	
<b>country_list</b>	String	
<b>email</b>	String	
<b>phone</b>	String	
<b>Response Handling Section</b>		
<b>respond_inline</b>	"0" or "1"	X
<b>respond_hidden</b>	"0" or "1"	X
<b>url_redirect</b>	String	X
<b>url_success</b>	String	
<b>url_reject</b>	String	
<b>email_customer</b>	"0" or "1"	
<b>merchant_name</b>	String	
<b>merchant_email</b>	String	
<b>header_email_receipt</b>	String	
<b>footer_email_receipt</b>	string	

### 3.2.1.1. URL for E-commerce Auth/Sale

#### E-commerce Sale (Auth and Capture) transaction

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_sale&respond\\_inline=0&respond\\_hidden=0&url\\_redirect=http://www.1stpaygateway.net](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_sale&respond_inline=0&respond_hidden=0&url_redirect=http://www.1stpaygateway.net)

(\* Required Fields)

**Order Information**

Order ID \*

Amount \*

**Customer Billing Information**

Name

Street

Street2

City

State

Zipcode \*

Country

Phone

Email

**Credit Card Information**

Card Number \*

Expiration Month \*

Expiration Year \*

CVV2 \*

**E-commerce Auth (Authorization only) transaction**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=0&respond\\_hidden=0&url\\_redirect=http://www.1stpaygateway.net](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_auth&respond_inline=0&respond_hidden=0&url_redirect=http://www.1stpaygateway.net)

**3.2.2. Auth/Sale Credit Card Retail (Card Present)**

Fields utilized to attempt an auth and capture (RETAIL\_SALE operation\_type) for retail. To validate a credit card for AVS/CVV2, add the key cc\_validate and set its value to 1. The cc\_validate function will authorize and then immediately void the charge.

**NOTE** – Retail Card Present “swiped” transactions never store Mag Data and CVV2/CVC/CID.

Field Name	Field Value	Required
<b>Transaction Header Section</b>		
transaction_center_id	Number	X
embedded	“no” or “frame”	X
operation_type	“retail_auth” or “retail_sale”	X
mid	String	

<b>tid</b>	String	If mid
<b>processor</b>	String	If mid
<b>processor_id</b>	Int	Use in place of mid/tid/processor
<b>Transaction Details Section</b>		
<b>order_id</b>	String	
<b>total</b>	Money	
<b>Credit Card Data Section</b>		
<b>cc_validate</b>	Bit	Optional 1=validate and void.
<b>swiper_on</b>	Bit	Optional 1=card present swipe allowed
<b>Card Holder Billing Address Section</b>		
<b>name</b>	String	
<b>street</b>	String	
<b>street2</b>	String	
<b>city</b>	String	
<b>state</b>	String	
<b>zip</b>	String	
<b>country</b>	String	
<b>country_list</b>	String	
<b>email</b>	String	
<b>phone</b>	String	
<b>Response Handling Section</b>		
<b>respond_inline</b>	"0" or "1"	X
<b>respond_hidden</b>	"0" or "1"	X
<b>url_redirect</b>	String	X
<b>url_success</b>	String	
<b>url_reject</b>	String	
<b>email_customer</b>	"0" or "1"	
<b>merchant_name</b>	String	
<b>merchant_email</b>	String	
<b>header_email_receipt</b>	String	
<b>footer_email_receipt</b>	string	

### 3.2.2.1. URL for Retail (Card Present) Auth/Sale

#### Retail Sale (Auth and Capture) with Mag Data transaction

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=retail\\_sale&respond\\_inline=0&respond\\_hidden=0&url\\_redirect=http://www.1stpaygateway.net&swiper\\_on=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=retail_sale&respond_inline=0&respond_hidden=0&url_redirect=http://www.1stpaygateway.net&swiper_on=1)

#### Retail Sale (Auth and Capture) with Keyed Card Data transaction

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=retail\\_sale&respond\\_inline=0&respond\\_hidden=0&url\\_redirect=http://www.1stpaygateway.net](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=retail_sale&respond_inline=0&respond_hidden=0&url_redirect=http://www.1stpaygateway.net)

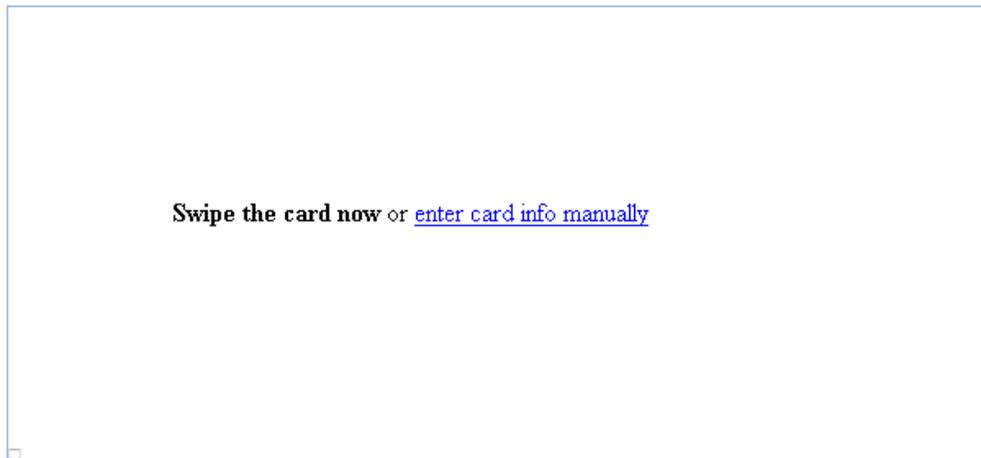
#### Retail Auth (Authorization Only) with Mag Data transaction

https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\_center\_id=1264&embedded=no  
&operation\_type=retail\_auth&respond\_inline=0&respond\_hidden=0&url\_redirect=http://www.1stpayga  
teway.net&swiper\_on=1

**Retail Auth (Authorization Only) with Keyed Card Data transaction**

https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\_center\_id=1264&embedded=no  
&operation\_type=retail\_auth&respond\_inline=0&respond\_hidden=0&url\_redirect=http://www.1stpayga  
teway.net

**Screen Shots**



(\* Required Fields)

**Order Information**

Order ID \*

Amount \*

**Customer Billing Information**

Name

Street

Street2

City

State

Zipcode \*

Country

Phone

Email

**Credit Card Information**

Card Swiped Yes ([Enter Manually](#))



### 3.2.3. ACH Debit

Fields utilized to attempt an ACH Debit (ACH\_DEBIT operation\_type).

