



Shopping Cart Certification Advanced Integration Method (AIM) Developer Guide Card Not Present Transactions

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Revision History

Date	Brief Description of Changes
10.2002	Initial release
01.2003	Fixed x_bank_account_name to x_bank_acct_name Added response reason codes 111-115, 127, 141, 145, 152, 165
02.2003	Clarified that shopping carts must support all fields regardless of merchant field requirements Changed case for data fields to lowercase to avoid conflict with programming languages Updates transaction minimum requirements table to include x_delim_data = FALSE, x_relay_response = TRUE as well as x_method and x_type
06.2003	Updated security conditions for CREDIT transactions (as a result of compliance with Visa's Cardholder Information Security Program (CISP))
11.2003	Added response reason codes 200-224
02.2004	Added response reason codes 120-122, 170-181
03.2004	Added cardholder authentication program fields, x_authentication_indicator, x_cardholder_authentication_value and response field x_cavv_response Added response reason codes 116-119
04.2004	Added requirement to pass x_customer_ip for AIM merchants using the Fraud Detection Suite Added response codes 250-254
07.2004	Added new values for x_bank_acct_type (BUSINESS CHECKING) and x_echeck_type (CCD, PPD, TEL), including requirement to submit x_recurring_billing when x_echeck_type=WEB. Added additional field requirements for test transactions to support testing of payment gateway authentication tools such as the Address Verification System (AVS), Card Code Verification (CCV) as well as Verified by Visa and MasterCard® SecureCode™ authentication fields.
08.2004	Added examples for x_authentication_indicator and x_cardholder_authentication_value fields.
10.22.04	Added response codes 243-247, and 261
11.05.04	Removed Verified by Visa and MasterCard® SecureCode™ authentication field requirements. Added appendix to provide more details about the card authentication program fields.
01.17.05	Added the x_duplicate_window field and feature description.
09.08.05	Added response codes 185 and 193.
11.04.05	Added itemized order information fields and extended capabilities for the tax, freight, and duty fields. Added response codes 270 and 271 in addition to an HTTP Error Codes table.
06.2008	Removal of SecureSource requirements

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Introduction

Payment gateways enable merchants to accept credit cards and electronic checks as methods of payment for goods and services sold online. For merchants using a shopping cart, the gateway acts as a bridge between the merchant or shopping cart payment form and the financial institutions that process payment transactions. Payment data is collected online from the shopper and submitted to the gateway for real-time authorization.

Authorization is the process of checking the validity and available balance of a customer's credit card before the transaction can be accepted. To authorize a given credit card transaction, the gateway transmits the transaction information to the appropriate financial institutions for validation, then returns the response (approved or declined) from the institution to the merchant or customer. The payment gateway supports real-time and offline requests for credit card authorization.

Note: The payment gateway is targeted towards merchants that process Card Not Present (CNP) transactions. In a CNP transaction, the merchant and the shopper are not in the same physical location and the customer usually calls in the payment data or keys in the details of the credit card on a Web site. All e-commerce and mail order/telephone orders are CNP transactions.

The gateway also supports electronic check transactions. Merchants can collect customer bank account numbers and routing numbers to pay for purchases.

This document describes how transactions can be submitted to the payment gateway for real-time processing using Advanced Integration Method (AIM).

AIM is the recommended integration method for shopping carts that have the capability to initiate both client and server side SSL connections. This method offers the merchant a high degree of security and control because transaction data is submitted to the gateway over a secure server-to-server connection that is initiated by the merchant's or shopping cart's server.

Advanced Integration Method (AIM)

What is AIM?

AIM is the recommended method of submitting transactions to the payment gateway. This method allows a merchant's or shopping cart's server to securely connect directly to the payment gateway to submit transaction data. The merchant retains full control of the payment data collection and the user experience. This method requires the merchant or shopping cart to be able to initiate and manage secure Internet connections.

How Does AIM Work?

When using AIM, transactions flow in the following way:

1. The Customer's browser connects securely to the Merchant's or Shopping Cart's server to transmit payment information.
2. The Merchant's or Shopping Cart's server initiates a secure connection to the payment gateway and then initiates an HTTPS post of the transaction data to the gateway server.
3. The payment gateway receives and processes the transaction data.
4. The payment gateway then generates and submits the transaction response to the Merchant's or Shopping Cart's server.
5. The Merchant's or Shopping Cart's server receives and processes the response.
6. Finally, the Merchant's or Shopping Cart's server communicates the success or failure of the authorization to the Customer's browser.

What is Required to Implement AIM?

Shopping Carts must be able to perform the following functions in order to submit transactions to the gateway using AIM:

1. Establish a secure socket layer (SSL) connection (shopping cart must have an SSL digital certificate)
2. Provide both server- and client-side encryption
3. Develop and securely store scripts on a Web server for the integration to the gateway (e.g., for submitting transaction data and receiving and translating system responses)
4. Securely store and pass the merchant's transaction key

The AIM Application Program Interface (API)

The Standard Transaction Submission API defines how transactions should be submitted to the gateway using the AIM method. The gateway response API describes the gateway's responses to transactions submitted to the gateway. These APIs are discussed in detail in this document.

AIM Implementation

To implement AIM, a developer would design a script that does the following:

1. Securely obtains all of the information needed to process a transaction.
2. Initiates a secure HTTPS post from their server to **<https://secure.authorize.net/gateway/transact.dll>**. (Note: Authorize.Net will only accept transactions on port 443.) This post will include all system variables mentioned

in the tables below (see the following section entitled “Standard Transaction Submission API for AIM”).

3. Receives the response from the gateway and processes the response to display the appropriate result to the customer-browser or client.

Minimum Requirements for AIM

The following is the minimum set of NAME/VALUE pairs that must be submitted to the payment gateway for each credit card transaction.

FIELD NAME	FIELD VALUE
x_login	<i>Merchant's Login ID</i>
x_tran_key	<i>Merchant's Transaction Key</i>
x_method	<i>Payment method (CC)</i>
x_type	<i>Type of transaction (AUTH_CAPTURE, AUTH_ONLY, CAPTURE_ONLY, CREDIT, VOID, PRIOR_AUTH_CAPTURE)</i>
x_amount	<i>Amount of purchase inclusive of tax</i>
x_delim_data	TRUE
x_delim_char	<i>Any valid character</i>
x_version	3.1
x_relay_response	FALSE
x_card_num	<i>Customer's credit card number</i>
x_exp_date	<i>Customer's credit card expiration date</i>
x_card_code	<i>Any valid CVV2, CVC2, or CID value</i>
x_first_name	<i>Customer's first name</i>
x_last_name	<i>Customer's last name</i>
x_address	<i>Customer's street address</i>
x_city	<i>City for the customer's address</i>
x_state	<i>State for the customer's address</i>
x_zip	<i>ZIP code for the customer's address</i>
x_country	<i>Country for the customer's address</i>
x_phone	<i>Customer's phone number</i>
x_email	<i>Customer's e-mail address</i>
x_customer_ip	<i>Customer's IP address</i>

The following is the minimum set of NAME/VALUE pairs that must be submitted to the payment gateway for each eCheck.Net transaction.

FIELD NAME	FIELD VALUE
x_login	<i>Merchant's Login ID</i>
x_tran_key	<i>Merchant's Transaction Key</i>
x_method	<i>Payment method (ECHECK)</i>
x_type	<i>Type of transaction (AUTH_CAPTURE, CREDIT)</i>
x_echeck_type	<i>Indicates the type of eCheck.Net transaction (CCD, PPD, TEL, WEB)</i>
x_recurring_billing	<i>YES, NO (Required only when x_echeck_type = WEB)</i>
x_amount	<i>Amount of purchase inclusive of tax</i>
x_delim_data	TRUE
x_delim_char	<i>Any valid character</i>

x_version	3.1
x_relay_response	FALSE
x_bank_aba_code	ABA routing number
x_bank_acct_num	Bank Account Number
x_bank_acct_type	Type of Account – Checking, Business Checking or Savings
x_bank_name	Name of bank at which account is maintained
x_bank_acct_name	Name under which the account is maintained at the bank
x_first_name	Customer's first name
x_last_name	Customer's last name
x_address	Customer's street address
x_city	City for the customer's address
x_state	State for the customer's address
x_zip	ZIP code for the customer's address
x_country	Country for the customer's address
x_phone	Customer's phone number
x_email	Customer's e-mail address
x_customer_ip	Customer's IP address

Note: **Shopping carts are required to support, securely store, and submit the merchant transaction key (x_tran_key) field and value.**

Obtaining a Transaction Key for Test Transactions

To obtain a transaction key with which to submit test transactions,

1. Using the test login provided to you by the Authorize.Net Integration Manager, log into the Merchant Interface at <https://secure.authorize.net/>.

Note: You will need to obtain a separate transaction key for each test account.

2. Click **Settings** in the main menu on the left
3. Click **API Login ID and Transaction Key** in the Security section
4. Enter your **Secret Answer** (configured at setup of your test account)
5. Click to select **Disable Old Transaction Key(s)**
6. Click **Submit**

The Merchant Interface returns your transaction key. Be sure to store the transaction key in a safe place and do not share it with anyone.

Protecting Confidential Merchant Information

Because the shopping cart will be required to pass confidential merchant account information, it is absolutely necessary that the shopping cart store and encrypt confidential merchant account information in a highly secure place, preferably on a separate server from the shopping cart application. Each piece of confidential information should also be stored in a separate location. For example, the merchant's login ID should never be stored in the same location as the merchant's transaction key.

As merchants are advised to regularly change their transaction key for security purposes, the shopping cart must establish a highly secure way by which merchants can easily change and update transaction keys; whether it is through a secure, passworded interface, or by some other means mutually agreed upon by the merchant and the shopping cart.

