

Appendix B – Functional Reference & Result Fields

In version 3.0 and 3.1 of the system, there are many ways to integrate a merchant's server with the system. This section provides a convenient reference to all of the types of information that can be sent to the system, and all of the things that could be expected in return. All integration with the system is done by performing an HTTP(S) form POST to <https://secure.authorize.net/gateway/transact.dll>.

Form Fields

The following table provides an alphabetical list of all of the possible values that will be recognized by the system when sent in an HTML form. This table specifies which fields and which values are needed for each of the different connection types.

v3.0 and v3.1 Gateway Interface Form Field Names	v2.5 Equivalent Form Field Names	Possible Values (Bold = Default if not present or stored)	WebLink	ADC Direct Response	ADC Relay Response
x_ADC_Delim_Character	DELIMCHARACTER	any character (,)	N/A	optional	N/A
x_ADC_Delim_Data		TRUE	N/A	required	N/A
x_ADC_Encapsulate_Character	ENCAPSULATE	any character (none)	N/A	optional	N/A
x_ADC_Relay_Response		TRUE	N/A	N/A	required
x_ADC_URL		any valid URL (or FALSE for ADC Direct Response)	N/A	required (it is required for x_ADC_URL to have a value of "FALSE" for ADC Direct Response)	required
x_Address	ADDRESS	any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_Amount	AMOUNT	any valid amount	required	required	required
x_Auth_Code	AUTHCODE	any valid Authorization Code	optional	optional	optional
x_Background_URL	(configuration value only)	any valid URL	optional	optional	optional
x_Bank_ABA_Code	ABACODE	any valid bank ABA code	required for all eCheck transactions—otherwise optional	required for all eCheck transactions—otherwise optional	required for all eCheck transactions—otherwise optional
x_Bank_Acct_Num	ACCTNO	any valid bank account number	required for all eCheck transactions—otherwise	required for all eCheck transactions—otherwise	required for all eCheck transactions—otherwise

v3.0 and v3.1 Gateway Interface Form Field Names	v2.5 Equivalent Form Field Names	Possible Values (Bold = Default if not present or stored)	WebLink	ADC Direct Response	ADC Relay Response
			optional	optional	optional
x_Bank_Acct_Type		CHECKING, SAVINGS	optional	optional	optional
x_Bank_Name	BANKNAME	any valid bank name	required for all eCheck transactions—otherwise optional	required for all eCheck transactions—otherwise optional	required for all eCheck transactions—otherwise optional
x_Card_Code		any valid CVV2 or CVC2 value	optional	optional	optional
x_Card_Num	CARDNUM	any valid credit card number	required if not using x_Show_Form	required	required if not using x_Show_Form
x_City	CITY	any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_Color_Background	(configuration value only)	any valid color or color hex code (White or #FFFFFF)	optional	optional	optional
x_Color_Link		any valid color or color hex code (Blue or #0000FF)	optional	optional	optional
x_Color_Text	(configuration value only)	any valid color or color hex code (Black or #000000)	optional	optional	optional
x_Company		any string	optional	optional	optional
x_Country	COUNTRY	any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_Cust_ID	CUSTID	any string	optional	optional	optional
x_Customer_IP		Must be in the format 255.255.255.255	optional	optional	optional
x_Customer_Tax_ID		20 digits (numbers and spaces only)—may be used for customer SSN	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)
x_Customer_Organization_Type		"I" or "B" "I" = Individual "B" = Business	optional	optional	optional

v3.0 and v3.1 Gateway Interface Form Field Names	v2.5 Equivalent Form Field Names	Possible Values (Bold = Default if not present or stored)	WebLink	ADC Direct Response	ADC Relay Response
x_Description	DESCRIPTION	any string	optional	optional	optional
x_Drivers_License_Num		eCheck only, any string	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)
x_Drivers_License_State		eCheck only, 2-character state abbreviation	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)
x_Drivers_License_DOB		eCheck only, YYYYMMDD	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)	required for all eCheck transactions (either drivers license #, state and DOB, or SSN)
x_Duty		any valid amount	optional	optional	optional
x_Email	EMAIL	any valid email address	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_Email_Customer	EMAILCUSTOMER	TRUE, FALSE	optional	optional	optional
x_Email_Merchant	(configuration value only)	TRUE, FALSE	optional	optional	optional
x_Exp_Date	EXPDATE	mmyy, mm/yy, mm/yyyy	required if not using x_Show_Form	required	required if not using x_Show_Form
x_Fax	FAX	any string	optional	optional	optional
x_First_Name		any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_Footer_Email_Receipt	(configuration value only)	any valid text	optional	optional	optional
x_Footer_Html_Payment_Form	(configuration value only)	any valid text or HTML	optional	optional	optional
x_Footer_Html_Receipt	(configuration value only)	any valid text or HTML	optional	optional	optional