Field Name	Field Value	Required
<b>Transaction Header Section</b>		
transaction_center_id	Number	X
embedded	"no" or "frame"	X
operation_type	"ach_debit"	X
mid	String	
<b>Transaction Details Section</b>		
order_id	String	
total	Money	
<b>ACH Data Section</b>		
close_date	String	
<b>Account Owner Data Section</b>		
name	String	
street	String	
street2	String	
city	String	
state	String	
zip	String	
country	String	
country_list	String	
email	String	
phone	String	
<b>Response Handling Section</b>		
respond_inline	"0" or "1"	X
respond_hidden	"0" or "1"	X
url_redirect	String	X
url_success	String	
url_reject	String	
email_customer	"0" or "1"	
merchant_name	String	
merchant_email	String	
header_email_receipt	String	
footer_email_receipt	string	

#### 3.2.3.1. URL for ACH Debit

**ACH (Debit) transaction**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ach\\_debit&respond\\_inline=1&respond\\_hidden=0](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ach_debit&respond_inline=1&respond_hidden=0)

Screen Shot

(\* Required Fields)

**Order Information**

Order ID \*

Amount \*

**Customer Billing Information**

Name \*

Street \*

Street2

City \*

State \*

Zipcode \*

Country \*

Phone

Email

**Bank Account Information**

Account Nickname \*

Account Type \*

Bank Routing Number \*

Must be 9 Digits

Account Number \*

ACH Category \*

Post Date

MM/DD/YYYY

### 3.2.4. Auth/Sale with Level II (B2B) Support

The Level II (B2B) Support Operation allows sales tax amount and shipping zip code to be passed for business to business card transactions. The merchant account must be set up to accept B2B transactions in order to use this operation type. The field types listed below will be included in a standard AUTH/SALE message.

Field Name	Field Value	Required
<b>Purchase Card Level II Data Section</b>		
level_ii_on	1	X
shipping_zip	String	
tax_amount	Money	

#### 3.2.4.1. URL for Level II B2B transaction

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=1&respond\\_hidden=0&level\\_ii\\_on=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_auth&respond_inline=1&respond_hidden=0&level_ii_on=1)

**Example (Authorization Only) B2B e-commerce transaction with defaults**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=1&respond\\_hidden=0&level\\_ii\\_on=1&shipping\\_zip=55555&tax\\_amount=2.36&total=10.00&order\\_id=Test](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_auth&respond_inline=1&respond_hidden=0&level_ii_on=1&shipping_zip=55555&tax_amount=2.36&total=10.00&order_id=Test)

### Screen Shot

Order Information	
Order ID *	Test
Amount *	\$10.00
Purchase Card	Yes
Tax Flag	Tax Provided
Sales Tax	2.36
Shipping Zipcode	55555

### 3.2.5. Auth/Sale with Additional and Custom Fields Support

The Additional Fields Support Operation allows for additional fields to be submitted as part of a regular AUTH/SALE request. The additional fields must either be set up beforehand in the Main Options section of the Transaction Center or posted to the web portal as Custom Additional Fields in the key=value pairs format, see section 3.2.5.2.

Field Name	Field Value	Required
<b>Additional/Custom Fields Section</b>		
<b>additional_fields_on</b>	1	X
<b>custom_additional_fields_on</b>	1	
<b>total_additional_fields</b>	Numeric	X (if custom_additional_fields_on=1)
<b>field_name1...N</b>	String	X
<b>field_value1...N</b>	String	X
<b>field_type1...N</b>	text, textarea, or checkbox	X
<b>field_required1...N</b>	1 or 0	X Use field_required to mark the input field as required on the form.

#### 3.2.5.1. URL for Additional Fields transaction

**Example: Auth (Authorization Only) Additional Fields e-commerce transaction**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=1&respond\\_hidden=0&additional\\_fields\\_on=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_auth&respond_inline=1&respond_hidden=0&additional_fields_on=1)

#### 3.2.5.2. URL for Custom Additional Fields transaction

Utilizing the custom additional fields function will disable the default additional fields setup through the transaction center.

**Note** – You must include the total\_additional\_fields parameter that indicates to the portal how many customer fields will be present. Also the key custom\_additional\_fields\_on must be present and the value must be a 1. Without those 2 fields being present, the custom additional fields will not show up.

Only the additional fields passed through the URL will be shown, see example below.

**Example: Auth (Authorization Only) Additional Fields e-commerce transaction**

https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\_center\_id=1264&embedded=no  
&operation\_type=ecom\_auth&respond\_inline=1&respond\_hidden=0&additional\_fields\_on=1&custom\_a  
dditional\_fields\_on=1&total\_additional\_fields=2&field\_name1=RMA&field\_value1=123456&field\_type1=  
text&field\_required1=1&field\_name2=Shipping&field\_value2=Yes&field\_type2=checkbox&field\_required  
2=1

All additional fields sent into the web payment portal will be echoed back in the response as key=value pairs.

**3.2.6. Auth/Sale Level III Data Support**

Level III Data Support is simply the ability to pass the data that supports level III transactions to the gateway for “storage” only.

**The gateway DOES NOT support Level III transactions for interchange compliance.**

The Level III Data Support Operation allows for all fields to be submitted that specify Level III data. **Level III Data Support must be enabled for the merchant account in order to use this operation type.**

Level III data support is composed of two parts: item information and shipping information. One or both sets can be submitted with a Level III data support AUTH/SALE operation. Item information is limited to a maximum of 5 line items per transaction.

**Important Note:** No calculations are performed on the line entry items. The item information is simply stored with the transaction. The amount specified in the total field is what will be charged. Level III data is not submitted to the processor for interchange compliance. It is simply for reference.