It is necessary that the shopping cart have security policies and procedures in place that serve to protect the integrity of the merchant's account.

Standard Transaction Submission API for AIM

The transaction submission API defines the information that can be submitted to the gateway for real-time transaction processing. Under the API, the gateway accepts a NAME/VALUE pair. The NAME is the field name and indicates to the gateway what information is being submitted. VALUE contains the content of the field.

The following tables contain the data fields that may be submitted to the system with any transaction. The fields are grouped logically in the tables, based on the information submitted. Each table contains the following information:

- *Field* – Name of the parameter that may be submitted on a transaction.
- *Value* – Lists the possible values that may be submitted for the field. In cases where a format is validated, an explanation is provided.
- *Max Length* – Indicates the maximum number of characters that may be supplied for each field.
- *Description* – Provides additional details for the merchant on how the field is used.

Merchant Account Information

The following fields in the API allow the system to identify the merchant submitting the transaction and the state of the merchant's account on the gateway. **Certified shopping carts are required to support all NAME/VALUE pairs** in order to accommodate the various NAME/VALUE pair combinations submitted by merchants.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	Varies by merchant	20	Pass the Login ID.
x_tran_key	Varies by merchant	16	Pass the gateway-generated transaction key.
x_version	3.1 If no value is specified, the value located in the Transaction Version settings within the Merchant Interface will be used.	3	Indicates to the system the set of fields that will be included in the response. See the AIM Transaction Response section for more information.
x_test_request	TRUE, FALSE	5	Indicates whether the transaction should be processed as a test transaction. Please refer to Appendix G for further information on this field.

Gateway Response Configuration

The following fields determine how a transaction response will be returned once a transaction is submitted to the system. The merchant usually configures the response through the Merchant Interface (a tool used by the merchant to configure their account).

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_delim_data	TRUE	5	In order to receive a delimited response from the gateway, this field has to be submitted with a value

FIELD	VALUE	MAX LENGTH	DESCRIPTION
			of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_delim_char	Any valid character Shopping carts are required to pass a delimiting character.	1	Character that will be used to separate fields in the transaction response. The system will use the character passed in this field or the value stored in the Merchant Interface if no value is passed. If this field is passed, and the value is null, it will override the value stored in the Merchant Interface and there will be no delimiting character in the transaction response.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response. The system will use the character passed in this field or the value stored in the Merchant Interface if no value is passed.
x_relay_response	FALSE	5	Indicates whether a relay response is desired. As all AIM transactions are direct response, a value of FALSE is required.
x_duplicate_window	Any value between 0 – 28,800		Indicates in seconds the window of time after a transaction is submitted during which the payment gateway will check for a duplicate transaction. The maximum time allowed is 8 hours (28,800 seconds). If a value less than 0 is sent, the payment gateway will default to 0 seconds. If a value greater than 28,000 sent, the payment gateway will default to 28,000. If no value is sent, the payment gateway will default to 2 minutes (120 seconds). If this field is present in the request with or without a value, an enhanced duplicate transaction response will be sent. Please see the section of this document titled “Response for Duplicate Transactions” for more information.

Customer Name and Billing Address

The customer billing address fields listed below contain information on the customer billing address associated with each transaction.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_first_name	Any string	50	Contains the first name of the customer associated with the billing address for the transaction.
x_last_name	Any string	50	Contains the last name of the customer associated with the billing address for the transaction.
x_company	Any string	50	Contains the company name associated with the billing address for the transaction.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_address	Any string	60	Contains the address of the customer associated with the billing address for the transaction.
x_city	Any string	40	Contains the city of the customer associated with the billing address for the transaction.
x_state	Any valid two-character state code or full state name If passed, the value will be verified	40	Contains the state of the customer associated with the billing address for the transaction.
x_zip	Any string	20	Contains the zip of the customer associated with the billing address for the transaction.
x_country	Any valid two-character country code or full country name (spelled in English) If passed, the value will be verified	60	Contains the country of the customer associated with the billing address for the transaction.
x_phone	Any string Recommended format is (123)123-1234	25	Contains the phone number of the customer associated with the billing address for the transaction.
x_fax	Any string Recommended format is (123)123-1234	25	Contains the fax number of the customer associated with the billing address for the transaction.

Additional Customer Data

Merchants may provide additional customer information with a transaction, based on their respective requirements.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_cust_id	Any string	20	Unique identifier to represent the customer associated with the transaction.
x_customer_ip	Required format is 255.255.255.255. If this value is not passed, it will default to 255.255.255.255 Required for the Fraud Detection Suite	15	IP address of the customer initiating the transaction.
x_customer_tax_id	9 digits/numbers only	9	Tax ID or SSN of the customer initiating the transaction.

Email Settings

The following fields describe how and when emails will be sent when transactions are processed by the system.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_email	Any valid email address	255	Email address to which the customer's copy of the confirmation email is sent. No email will be sent to the customer if the email address does not meet standard email format checks.
x_email_customer	TRUE, FALSE If no value is submitted, system will default to the value configured in the Merchant Interface.	5	Indicates whether a confirmation email should be sent to the customer.
x_merchant_email	Any valid email address	255	Email address to which the merchant's copy of the customer confirmation email should be sent. If a value is submitted, an email will be sent to this address as well as the address(es) configured in the Merchant Interface.

Invoice Information

Based on their respective requirements, merchants may submit invoice information with a transaction. Two invoice fields are provided in the gateway API.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_invoice_num	Any string	20	Merchant-assigned invoice number.
x_description	Any string	255	Description of the transaction.

Itemized Order Information

Based on their respective requirements, merchants may submit itemized order information with a transaction. Itemized order information is not submitted to the processor and is not returned with the transaction response. This information is displayed on the Transaction Detail page in the Merchant Interface.

FIELD	REQUIRED	VALUE	MAX LENGTH	DESCRIPTION
x_line_item	Optional Required if the order is itemized.	Any string. Line item values must be delimited by <>.	N/A	Itemized order information.
item ID<>	Optional Required if the order is itemized.	Any string	31	Item ID.
<>item name<>	Optional Required if the order is itemized.	Any string	31	Item name.
<>item description<>	Optional	Any string	255	Item description.

FIELD	REQUIRED	VALUE	MAX LENGTH	DESCRIPTION
	Required if the order is itemized.			
< >itemX quantity< >	Optional Required if the order is itemized	Any positive number (two decimal places allowed)	N/A	Item quantity.
< >item price (unit cost)< >	Optional Required if the order is itemized	Any positive monetary amount	N/A	Item unit price, excluding tax, freight and duty. The dollar sign (\$) is not allowed when submitting delimited information.
< >itemX taxable	Optional Required if the order is itemized	YES, NO	N/A	Indicates whether the item is taxable.

The merchant may submit up to 30 line items containing itemized order information per transaction. For example:

```
x_line_item=item1<|>golf balls<|><|>2<|>18.95<|>Y
x_line_item=item2<|>golf bag<|>Wilson golf carry bag,
red<|>1<|>39.99<|>Y
x_line_item=item3<|>book<|>Golf for Dummies<|>1<|>21.99<|>Y
```

Note: For Prior_Auth_Capture transactions, if line item information was submitted with the original transaction, adjusted information may be submitted in the event that the transaction changed. If no adjusted line item information is submitted, the information submitted with the original transaction will apply.

Customer Shipping Address

The following fields describe the customer shipping information that may be submitted with each transaction.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_ship_to_first_name	Any string	50	Contains the customer shipping first name.
x_ship_to_last_name	Any string	50	Contains the customer shipping last name.
x_ship_to_company	Any string	50	Contains the customer shipping company.
x_ship_to_address	Any string	60	Contains the customer shipping address.
x_ship_to_city	Any string	40	Contains the customer shipping city.
x_ship_to_state	Any valid two-character state code or full state name	40	Contains the customer shipping state.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
	If passed, the value will be verified		
x_ship_to_zip	Any string	20	Contains the customer shipping zip.
x_ship_to_country	Any valid two-character country code or full country name (spelled in English) If passed, the value will be verified	60	Contains the customer shipping country.

Transaction Data

The following fields contain transaction-specific information such as amount, payment method, and transaction type.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_amount	Any amount	15	Total value to be charged or credited inclusive of tax.
x_currency_code	Valid currency code	3	Currency of the transaction amount. If left blank, this value will default to the value specified in the Merchant Interface. See Appendix I for other values.
x_method	CC, ECHECK	N/A	Indicates the method of payment for the transaction being sent to the system. If left blank, this value will default to CC.
x_type	AUTH_CAPTURE, AUTH_ONLY, CAPTURE_ONLY, CREDIT, VOID, PRIOR_AUTH_CAPTURE	N/A	Indicates the type of transaction. If the value in the field does not match any of the values stated, the transaction will be rejected. If no value is submitted in this field, the gateway will process the transaction as an AUTH_CAPTURE. See Appendix A for more information about credit card transaction types.
x_recurring_billing	YES, NO Required if x_echeck_type = WEB	3	Indicates whether the transaction is a recurring billing transaction.
x_bank_aba_code	Valid routing number Required if x_method = ECHECK r	9	Routing number of a bank for eCheck.Net transactions.
x_bank_acct_num	Valid account number Required if x_method = ECHECK	20	Checking or savings account number.
x_bank_acct_type	CHECKING, BUSINESSCHECKING,		Describes the type of bank account; if no value is provided, default is set to

