Inspire Commerce™ & .pay™

Direct Post API

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Methodology

There are two primary options in which transactions can be submitted through the Payment Gateway API. The simplest, most direct, and transparent method is our Direct Post Method. This document describes the Direct Post Method.

Direct Post Method (Server to Server) FIG. 1



- 1. The customer sends their payment information to the merchant's web site.
- 2. The merchant's web site **posts** the payment data to the Payment Gateway.
- The Payment Gateway responds immediately with the results of the transactions.
- 4. The merchant's web site displays the appropriate message to the customer.

The communication method used to send messages to the Payment Gateway's server is the standard HTTP protocol over an SSL connection.

In the Direct Post method, the communications with the cardholder (**Steps 1 and 4**) are developed completely by the merchant and therefore are not defined by the Payment Gateway. **Step 1** should simply collect the payment data from the cardholder and **Step 4** should display the appropriate transaction receipt or declined message.

In **Step 2**, transaction details should be delivered to the Payment Gateway using the POST method with the appropriate variables defined below posted along with the request.

In **Step 3**, the transaction responses are returned in the body of the HTTP response in a query string name/value format delimited by ampersands. For example: variable1=value1&variable2=value2&variable3=value3

Transaction Types

Sale (sale)

Transaction sales are submitted and **immediately flagged for settlement**. These transactions will automatically be settled.

Authorization (auth)

Transaction authorizations are authorized immediately but are **not flagged for settlement**. These transactions must be flagged for settlement using the *capture* transaction type. Authorizations typically remain active for three to seven business days.

Capture (capture)

Transaction captures flag existing *authorizations* for settlement. Only *authorizations* can be captured. Captures can be submitted for an amount equal to or less than the original *authorization*.

Void (void)

Transaction voids will cancel an existing sale or captured authorization. In addition, non-captured authorizations can be voided to prevent any future capture. Voids can only occur if the transaction has not been settled.

Refund (refund)

Transaction refunds will reverse a previously settled transaction. If the transaction has not been settled, it must be *voided* instead of refunded.

Credit (credit)

Transaction credits apply a negative amount to the cardholder's card. In most situations credits are disabled as transaction refunds should be used instead

Validate (validate)

This action is used for doing an "Account Verification" on the cardholder's credit card without actually doing an authorization.

Update (update)

Transaction updates can be used to update previous transactions with specific order information, such as a tracking number and shipping carrier.

Transaction Variables

Sale/Authorization/Credit/Validate

Variable Name	Required*	Format	Description
type	Required	sale / auth / credit	sale = Transaction Sale
•	·	/ validate	auth = Transaction Auth
			credit = Transaction Credit
			validate = Account
			Verification
username	Required		Username assigned to
	-		merchant account
password	Required		Password for the specified
	-		username
ccnumber	Required**		Credit card number
ccexp	Required**	MMYY	Credit card expiration (ie.
			0711 = 7/2011)
checkname	Required**		The name on the
			customer's ACH Account.
checkaba	Required**		The customer's bank
			routing number
checkaccount	Required**		The customer's bank
			account number
account_holder_type	Required**	business /	The customer's type of
		personal	ACH account
account_type	Required**	checking / savings	The customer's ACH
			account entity
sec_code	Optional**	PPD/WEB/TEL/CCD	ACH Standard Entry Class
			codes
amount	Conditional	X.XX	Total amount to be charged
			(i.e. 10.00) (for Validate,
			amount may be omitted, or
	0.1	100 4047	must be set to 0.00)
currency	Optional	ISO 4217	Set transaction currency
CVV	Recommended	Pr 1 / 1	Card security code
payment	Optional **	creditcard / check	Set Payment Type to ACH
nunnanan id	Ontional		or Credit Card If using Multiple MIDs, route
processor_id	Optional		to this processor.
			processor_id is obtained under
			Options->Load Balancing in
			the Control Panel
dup_seconds	Optional		Disable Duplicate checking
	,		(in seconds)
			(On supported processors)
descriptor	Optional		Set payment descriptor
			(On supported processors)
descriptor_phone	Optional		Set payment descriptor
			phone
1.00	0 "		(On supported processors)
billing_method	Optional	recurring	Set Recurring Commerce
	0.0		Indicator
product_sku_#	Optional	product_sku_1	Associate API call with