Field Name	Field Value	Required
<b>Transaction Item Level III Data Section</b>		
level_iii_on	1	X
level_iii_items_on	1	
b2s_auto	Boolean	
shipping_sequence	1	
<b>Shipping Address Data Section</b>		
shipping_name	String	
shipping_street	String	
shipping_street2	String	
shipping_city	String	
shipping_state	String	
shipping_zip	String	
shipping_country	String	
shipping_phone	String	
shipping_email	String	
shipping_method	String	

### 3.2.6.1. URL Level III Data Support transaction

#### Example Auth (Authorization Only) Level III e-commerce transaction with items

https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\_center\_id=####&embedded=no  
&operation\_type=ecom\_auth&respond\_inline=0&respond\_hidden=0&level\_iii\_on=1&level\_iii\_items\_on=1&url\_redirect=http://www.1stpaygateway.net

(\* Required Fields)

**Order Information**

Order ID \*

Amount \*

**Customer Billing Information**

Name

Street

Street2

City

State

Zipcode \*

Country

Phone

Email

**Shipping Information** (  Same as Billing Information)

Shipping Method   
UPS, Fedex, etc.

Name

Street

Street2

City

State

Zipcode

Country

Phone

Email

**Item Information**

Quantity	Number	Price	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Credit Card Information**

Card Number \*

Expiration Month \*

Expiration Year \*

CW2



**Example Auth (Authorization Only) Level III e-commerce transaction with items side by side**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=0&respond\\_hidden=0&level\\_iii\\_on=1&level\\_iii\\_items\\_on=1&url\\_redirect=http://www.1stpaygateway.net&sidebyside=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=no&operation_type=ecom_auth&respond_inline=0&respond_hidden=0&level_iii_on=1&level_iii_items_on=1&url_redirect=http://www.1stpaygateway.net&sidebyside=1)

(* Required Fields)		<b>Shipping Information</b> ( <input type="checkbox"/> Same as Billing Information)	
<b>Order Information</b>		Shipping Method	<input type="text"/>
Order ID *	<input type="text"/>	UPS, Fedex, etc.	
Amount *	<input type="text"/>	Name	<input type="text"/>
<b>Customer Billing Information</b>		Street	<input type="text"/>
Name	<input type="text"/>	Street2	<input type="text"/>
Street	<input type="text"/>	City	<input type="text"/>
Street2	<input type="text"/>	State	<input type="text"/>
City	<input type="text"/>	Zipcode	<input type="text"/>
State	<input type="text"/>	Country	<input type="text"/>
Zipcode *	<input type="text"/>	Phone	<input type="text"/>
Country	<input type="text"/>	Email	<input type="text"/>
Phone	<input type="text"/>	<b>Item Information</b>	
Email	<input type="text"/>	Quantity	Number
<b>Credit Card Information</b>		Price	Description
Card Number *	<input type="text"/>	<input type="text"/>	<input type="text"/>
Expiration Month *	<input type="text"/>	<input type="text"/>	<input type="text"/>
Expiration Year *	<input type="text"/>	<input type="text"/>	<input type="text"/>
CVV2	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Process Transaction"/> 			

**Example Auth (Authorization Only) Level III e-commerce transaction without items side by side**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=0&respond\\_hidden=0&level\\_iii\\_on=1&url\\_redirect=http://www.1stpaygateway.net&sidebyside=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=no&operation_type=ecom_auth&respond_inline=0&respond_hidden=0&level_iii_on=1&url_redirect=http://www.1stpaygateway.net&sidebyside=1)

(* Required Fields)		<b>Shipping Information</b> ( <input type="checkbox"/> Same as Billing Information)	
<b>Order Information</b>		Shipping Method	<input type="text"/>
Order ID *	<input type="text"/>	UPS, Fedex, etc.	
Amount *	<input type="text"/>	Name	<input type="text"/>
<b>Customer Billing Information</b>		Street	<input type="text"/>
Name	<input type="text"/>	Street2	<input type="text"/>
Street	<input type="text"/>	City	<input type="text"/>
Street2	<input type="text"/>	State	<input type="text"/>
City	<input type="text"/>	Zipcode	<input type="text"/>
State	<input type="text"/>	Country	<input type="text"/>
Zipcode *	<input type="text"/>	Phone	<input type="text"/>
Country	<input type="text"/>	Email	<input type="text"/>
Phone	<input type="text"/>		
Email	<input type="text"/>		
<b>Credit Card Information</b>			
Card Number *	<input type="text"/>		
Expiration Month *	<input type="text"/>		
Expiration Year *	<input type="text"/>		
CVV2	<input type="text"/>		
<input type="button" value="Process Transaction"/> 			

### 3.2.7. Auth/Sale/ACH Debit/Credit CIM (Customer Information Management) Support

CIM is short for Customer Information Management. CIM Operations allow additional fields to be submitted that specify a transaction to be stored permanently in the CIM database. When a transaction is submitted and stored in the CIM database, additional sales/authorizations may be submitted without the need for card holder/ach check data through the Transaction Center. CIM support must be enabled for the merchant account in order to use this operation type.

**NOTE** – Retail card present “swiped” transactions never store Mag Data and CVV2/CVC/CID. Only the card number and expiration will be retained for a future authorization performed against the CIM record.

A CIM record can have 0 or more shipping addresses associated. The merchant can pass in the specified shipping fields to create or update the specified shipping address for the customer record or they can be omitted to not create or update any shipping information for the customer tied to the <cim\_ref\_num>.

The CIM spec provides a method to send in a new transaction and store it in the CIM or to insert a new CIM record without processing a transaction.

**Important Note:** The <cim\_ref\_num> should be unique to the customer being billed. If the number is not unique it will cause an update to occur for the customer tied to that <cim\_ref\_num> already. It is intended to work this way to enable customer updates to occur in one step when new transactions are processed.