v3.0 and v3.1 Gateway Interface Form Field Names	v2.5 Equivalent Form Field Names	Possible Values (Bold = Default if not present or stored)	WebLink	ADC Direct Response	ADC Relay Response
x_Freight		any valid amount	Required for all eCheck transactions and Wells Fargo SecureSource Merchants (\$0 is valid)—otherwise optional	Required for all eCheck transactions and Wells Fargo SecureSource Merchants (\$0 is valid)—otherwise optional	Required for all eCheck transactions and Wells Fargo SecureSource Merchants (\$0 is valid)—otherwise optional
x_Header_Email_Receipt	(configuration value only)	any valid text	optional	optional	optional
x_Header_Html_Payment_Form		any valid text or HTML	optional	optional	optional
x_Header_Html_Receipt	(configuration value only)	any valid text or HTML	optional	optional	optional
x_Invoice_Num	INVOICE	any string	optional	optional	optional
x_Last_Name	NAME	any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_Login	LOGIN	any valid merchant login ID	required	required	required
x_Logo_URL	(configuration value only)	any valid URL	optional	optional	optional
x_Merchant_Email	(configuration value only)	any valid email address	optional	optional	optional
x_Method	METHOD	CC, ECHECK	should be set to ECHECK for eCheck transactions—otherwise optional	should be set to ECHECK for eCheck transactions—otherwise optional	should be set to ECHECK for eCheck transactions—otherwise optional
x_Password	PASSWORD	valid password for the Login ID specified in x_Login	N/A	required for x_Type values of CREDIT, VOID, CAPTURE_ONLY, and PRIOR_AUTH_CAPTURE—otherwise optional	required for x_Type values of CREDIT, VOID, CAPTURE_ONLY, and PRIOR_AUTH_CAPTURE—otherwise optional
x_Phone	PHONE	any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_PO_Num		any string	optional	optional	optional

v3.0 and v3.1 Gateway Interface Form Field Names	v2.5 Equivalent Form Field Names	Possible Values (Bold = Default if not present or stored)	WebLink	ADC Direct Response	ADC Relay Response
x_Receipt_Link_Method	(configuration value only)	LINK , POST, GET	optional	optional	optional
x_Receipt_Link_Text	(configuration value only)	any string ("Continue")	optional	optional	optional
x_Receipt_Link_URL	(configuration value only)	any valid URL (must also exist in Merchant Configuration)	optional	optional	optional
x_Recurring_Billing		TRUE, FALSE	optional	optional	optional
x_Rename		[OldVariableName], [NewVariableName]	optional	optional	optional
x_Ship_To_Address		any string	optional	optional	optional
x_Ship_To_City		any string	optional	optional	optional
x_Ship_To_Company		any string	optional	optional	optional
x_Ship_To_Country		any string	optional	optional	optional
x_Ship_To_First_Name		any string	optional	optional	optional
x_Ship_To_Last_Name		any string	optional	optional	optional
x_Ship_To_State		any string	optional	optional	optional
x_Ship_To_Zip		any string	optional	optional	optional
x_Show_Form		PAYMENT_FORM (do not use this field if you do not want to show the system's payment form)	optional	N/A	optional
x_State	STATE	any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional
x_Tax		any valid amount	Required for all eCheck transactions and Wells Fargo SecureSource Merchants (\$0 is valid)—otherwise optional	Required for all eCheck transactions and Wells Fargo SecureSource Merchants (\$0 is valid)—otherwise optional	Required for all eCheck transactions and Wells Fargo SecureSource Merchants (\$0 is valid)—otherwise optional
x_Tax_Exempt		TRUE, FALSE	optional	optional	optional
x_Test_Request	TESTREQUEST	TRUE, FALSE	optional	optional	optional
x_Trans_ID	TRANSID	any valid Transaction ID	optional	optional	optional