FIELD	VALUE	MAX LENGTH	DESCRIPTION
	SAVINGS Required if x_method = ECHECK		CHECKING.
x_bank_name	Valid bank name Required if x_method = ECHECK	50	Contains the name of the customer's financial institution.
x_bank_acct_name	Name on the customer's bank account Required if x_method = ECHECK		Is the customer's name as it appears on their bank account.
x_echeck_type	CCD, PPD, TEL, WEB Required if x_method = ECHECK		Indicates the type of eCheck.Net payment request. If left blank, the default when x_bank_acct_type = CHECKING or SAVINGS is WEB. The default when x_bank_acct_type = BUSINESSCHECKING is CCD. See Appendix B for details on eCheck.Net types.
x_card_num	Numeric credit card number Required if x_method = CC	22	Contains the credit card number.
x_exp_date	Required if x_method = CC MMYY, MM/YY, MM-YY, MMYYYY, MM/YYYY, MM-YYYY, YYYY-MM-DD, YYYY/MM/DD	N/A	Contains the date on which the credit card expires.
x_card_code	Valid CVV2, CVC2 or CID value	4	Three- or four-digit number on the back of a credit card (on the front for American Express cards). See Appendix C for more information about the card code.
x_trans_id	Valid transaction ID Required if x_type = CREDIT, VOID, or PRIOR_AUTH_CAPTURE	10	ID of a transaction previously authorized by the gateway.
x_auth_code	Valid authorization code Required if x_type = CAPTURE_ONLY	6	Authorization code for a previous transaction not authorized on the gateway that is being submitted for capture.
x_authentication_indicator	Only required when you would like to certify a shopping cart integrated Verified by Visa and/or	1	The electronic commerce indicator (ECI) value for a Verified by Visa transaction; or the universal cardholder authentication field

FIELD	VALUE	MAX LENGTH	DESCRIPTION
	<p>MasterCard SecureCode solution as part of your Authorize.Net certification.</p> <p>Valid ECI or UCAF indicator value (obtained by the merchant after the authentication process).</p> <p>Required only for AUTH_ONLY and AUTH_CAPTURE transactions processed through cardholder authentication programs. When submitted with other transaction types, this value is ignored.</p>		<p>indicator (UCAF for a MasterCard SecureCode transaction.</p> <p>MasterCard SecureCode Authentication Indicator Values:</p> <p>0 = Supported, provided and successful</p> <p>1 = Supported, but Verified by Visa data was not provided</p> <p>2 = Verified by Visa is not supported by the merchant's Web site</p> <p>Verified by Visa Authentication Indicator Values:</p> <p>5 = Authentication approved</p> <p>6 = Authentication attempted, cardholder or issuer does not participate in Verified by Visa</p> <p>7 = Non-authenticated transaction</p> <p>This field is currently supported through FDC Nashville and Vital.</p>
x_cardholder_authentication_value	<p>Only required when you would like to certify a shopping cart integrated Verified by Visa and/or MasterCard SecureCode solution as part of your Authorize.Net certification.</p> <p>Valid CAVV, AVV, or UCAF value (obtained by the merchant after the authentication process).</p> <p>Required only for AUTH_ONLY and AUTH_CAPTURE transactions processed through cardholder authentication programs. When submitted with other transaction types, this value is ignored.</p>	<p>32, alphanumeric for MasterCard SecureCode values</p> <p>28, alphanumeric for Verified by Visa values</p> <p>For example, "E0Mvq8AAA BEiMwARiJNE VWZ3iJk="</p>	<p>The cardholder authentication verification value (CAVV) for a Verified by Visa transaction; or accountholder authentication value (AVV)/ universal cardholder authentication field (UCAF) for a MasterCard SecureCode transaction.</p> <p>This field is currently supported through FDC Nashville and Vital.</p>

Level 2 Data

The system supports Level 2 transaction data by providing the following fields as part of the transaction submission API. The tax, freight, and duty fields allow a delimited string for submitting extended information.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
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FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_po_num	Any string	25	Contains the purchase order number.
x_tax	Any valid tax amount OR the following delimited values: tax item name < > tax description< > tax amount	N/A	Contains the sales tax amount OR delimited tax information including the sales tax name, description, and amount. The dollar sign (\$) is not allowed when submitting delimited information.
x_tax_exempt	TRUE, FALSE	5	Indicates whether the transaction is tax exempt.
x_freight	Any valid freight amount OR the following delimited values: freight item name < > freight description< > freight amount	N/A	Contains the freight amount charged OR delimited freight information including the freight name, description, and amount. The dollar sign (\$) is not allowed when submitting extended information.
x_duty	Any valid duty amount OR the following delimited values: duty item name < > duty description< > duty amount	N/A	Contains the amount charged for duty OR delimited duty information including the duty name, description, and amount. The dollar sign (\$) is not allowed when submitting extended information.

Note: For Prior_Auth_Capture transactions, if extended tax, freight, and/or duty information was submitted with the original transaction, adjusted information may be submitted in the event that the transaction amount changed. If no adjusted tax, freight, and/or duty information is submitted, the information submitted with the original transaction will apply.

Gateway Response API

This section describes the response returned by the gateway when a merchant or shopping cart server submits a transaction for processing. The response is a set of fields that returns information about the status of a transaction. The fields will be comma delimited by default or delimited by the character specified by the merchant in the Merchant Interface. The merchant or shopping cart server can parse this data and determine the message to display to the customer.

Fields in the Gateway Response

The following table indicates the order of the fields returned in the AIM response from the gateway.

POSITION IN RESPONSE	FIELD NAME OF VALUE IN RESPONSE	DESCRIPTION
1	Response Code	Indicates the result of the transaction: 1 = Approved 2 = Declined 3 = Error
2	Response Subcode	A code used by the system for internal transaction tracking.
3	Response Reason Code	A code representing more details about the result of the transaction.
4	Response Reason Text	Brief description of the result, which corresponds with the Response Reason Code.
5	Approval Code	The six-digit alphanumeric authorization or approval code.
6	AVS Result Code	Indicates the result of Address Verification System (AVS) checks: A = Address (Street) matches, ZIP does not B = Address information not provided for AVS check E = AVS error G = Non-U.S. Card Issuing Bank N = No Match on Address (Street) or ZIP P = AVS not applicable for this transaction R = Retry – System unavailable or timed out S = Service not supported by issuer U = Address information is unavailable W = 9 digit ZIP matches, Address (Street) does not X = Address (Street) and 9 digit ZIP match Y = Address (Street) and 5 digit ZIP match Z = 5 digit ZIP matches, Address (Street) does not See Appendix C for more information about AVS.
7	Transaction ID	This number identifies the transaction in the system and can be used to submit a modification of this transaction at a later time, such as voiding, crediting or capturing the transaction.
8	Invoice Number	Echoed from input value for x_invoice_num.
9	Description	Echoed from input value for x_description.
10	Amount	Echoed from input value for x_amount.
11	Method	Echoed from input value for x_method.
12	Transaction Type	Echoed from input value for x_type.
13	Customer ID	Echoed from input value for x_cust_id.

POSITION IN RESPONSE	FIELD NAME OF VALUE IN RESPONSE	DESCRIPTION
14	Cardholder First Name	Echoed from input value for x_first_name.
15	Cardholder Last Name	Echoed from input value for x_last_name.
16	Company	Echoed from input value for x_company.
17	Billing Address	Echoed from input value for x_address.
18	City	Echoed from input value for x_city.
19	State	Echoed from input value for x_state.
20	Zip	Echoed from input value for x_zip.
21	Country	Echoed from input value for x_country.
22	Phone	Echoed from input value for x_phone.
23	Fax	Echoed from input value for x_fax.
24	Email	Echoed from input value for x_email.
25	Ship to First Name	Echoed from input value for x_ship_to_first_name.
26	Ship to Last Name	Echoed from input value for x_ship_to_last_name.
27	Ship to Company	Echoed from input value for x_ship_to_company.
28	Ship to Address	Echoed from input value for x_ship_to_address.
29	Ship to City	Echoed from input value for x_ship_to city.
30	Ship to State	Echoed from input value for x_ship_to_state.
31	Ship to Zip	Echoed from input value for x_ship_to_zip.
32	Ship to Country	Echoed from input value for x_ship_to_country.
33	Tax Amount	Echoed from input value for x_tax.
34	Duty Amount	Echoed from input value for x_duty.
35	Freight Amount	Echoed from input value for x_freight.
36	Tax Exempt Flag	Echoed from input value for x_tax_exempt.
37	PO Number	Echoed from input value for x_po_num.
38	MD5 Hash	System-generated hash that may be validated by the merchant to authenticate a transaction response received from the gateway.
39	Card Code (CVV2, CVC2, CID) Response	Indicates the results of Card Code verification: M = Match N = No Match P = Not Processed S = Should have been present U = Issuer unable to process request
40	Cardholder Authentication Verification Value (CAVV) Response Code	Indicates the results of cardholder authentication verification: Blank or not present = CAVV not validated 0 = CAVV not validated because erroneous data was submitted 1 = CAVV failed validation 2 = CAVV passed validation 3 = CAVV validation could not be performed; issuer attempt incomplete 4 = CAVV validation could not be performed; issuer system error 5 = Reserved for future use 6 = Reserved for future use 7 = CAVV attempt – failed validation – issuer available (U.S.-issued card/non-U.S acquirer) 8 = CAVV attempt – passed validation – issuer available (U.S.-issued card/non-U.S. acquirer)

POSITION IN RESPONSE	FIELD NAME OF VALUE IN RESPONSE	DESCRIPTION
		9 = CAVV attempt – failed validation – issuer unavailable (U.S.-issued card/non-U.S. acquirer) A = CAVV attempt – passed validation – issuer unavailable (U.S.-issued card/non-U.S. acquirer) B = CAVV passed validation, information only, no liability shift
41 - 68		Reserved for future use.
69 -		Echo of merchant-defined fields.

