Authorize.Net®

Testing Criteria Guide

Card Not Present (CNP) 3.1 Application

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Revision History

Date	Page(s)	Brief Description of Changes
12.2005		Initial release
10.2008		Removal of SecureSource requirements
2.2014		Updated submission steps and requirements
1.2015		Added requirement to include Solution ID with createTransactionRequest Removed Test Request

Introduction

This document describes requirements for certifying integration of a third-party application to the Authorize.Net Payment Gateway using the Card Not Present (CNP) 3.1 specification. The following items are required to obtain certification:

- **Market Type Certification:** Identify your application's target market below and fulfill the required transaction Test Cases for that market type. If your application can be used by merchants in both market types, you MUST fulfill the requirements for each market type, however, you do not need to submit duplicate transactions. A single transaction may be certified for overlapping test case requirements.

  o **E-Commerce Certification:** You must submit at least four (4) test transactions for e-commerce certification. In addition, there are four (4) optional transactions.

  o **Mail Order/Telephone (MOTO) Certification:** You must submit at least four (4) test transactions for MOTO certification. In addition, there are four (4) optional transactions.

- **Solution ID:** Include the unique identifier (solution ID) provided by Authorize.Net with each transaction. Using your solution ID enables better tracking and reporting of merchants using your solution.

Note: You will need a sandbox account to submit test cases to Authorize.Net. If you have not yet obtained a free, sandbox account, you can create one at http://developer.authorize.net/sandbox.

- You must submit your test results to http://developer.authorize.net/partners/solution/application/step1.

- Authorize.Net will inspect your test transactions and reply to your account contact with certification results.

Test Cases for Card Not Present (CNP) 3.1 Certification

Please see the Required Fields for Certification Transactions section for a list of all of the required fields for each transaction.

Test Cases for CNP 3.1 E-Commerce Certification

Solution ID (x_solution_id)

Test Case #	Operation (x_type)	Date	Time	Trans ID
1.	Authorize.Net AUTH_CAPTURE			
2.	Authorize.Net AUTH_ONLY			
3.	Authorize.Net PRIOR_AUTH_CAPTURE			
4.	eCheck.Net WEB AUTH_CAPTURE			

Optional Test Cases for CNP 3.1 E-Commerce Certification

Note:	Any Optional Transaction Types that pass certification will be noted in our Solutions Directory.

Test Case #	Operation (x_type)	Date	Time	Trans ID
5.	CAPTURE_ONLY			
6.	VOID			
7.	CREDIT (Linked)			
8.	CREDIT (Unlinked)			

Test Cases for CNP 3.1 MOTO Certification

Please see the Required Fields for Certification Transactions section for a list of all of the required fields for each transaction.

Solution ID (x_solution_id)

Test Case #	Operation (x_type)	Date	Time	Trans ID
1.	Authorize.Net AUTH_CAPTURE			
2.	Authorize.Net AUTH_ONLY			
3.	Authorize.Net PRIOR_AUTH_CAPTURE			
4.	eCheck.Net TEL AUTH_CAPTURE			

Optional Test Cases for CNP 3.1 MOTO Certification

Test Case #	Operation (x_type)	Date	Time	Trans ID

5.	CAPTURE_ONLY			
6.	VOID			
7.	CREDIT			
8.	CREDIT (Unlinked)			

Required Fields for Certification Transactions

AUTH_CAPTURE and AUTH_ONLY

The following fields should be submitted for Authorize.Net AUTH_CAPTURE and AUTH_ONLY certification transactions.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	The merchant's unique API Login ID	20	The merchant API Login ID is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_tran_key	The merchant's unique Transaction Key	16	The merchant Transaction Key is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_version	3.1	3	Indicates to the system the set of fields that will be included in the response.
x_delim_data	TRUE	5	In order to receive a delimited response from the gateway, this field has to be submitted with a value of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_relay_response	FALSE	5	

x_delim_char	Any valid 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.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response.
x_card_num	Numeric credit card number	22	Contains the credit card number.
x_exp_date	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 front for American Express)
x_amount	Any amount	15	Total value to be charged or credited inclusive of tax.
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	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.
x_recurring_billing	YES, NO	5	Indicates whether the transaction is a recurring billing transaction.

This field is not associated with Authorize.Net's Automated Recurring Billing™ (ARB), and should only contain a value of "YES" if the merchant is using a third-party recurring billing solution. |
x_invoice_num	Any string	20	Merchant-assigned invoice number.
x_description	Any string	255	Description of the transaction.
x_customer_ip	Required format is 255.255.255.255.	15	IP address of the customer initiating the transaction.
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.
x_address	Any string	60	Contains the address of the customer associated with the billing address for the transaction.
x_zip	Any string	20	Contains the ZIP code 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	40	Contains the state of the customer associated with the billing address for the transaction.
x_country	Any valid country code or full country name (spelled in English)	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_email	Any valid email address	255	Email address to which the customer's copy of the confirmation email is sent.
x_solution_id	Provided by Authorize.Net		A unique identifier used for tracking and reporting.