#### CIM Field Requirements for (New) Customer Transaction

Field Name	Field Value	Required
<b>Transaction Header Section</b>		
transaction_center_id	Number	X
embedded	“no” or “frame”	X
operation_type	“ecom_auth”, “ecom_sale”, “moto_auth”, “moto_sale”, “retail_auth”, “retail_sale”, “retail_credit”, “ach_debit”, “ach_credit”,	X
mid	String	
tid	String	If mid and not ACH
processor	String	If mid and not ACH
processor_id	Int	Use in place of mid/tid/processor
<b>Transaction Details Section</b>		
order_id	String	
total	Money	
<b>CIM Details Section</b>		
cim_on	1	X
cim_ref_num	String	
ach_sequence	Int	
card_sequence	int	
shipping_sequence	int	
auto_sequence	Boolean	Used to auto pull existing

		sequences for ach, card and shipping if a specific one is not already passed.
<b>cim_condensed</b>	Boolean	Used to display the form as read only and radio box selectors for multiple sequences. Useful when no sequence is passed and sequence management is not actively maintained by the merchant software.
<b>Card Holder/ACH Owner Billing Address Section</b>		
<b>name</b>	String	
<b>street</b>	String	
<b>street2</b>	String	
<b>city</b>	String	
<b>state</b>	String	
<b>zip</b>	String	
<b>country</b>	String	
<b>country_list</b>	String	
<b>email</b>	String	
<b>phone</b>	String	
<b>Response Handling Section</b>		
<b>respond_inline</b>	"0" or "1"	X
<b>respond_hidden</b>	"0" or "1"	X
<b>url_redirect</b>	String	X
<b>url_success</b>	String	
<b>url_reject</b>	String	
<b>email_customer</b>	"0" or "1"	
<b>merchant_name</b>	String	
<b>merchant_email</b>	String	
<b>header_email_receipt</b>	String	
<b>footer_email_receipt</b>	string	

### 3.2.7.1. URL E-commerce Auth/Sale CIM (New Customer) transaction

**Example: Sale (Auth and Capture) CIM new customer e-commerce transaction**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=1&cim\\_on=1&cim\\_ref\\_num=1052484](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=no&operation_type=ecom_auth&respond_inline=1&cim_on=1&cim_ref_num=1052484)

**CIM Ref. Num.**

1052484

### 3.2.7.2. URL ACH Debit CIM (New Customer) transaction

**Example: ACH Debit CIM new customer ACH transaction**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=no&operation\\_type=ach\\_debit&respond\\_inline=1&cim\\_on=1&cim\\_ref\\_num=1052484](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=no&operation_type=ach_debit&respond_inline=1&cim_on=1&cim_ref_num=1052484)

CIM Ref. Num.

1052484

### 3.2.7.3. URL for CIM Condensed Option (Existing Customer)

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=frame&operation\\_type=ecom\\_auth&respond\\_inline=1&cim\\_on=1&cim\\_ref\\_num=123456&cim\\_condensed=1&auto\\_oid=1&total=1.00](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=frame&operation_type=ecom_auth&respond_inline=1&cim_on=1&cim_ref_num=123456&cim_condensed=1&auto_oid=1&total=1.00)

The above uses a cim\_ref\_num of 123456, this assumes that a previously created CIM record exists with that identifier.

Sample screen shot:

(\* Required Fields)

**Order Information**

Order ID \* 634651032661848750  
Amount \* \$1.00

**Customer Billing Information**

Bob Live  
123 New St  
Brea CA 92821  
7145551234  
bobt@tester.com

**Credit Card Information**

Your credit and debit cards	Expires on
<input checked="" type="radio"/>  <b>Visa</b> ending in 1321	10/23
<input type="radio"/>  <b>MasterCard</b> ending in 5465	01/13
<input type="radio"/>  <b>Amex</b> ending in 1231	01/13
<input type="radio"/>  <b>Visa</b> ending in 1111	02/14
<input type="radio"/>  <b>Visa</b> ending in 1110	01/15
<input type="radio"/> Add New Card	

**Process Transaction**

### 3.2.7.4. URL for CIM without condensed option (Existing Customer)

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=frame&operation\\_type=ecom\\_auth&respond\\_inline=1&cim\\_on=1&cim\\_ref\\_num=123456&auto\\_oid=1&total=1.00](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=frame&operation_type=ecom_auth&respond_inline=1&cim_on=1&cim_ref_num=123456&auto_oid=1&total=1.00)

The above uses a cim\_ref\_num of 123456, this assumes that a previously created CIM record exists with that identifier. You can see in the screen shot below, when cim\_condensed is not enabled, the input elements are editable for the customer.

Sample screen shot:

(\* Required Fields)

**Order Information**

Order ID *	634651038629661250
Amount *	\$1.00

**Customer Billing Information**

Name (first last)	<input type="text" value="Bob Live"/>
Street	<input type="text" value="123 New St"/>
Street2	<input type="text"/>
City	<input type="text" value="Brea"/>
State	<input type="text" value="CA"/>
Zipcode *	<input type="text" value="92821"/>
Country	<input type="text"/>
Phone	<input type="text" value="7145551234"/>
Email	<input type="text" value="bobt@tester.com"/>

**Credit Card Information**

Your credit and debit cards	Expires on
<input checked="" type="radio"/>  <b>Visa</b> ending in 1321	10/23
<input type="radio"/>  <b>MasterCard</b> ending in 5465 01/13	

### 3.2.8. Auth/Sale Recurring Billing Support

The Recurring Billing option will attempt an Auth or Sale transaction for e-commerce or retail and mark the transaction as a recurring payment. Recurring payment options are:

1. Daily
2. Weekly
3. Biweekly
4. Monthly
5. Bimonthly (Every other month)
6. Quarterly
7. Semiannually

8. Annually

**Recurring Billing Field Requirements.**

Field Name	Field Value	Required
<b>Recurring Billing Data Section</b>		
recurring_on	1	X
recurring_type	Daily - 1 Weekly - 2 Biweekly - 4 Monthly - 8 Bimonthly - 128 Quarterly - 16 Semiannually - 32 Annually - 64	
recurring_types	CSV to limit pulldown options. Pass in numeric values shown above to only show the specified options in the dropdown to the end-user.	