Response for Duplicate Transactions

The AIM API allows you to specify the window of time after a transaction is submitted during which the payment gateway checks for a duplicate transaction. To use this functionality, you must pass the Duplicate Window (*x_duplicate_window*) field with a value between 0 to 28,800 seconds (maximum of 8 hours).

In the event that the transaction request does not include the Duplicate Window field, and the payment gateway detects a duplicate transaction within the system default window of 2 minutes, the gateway response will contain the response code of 3 (processing error) with a reason code of 11 (duplicate transaction) with no additional details.

In the event that the transaction request does include the Duplicate Window field and value, and the payment gateway detects a duplicate transaction within the window of time specified, the gateway response for the duplicate transaction will also include information about the original transaction (as outlined below).

If the original transaction was declined, and a value was passed in the Duplicate Window field, the payment gateway response for the duplicate transaction will include the following information for the original transaction:

- The AVS Code result
- The Card Code result
- The Transaction ID
- The MD5 Hash (if this feature was used for the original transaction)

If the original transaction was approved, and a value was passed in the Duplicate Window field, the gateway response will also include the Authorization Code for the original transaction. All duplicate transactions submitted after the duplicate window, whether specified in the transaction request or after the payment gateway default 2 minute duplicate window, will be processed normally.

AIM Transaction Response

There are two versions of the response string. The set of fields in the response differ based on the response version.

Version 3.0

The version 3.0 response contains system fields from position 1 to 38 and echoes merchant defined fields from 39 on, in the order received by the system. Version 3.0 is the Payment Gateway default.

Version 3.1

The version 3.1 response string contains 68 system fields with field number 39 representing the Card Code (CVV2/CVC2/CID) response code. Merchant-defined fields are echoed from field 69 on. Merchants wishing to use the Card Code feature must use transaction version 3.1.

Note: Shopping carts are required to support both transaction versions.

Response Code Details

When a payment transaction is submitted to the gateway, the gateway returns a response that indicates the general status of the transaction, including details of what caused the transaction to be in that state. The fields in the response that describe the status of the transaction are Response Code, Response Reason Code, and Response Reason Text. The following tables define the values that the gateway may return in these fields.

Description of Response Fields

The three status fields in the transaction response are defined as follows:

- The *Response Code* indicates the overall status of the transaction with possible values of approval, decline, or error.
- The *Response Reason Code* returns more information about the transaction status.
- The *Response Reason Text* is a text string that will give more detail on why the transaction resulted in a specific response code. This field is a text string that can be echoed back to the customer to provide them with more information about their transaction. It is strongly suggested that merchants or shopping carts not parse this string expecting certain text. Instead, a merchant or shopping cart should test for the Response Reason Code if they need to programmatically know these results; the Response Reason Code will always represent these meanings, even if the text descriptions change.

Response Codes

RESPONSE CODE	DESCRIPTION
1	This transaction has been approved.
2	This transaction has been declined.
3	There has been an error processing this transaction.
4	This transaction is being held for review.

Response Reason Codes & Response Reason Text

RESPONSE CODE	RESPONSE REASON CODE	RESPONSE REASON TEXT	NOTES
1	1	This transaction has been approved.	
2	2	This transaction has been declined.	
2	3	This transaction has been declined.	
2	4	This transaction has been declined.	The code returned from the processor indicating that the card used needs to be picked up.
3	5	A valid amount is required.	The value submitted in the amount field did not pass validation for a number.
3	6	The credit card number is invalid.	
3	7	The credit card expiration date is invalid.	The format of the date submitted was incorrect.
3	8	The credit card has expired.	
3	9	The ABA code is invalid.	The value submitted in the x_bank_aba_code field did not pass validation or was not for a valid financial institution.
3	10	The account number is invalid.	The value submitted in the x_bank_acct_num field did not pass validation.
3	11	A duplicate transaction has been submitted.	A transaction with identical amount and credit card information was submitted two minutes prior.
3	12	An authorization code is required but not present.	A transaction that required x_auth_code to be present was submitted without a value.
3	13	The merchant Login ID is invalid or the account is inactive.	
3	14	The Referrer or Relay Response URL is invalid.	Applicable only to SIM and WebLink APIs. The Relay Response or Referrer URL does not match the merchant's configured value(s) or is absent.
3	15	The transaction ID is invalid.	The transaction ID value is non-numeric or was not present for a transaction that requires it (i.e., VOID, PRIOR_AUTH_CAPTURE, and CREDIT).
3	16	The transaction was not found.	The transaction ID sent in was properly formatted but the gateway had no record of the transaction.
3	17	The merchant does not accept this type of credit card.	The merchant was not configured to accept the credit card submitted in the transaction.
3	18	ACH transactions are not accepted by this merchant.	The merchant does not accept electronic checks.
3	19	An error occurred during processing. Please try again in 5 minutes.	
3	20	An error occurred during processing. Please try again in 5	

		minutes.	
3	21	An error occurred during processing. Please try again in 5 minutes.	
3	22	An error occurred during processing. Please try again in 5 minutes.	
3	23	An error occurred during processing. Please try again in 5 minutes.	
3	24	The Nova Bank Number or Terminal ID is incorrect. Call Merchant Service Provider.	
3	25	An error occurred during processing. Please try again in 5 minutes.	
3	26	An error occurred during processing. Please try again in 5 minutes.	
2	27	The transaction resulted in an AVS mismatch. The address provided does not match billing address of cardholder.	
3	28	The merchant does not accept this type of credit card.	The Merchant ID at the processor was not configured to accept this card type.
3	29	The PaymentTech identification numbers are incorrect. Call Merchant Service Provider.	
3	30	The configuration with the processor is invalid. Call Merchant Service Provider.	
3	31	The FDC Merchant ID or Terminal ID is incorrect. Call Merchant Service Provider.	The merchant was incorrectly set up at the processor.
3	32	This reason code is reserved or not applicable to this API.	
3	33	<i>FIELD</i> cannot be left blank.	The word <i>FIELD</i> will be replaced by an actual field name. This error indicates that a field the merchant specified as required was not filled in.
3	34	The VITAL identification numbers are incorrect. Call Merchant Service Provider.	The merchant was incorrectly set up at the processor.
3	35	An error occurred during processing. Call Merchant Service Provider.	The merchant was incorrectly set up at the processor.
3	36	The authorization was approved, but settlement failed.	
3	37	The credit card number is invalid.	
3	38	The Global Payment System identification numbers are incorrect. Call Merchant Service Provider.	The merchant was incorrectly set up at the processor.

3	39	The supplied currency code is either invalid, not supported, not allowed for this merchant or doesn't have an exchange rate.	
3	40	This transaction must be encrypted.	
2	41	This transaction has been declined.	Only merchants set up for the FraudScreen.Net service would receive this decline. This code will be returned if a given transaction's fraud score is higher than the threshold set by the merchant.
3	43	The merchant was incorrectly set up at the processor. Call your Merchant Service Provider.	The merchant was incorrectly set up at the processor.
2	44	This transaction has been declined.	The merchant would receive this error if the Card Code filter has been set in the Merchant Interface and the transaction received an error code from the processor that matched the rejection criteria set by the merchant.
2	45	This transaction has been declined.	This error would be returned if the transaction received a code from the processor that matched the rejection criteria set by the merchant for both the AVS and Card Code filters.
3	46	Your session has expired or does not exist. You must log in to continue working.	
3	47	The amount requested for settlement may not be greater than the original amount authorized.	This occurs if the merchant tries to capture funds greater than the amount of the original authorization-only transaction.
3	48	This processor does not accept partial reversals.	The merchant attempted to settle for less than the originally authorized amount.
3	49	A transaction amount greater than \$99,999 will not be accepted.	
3	50	This transaction is awaiting settlement and cannot be refunded.	Credits or refunds may only be performed against settled transactions. The transaction against which the credit/refund was submitted has not been settled, so a credit cannot be issued.
3	51	The sum of all credits against this transaction is greater than the original transaction amount.	
3	52	The transaction was authorized, but the client could not be notified; the transaction will not be settled.	
3	53	The transaction type was invalid for ACH transactions.	If x_method = ECHECK, x_type cannot be set to CAPTURE_ONLY.
3	54	The referenced transaction does not meet the criteria for issuing a credit.	
3	55	The sum of credits against the referenced transaction would exceed the original debit amount.	The transaction is rejected if the sum of this credit and prior credits exceeds the original debit amount.