PRIOR_AUTH_CAPTURE and VOID

The following fields should be submitted for Authorize.Net PRIOR_AUTH_CAPTURE and VOID certification transactions.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	The merchant's unique API Login ID	20	The merchant API Login ID is provided in the Merchant Interface and must be stored securely. The API Login ID and

			Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_tran_key	The merchant's unique Transaction Key	16	The merchant Transaction Key is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_version	3.1	3	Indicates to the system the set of fields that will be included in the response.
x_delim_data	TRUE	5	In order to receive a delimited response from the gateway, this field has to be submitted with a value of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_relay_response	FALSE	5	
x_delim_char	Any valid 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.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response.
x_type	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.

x_card_num	Numeric credit card number	22	Contains the credit card number.
x_exp_date	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_trans_id	Valid transaction ID		ID of a transaction previously authorized by the gateway.
x_amount	Any amount	15	Total value to be charged or credited inclusive of tax.

CREDITS

Submitting CREDIT Transactions (Refunds)

The system supports two distinct types of CREDIT (refund) transactions known as Linked and Unlinked. By default all accounts are set to perform Linked CREDITS.

It is suggested that your solution support both type of CREDIT transactions in order to give your clients the most flexibility.

- **LINKED CREDIT:** References a previous charge transaction. The charge transaction must be settled, the amount cannot exceed the original amount and the CREDIT must be submitted within 120 days of the original charge transaction.

- **UNLINKED CREDIT:** No restrictions in terms of amount or time limits, although the merchant must submit the Expanded Credit Capabilities Form and be approved by Authorize.Net to enable this transaction type.

Note: The system will determine the type of CREDIT based on the field x_trans_id. To pass for an UNLINKED CREDIT, simply omit x_trans_id and include the full credit card number.

CREDIT (LINKED)

The following fields should be submitted for Authorize.Net (LINKED) CREDIT certification transactions.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	The merchant's unique API Login ID	20	The merchant API Login ID is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant

			authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_tran_key	The merchant's unique Transaction Key	16	The merchant Transaction Key is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_version	3.1	3	Indicates to the system the set of fields that will be included in the response.
x_delim_data	TRUE	5	In order to receive a delimited response from the gateway, this field has to be submitted with a value of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_relay_response	FALSE	5	
x_delim_char	Any valid 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.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response.
x_type	CREDIT	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.
x_card_num	Numeric credit card number (last four digits or full credit card number)	22	Contains the credit card number.
x_exp_date	MMYY, MM/YY, MM-YY, MMYYYY,	N/A	Contains the date on which the credit card expires.

	MM/YYYY, MM-YYYY, YYYY-MM-DD, YYYY/MM/DD		
x_trans_id	Valid transaction ID of original charge transaction		ID of a transaction previously authorized by the gateway.
x_amount	Any amount	15	Total value to be charged or credited inclusive of tax.
x_solution_id	Provided by Authorize.Net		A unique identifier used for tracking and reporting.

CREDIT (UNLINKED)

The following fields should be submitted for all Authorize.Net UNLINKED CREDIT certification transactions.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	The merchant's unique API Login ID	20	The merchant API Login ID is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_tran_key	The merchant's unique Transaction Key	16	The merchant Transaction Key is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_version	3.1	3	Indicates to the system the set of fields that will be included in the response.
x_delim_data	TRUE	5	In order to receive a delimited response

			from the gateway, this field has to be submitted with a value of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_relay_response	FALSE	5	
x_delim_char	Any valid 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.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response.
x_type	CREDIT	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.
x_card_num	Numeric credit card number (full credit card number)	22	Contains the credit card number.
x_exp_date	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_amount	Any amount	15	Total value to be charged or credited inclusive of tax.

CAPTURE_ONLY

The following fields should be submitted for Authorize.Net CAPTURE_ONLY certification transactions.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	Varies by merchant	20	The merchant API Login ID is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the

			payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_tran_key	The merchant's unique Transaction Key	16	The merchant Transaction Key is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_version	3.1	3	Indicates to the system the set of fields that will be included in the response.
x_delim_data	TRUE	5	In order to receive a delimited response from the gateway, this field has to be submitted with a value of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_relay_response	FALSE	5	
x_delim_char	Any valid 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.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response.
x_card_num	Numeric credit card number	22	Contains the credit card number.
x_exp_date	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 front for American Express)
x_auth_code	Valid authorization	6	Authorization Code for a previous transaction not authorized on the gateway

	code		that is being submitted for settlement.
x_amount	Any amount	15	Total value to be charged or credited inclusive of tax.
x_method	CC	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	CAPTURE_ONLY	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.
x_recurring_billing	YES, NO	5	Indicates whether the transaction is a recurring billing transaction. This field is not associated with Authorize.Net's Automated Recurring Billing™ (ARB), and should only contain a value of "YES" if the merchant is using a third-party recurring billing solution.
x_invoice_num	Any string	20	Merchant-assigned invoice number.
x_description	Any string	255	Description of the transaction.
x_customer_ip	Required format is 255.255.255.255.	15	IP address of the customer initiating the transaction.
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.
x_address	Any string	60	Contains the address of the customer associated with the billing address for the transaction.
x_zip	Any string	20	Contains the ZIP code 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	40	Contains the state of the customer associated with the billing address for the transaction.

x_country	Any valid country code or full country name (spelled in English)	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_email	Any valid email address	255	Email address to which the customer's copy of the confirmation email is sent.