v3.0 and v3.1 Gateway Interface Form Field Names	v2.5 Equivalent Form Field Names	Possible Values (Bold = Default if not present or stored)	WebLink	ADC Direct Response	ADC Relay Response
x_Type	TYPE	AUTH_CAPTURE, AUTH_ONLY, CAPTURE_ONLY, CREDIT, VOID, PRIOR_AUTH_CAPTURE	optional--see the table below for more information	optional--see the table below for more information	optional--see the table below for more information
x_Use_Fraudscreen		(Reserved for future use)	Not yet supported		
x_Version		2.5, 3.0 , 3.1	Optional, but strongly recommended to be set to 3.0 or 3.1 to inform the system that you are passing 3.0 or 3.1 code.	Optional, but strongly recommended to be set to 3.0 or 3.1 to inform the system that you are passing 3.0 or 3.1 code and are expecting a 3.0 or 3.1 response.	Optional, but strongly recommended to be set to 3.0 or 3.1 to inform the system that you are passing 3.0 or 3.1 code and are expecting a 3.0 or 3.1 response.
x_Zip	ZIP	any string	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional	required for all eCheck transactions and Wells Fargo SecureSource Merchants—otherwise optional

Transaction Types

The following table provides a description of the several different transaction types for use with the x_Type form field. For more detailed information, see the section titled [Credit Card Transaction Types](#) in the major section on Authorize.Net Basics and Requirements.

Type	Description
AUTH_CAPTURE	Auth-Capture is the normal transaction method; a transaction is sent to the system for approval, the transaction is approved, the merchant is notified of the approval, and the transaction automatically settles at the end of the business day without any further action by the merchant.
AUTH_ONLY	Auth-Only stands for Authorization-Only and means obtaining an authorization for a certain amount on a customer's credit card without actually charging the card. If the money is not captured within 30 days, the transaction will expire.
PRIOR_AUTH_CAPTURE	A Prior-Auth-Capture transaction is used to capture funds authorized previously using an Auth-Only transaction. Prior-Auth-Capture is really just an operation on an already existing transaction. Prior-Auth-Capture should only be used on Auth-Only transactions processed using the system.
CAPTURE_ONLY	Capture-Only transactions are used when an authorization-only is obtained through any means other than the system.
CREDIT	Credits are not processed in real time, but are submitted at settlement time with other transactions.
VOID	Voiding a transaction prevents a charge to a credit card/bank account from occurring. Voids are performed on existing transactions that have yet to be settled.

ADC Result Fields

The ADC methods provide a way of connecting to the gateway in which a merchant's server can integrate directly with the system to send transactions and receive responses. The table below provides a reference to all of the fields of information that are returned by one of the Automated Direct Connect (ADC) methods.

The ADC Relay Response method will return an HTTP(S) form POST containing the following fields to a script written by the merchant to complete the purchasing process and/or generate an HTML page to be displayed to the customer. The URL of this script is designated using the **x_ADC_URL** field, and must be set as one of the Valid ADC or Receipt Link URLs in the URL Manager section of the Settings menu. This post will occur after the transaction is processed, and the response given by the merchant's script will be displayed to the customer as the result of the transaction. It is possible that none of the system's pages will ever be displayed using this method.

The ADC Direct Response method will return a simple comma delimited string (field1,field2,field3,etc.) containing the fields from the following table in the order indicated below. This format can be changed in the Automated Direct Connect (ADC) Settings section of the Settings menu. A developer would parse this string to obtain the desired information.

IMPORTANT: The 3.0 response string is different from the 3.1 response string. The 3.0 response string contains system fields 1-38 as shown below and echoes merchant defined fields from field 39 on, in the order the system received them. The 3.1 response string contains 68 system fields with field number 39 representing the **x_cvv2_resp_code**. In the 3.1 response string, merchant defined fields are echoed from field 69 on. Merchants wishing to use the CVV2 response code must switch to response string version 3.1. The response string version is set from within the Merchant Menu Interface.

To change the **Response String Version**, do the following:

- Click **Settings**.
- Select **General Merchant Settings**.
- Click **Go**.
- Under General Settings, select the desired **Response String Version**.
- Click **Submit** to save changes.