**3.2.8.1. URL E-commerce Auth/Sale Recurring Billing transaction**

**Example: Sale (Authorization Only) Recurring Billing e-commerce transaction Monthly**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=1&recurring\\_on=1&recurring\\_type=8](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_auth&respond_inline=1&recurring_on=1&recurring_type=8)

**Example: Sale (Authorization Only) Recurring Billing e-commerce transaction only showing Monthly**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=1&recurring\\_on=1&recurring\\_types=8](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_auth&respond_inline=1&recurring_on=1&recurring_types=8)

**Example: Sale (Authorization Only) Recurring Billing e-commerce transaction, no default recurring**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=ecom\\_auth&respond\\_inline=1&recurring\\_on=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=ecom_auth&respond_inline=1&recurring_on=1)

**Recurring Type**

One Time Only



**3.2.9. Dual Operation Support ACH/CC on same page**

The web portal can offer the viewer a choice of payment, either credit card or check, if the merchant's account supports both methods of payment.

To offer this, you pass the operation type as dual, and then define the attributes for the dual transaction variables that are associated with your account.

Below is an example:

pm.aspx?transaction\_center\_id=####&embedded=frame&operation\_type=dual&respond\_inline=1&&processor1=sandbox&processor2=sandbox\_echeck&operation\_type1=ecom\_auth&operation\_type2=ach\_debit

This will load a form configured to offer the customer a payment choice. The ACH information must be supplied in the mid2, operation\_type2 and processor2 fields. The credit card processing information must be supplied in mid1,tid1,operation\_typ1 and processor1 fields.

To ask your customer for ACH payment information first, pass operation\_type\_default=ach. The default primary payment method for dual payment forms is credit card.

If you are using the security hash, you need to pass in security\_hash1 and security\_hash2 which are generated according to the description in the previous section.

### 3.2.10. Auth/Sale Responses

Responses are sent in the form of an HTTP request to the URL provided in one of the following parameters: url\_redirect, url\_success or url\_reject.

Responses will only be sent to the desired URL if respond\_hidden = 1 or respond\_inline = 0.

#### Response for Credit Card/ACH Transactions (Non-CIM):

http://www.someurl.com/?success=True&cvv2\_response=&error\_message=&avs\_response=Z&reference\_number=31567&auth\_code=DEMO90&auth\_response=APPROVEDtotal=1.00cim\_ref\_num=order\_id=test051110name=bob%20testerstreet=123%20test%20rdstreet2=city=cityvillestate=pazip=19036country=usacell\_phone=work\_phone=phone=email=cim\_on=swipe\_on=additional\_fields\_on=level\_iii\_on=level\_iii\_items\_on=voice\_auth\_on=card\_type=visarecurring\_on=recurring\_type=cc\_validate=shipping\_name=shipping\_street=shipping\_street2=shipping\_city=shipping\_state=shipping\_zip=shipping\_country=shipping\_phone=shipping\_email=shipping\_method=close\_date=tax\_amount=level\_ii\_on=purchase\_card=customer\_reference\_number=local\_tax\_flag=

You can see there are several parameters relayed to the desired URL so that the merchant's software can store non-sensitive data about the transaction.

#### Available Parameters Sent

Parameter Name	Type	Case
total	Money	not avail. For cim_insert
cim_ref_num	String	Cim_on = 1
order_id	String	
name	String	
street	String	
street2	String	
city	String	
state	String	
zip	String	
country	String	
phone	String	
email	String	
cim_on	1 or 0	
swipe_on	1 or 0	
additional_fields_on	1 or 0	

level_ii_on	1 or 0	
level_iii_on	1 or 0	
level_iii_items_on	1 or 0	
b2s_auto	1 or 0	
sidebyside	1 or 0	
readonly	1 or 0	
country_list	string	
voice_auth_on	1 or 0	
recurring_on	1 or 0	
recurring_type	Int	
cc_validate	1 or 0	
close_date	Date	
shipping_name	String	
shipping_street	String	
shipping_street2	String	
shipping_city	String	
shipping_state	String	
shipping_country	String	
shipping_zip	String	
shipping_phone	String	
shipping_email	String	
shipping_method	String	
tax_amount	Money	
success	String	
card_type	string	
card_num4	Last 4 digits of card number	
card_exp_mm	2 digit month	
card_exp_yy	2 digit year	
auth_response	String	
auth_code	String	
reference_number	String	
avs_response	String	
cvv2_response	String	
is_partial	Boolean	1 if transaction was only partially approved
partial_id	String	Id for partial transaction set. Either echoed back if provided or if is_partial = 1
partial_amount	Numeric	Amount the current transaction was approved for
total_current	Numeric	Current total of approved transactions in partial transaction set
total_original	Numeric	Original amount that was passed in on first transaction that was partially approved and generated the partial_id
original_full_amount	Numeric	Original amount this

		transaction was trying to be processed for. This is not the same as total_original. This just applies to this 1 transaction.
available_balance	Numeric	Balance remaining on card if available. Used for Gift cards most of the time.
success_void	Boolean	1 if partial transaction was cancelled instead of providing more forms of payment to complete the transaction.
error_message	String	

**Email Receipts –**

Below is a sample email invoice generated from the portal when the email\_customer flag is set to 1 or the merchant\_email contains a valid email address.

Header Text

===== GENERAL INFORMATION =====

Merchant : Online Store  
Date/Time : 6/14/2011 12:18:56 PM  
Transaction ID : 1737

===== ORDER INFORMATION =====

Invoice Number : 1789589  
Description : Total : US 1.00  
Payment Method : Visa

===== BILLING INFORMATION =====

Name : Bob Tester  
Address : 123 Main St  
City : Philadelphia  
State/Province : PA  
Zip/Postal Code : 12345  
Country : USA  
Phone : 555-555-5555  
Email : customer@email.com

Footer Text

**ERROR –**

Error responses that were preliminary failures (transactions not sent to the processor) will not be handled the same way. These are shown directly to the User so they can correct the issues and try to process the Transaction again.