3	56	This merchant accepts ACH transactions only; no credit card transactions are accepted.	The merchant processes eCheck.Net transactions only and does not accept credit cards.
3	57	An error occurred in processing. Please try again in 5 minutes.	
3	58	An error occurred in processing. Please try again in 5 minutes.	
3	59	An error occurred in processing. Please try again in 5 minutes.	
3	60	An error occurred in processing. Please try again in 5 minutes.	
3	61	An error occurred in processing. Please try again in 5 minutes.	
3	62	An error occurred in processing. Please try again in 5 minutes.	
3	63	An error occurred in processing. Please try again in 5 minutes.	
2	65	This transaction has been declined.	The transaction was declined because the merchant configured their account through the Merchant Interface to reject transactions with certain values for a Card Code mismatch.
3	66	This transaction cannot be accepted for processing.	The transaction did not meet gateway security guidelines.
3	68	The version parameter is invalid.	The value submitted in x_version was invalid.
3	69	The transaction type is invalid.	The value submitted in x_type was invalid.
3	70	The transaction method is invalid.	The value submitted in x_method was invalid.
3	71	The bank account type is invalid.	The value submitted in x_bank_acct_type was invalid.
3	72	The authorization code is invalid.	The value submitted in x_auth_code was more than six characters in length.
3	73	The driver's license date of birth is invalid.	The format of the value submitted in x_drivers_license_num was invalid.
3	74	The duty amount is invalid.	The value submitted in x_duty failed format validation.
3	75	The freight amount is invalid.	The value submitted in x_freight failed format validation.
3	76	The tax amount is invalid.	The value submitted in x_tax failed format validation.
3	77	The SSN or tax ID is invalid.	The value submitted in x_customer_tax_id failed validation.
3	78	The card code (CVV2/CVC2/CID) is invalid.	The value submitted in x_card_code failed format validation.
3	79	The driver's license number is invalid.	The value submitted in x_drivers_license_num failed format validation.
3	80	The driver's license state is invalid.	The value submitted in x_drivers_license_state failed format validation.
3	81	The requested form type is invalid.	The merchant requested an integration method not compatible with the AIM API.
3	82	Scripts are only supported in version 2.5.	The system no longer supports version 2.5; requests cannot be posted to scripts.
3	83	The requested script is either	The system no longer supports version 2.5;

		invalid or no longer supported.	requests cannot be posted to scripts.
3	84	This reason code is reserved or not applicable to this API.	
3	85	This reason code is reserved or not applicable to this API.	
3	86	This reason code is reserved or not applicable to this API.	
3	87	This reason code is reserved or not applicable to this API.	
3	88	This reason code is reserved or not applicable to this API.	
3	89	This reason code is reserved or not applicable to this API.	
3	90	This reason code is reserved or not applicable to this API.	
3	91	Version 2.5 is no longer supported.	
3	92	The gateway no longer supports the requested method of integration.	
3	97	This transaction cannot be accepted.	Applicable only to SIM API. Fingerprints are only valid for a short period of time. This code indicates that the transaction fingerprint has expired.
3	98	This transaction cannot be accepted.	Applicable only to SIM API. The transaction fingerprint has already been used.
3	99	This transaction cannot be accepted.	Applicable only to SIM API. The server-generated fingerprint does not match the merchant-specified fingerprint in the x_fp_hash field.
3	100	The eCheck.Net type is invalid.	Applicable only to eCheck.Net. The value specified in the x_echeck_type field is invalid.
3	101	The given name on the account and/or the account type does not match the actual account.	Applicable only to eCheck.Net. The specified name on the account and/or the account type do not match the NOC record for this account.
3	102	This request cannot be accepted.	A transaction key was submitted with this WebLink request.
3	103	This transaction cannot be accepted.	A valid fingerprint, or transaction key is required for this transaction.
3	104	This transaction is currently under review.	Applicable only to eCheck.Net. The value submitted for country failed validation.
3	105	This transaction is currently under review.	Applicable only to eCheck.Net. The values submitted for city and country failed validation.
3	106	This transaction is currently under review.	Applicable only to eCheck.Net. The value submitted for company failed validation.
3	107	This transaction is currently under review.	Applicable only to eCheck.Net. The value submitted for bank account name failed validation.
3	108	This transaction is currently under review.	Applicable only to eCheck.Net. The values submitted for first name and last name failed validation.

3	109	This transaction is currently under review.	Applicable only to eCheck.Net. The values submitted for first name and last name failed validation.
3	110	This transaction is currently under review.	The value submitted for bank account name does not contain valid characters.
3	116	The authentication indicator is invalid.	This code is applicable only to merchants that include the <code>x_authentication_indicator</code> in the transaction request. The ECI value for a Visa transaction; or the UCAF indicator for a MasterCard transaction submitted in the <code>x_authentication_indicator</code> field is invalid.
3	117	The cardholder authentication value is invalid.	This code is applicable only to merchants that include the <code>x_cardholder_authentication_value</code> in the transaction request. The CAVV for a Visa transaction; or the AVV/UCAF for a MasterCard transaction is invalid.
3	118	The combination of authentication indicator and cardholder authentication value is invalid.	This code is applicable only to merchants that include the <code>x_authentication_indicator</code> and <code>x_authentication_value</code> in the transaction request. The combination of authentication indicator and cardholder authentication value for a Visa or MasterCard transaction is invalid.
3	119	Transactions having cardholder authentication values cannot be marked as recurring.	This code is applicable only to merchants that include the <code>x_authentication_indicator</code> and <code>x_recurring_billing</code> in the transaction request. Transactions submitted with a value in <code>x_authentication_indicator</code> AND <code>x_recurring_billing</code> = YES will be rejected.
3	120	An error occurred during processing. Please try again.	The system-generated void for the original timed-out transaction failed. (The original transaction timed out while waiting for a response from the authorizer.)
3	121	An error occurred during processing. Please try again.	The system-generated void for the original errored transaction failed. (The original transaction experienced a database error.)
3	122	An error occurred during processing. Please try again.	The system-generated void for the original errored transaction failed. (The original transaction experienced a processing error.)
2	127	The transaction resulted in an AVS mismatch. The address provided does not match billing address of cardholder.	The system-generated void for the original AVS-rejected transaction failed.
3	128	This transaction cannot be processed.	The customer's financial institution does not currently allow transactions for this account.
2	141	This transaction has been declined.	The system-generated void for the original FraudScreen-rejected transaction failed.
2	145	This transaction has been declined.	The system-generated void for the original card code-rejected and AVS-rejected transaction failed.
3	152	The transaction was authorized, but the client could not be notified; the transaction will not be settled.	The system-generated void for the original transaction failed. The response for the original transaction could not be communicated to the client.

2	165	This transaction has been declined.	The system-generated void for the original card code-rejected transaction failed.
3	170	An error occurred during processing. Please contact the merchant.	Concord EFS – Provisioning at the processor has not been completed.
3	171	An error occurred during processing. Please contact the merchant.	Concord EFS – This request is invalid.
3	172	An error occurred during processing. Please contact the merchant.	Concord EFS – The store ID is invalid.
3	173	An error occurred during processing. Please contact the merchant.	Concord EFS – The store key is invalid.
3	174	The transaction type is invalid. Please contact the merchant.	Concord EFS – This transaction type is not accepted by the processor.
3	175	The processor does not allow voiding of credits.	Concord EFS – This transaction is not allowed. The Concord EFS processing platform does not support voiding credit transactions. Please debit the credit card instead of voiding the credit.
3	180	An error occurred during processing. Please try again.	The processor response format is invalid.
3	181	An error occurred during processing. Please try again.	The system-generated void for the original invalid transaction failed. (The original transaction included an invalid processor response format.)
3	185	This reason code is reserved or not applicable to this API.	
4	193	The transaction is currently under review.	The transaction was placed under review by the risk management system.
2	200	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The credit card number is invalid.
2	201	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The expiration date is invalid.
2	202	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The transaction type is invalid.
2	203	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The value submitted in the amount field is invalid.
2	204	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The department code is invalid.
2	205	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The value submitted in the merchant number field is invalid.
2	206	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The merchant is not on file.
2	207	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The merchant account is closed.
2	208	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The merchant is not on file.
2	209	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. Communication with the processor

			could not be established.
2	210	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The merchant type is incorrect.
2	211	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The cardholder is not on file.
2	212	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The bank configuration is not on file
2	213	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The merchant assessment code is incorrect.
2	214	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. This function is currently unavailable.
2	215	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The encrypted PIN field format is invalid.
2	216	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The ATM term ID is invalid.
2	217	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. This transaction experienced a general message format problem.
2	218	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The PIN block format or PIN availability value is invalid.
2	219	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The ETC void is unmatched.
2	220	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The primary CPU is not available.
2	221	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. The SE number is invalid.
2	222	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. Duplicate auth request (from INAS).
2	223	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. This transaction experienced an unspecified error.
2	224	This transaction has been declined.	This error code applies only to merchants on FDC Omaha. Please re-enter the transaction.
3	243	Recurring billing is not allowed for this eCheck.Net type.	The combination of values submitted for x_recurring_billing and x_echeck_type is not allowed.
3	244	This eCheck.Net type is not allowed for this Bank Account Type.	The combination of values submitted for x_bank_acct_type and x_echeck_type is not allowed.
3	245	This eCheck.Net type is not allowed when using the payment gateway hosted payment form.	The value submitted for x_echeck_type is not allowed when using the payment gateway hosted payment form.
3	246	This eCheck.Net type is not allowed.	The merchant's payment gateway account is not enabled to submit the eCheck.Net type.
3	247	This eCheck.Net type is not allowed.	The combination of values submitted for x_type and x_echeck_type is not allowed.

3	243	Recurring billing is not allowed for this eCheck.Net type.	The combination of values submitted for x_recurring_billing and x_echeck_type is not allowed.
3	244	This eCheck.Net type is not allowed for this Bank Account Type.	The combination of values submitted for x_bank_acct_type and x_echeck_type is not allowed.
3	245	This eCheck.Net type is not allowed when using the payment gateway hosted payment form.	The value submitted for x_echeck_type is not allowed when using the payment gateway hosted payment form.
3	246	This eCheck.Net type is not allowed.	The merchant's payment gateway account is not enabled to submit the eCheck.Net type.
3	247	This eCheck.Net type is not allowed.	The combination of values submitted for x_type and x_echeck_type is not allowed.
2	250	This transaction has been declined.	This transaction was submitted from a blocked IP address.
2	251	This transaction has been declined.	The transaction was declined as a result of triggering a Fraud Detection Suite filter.
4	252	Your order has been received. Thank you for your business!	The transaction was accepted, but is being held for merchant review. The merchant may customize the customer response in the Merchant Interface.
4	253	Your order has been received. Thank you for your business!	The transaction was accepted and was authorized, but is being held for merchant review. The merchant may customize the customer response in the Merchant Interface.
2	254	Your transaction has been declined.	The transaction was declined after manual review.
3	261	An error occurred during processing. Please try again.	The transaction experienced an error during sensitive data encryption and was not processed. Please try again.
3	270	The line item [item number] is invalid.	A value submitted in x_line_item for the item referenced is invalid.
3	271	The number of line items submitted is not allowed. A maximum of 30 line items can be submitted.	The number of line items submitted in x_line_item exceeds the allowed maximum of 30.