Authorize.Net eCheck.Net (WEB)

The following fields should be submitted for Authorize.Net eCheck.Net (WEB) certification transactions.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	The merchant's unique API Login ID	20	The merchant API Login ID is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_tran_key	The merchant's unique Transaction Key	16	The merchant Transaction Key is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_version	3.1	3	Indicates to the system the set of fields that will be included in the

			response.
x_delim_data	TRUE	5	In order to receive a delimited response from the gateway, this field has to be submitted with a value of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_relay_response	FALSE	5	
x_delim_char	Any valid 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.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response.
x_bank_name	Valid bank name	50	Contains the name of the customer's financial institution.
x_bank_acct_name	Name on the customer's bank account	50	Is the customer's name as it appears on their bank account.
x_bank_acct_type	CHECKING	8	Describes the type of bank account.
x_bank_aba_code	Valid routing number	9	Routing number of a bank for eCheck.Net transactions.
x_bank_acct_num	Valid account number	20	Checking or savings account number.
x_echeck_type	WEB	3	Indicates the type of eCheck.Net payment request.
x_amount	Any amount	15	Total value to be charged or credited inclusive of tax.
x_method	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	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.
x_recurring_billing	YES, NO	5	Indicates whether the transaction is a recurring billing transaction. This field is not associated with Authorize.Net's Automated Recurring Billing™ (ARB), and should only contain a value of "YES" if the merchant is using a third-party

			recurring billing solution.
x_invoice_num	Any string	20	Merchant-assigned invoice number.
x_description	Any string	255	Description of the transaction.
x_customer_ip	Required format is 255.255.255.255.	15	IP address of the customer initiating the transaction.
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.
x_address	Any string	60	Contains the address of the customer associated with the billing address for the transaction.
x_zip	Any string	20	Contains the ZIP code 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	40	Contains the state of the customer associated with the billing address for the transaction.
x_country	Any valid country code or full country name (spelled in English)	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_email | Any valid email address | 255 | Email address to which the customer's copy of the confirmation email is sent. |
| x_solution_id | Provided by Authorize.Net | | A unique identifier used for tracking and reporting. |

Authorize.Net eCheck.Net (TEL)

The following fields should be submitted for Authorize.Net eCheck.Net (TEL) certification transactions.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_login	The merchant's unique API Login ID	20	The merchant API Login ID is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_tran_key	The merchant's unique Transaction Key	16	The merchant Transaction Key is provided in the Merchant Interface and must be stored securely. The API Login ID and Transaction Key together provide the merchant authentication required for access to the payment gateway. See the *Merchant Integration Guide* at http://www.authorize.net/support/merchant for more information.
x_version	3.1	3	Indicates to the system the set of fields that will be included in the response.
x_delim_data	TRUE	5	In order to receive a delimited response from the gateway, this field has to be submitted with a value of TRUE or the merchant has to configure a delimited response through the Merchant Interface.
x_relay_response	FALSE	5	
x_delim_char	Any valid 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.
x_encap_char	Any valid character	1	Character that will be used to encapsulate the fields in the transaction response.
x_bank_name	Valid bank name	50	Contains the name of the customer's financial institution.

x_bank_acct_name	Name on the customer's bank account	50	Is the customer's name as it appears on their bank account.
x_bank_acct_type	CHECKING	8	Describes the type of bank account.
x_bank_aba_code	Valid routing number	9	Routing number of a bank for eCheck.Net transactions.
x_bank_acct_num	Valid account number	20	Checking or savings account number.
x_echeck_type	TEL	3	Indicates the type of eCheck.Net payment request.
x_amount	Any amount	15	Total value to be charged or credited inclusive of tax.
x_method	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	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.
x_recurring_billing	YES, NO	5	Indicates whether the transaction is a recurring billing transaction. This field is not associated with Authorize.Net's Automated Recurring Billing™ (ARB), and should only contain a value of "YES" if the merchant is using a third-party recurring billing solution.
x_invoice_num	Any string	20	Merchant-assigned invoice number.
x_description	Any string	255	Description of the transaction.
x_customer_ip	Required format is 255.255.255.255.	15	IP address of the customer initiating the transaction.
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.
x_address	Any string	60	Contains the address of the customer associated with the billing address for the transaction.
x_zip	Any string	20	Contains the ZIP code 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	40	Contains the state of the customer associated with the billing address for the transaction.
x_country	Any valid country code or full country name (spelled in English)	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_email	Any valid email address	255	Email address to which the customer's copy of the confirmation email is sent.

Level 2 Data

Add the following fields to all Authorize.Net transactions to qualify for Level 2 Data certification.

FIELD	VALUE	MAX LENGTH	DESCRIPTION
x_po_num	Any string	25	Contains the purchase order number.
x_tax	Any valid amount	15	Contains the tax amount.
x_tax_exempt	TRUE, FALSE	5	Indicates whether the transaction is tax exempt.