(* Required Fields)		<b>Shipping Information</b> ( <input type="checkbox"/> Same as Billing Information)	
<b>Order Information</b>		Shipping Method UPS, Fedex, etc.	<input type="text"/>
Order ID *	<input type="text"/>	Name	<input type="text"/>
		Street	<input type="text"/>
Amount *	<input type="text"/>	Street2	<input type="text"/>
		City	<input type="text"/>
<b>Customer Billing Information</b>		State	<input type="text"/>
Name	<input type="text"/>	Zipcode	<input type="text"/>
Street	<input type="text"/>	Country	<input type="text"/>
Street2	<input type="text"/>	Phone	<input type="text"/>
City	<input type="text"/>	Email	<input type="text"/>
State	<input type="text"/>		
Zipcode *	<input type="text"/>		
Country	<input type="text"/>		
Phone	<input type="text"/>		
Email	<input type="text"/>		
<b>Credit Card Information</b>			
Card Number *	<input type="text"/>		
Expiration Month *	<input type="text"/>		
Expiration Year *	<input type="text"/>		
CW2	<input type="text"/>		
<input type="button" value="Process Transaction"/>			

(\* Required Fields)

**Order Information**

Order ID \*  This field is required. The word update, delete, and insert are not allowed in the order id.

Amount \*  Must be a valid dollar amount.

**Customer Billing Information**

Name

Street

Street2

City

State

Zipcode \*  This field is required.

Country

Phone

Email

**Credit Card Information**

Card Number \*  This field is required.

Expiration Month \*  This field is required.

Expiration Year \*  This field is required.

CVV2



### 3.3. Credit Operations

Retail Credit transactions may be performed without a matching authorization and settle record. ACH Credit transactions may be performed at any time to move money into an existing bank account such as for payroll direct deposit.

*Note: ECOM and MOTO transactions can be credited through the transaction center but not through this gateway.*

#### 3.3.1. Retail (Card Present) Single Transaction Credit

The Retail Credit operation allows the merchant to credit a transaction that has NOT been previously run through the gateway. This must be enabled on the merchant's account before attempting.

Field Name	Field Value	Required
<b>Transaction Header Section</b>		
transaction_center_id	Number	X
embedded	"no" or "frame"	X
operation_type	"retail_credit"	X
mid	String	
tid	String	If mid
processor	String	If mid
processor_id	Int	Use in place of mid/tid/processor
<b>Transaction Details Section</b>		
order_id	String	X

total	Money	X
<b>Credit Card Data Section</b>		
swiper_on	"0" or "1"	Card present swipe allowed
<b>Card Holder Billing Address Section</b>		
name	String	
street	String	
street2	String	
city	String	
state	String	
zip	String	
country	String	
country_list	String	
email	String	
phone	String	
<b>Response Handling Section</b>		
respond_inline	"0" or "1"	X
respond_hidden	"0" or "1"	X
url_redirect	String	X
url_success	String	
url_reject	String	
email_customer	"0" or "1"	
merchant_name	String	
merchant_email	String	
header_email_receipt	String	
footer_email_receipt	string	

**Example: Retail Card Present (Single Credit) with swiper enabled**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=retail\\_credit&respond\\_inline=0&url\\_redirect=http://www.1stpaygateway.net&swiper\\_on=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=retail_credit&respond_inline=0&url_redirect=http://www.1stpaygateway.net&swiper_on=1)

**Example: Retail Card Present (Single Credit) with keyed card data**

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=1264&embedded=no&operation\\_type=retail\\_credit&respond\\_inline=0&url\\_redirect=http://www.1stpaygateway.net](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=no&operation_type=retail_credit&respond_inline=0&url_redirect=http://www.1stpaygateway.net)

### 3.3.2. ACH Credit

Fields utilized to attempt an ACH Credit (ACH\_CREDIT operation\_type).

Field Name	Field Value	Required
<b>Transaction Header Section</b>		
transaction_center_id	Number	X
embedded	"no" or "frame"	X
operation_type	"ach_credit"	X
mMid	String	
<b>Transaction Details Section</b>		
order_id	String	X
total	Money	X
<b>ACH Data Section</b>		
close_date	String	

Account Owner Data Section		
name	String	
street	String	
street2	String	
city	String	
state	String	
zip	String	
country	String	
country_list	String	
email	String	
phone	String	
Response Handling Section		
respond_inline	"0" or "1"	X
respond_hidden	"0" or "1"	X
url_redirect	String	X
url_success	String	
url_reject	String	
email_customer	"0" or "1"	
merchant_name	String	
merchant_email	String	
header_email_receipt	String	
footer_email_receipt	string	

### 3.3.2.1. URL for ACH Credit

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=no&operation\\_type=ach\\_credit&respond\\_inline=1](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=no&operation_type=ach_credit&respond_inline=1)

### 3.3.3. Credit Response

Responses are sent in the form of an HTTP request to the URL provided in one of the following parameters: url\_redirect, url\_success or url\_reject.

Responses will only be sent to the desired URL if respond\_hidden = 1 or respond\_inline = 0.

#### Response for Credit Card/ACH Transaction (Non-CIM)

[http://www.someurl.com/?success=True&cvv2\\_response=&error\\_message=&avs\\_response=Z&reference\\_number=31567&auth\\_code=DEMO90&auth\\_response=APPROVEDtotal=1.00cim\\_ref\\_num=order\\_id=tes t051110name=bob%20testerstreet=123%20test%20rdstreet2=city=cityvillestate=pazip=19036country=us acell\\_phone=work\\_phone=phone=email=cim\\_on=swipe\\_on=additional\\_fields\\_on=level\\_iii\\_on=level\\_iii\\_it ems\\_on=voice\\_auth\\_on=card\\_type=visarecurring\\_on=recurring\\_type=cc\\_validate=shipping\\_name=shippi ng\\_street=shipping\\_street2=shipping\\_city=shipping\\_state=shipping\\_zip=shipping\\_country=shipping\\_phon e=shipping\\_email=shipping\\_method=close\\_date=tax\\_amount=level\\_ii\\_on=purchase\\_card=customer\\_refe rence\\_number=local\\_tax\\_flag=](http://www.someurl.com/?success=True&cvv2_response=&error_message=&avs_response=Z&reference_number=31567&auth_code=DEMO90&auth_response=APPROVEDtotal=1.00cim_ref_num=order_id=tes t051110name=bob%20testerstreet=123%20test%20rdstreet2=city=cityvillestate=pazip=19036country=us acell_phone=work_phone=phone=email=cim_on=swipe_on=additional_fields_on=level_iii_on=level_iii_it ems_on=voice_auth_on=card_type=visarecurring_on=recurring_type=cc_validate=shipping_name=shippi ng_street=shipping_street2=shipping_city=shipping_state=shipping_zip=shipping_country=shipping_phon e=shipping_email=shipping_method=close_date=tax_amount=level_ii_on=purchase_card=customer_refe rence_number=local_tax_flag=)

You can see there are several parameters relayed to the desired URL so that the merchant's software can store non-sensitive data about the transaction.