Note: Response code reasons that are not included in numerical order are reserved, or may not be applicable to this API.

HTTP Error Codes & Reason Text

HTTP CODE	RESPONSE REASON TEXT	NOTES
503	Our servers are currently too busy to handle your request. Please wait a minute and resubmit. Thank you.	The payment gateway has momentarily reached transaction queuing capacity.

Appendix A – Types of Credit Card Transactions

There are two steps to credit card transaction processing:

1. *Authorization* is the process of checking the validity and available balance of a customer's credit card before the transaction is accepted. The transaction submission methods describe the request for authorization.
2. *Settlement*, also referred to as "Capture," is the process by which the funds are actually transferred from the customer to the merchant for goods and services sold. Based on the transaction type specified in the authorization request, the gateway will initiate the settlement step. As part of the settlement process, the gateway will send a settlement request to the financial institution to request transfer of funds. Please note that the timeframe within which funds are actually transferred is not controlled by the gateway.

Credit Card Transaction Types

The following table describes the type of transactions that can be submitted to the gateway and how the gateway will process them.

TRANSACTION TYPE	DESCRIPTION
AUTH_CAPTURE	Transactions of this type will be sent for authorization. The transaction will be automatically picked up for settlement if approved. This is the default transaction type in the gateway. If no type is indicated when submitting transactions to the gateway, the gateway will assume that the transaction is of the type AUTH_CAPTURE.
AUTH_ONLY	Transactions of this type are submitted if the merchant wishes to validate the credit card for the amount of the goods sold. If the merchant does not have goods in stock or wishes to review orders before shipping the goods, this transaction type should be submitted. The gateway will send this type of transaction to the financial institution for approval. However this transaction will not be sent for settlement. If the merchant does not act on the transaction within 30 days, the transaction will no longer be available for capture.
PRIOR_AUTH_CAPTURE	<p>This transaction is used to complete an AUTH_ONLY transaction that was previously successfully authorized through the payment gateway.</p> <p>The payment gateway will accept this transaction and initiate settlement if the following conditions are met:</p> <ul style="list-style-type: none">• The transaction is submitted with the ID (x_trans_id) of the original transaction, which needs to be settled.• The transaction ID is valid and the system has a record of the original transaction being submitted.• The original transaction referred to is not already settled or expired or errored.• The amount being requested for settlement in this transaction is less than or equal to the original authorized amount. <p>If no amount is submitted in this transaction, the gateway will initiate settlement for the amount of the originally authorized transaction.</p> <p>Note: If extended line item, tax, freight, and/or duty information was submitted with the original transaction, adjusted information may be submitted in the</p>

	<p>event that the transaction amount changed. If no adjusted line item, tax, freight, and/or duty information is submitted, the information submitted with the original transaction will apply.</p> <p>In addition to the required fields in the API, the following is required to submit a PRIOR_AUTH_CAPTURE type transaction:</p> <ul style="list-style-type: none"> • x_version = 3.1 • x_login = merchant Login ID • x_tran_key = merchant transaction key • x_trans_id = the transaction ID of the previously authorized transaction
CREDIT	<p>This transaction is also referred to as a “Refund” and indicates to the gateway that money should flow from the merchant to the customer. The gateway will accept a credit or a refund request if the transaction submitted meets the following conditions:</p> <ul style="list-style-type: none"> • The transaction is submitted with the ID of the original transaction against which the credit is being issued (x_trans_id). • The gateway has a record of the original transaction. • The original transaction has been settled. • The sum of the amount submitted in the Credit transaction and all credits submitted against the original transaction is less than the original transaction amount. • The full or last four digits of the credit card number submitted with the credit transaction match the full or last four digits of the credit card number used in the original transaction. • The transaction is submitted within 120 days of the settlement date of the original transaction. <p>A transaction key is required to submit a credit to the system (i.e., x_tran_key should have a valid value when a CREDIT transaction is submitted).</p>
CAPTURE_ONLY	<p>CAPTURE_ONLY is used to complete an authorized transaction that was not originally submitted through the payment gateway.</p> <p>This transaction may also be used to complete transactions that require voice authorization. When a merchant receives response code 2 and reason code 3, or response code 3 and reason code 12, in response to an original transaction they may resubmit the transaction with a voice authorization.</p> <p>For more information about response codes and reason codes, see the Response Reason Codes & Response Reason Texts section of this document.</p> <p>For a transaction of type CAPTURE_ONLY, the following fields are required (in addition to the other required fields in the API):</p> <ul style="list-style-type: none"> • x_version = 3.1 • x_login = merchant Login ID • x_tran_key = merchant transaction key • x_auth_code = the authorization code of the original transaction
VOID	<p>This transaction is an action on a previous transaction and is used to cancel the previous transaction and ensure it does not get sent for settlement. It can be done on any type of transaction (i.e., CREDIT, AUTH_CAPTURE, CAPTURE_ONLY, and AUTH_ONLY). The transaction will be accepted by the gateway if the following conditions are met:</p> <ul style="list-style-type: none"> • The transaction is submitted with the ID of the transaction that has to be voided. • The gateway has a record of the transaction referenced by the ID. • The transaction has not been sent for settlement.

	<p>For a transaction of type VOID, the following fields are required (in addition to the other required fields in the API):</p> <ul style="list-style-type: none"> • x_version = 3.1 • x_login = merchant Login ID • x_tran_key = merchant transaction key • x_trans_id = the transaction ID that needs to be voided
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Appendix B – Types of eCheck.Net Transactions

eCheck.Net transactions are not authorized in real time like credit card transactions. Instead, they are automatically submitted for settlement.

There are two steps to eCheck.Net transaction processing:

- a. *Settlement* occurs when the payment gateway initiates an Automated Clearing House (ACH) entry through the ACH system to request the collection of the appropriate funds from the consumer's financial institution.
- b. *Funding* occurs when funds collected for eCheck.Net transactions, less service and other fees or withholdings, are transferred to the merchant's bank account. Please note that the timeframe for funding depends on the risk settings for their payment gateway account.

Note: The merchant can specify when the last transaction is picked up for settlement by the gateway. To modify the Transaction Cut-Off Time, do the following:

1. Log into the Merchant Interface
2. Select *Settings*
3. Select *Transaction Cut-Off Time* from the General section
4. Using the drop-down boxes, select the desired cut-off time
5. Click *Submit* to save changes

eCheck.Net Types

The following table describes the eCheck.Net types supported by the payment gateway. Each code indicates how an eCheck.Net transaction was originated.

ECHECK.NET TYPE	DESCRIPTION
CCD – Cash Concentration or Disbursement	<p>CCD represents a charge or refund eCheck.Net transaction against a business checking account. Authorization is required for both one-time and recurring transactions.</p> <p>CCD transactions are funds transfers to or from a corporate entity.</p> <p>A CCD eCheck.Net transaction may be submitted via the Virtual Terminal, Batch Upload, your Web site payment form, any of the payment gateway connection methods (AIM, SIM, WebLink), Automated Recurring Billing or via shopping cart.</p>
PPD – Prearranged Payment and Deposit Entry	<p>PPD represents a charge or refund eCheck.Net transaction against a consumer checking or savings account.</p> <p>PPD transactions may only be originated when payment and deposit terms between the merchant and the customer are prearranged, for example with Automated Recurring Billing (ARB) transactions. A written authorization is required for one-time transactions and a written standing authorization is required for recurring transactions.</p> <p>A PPD eCheck.Net transaction may be submitted via the Virtual Terminal, Batch</p>

	Upload, any of the payment gateway connection methods (AIM, SIM, WebLink) or via Automated Recurring Billing.
TEL – Telephone-Initiated Entry	<p>TEL represents a charge eCheck.Net transaction against a consumer checking or savings account, and for which payment authorization was obtained from the customer via the telephone.</p> <p>TEL transactions may only be originated when an existing relationship between the merchant and the customer exists; or if no relationship exists, only when the customer initiates the telephone call to the merchant.</p> <p>TEL supports only one-time transactions.</p> <p>A TEL eCheck.Net transaction may be submitted via the Virtual Terminal, Batch Upload, or any of the payment gateway connection methods (AIM, SIM, WebLink).</p>
WEB – Internet-Initiated Entry	<p>WEB represents a charge eCheck.Net transaction against a consumer checking or savings account, and for which payment authorization was obtained from the customer via the Internet.</p> <p>WEB can be one-time or recurring transactions.</p> <p>One-time WEB transactions may be submitted via the Virtual Terminal, Batch Upload, your Web site payment form, any of the payment gateway connection methods (AIM, SIM, WebLink), or a shopping cart.</p> <p>Recurring WEB transactions may be submitted via the Virtual Terminal, Batch Upload, any of the payment gateway connection methods (AIM, SIM, WebLink) and Automated Recurring Billing (ARB).</p>

Merchants are required to obtain the proper payment authorization from the customer for each eCheck.Net type, as dictated by the National Automated Clearing House Association. For more information about the specific payment authorization requirements for each eCheck.Net type, see the eCheck.Net Operating Procedures and User Guide at <http://www.authorizenet.com/files/echecknetuserguide.pdf>.

Appendix C – Features of the Gateway

The following features are supported by the gateway in an effort to reduce merchant's chargeback liability.

