



Integration Guide

Hosted Forms Integration Method.

Version 8.2

Cardstream Hosted Forms Integration Guide

This guide is for Merchants who do not have their own Secure Socket Layer (SSL) certificate and wish Cardstream to host their payment forms. **We strongly recommend that Merchants connect to Cardstream using the Cardstream Direct method.** If direct integration is not feasible, Merchants will require the following information to begin integration via Cardstream's hosted forms facility.

Cardstream Merchant ID and Merchant password.	The Merchant's user ID and password enable them to access and communicate with the Cardstream payment gateway. Please note that these details will differ from the username and password the Merchant received for the accessing the MMS. These details will have been sent to the Merchant when their account was set up. The Merchant may use either the test or live details as they wish.
Payment page URL	The Merchant will have a unique payment page URL if they have requested any specific branding, otherwise this URL is https://gateway.cardstream.com/secure.asp
Call back URL	This is a URL on the Merchant's site to which Customers are directed after the transaction has taken place and it must be able to read POST values sent to it.

When a Customer purchases items from the Merchant's web site, their site must present the Customer with an HTML form containing the values detailed below as an HTTP POST. The Customer is then presented with a secure payment form into which they enter their details and then re-directed back to the Merchant's call back URL with the results of the transaction passed as HTTP POST values.

Request Fields

When a Customer is presented with the final page on the Merchant's website (often the last stage of a check out before card details are required) a form containing the following fields must be submitted to the payment page URL.

Field Name	Mandatory	Description
VPMerchantID	Yes	Your Cardstream Merchant user ID
VPMerchantPassword	Yes	Your Cardstream Merchant password
VPAmount	Yes	The amount of the transaction in minor currency, e.g. £10.99 must be sent as 1099
VPCountryCode	Yes	ISO standard country code for Merchant location. Use 826 for UK based Merchants. Other options are available on request.
VPCountryCode	Yes	ISO standard currency code of transaction. Use 826 for Pound Sterling transactions. Other options are available on request. This will default to 826 if no other currency is requested.
VPTransactionUnique	Yes	A unique identifier set by the shopping cart. This is an added security feature designed to combat transaction spoofing.
VPOrderDesc	Yes	A unique value, often an invoice number, which will be displayed on the Customer's credit/debit card statement.
VPCallBack	Yes	This is the page on the Merchant's website to which the results of the transaction are sent. See <i>Response Fields</i> for a description of what is sent.
VPVerifyURL	No	This is an optional field. If present it must contain a URL on the Merchant's website. Cardstream will post the transaction results to this URL. It is highly recommended to use this feature to avoid the possibility of Customers changing values in the HTTP request before re-directing back to the Merchant's website and this will ensure that data on the transaction is captured in the case of the Customer disconnecting before reaching the Merchant's call back page. See <i>Response Fields</i> for a description of what is sent.
VPBillingHouseNumber	No	Required for AVS check. Customer's House Number. This is the house number registered by the Customer with the Card Issuing Bank.
VPBillingStreet	No	Required for AVS check. Customer's Street Name. This is the street name registered by the Customer with the Card Issuing Bank.
VPBillingCity	No	Required for AVS check. Customer's city or town. This is the city or town registered by the Customer with the Card Issuing Bank.
VPBillingState	No	Required for AVS check. Customer's state or county. This is the state or county registered by the Customer with the Card Issuing Bank.
VPBillingPostCode	No	Required for AVS check. Customer's postcode. Contents of this field are used to populate the TMS. If populated, the field is automatically returned as the additional response field VPBillingPostCode

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VPBillingEmail	No	Customer's email address. Contents of this field are used to populate the TMS. If populated, the field is automatically returned as the additional response field VPBillingEmail.
VPBillingPhoneNumber	No	Customer's telephone number. Contents of this field are used to populate the TMS. If populated, the field is automatically returned as the additional response field VPBillingPhoneNumber.

Response Fields

The following fields will be present in the Customer's HTTP POST request when re-directing back to the call back URL on the Merchant's website. The same values will also be posted to the URL defined in VPVerifyURL if this field is present.

Field Name	Appears	Description
VPResponseCode	Always	The response code indicates the state of the transaction. 00 is successful. Other codes are listed later in this document.
VPMessage	Always	Response message, for a successful transaction this will appear as the auth code (<i>AUTH CODE: XXXX</i>). For non-successful transactions, an error message such as <i>CARD DECLINED</i> may be present.
VPAmountReceived	On Success	The amount debited from the card.
VPTransactionUnique	Always	The unique transaction reference passed to Cardstream by the Merchant.

Response codes

Code	Meaning
00	Transaction successful
02	Card referred.
05	Card declined; check the VPMessage field to determine the reason.
30	This value indicated an error has occurred while processing the transaction. The VPMessage field will give more details as to the cause.