#### Available Parameters Sent

Parameter Name	Type	Case
total	Money	not avail. For cim_insert

cim_ref_num	String	Cim_on = 1
order_id	String	
name	String	
street	String	
street2	String	
city	String	
state	String	
zip	String	
country	String	
phone	String	
email	String	
cim_on	1 or 0	
swipe_on	1 or 0	
additional_fields_on	1 or 0	
level_ii_on	1 or 0	
level_iii_on	1 or 0	
level_iii_items_on	1 or 0	
b2s_auto	1 or 0	
sidebyside	1 or 0	
readonly	1 or 0	
country_list	string	
voice_auth_on	1 or 0	
recurring_on	1 or 0	
recurring_type	Int	
cc_validate	1 or 0	
close_date	Date	
shipping_name	String	
shipping_street	String	
shipping_street2	String	
shipping_city	String	
shipping_state	String	
shipping_country	String	
shipping_zip	String	
shipping_phone	String	
shipping_email	String	
shipping_method	String	
tax_amount	Money	
success	String	
auth_response	String	
auth_code	String	
reference_number	String	
avs_response	String	
cvv2_response	String	
error_message	String	

**ERROR –**

Error responses that were preliminary failures (transactions not sent to the processor), will not be handled the same way. These are shown directly to the User so they can correct the issues and try to process the operation again.

### 3.4. *CIM Operations*

CIM operations are separate functions from the CIM authorization and sale warranting its own section in the documentation. The operations available under this API for CIM are CIM\_INSERT.

A CIM\_INSERT Operation allows the creation of a CIM account without first charging a customer. A CIM account can be created with Credit Card information and/or ACH information and Shipping information.

CIM records can be edited or deleted in the CIM section of the Transaction Center.

#### 3.4.1. CIM INSERT Create Customer

##### CIM Field Requirements Create Customer

Field Name	Field Value	Required
<b>Transaction Header Section</b>		
transaction_center_id	Number	X
embedded	"no" or "frame"	X
operation_type	"cim_insert"	X
<b>CIM Details Section</b>		
cim_ref_num	String	
<b>Response Handling Section</b>		
respond_inline	"0" or "1"	X
respond_hidden	"0" or "1"	X
url_redirect	String	X
url_success	String	
url_reject	String	

##### Example: URL CIM INSERT

[https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction\\_center\\_id=####&embedded=no&operation\\_type=cim\\_insert&respond\\_inline=0&url\\_redirect=http://www.1stpaygateway.net](https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=####&embedded=no&operation_type=cim_insert&respond_inline=0&url_redirect=http://www.1stpaygateway.net)

(\* Required Fields)

CIM Ref. Num. \*

**Credit Card Information**

Card Type

Card Number

Expiration Month

Expiration Year

**ACH Information**

Account Nickname

Account Type

Bank Routing Number   
Must be 9 digits

Account Number

**Billing Information**

Name \*

Street

Street2

City

State

Zipcode

Country

Phone

Email

**Shipping Information**

Shipping Method   
UPS, Fedex, etc.

Name

Street

Street2

City

State

Zipcode

Country

Phone

Email



### 3.4.2. CIM INSERT Transaction Response

#### Returned for Operation Type Cim\_Insert:

Responses are sent in the form of an HTTP request to the URL provided in one of the following parameters: url\_redirect, url\_success or url\_reject.

Responses will only be sent to the desired URL if respond\_hidden = 1 or respond\_inline = 0.

[http://www.someurl.com/?success=True&error\\_message=&cim\\_ref\\_num=&name=bob%20tester&street=123%20test%20rd&street2=&city=cityville&state=pa&zip=19036&country=usa&cell\\_phone=&work\\_phone=&phone=&email=&cim\\_on=1&swipe\\_on=&additional\\_fields\\_on=&level\\_ii\\_items\\_on=&voice\\_auth\\_on=&card\\_type=visa&recurring\\_on=&recurring\\_type=&cc\\_validate=&shipping\\_name=&shipping\\_street=&shipping\\_street2=&shipping\\_city=&shipping\\_state=&shipping\\_zip=&shipping\\_country=&shipping\\_phone=&shipping\\_email=&shipping\\_method=&close\\_date=&tax\\_amount=&level\\_ii\\_on=&purchase\\_card=&customer\\_reference\\_number=&local\\_tax\\_flag=](http://www.someurl.com/?success=True&error_message=&cim_ref_num=&name=bob%20tester&street=123%20test%20rd&street2=&city=cityville&state=pa&zip=19036&country=usa&cell_phone=&work_phone=&phone=&email=&cim_on=1&swipe_on=&additional_fields_on=&level_ii_items_on=&voice_auth_on=&card_type=visa&recurring_on=&recurring_type=&cc_validate=&shipping_name=&shipping_street=&shipping_street2=&shipping_city=&shipping_state=&shipping_zip=&shipping_country=&shipping_phone=&shipping_email=&shipping_method=&close_date=&tax_amount=&level_ii_on=&purchase_card=&customer_reference_number=&local_tax_flag=)

## 4. Error Responses

Malformed fields or bad requests in all cases will be returned online directly to the end-user. This will allow the User to correct any mistakes before submitting the form again.

## 5. Changing the Payment Module's Look with CSS

This is an advanced feature of the Payment Module and will require knowledge of HTML and CSS. You can read about CSS here: <http://www.w3schools.com/css/>.

This may be disabled for your account if your account was boarded by a branded cart.

The PM is completely stylized using CSS. This CSS can be modified in your Transaction Center under the Security Settings->Gateway Options tab. The class name and stylized element id's used are shown in the table below.