Address Verification System

The Address Verification System (AVS) helps the merchant to validate the identity of its customers. To use this system, the merchant must submit the customer's credit card billing address to the gateway for validation. This information is submitted by the gateway to the financial institutions. The financial institutions compare the submitted address with the billing address on file for that particular credit card and return an AVS response code to the gateway. The gateway includes this code in the response back to the merchant.

AVS CODE	DESCRIPTION (<i>Italics denote a default setting</i>)
A	Address (Street) matches, ZIP does not
<i>B</i>	<i>Address information not provided for AVS check</i>
<i>E</i>	<i>AVS error</i>
<i>G</i>	<i>Non-U.S. Card Issuing Bank</i>
<i>N</i>	<i>No Match on Address (Street) or ZIP</i>
P	AVS not applicable for this transaction
<i>R</i>	<i>Retry – System unavailable or timed out</i>
<i>S</i>	<i>Service not supported by issuer</i>
<i>U</i>	<i>Address information is unavailable</i>
W	9 digit ZIP matches, Address (Street) does not
X	Address (Street) and 9 digit ZIP match
Y	Address (Street) and 5 digit ZIP match
Z	5 digit ZIP matches, Address (Street) does not

Credit Card Identification Code (CVV2/CVC2/CID)

The Credit Card Identification Code, or "Card Code," is a three- or four-digit security code that is printed on the back of credit cards in reverse italics in the card's signature panel (or on the front for American Express cards). The merchant can collect this information from the customer and submit the data to the gateway. The gateway will pass this information to the financial institution along with the credit card number. The financial institution will determine if the value matches the value on file for that credit card and return a code indicating whether the comparison failed or succeeded, in addition to whether the card was authorized. The gateway passes back this response code to the merchant. Based on the response received, the merchant can determine whether to accept or reject the transaction.

CARD CODE RESPONSE	DESCRIPTION
M	Card Code matched
N	Card Code does not match
P	Card Code was not processed

S	Card Code should be on card but was not indicated
U	Issuer was not certified for Card Code

Appendix D – Customizing Notification to Customers

Merchants will be sent a confirmation email after the gateway completes processing on a transaction submitted to the system. The confirmation email enables merchants to know the results of a given transaction. Multiple contacts can be configured to receive these email notifications. Additionally, merchants can choose to send a confirmation email to their customers.

It is possible to configure the confirmation email on a per-transaction basis by submitting the information with each transaction. The following table describes the fields used in the API to configure email notification to the customer; all fields are optional.

FIELD	VALUE	DESCRIPTION
x_email_customer	TRUE, FALSE	<p>If set to TRUE, the gateway will send an email to the customer after the transaction is processed using the customer email supplied in the transaction. If FALSE, no email will be sent to the customer.</p> <p>If no value is submitted, the gateway will look up the configuration in the Merchant Interface and send an email only if the merchant has configured the option to be TRUE.</p> <p>If there are no incoming parameters and the merchant has not configured this option, no email will be sent to the customer.</p>
x_header_email_receipt	Any valid text	This text will appear as the header on the transaction confirmation email sent to the customer.
x_footer_email_receipt	Any valid text	This text will appear as the footer on the transaction confirmation email sent to the customer.

Appendix E – The MD5 Hash Security Feature

What is the MD5 Hash Security Feature?

The MD5 hash security feature enables merchants to verify that the results of a transaction were actually sent from the gateway. The MD5 Hash works likes this:

1. The merchant sets a value in the Merchant Interface
2. The gateway uses this value, along with a predefined set of fields submitted in the transaction, to create a unique signature
3. The merchant or shopping cart server that receives the transaction response containing this signature determines whether it was returned from the gateway

The mathematical algorithm used to construct this signature is designed in such a way that any change to the information used in its calculation will cause a completely different signature to be created. Also, the information used in the calculation of the signature cannot be discovered through any analysis of the signature itself.

How is the Signature Constructed?

The MD5 signature is a hash of the following four fields: MD5 Hash Value, Login ID, Transaction ID, and Amount, in the following order:

"MD5 Hash Value" "Login ID" "Trans ID" "Amount"

For example, if the merchant's MD5 value was "wilson," the merchant Login ID was "mylogin," the transaction ID was "987654321," and the amount was "1.00," the MD5 algorithm would be run on the following string:

"wilsonmylogin9876543211.00"

Note: The value passed in *x_amount* is formatted with the correct number of decimal places and the decimal point for the type of currency used in the transaction. For transactions that do not include a transaction amount, mainly VOIDS, the amount used to calculate the MD5 Hash is formatted as 0.00.

How Should the Feature be Set Up on the Merchant's or Shopping Cart's Server?

The following steps are used by the merchant or shopping cart to evaluate the MD5 signature:

1. Create a script to receive transaction results
2. Run the MD5 algorithm on the fields indicated above
3. Determine if the signature created matches the signature that was returned by the gateway
4. If the signatures match, the response was sent by the gateway

Note: The shopping cart must establish a highly secure way by which merchants using the MD5 Hash feature can easily update their MD5 Hash Value; whether it be through a

secure, passworded interface, or by some other means mutually agreed upon by the merchant and the shopping cart.

It is necessary that the shopping cart have security policies and procedures in place that serve to protect the integrity of the merchant's account.

Appendix F – Cardholder Authentication Programs

The payment gateway supports the following cardholder authentication programs:

- Verified by Visa
- MasterCard® SecureCode™

Merchants participating in the cardholder authentication programs are required to submit the following authentication values with Visa and/or MasterCard transactions.

FIELD	REQUIRED	VALUE	MAX LENGTH	DESCRIPTION
x_authentication_indicator	Optional Required only for AUTH_ONLY and AUTH_CAPTURE transactions processed through cardholder authentication programs. When submitted with other transaction types, this value is ignored.	Valid ECI or UCAF indicator (obtained by the merchant after the authentication process).	N/A	The electronic commerce indicator (ECI) value for a Visa transaction; or the universal cardholder authentication field (UCAF) indicator for MasterCard transaction. This field is currently supported through FDC Nashville and Vital.
x_cardholder_authentication_value	Optional Required only for AUTH_ONLY and AUTH_CAPTURE transactions processed through cardholder authentication programs. When submitted with other transaction types, this value is ignored.	Valid CAVV, AVV, or UCAF value (obtained by the merchant after the authentication process).	N/A	The cardholder authentication verification value (CAVV) for Visa transactions; or accountholder authentication value (AVV)/ universal cardholder authentication field (UCAF) for MasterCard transactions. This field is currently supported through FDC Nashville and Vital.

Note: The cardholder authentication fields are currently supported only through the FDC Nashville and Vital processors. If these fields are submitted for transactions processed through any other processor, they will be ignored by the system.

For merchants using transaction version 3.1, *x_cavv_response* is included in the transaction response for Visa and/or MasterCard transactions. Merchants using transaction version 2.5 or

3.0 may not see the CAVV response code if they receive a transaction response. However, the CAVV response may be viewed on the Transaction Detail page for the transaction in the Merchant Interface.

The following table lists possible CAVV code responses.

CAVV CODE	DESCRIPTION
Blank or not present	CAVV not validated
0	CAVV not validated because erroneous data was submitted
1	CAVV failed validation
2	CAVV passed validation
3	CAVV validation could not be performed; issuer attempt incomplete
4	CAVV validation could not be performed; issuer system error
5	Reserved for future use
6	Reserved for future use
7	CAVV attempt – failed validation – issuer available (US issued card/non-US acquirer)
8	CAVV attempt – passed validation – issuer available (US issued card/non-US acquirer)
9	CAVV attempt – failed validation – issuer unavailable (US issued card/non-US acquirer)
A	CAVV attempt – passed validation – issuer unavailable (US issued card/non-US acquirer)
B	CAVV passed validation, information only, no liability shift

Cardholder Authentication Validation Rules

Invalid combinations of the two fields (*x_authentication_indicator* and *x_cardholder_authentication_value*) will cause the system to reject the transaction. Valid value combinations are as follows:

Visa

AUTHENTICATION INDICATOR	CARDHOLDER AUTHENTICATION VALUE
5	Not null
6	Not null
6	Null/Blank
7	Null/Blank
7	Not null (some international issuers may provide a CAVV value when ECI is 7)
Null/Blank	Null/Blank

MasterCard

AUTHENTICATION INDICATOR	CARDHOLDER AUTHENTICATION VALUE
0	Blank /Null
2	Not null
1	Null
Null	Null

Appendix G – Submitting Test Transactions

In order to test integration, the merchant or shopping cart should post transactions to **<https://test.authorize.net/gateway/transact.dll>**. The test gateway behavior will be identical to the primary gateway. Transactions sent to the test gateway are not submitted to financial institutions for authorization, will not be stored on the system and cannot be retrieved from the system.

Running a Test Transaction

The test transaction field in the transaction submission API is `x_test_request`. If a test transaction is desired, the value of this field should be set to `TRUE`.

The following table describes the gateway behavior based on the incoming field value and the mode configured through the Merchant Interface (meaning if the merchant's Payment Gateway account is placed in Test Mode).

VALUE PASSED IN X_TEST_REQUEST	CONFIGURATION IN MERCHANT INTERFACE	GATEWAY BEHAVIOR
TRUE	Test Mode ON	Transaction processed as test
FALSE	Test Mode ON	Transaction processed as test
TRUE	Test Mode OFF	Transaction processed as test
FALSE	Test Mode OFF	Transaction processed as a live transaction

If there is no value submitted in the `x_test_request` field, the system will use the configuration specified in the Merchant Interface (meaning if the merchant's Payment Gateway account is placed in Test Mode).