Position in Direct Response return	Field Name	Description
1	x_response_code	Indicates the result of the transaction. 1 = Approved, 2 = Declined, 3 = Error
2	x_response_subcode	A code used by the system for internal transaction tracking
3	x_response_reason_code	A code representing more details about the result of the transaction.
4	x_response_reason_text	Brief description of result, which corresponds with the Response Reason Code
5	x_auth_code	6 digit approval code
6	x_avs_code	Indicates the result of Address Verification System (AVS) checks. A = Address (Street) matches, ZIP does not E = AVS error N = No Match on Address (Street) or ZIP

Position in Direct Response return	Field Name	Description
		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 = Exact AVS Match Y = Address (Street) and 5 digit ZIP match Z = 5 digit ZIP matches, Address (Street) does not
7	x_trans_id	This number identifies the transaction in the system, and can be used to submit a modification of this transaction at a later time via HTTP(S) form POST (such as voiding the transaction, or capturing an Auth Only transaction).
8	x_invoice_num	echoed from form input values
9	x_description	echoed from form input values
10	x_amount	echoed from form input values
11	x_method	echoed from form input values
12	x_type	echoed from form input values
13	x_cust_id	echoed from form input values
14	x_first_name	echoed from form input values
15	x_last_name	echoed from form input values
16	x_company	echoed from form input values
17	x_address	echoed from form input values
18	x_city	echoed from form input values
19	x_state	echoed from form input values
20	x_zip	echoed from form input values
21	x_country	echoed from form input values
22	x_phone	echoed from form input values
23	x_fax	echoed from form input values
24	x_email	echoed from form input values
25	x_ship_to_first_name	echoed from form input values
26	x_ship_to_last_name	echoed from form input values
27	x_ship_to_company	echoed from form input values
28	x_ship_to_address	echoed from form input values
29	x_ship_to_city	echoed from form input values
30	x_ship_to_state	echoed from form input values
31	x_ship_to_zip	echoed from form input values
32	x_ship_to_country	echoed from form input values
33	x_tax	echoed from form input values
34	x_duty	echoed from form input values
35	x_freight	echoed from form input values
36	x_tax_exempt	echoed from form input values
37	x_po_num	echoed from form input values
38	x_md5_hash	generated by the system and to be validated by merchant for added security
39 (v3.1 only)	x_cvv2_resp_code	Indicates the results of CVV2 verification: M=Match

Position in Direct Response return	Field Name	Description
		N=No Match P=Not Processed S=Should have been present U=Issuer unable to process request
40 (v3.1 only)		(reserved for future use)
41 (v3.1 only)		(reserved for future use)
42 (v3.1 only)		(reserved for future use)
43 (v3.1 only)		(reserved for future use)
44 (v3.1 only)		(reserved for future use)
45 (v3.1 only)		(reserved for future use)
46 (v3.1 only)		(reserved for future use)
47 (v3.1 only)		(reserved for future use)
48 (v3.1 only)		(reserved for future use)
49 (v3.1 only)		(reserved for future use)
50 (v3.1 only)		(reserved for future use)
51 (v3.1 only)		(reserved for future use)
52 (v3.1 only)		(reserved for future use)
53 (v3.1 only)		(reserved for future use)
54 (v3.1 only)		(reserved for future use)
55 (v3.1 only)		(reserved for future use)
56 (v3.1 only)		(reserved for future use)
57 (v3.1 only)		(reserved for future use)
58 (v3.1 only)		(reserved for future use)
59 (v3.1 only)		(reserved for future use)
60 (v3.1 only)		(reserved for future use)
61 (v3.1 only)		(reserved for future use)

Position in Direct Response return	Field Name	Description
62 (v3.1 only)		(reserved for future use)
63 (v3.1 only)		(reserved for future use)
64 (v3.1 only)		(reserved for future use)
65 (v3.1 only)		(reserved for future use)
66 (v3.1 only)		(reserved for future use)
67 (v3.1 only)		(reserved for future use)
68 (v3.1 only)		(reserved for future use)
39 (v3.0) or 69 (v3.1)	<i>any merchant defined fields in the order the system received them</i>	echoed from form input values