The default CSS can be viewed here: [https://secure.1stpaygateway.net/css/gateway\\_pm.css](https://secure.1stpaygateway.net/css/gateway_pm.css)

Class / ID Name	What it controls
.error-message	Error message displayed when an error is encountered after the form is submitted
#pm_md_form	Popup form that is shown for the swipe entry
.pm-form-table	Main payment module form container
.pm-form-table tr td label	Main form text
.pm-form-table tr td input[type="text"]	Text input entry box
.pm-form-table tr td textarea	Text area entry box
.pm-form-table tr td select	Select dropdown
.pm-form-table tr td input[type="submit"]	Submit button
.pm-form-table tr td b	Header column text labels
.section-header	Description header for each main input section
.col-text	Left column
.col-input	Middle column with input fields
.col-error	Right column
.col-error label	Right column error text
.col-input-submit	Column holding submit button

## 6. Test Authorization Account Information

To test this Gateway, you may supply test transaction data that will either produce an authorization, a decline or an error. By using the test data, you may ensure that you are properly communicating with the transaction gateway and also properly parsing the return values.

**To test a successful response from the gateway, please provide the values for the following variables:**

merchant = 1264  
password = password  
order\_id = any unique invoice number.

To get an approved response for Credit Card transactions, use the following information:

Visa: 4111111111111111 CVV2 = 123  
MasterCard: 5000300020003003 CVC2 = 123  
Discover: 6011111111111117 CVV2 = 123  
Amex: 374255312721002 CVV2 = 1234

To get a pending response for ACH, use the following information:

aba (Routing Number): 123123123  
dda (Direct Deposit Account): 1234567890  
ach\_name: Any Bank  
ach\_category\_text : Web Payments  
ach\_account\_type: C  
close\_date: NOTE –please be sure to use a post date that is either the current date or in the future.

Test Address information:

Address: 123 Test St  
Zip: 12345-6789

The remaining field values you can make whatever you want to test all the various aspects of the API, just make sure to fulfill the defined criteria listed above for the different operation types.

\* As this is a generic test account, try to use a formula that will generate unique order\_id's based on your merchant name.

**To test a decline Credit Card response from the gateway, please provide the values for the following variables:**

Use above information and any other card number other than those listed above. Legitimate card numbers will decline since this is a test account.

The remaining field values you can make whatever you want to test all the various aspects of the API, just make sure to fulfill the defined criteria listed above for the different operation types.

**To test an error response from the gateway, please provide the values for the following variables:**

To generate an error, use the above account information and provide bad data in the XML and submit the form, an error response will be generated.

The remaining field values you can make whatever you want to test all the various aspects of the API, just make sure to fulfill the defined criteria listed above for the different operation types.

**NOTE – It is strongly recommended that all procedures be tested to ensure that your gateway integration is complete and correct. Not all options are available for use with the DEMO account (1264). The demo account will let you test the basic features of this payment gateway only.**

## 7. Sample Code

The sample code is provided as is. The sample provides a basic HTML page that uses a frame to load the payment module online. There is no "code" needed to use this portal in a standalone window since it loads using a URL.

### 7.1.1. Embedded HTML Sample for E-commerce Auth

```
<html>
<head>
<title>Web Based Payment Module Test - Frame</title>

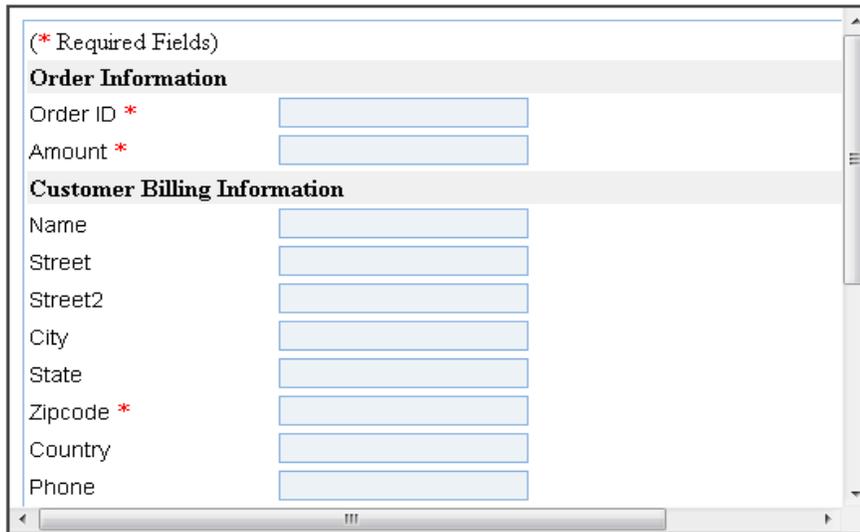
</head>
<body>

<p>below is a frame that is populated with a remote call to pm.aspx and is embedded on this page</p>

<iframe src
="https://secure.1stpaygateway.net/secure/gateway/pm.aspx?transaction_center_id=1264&embedded=
frame&operation_type=ecom_auth&respond_inline=1" width=" 80%" height=" 350 ">
<p>Your browser does not support iframes.</p>
</iframe>

<p>this is outside that frame</p>
</body>
</html>
```

below is a frame that is populated with a remote call to pm.aspx and is embedded on this page



The screenshot shows a web form with a scrollable area. At the top, it says "( \* Required Fields)". Below this, there are two sections:

- Order Information**: Contains two fields: "Order ID \*" and "Amount \*", each with a text input box.
- Customer Billing Information**: Contains seven fields: "Name", "Street", "Street2", "City", "State", "Zipcode \*", and "Country", each with a text input box. The "Phone" field is also present but does not have an input box.

this is outside that frame

## 7.1.2. MD5 Hash Value Generation

### C# MD5 Hash Sample

```
public static string CalculateMD5Hash(string input)
{
    // step 1, calculate MD5 hash from input
    MD5 md5 = new System.Security.Cryptography.MD5CryptoServiceProvider();
    byte[] inputBytes = System.Text.Encoding.Default.GetBytes(input);
    byte[] hash = md5.ComputeHash(inputBytes);

    // step 2, convert byte array to hex string
    StringBuilder sb = new StringBuilder();
    for (int i = 0; i < hash.Length; i++)
    {
        sb.Append(hash[i].ToString("X2"));
    }
}
```

```
return sb.ToString();  
}
```

### **MSSQL 2005 Example**

```
Select    hashbytes('md5', '1264noretail_auth1.005A3E0A0F-678C-42A5-87F9-  
D97D0D0FEC94')
```