Testing to Generate Errors

To cause the system to generate a specific error, set the account to Test Mode and submit a transaction with the card number 422222222222. The system will return the response reason code equal to the amount of the submitted transaction. For example, to test response reason code number 27, a test transaction would be submitted with the credit card number, "422222222222," and the amount, "27.00."

Appendix H – Test Server

It is possible to test integration using a test gateway system. In order to test the integration, you should post transactions to **<https://test.authorize.net/gateway/transact.dll>**. The test gateway behavior will be identical to the primary gateway. Transactions sent to the test gateway are not submitted to financial institutions for authorization, will not be stored on the system and cannot be retrieved from the system (as is the case when using Test Mode set to TRUE with the primary gateway system).

Appendix I – Currency Codes

CURRENCY COUNTRY	CURRENCY CODE
Afghani (Afghanistan)	AFA
Algerian Dinar (Algeria)	DZD
Andorran Peseta (Andorra)	ADP
Argentine Peso (Argentina)	ARS
Armenian Dram (Armenia)	AMD
Aruban Guilder (Aruba)	AWG
Australian Dollar (Australia)	AUD
Azerbaijani Manat (Azerbaijan)	AZM
Bahamian Dollar (Bahamas)	BSD
Bahraini Dinar (Bahrain)	BHD
Baht (Thailand)	THB
Balboa (Panama)	PAB
Barbados Dollar (Barbados)	BBD
Belarussian Ruble (Belarus)	BYB
Belgian Franc (Belgium)	BEF
Belize Dollar (Belize)	BZD
Bermudian Dollar (Bermuda)	BMD
Bolivar (Venezuela)	VEB
Boliviano (Bolivia)	BOB
Brazilian Real (Brazil)	BRL
Brunei Dollar (Brunei Darussalam)	BND
Bulgarian Lev (Bulgaria)	BGN
Burundi Franc (Burundi)	BIF
Canadian Dollar (Canada)	CAD
Cape Verde Escudo (Cape Verde)	CVE
Cayman Islands Dollar (Cayman Islands)	KYD
Cedi (Ghana)	GHC
CFA Franc BCEAO (Guinea-Bissau)	XOF
CFA Franc BEAC (Central African Republic)	XAF
CFP Franc (New Caledonia)	XPF
Chilean Peso (Chile)	CLP
Colombian Peso (Colombia)	COP
Comoro Franc (Comoros)	KMF
Convertible Marks (Bosnia And Herzegovina)	BAM
Cordoba Oro (Nicaragua)	NIO
Costa Rican Colon (Costa Rica)	CRC
Cuban Peso (Cuba)	CUP
Cyprus Pound (Cyprus)	CYP
Czech Koruna (Czech Republic)	CZK
Dalasi (Gambia)	GMD
Danish Krone (Denmark)	DKK
Denar (The Former Yugoslav Republic Of Macedonia)	MKD
Deutsche Mark (Germany)	DEM
Dirham (United Arab Emirates)	AED
Djibouti Franc (Djibouti)	DJF
Dobra (Sao Tome And Principe)	STD
Dominican Peso (Dominican Republic)	DOP
Dong (Vietnam)	VND
Drachma (Greece)	GRD

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East Caribbean Dollar (Grenada)	XCD
Egyptian Pound (Egypt)	EGP
El Salvador Colon (El Salvador)	SVC
Ethiopian Birr (Ethiopia)	ETB
Euro (Europe)	EUR
Falkland Islands Pound (Falkland Islands)	FKP
Fiji Dollar (Fiji)	FJD
Forint (Hungary)	HUF
Franc Congolais (The Democratic Republic Of Congo)	CDF
French Franc (France)	FRF
Gibraltar Pound (Gibraltar)	GIP
Gold	XAU
Gourde (Haiti)	HTG
Guarani (Paraguay)	PYG
Guinea Franc (Guinea)	GNF
Guinea-Bissau Peso (Guinea-Bissau)	GWP
Guyana Dollar (Guyana)	GYD
Hong Kong Dollar (Hong Kong)	HKD
Hryvnia (Ukraine)	UAH
Iceland Krona (Iceland)	ISK
Indian Rupee (India)	INR
Iranian Rial (Islamic Republic Of Iran)	IRR
Iraqi Dinar (Iraq)	IQD
Irish Pound (Ireland)	IEP
Italian Lira (Italy)	ITL
Jamaican Dollar (Jamaica)	JMD
Jordanian Dinar (Jordan)	JOD
Kenyan Shilling (Kenya)	KES
Kina (Papua New Guinea)	PGK
Kip (Lao People's Democratic Republic)	LAK
Kroon (Estonia)	EEK
Kuna (Croatia)	HRK
Kuwaiti Dinar (Kuwait)	KWD
Kwacha (Malawi)	MWK
Kwacha (Zambia)	ZMK
Kwanza Reajustado (Angola)	AOR
Kyat (Myanmar)	MMK
Lari (Georgia)	GEL
Latvian Lats (Latvia)	LVL
Lebanese Pound (Lebanon)	LBP
Lek (Albania)	ALL
Lempira (Honduras)	HNL
Leone (Sierra Leone)	SLL
Leu (Romania)	ROL
Lev (Bulgaria)	BGL
Liberian Dollar (Liberia)	LRD
Libyan Dinar (Libyan Arab Jamahiriya)	LYD
Lilangeni (Swaziland)	SZL
Lithuanian Litas (Lithuania)	LTL
Loti (Lesotho)	LSL
Luxembourg Franc (Luxembourg)	LUF
Malagasy Franc (Madagascar)	MGF

Malaysian Ringgit (Malaysia)	MYR
Maltese Lira (Malta)	MTL
Manat (Turkmenistan)	TMM
Markka (Finland)	FIM
Mauritius Rupee (Mauritius)	MUR
Metical (Mozambique)	MZM
Mexican Peso (Mexico)	MXN
Mexican Unidad de Inversion (Mexico)	MXV
Moldovan Leu (Republic Of Moldova)	MDL
Moroccan Dirham (Morocco)	MAD
Mvdol (Bolivia)	BOV
Naira (Nigeria)	NGN
Nakfa (Eritrea)	ERN
Namibia Dollar (Namibia)	NAD
Nepalese Rupee (Nepal)	NPR
Netherlands (Netherlands)	ANG
Netherlands Guilder (Netherlands)	NLG
New Dinar (Yugoslavia)	YUM
New Israeli Sheqel (Israel)	ILS
New Kwanza (Angola)	AON
New Taiwan Dollar (Province Of China Taiwan)	TWD
New Zaire (Zaire)	ZRN
New Zealand Dollar (New Zealand)	NZD
Ngultrum (Bhutan)	BTN
North Korean Won (Democratic People's Republic Of Korea)	KPW
Norwegian Krone (Norway)	NOK
Nuevo Sol (Peru)	PEN
Ouguiya (Mauritania)	MRO
Pa'anga (Tonga)	TOP
Pakistan Rupee (Pakistan)	PKR
Palladium	XPD
Pataca (Macau)	MOP
Peso Uruguayo (Uruguay)	UYU
Philippine Peso (Philippines)	PHP
Platinum	XPT
Portuguese Escudo (Portugal)	PTE
Pound Sterling (United Kingdom)	GBP
Pula (Botswana)	BWP
Qatari Rial (Qatar)	QAR
Quetzal (Guatemala)	GTQ
Rand (Financial) (Lesotho)	ZAL
Rand (South Africa)	ZAR
Rial Omani (Oman)	OMR
Riel (Cambodia)	KHR
Rufiyaa (Maldives)	MVR
Rupiah (Indonesia)	IDR
Russian Ruble (Russian Federation)	RUB
Russian Ruble (Russian Federation)	RUR
Rwanda Franc (Rwanda)	RWF
Saudi Riyal (Saudi Arabia)	SAR
Schilling (Austria)	ATS
Seychelles Rupee (Seychelles)	SCR

Silver	XAG
Singapore Dollar (Singapore)	SGD
Slovak Koruna (Slovakia)	SKK
Solomon Islands Dollar (Solomon Islands)	SBD
Som (Kyrgyzstan)	KGS
Somali Shilling (Somalia)	SOS
Spanish Peseta (Spain)	ESP
Sri Lanka Rupee (Sri Lanka)	LKR
St Helena Pound (St Helena)	SHP
Sucre (Ecuador)	ECS
Sudanese Dinar (Sudan)	SDD
Surinam Guilder (Suriname)	SRG
Swedish Krona (Sweden)	SEK
Swiss Franc (Switzerland)	CHF
Syrian Pound (Syrian Arab Republic)	SYP
Tajik Ruble (Tajikistan)	TJR
Taka (Bangladesh)	BDT
Tala (Samoa)	WST
Tanzanian Shilling (United Republic Of Tanzania)	TZS
Tenge (Kazakhstan)	KZT
Timor Escudo (East Timor)	TPE
Tolar (Slovenia)	SIT
Trinidad and Tobago Dollar (Trinidad And Tobago)	TTD
Tugrik (Mongolia)	MNT
Tunisian Dinar (Tunisia)	TND
Turkish Lira (Turkey)	TRL
Uganda Shilling (Uganda)	UGX
Unidad de Valor Constante (Ecuador)	ECV
Unidades de fomento (Chile)	CLF
US Dollar (Next day) (United States)	USN
US Dollar (Same day) (United States)	USS
US Dollar (United States)	USD
Uzbekistan Sum (Uzbekistan)	UZS
Vatu (Vanuatu)	VUV
Won (Republic Of Korea)	KRW
Yemeni Rial (Yemen)	YER
Yen (Japan)	JPY
Yuan Renminbi (China)	CNY
Zimbabwe Dollar (Zimbabwe)	ZWD
Zloty (Poland)	PLN