			Dogurring CKII
orderdescription	Optional		Recurring SKU Order description
orderid	Optional		Order Id
ipaddress	Recommended	WW WW WW WW	IP address of the
ipaddress	Recommended	XXX.XXX.XXX	cardholder
tax	Level II	X.XX	Total tax amount
	Level II		Total shipping amount
shipping	Level II	X.XX	Original Purchase Order
ponumber firstname			Cardholder's first name
	Recommended		
lastname	Recommended Optional		Cardholder's last name Cardholder's company
company address1	Recommended		Card billing address
address2	Optional		Card billing address – line 2
	Recommended		
city		CC	Card billing city
state	Recommended	CC	Card billing state (2 character abbrev.)
zip	Recommended		Card billing zip code
country	Recommended	CC (ISO-3166)	Card billing country (ie. US)
phone	Recommended	,	Billing phone number
fax	Optional		Billing fax number
email	Recommended		Billing email address
validation	Optional		Specify which Validation
	,		processors to use. If variable
			is passed blank, use none.
shipping_firstname	Optional		Shipping first name
shipping_lastname	Optional		Shipping last name
shipping_company	Optional		Shipping company
shipping_address1	Optional		Shipping address
shipping_address2	Optional		Shipping address – line 2
shipping_city	Optional		Shipping city
shipping_state	Optional		Shipping state
shipping_zip	Optional		Shipping zip code
shipping_country	Optional	CC (ISO-3166)	Shipping country (ie. US)
shipping_email	Optional		Shipping email address
Level III specific Order Fig	elds		
shipping	Recommended	x.xx	Freight or shipping amount included in the transaction amount Defaults to 0.00
tax	Recommended	x.xx	The sales tax included in the transaction amount associated with the purchase. Setting tax equal to -1 indicates an order that is exempt from sales tax Defaults to 0.00
ponumber	Required		Purchase order number supplied by cardholder
orderid	Required		Identifier assigned by the merchant Defaults to Gateway transaction ID
shipping_country	Required	CC (ISO-3166)	Shipping country (ie. US)
shipping_postal	Required	,	Postal/ZIP code of the
			address where purchased

ship_from_postal	Required	goods will be delivered This field can be identical to the ship_from_postal if the customer is present and takes immediate possession of the goods. Postal/ZIP code of the address from where purchased goods are being shipped Defaults to Merchant
summary_commodity_code	Required	Profile Postal Code 4 Character International description code of the overall goods or services being supplied The Acquirer or processor will provide a list of current codes
duty_amount	Optional	Amount included in the transaction amount associated with the import of the purchased goods Defaults to 0.00
discount_amount	Optional	Amount included in the transaction amount of any discount applied to the complete order by the merchant Defaults to 0.00
national_tax_amount	Optional	The national tax amount included in the transaction amount Defaults to 0.00
alternate_tax_amount	Optional	Second tax amount included in the transaction amount in countries where more than one type of tax can be applied to the purchases Defaults to 0.00
alternate_tax_id	Optional	Tax identification number of the merchant that reported the alternate tax amount
vat_tax_amount	Optional	Contains the amount of any value added taxes which can be associated with the purchased item <i>Defaults to</i> 0.00
vat_tax_rate	Optional	Contains the tax rate used to calculate the sales tax amount appearing Can contain up to 2 decimal places, ie 1% = 1.00 Defaults to 0.00
vat_invoice_reference_number	Optional	Invoice number that is associated with the VAT invoice
customer_vat_registration	Optional	Value Added Tax registration number supplied by the cardholder

manufact and and the	Om#:=:==!	0
merchant_vat_registration	Optional	Government assigned tax
		identification number of the merchant for whom the
		goods or services were purchased from.
and an eleka	Ontinual	
order_date	Optional	Purchase order date
		supplied in the format
		YYMMDD Defaults to the
Lovel III energific Line Her	n Deteil Fielde	date of the transaction
Level III specific Line Item		Manahant dafinad
item_product_code_#	Required	Merchant defined
		description code of the item
		being purchased
item_description_#	Required	Description of the item(s)
		being supplied
item_commodity_code_#	Required	International description
		code of the individual good
		or service being supplied
		The Acquirer or processor will
		provide a list of current codes
item_unit_of_measure_#	Required	Code for units of
		measurement as used in
		international trade Defaults
		to EACH
item_unit_cost_#	Required	Unit cost of item purchased
		May contain up to 4
		decimal places
item_quantity_#	Required	Quantity of the item(s)
		being purchased Defaults to
		1
item_total_amount_#	Required	Purchase amount
_	-	associated with the item
		Defaults to: item_unit_cost_# x
		item_quantity_# rounded to the
		nearest penny
item_tax_amount_#	Required	Amount of tax on specific
		item
		Amount should not be
		included in total_amount_#
		Defaults to 0.00
item_tax_rate_#	Required	Percentage representing
_		the value-added tax applied
		Can contain up to 2 decimal
		places, ie 1% = 1.00
		Defaults to 0.00
item_discount_amount_#	Optional	Discount amount which can
	·	have been applied by the
		merchant on the sale of the
		specific item
		Amount should not be
		included in total_amount_#
item_discount_rate_#	Optional	Discount rate for the line
Item_uiscount_late_#	Οριιοπαι	item
		Can contain up to 2 decimal
		places, ie 1% = 1.00
		Defaults to 0.00

item_tax_type_#	Optional	Type of value-added taxes
		that are being used
item_alternate_tax_id_#	Optional	Tax identification number of
		the merchant that reported
		the alternate tax amount

^{*}These fields are required by default. Level II fields are required for Level II processing. Level II and Level III fields are required for Level III processing. Recommended fields help provide additional address and cardholder verification. Please Note, Certain banks may require some optional fields.

Capture

Variable Name	Required	Format	Description
type	Required	capture	capture = Transaction Capture
username	Required		Username assigned to merchant
			account
password	Required		Password for the specified username
transactionid	Required		Original Payment Gateway transaction
			id
amount	Required	X.XX	Total amount to be settled (i.e. 10.00)
			This amount must be equal to or less
			than the original authorized amount.
tracking_number	Optional		Shipping Tracking Number
shipping_carrier	Optional	ups/fedex/dhl/usps	Shipping Carrier
orderid	Optional		Order Id

Void

Variable Name	Required	Format	Description
type	Required	void	void = Cancel unsettled Transaction
username	Required		Username assigned to merchant account
password	Required		Password for the specified username
transactionid	Required		Original Payment Gateway transaction id

Refund

Variable Name	Required	Format	Description
type	Required	refund	refund = Refund Transaction
username	Required		Username assigned to merchant account
password	Required		Password for the specified username
transactionid	Required		Original Payment Gateway transaction id
amount	Optional	X.XX	Total amount to be refunded (i.e. 10.00)
			This amount may be equal to or less than
			the settled amount.

Update

Variable Name	Required	Format	Description
type	Required	update	update = Update an <i>un-captured</i>
			Transaction
username	Required		Username assigned to merchant
			account

^{**}You can pass only Credit Card **or** E-Check transaction variables in a request – not both in the same request.

password	Required		Password for the specified username
transactionid	Required		Original Payment Gateway transaction
	-		id
tracking_number	Optional		Shipping Tracking Number
shipping_carrier	Optional	ups/fedex/dhl/usps	Shipping Carrier
orderid	Optional		Order Id

Transaction Response Variables

Standard Response

Variable Name	Format	Description
response	1/2/3	1 = Transaction Approved
		2 = Transaction Declined
		3 = Error in transaction data or system error
responsetext		Textual response
authcode		Transaction authorization code
transactionid		Payment Gateway transaction id
avsresponse	С	AVS Response Code (See Appendix 1)
cvvresponse	С	CVV Response Code (See Appendix 2)
orderid		The original order id passed in the transaction request.
response_code	С	Numeric mapping of processor responses (See Appendix
		3)

Retail Data

Passing Unencrypted Retail Magnetic Stripe Data

The payment gateway supports passing of magnetic strip data collected from a card reader.

Variable Name	Format	Description
track_1	raw	Raw Magnetic Stripe Data
track_2	raw	Raw Magnetic Stripe Data
track_3	raw	Raw Magnetic Stripe Data

Passing MagTek Magensa encrypted Magnetic Stripe Data

The payment gateway supports passing MagTek's Magensa hardware based encryption collected from supported card readers.

Variable Name	Format	Description
magnesafe_track_1	raw	Raw MagTek Magensa Data
magnesafe_track_2	raw	Raw MagTek Magensa Data
magnesafe_magneprint	raw	Raw MagTek Magensa Data
magnesafe_ksn	raw	Raw MagTek Magensa Data
magnesafe_magneprint_status	raw	Raw MagTek Magensa Data

Testing Information

Transaction Testing Account

Transactions can be tested using one of two methods. First, transactions can be submitted to any merchant account that is in test mode. Keep in mind that if an account is in test mode, all valid credit cards will be approved but **no charges will actually be processed**.

The Payment Gateway demo account can also be used for testing at any time. Please use the following username and password for testing with this account:

Username:	demo
Password:	password

Transaction POST URL

All transactions should be submitted to the following URL:

https://secure.inspiregateway.net/api/transact.php

This URL is the same for both Live and Test Mode environments.

Test Transaction Information

Test transactions can be submitted with the following information:

Visa	4111111111111111
MasterCard	543111111111111
DiscoverCard	6011601160116611
American Express	341111111111111
Credit Card Expiration:	10/10
Amount	> 1.00

Triggering Errors in Test Mode

- ✓ To cause a declined message, pass an amount less than 1.00.
- ✓ To trigger a fatal error message, pass an invalid card number.
- ✓ To simulate an AVS Match, pass 888 in the address1 field, 77777 for zip.
- ✓ To simulate a CVV Match, pass 999 in the cvv field.

Examples

Direct Post Format

Data posted by merchant's web site to Payment Gateway

username=demo&password=password&type=sale&ccnumber=411111111111111111114ccexp=0711&cvv=999&amount=10.00

Response data returned to merchant's web site in HTML body

response=1&responsetext=SUCCESS&authcode=123456&transactionid=2 81719471&avsresponse=&cvvresponse=M&orderid=&type=sale&response code=100

Changelog

June 2007
January 2007
July 2006
April 2006
April 2006
Documented product_sku_x Variable
Documented processor_id Variable
Added Transaction Type Update
Added Response Code Appendix
Documented Browser Redirect Capability

Appendix 1 – AVS Response Codes

X Exact match, 9-character numeric ZIP Y Exact match, 5-character numeric ZIP D " M " A Address match only B " W 9-character numeric ZIP match only Z 5-character Zip match only P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O " B "		
D " M " A Address match only B " W 9-character numeric ZIP match only Z 5-character Zip match only P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	Χ	Exact match, 9-character numeric ZIP
M " A Address match only B " W 9-character numeric ZIP match only Z 5-character Zip match only P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	Υ	Exact match, 5-character numeric ZIP
A Address match only B " W 9-character numeric ZIP match only Z 5-character Zip match only P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	D	"
B " W 9-character numeric ZIP match only Z 5-character Zip match only P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	М	ш
W 9-character numeric ZIP match only Z 5-character Zip match only P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	Α	Address match only
Z 5-character Zip match only P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	В	ш
P " L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	W	9-character numeric ZIP match only
L " N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	Ζ	5-character Zip match only
N No address or ZIP match C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	Р	«
C " U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	L	"
U Address unavailable G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	N	No address or ZIP match
G Non-U.S. Issuer does not participate I " R Issuer system unavailable E Not a mail/phone order S Service not supported 0 AVS Not Available O "	С	ш
I " R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	U	Address unavailable
R Issuer system unavailable E Not a mail/phone order S Service not supported O AVS Not Available O "	G	Non-U.S. Issuer does not participate
E Not a mail/phone order S Service not supported O AVS Not Available O "	I	ш
S Service not supported 0 AVS Not Available 0 "	R	Issuer system unavailable
O AVS Not Available O "	E	Not a mail/phone order
0 "	S	Service not supported
0 -	0	AVS Not Available
B "	0	u
	В	u .

Appendix 2 – CVV Response Codes

М	CVV2/CVC2 Match
Ν	CVV2/CVC2 No Match
Р	Not Processed
S	Merchant has indicated that CVV2/CVC2 is not
	present on card
U	Issuer is not certified and/or has not provided Visa
	encryption keys

Appendix 3 – response_code Lookup Table

Gateway Response Codes

Tier 1 Response Codes	
Tier 2 Response Codes	
Tier 3 Response Codes	

All processing platforms will return this level of feedback Many processing platforms will return this level of feedback Some processing platforms will return this level of feedback

Recommended Best Pratice

100	Transaction was Approved
200	Transaction was Declined by Processor
201	Do Not Honor
202	Insufficient Funds
203	Over Limit
204	Transaction not allowed
220	Incorrect Payment Data
221	No Such Card Issuer
222	No Card Number on file with Issuer
223	Expired Card
224	Invalid Expiration Date
225	Invalid Card Security Code
240	Call Issuer for Further Information
250	Pick Up Card
251	Lost Card
252	Stolen Card
253	Fraudulant Card
260	Declined with further Instructions Available (see response text)
261	Declined - Stop All Recurring Payments
262	Declined - Stop this Recurring Program
263	Declined - Update Cardholder Data Available
264	Declined - Retry in a few days
204	Decimed - Netry in a few days
300	Transaction was Rejected by Gateway
300	Transaction was rejected by Gateway
400	Transaction Error Returned by Processor
410	Invalid Merchant Configuration
411	Merchant Account is Inactive
420	Communication Error
421	Communication Error with Issuer
430	Duplicate Transaction at Processor
440	Processor Format Error
441	Invalid Transaction Information
460	Processor Feature not Available
461	Unsupported Card Type
401	onsupported odia Type