Hosted Payment Page Template

Introduction

The Hosted Payment Page allows for the collection, transmission and storage of sensitive card data to be handled by Bank of America Merchant Services, which keeps your application out of PA-DSS scope. Full customization of the HTML, CSS, and JS allows for a seamless integration into your product.

Form Customization

Payment Form
Payment Form Tokens are available for use within the payment form template. There are 2 types of fields:

- Form View tokens allow for the information to be passed in with the Start Data, populated, displayed on the screen, and allowed to be inputted by the form user.
- Data tokens allow for logic, such as if the amount may be editable, to be created on the form.

Form View Tokens:
Use the parameter name for the name of form field. For example, "<input type="text" name="amount" value="{{amount}}" />"

Field Name	Start Data	Editable	Type	Description and Allowed Values
Amount	x	x	Decimal	The total amount of the transaction to be processed. Value = 0 when Transaction Type is Save Only
BillingAddress1	x	x	String	The first line of the billing address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
BillingAddress2	x	x	String	The second line of the billing address. The value in Payment Data, whether it is empty or not, overrides the Start Data value
BillingCity	x	x	String	The city of the billing address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
BillingFirstName	x	x	String	The first name of the billing address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
BillingLastName	x	x	String	The last name of the billing address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
BillingState	x	x	String	The state of the billing address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
BillingZip	x	x	String	The zip of the billing address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
CardCvv		x	String	Indicates the CVV value of the card
CardExpiration		x	String	The card expiration date in MMYY format. Required when Payment Type is Credit.
CardNumber		x	String	The card number. Required when Payment Type is Credit
CheckAccountNumber		x	String	The check account number. Required when Payment Type is ACH.
CheckAccountType		x	String	The check account type. Values: Checking, Savings Required when Payment Type is ACH.
CheckNumber		x	String	The check number

CheckType	x	x	String	The check type. Values: Business, Personal Required when Payment Type is ACH.
Comment	x	x	String	The comment to display on the Payment View.
CustomerEmail	x	x	String	The customer's email address. The value in Payment Data, whether it is empty or not, overrides the Start Data value. Required on Payment View when Send Customer Receipt is true.
CustomerName	x	x	String	The customer's name. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
CustomFields		x	Collection	A collection of the configuration properties and values for custom fields configured for the merchant represented as key/value pairs. The keys include: - decimalplaces - description - errormessage - isnumeric - isrequired - maxlength - maxvalue - minvalue - name - position - regex In addition to the configuration property keys, three additional keys exist: - fqn - key - value The "fqn" key is the Fully Qualified Name of the custom field and is intended to be used for the value for the name attribute. The "key" key is the primary key of the custom field. The "value" key contains the collected value if one exists from a previous form POST. All keys are case-sensitive and lower case. The collection is ordered by the Position.
Description	x		String	The description to display on the Payment View.
DiscountAmount	x		Decimal	The discount amount portion of Amount.
InvoiceNumber	x		String	The invoice number.
NameOnCard		x	String	The name on the card. Required when Payment Type is Credit.
NameOnCheck		x	String	The name on the check. Required when Payment Type is ACH.
PaymentType	x	x	String	The payment type for the transaction. Values: ACH, Credit
PhoneNumber	x	x	String	The customer's phone number. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
ShippingAddress1	x	x	String	The first line of the shipping address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
ShippingAddress2	x	x	String	The second line of the shipping address. The value in Payment Data, whether it is empty or not, overrides the Start Data value
ShippingAmount	x		String	The shipping amount portion of Amount.
ShippingCity	x	x	String	The city of the shipping address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
ShippingFirstName	x	x	String	The first name of the shipping address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.

ShippingLastName	x	x	String	The last name of the shipping address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
ShippingState	x	x	String	The state of the shipping address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
ShippingZip	x	x	String	The zip of the shipping address. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
TaxAmount	x		Decimal	The tax amount portion of Amount
TipAmount	x		Decimal	The tip amount portion of Amount.

Data and Logic Tokens:

The token for a field is formatted as the field name enclosed within double "curly" braces "{{" and "}}". For example, to have the amount token replaced with the amount value use "{{amount}}" (without quotes) anywhere within the template.

Field Name	Type	Description and Allowed Values
AmountIsEditable	Boolean	Indicates whether the Amount passed as a value for Start Data can be edited on the Payment View. • If false, the Amount in Start Data will be used • If true and an Amount is not posted on Payment View, the Amount in Start Data will be used • If true and an Amount is posted on Payment View, the posted Amount overrides the Amount in Start Data
CardBrands	List	A list of all card brands supported in the gateway.
CheckAccountType???Checked	Boolean	The HTML Attribute Checked Helper value for Check Account Type. Available: • CheckAccountTypeCheckingChecked • CheckAccountTypeSavingsChecked
CheckAccountType???Selected	Boolean	The HTML Attribute Selected Helper value for Check Account Type. Available: • CheckAccountTypeCheckingSelected • CheckAccountTypeSavingsSelected
CheckType???Checked	Boolean	The HTML Attribute Checked Helper value for Check Type. Available: • CheckTypeBusinessChecked • CheckTypePersonalChecked
CheckType???Selected	Boolean	The HTML Attribute Selected Helper value for Check Type. Available: • CheckTypeBusinessSelected • CheckTpePersonalSelected
HasCustomFields	Boolean	Indicates whether Custom Fields exist.
MerchantCardBrands	List	A list of card brands available for the merchant based on the active processor profile
MerchantPaymentTypes	List	A list of payment types available for the merchant based on the active processor profile
PaymentType???Checked	Boolean	The HTML Attribute Checked Helper value for Payment Type. Available: • PaymentTypeACHChecked • PaymentTypeCreditChecked

Field Name	Type	Description and Allowed Values
PaymentType???Selected	Boolean	The HTML Attribute Selected Helper value for Payment Type. Available: • PaymentTypeACHSelected • PaymentTypeCreditSelected
PaymentTypes	List	A list of all payment types available in the gateway.
SendCustomerReceipt	Boolean	Indicates whether to send the customer a receipt for an approved transaction. The value in Payment Data, whether it is empty or not, overrides the Start Data value.
SendCustomerReceiptChecked	Boolean	Indicates whether the shipping address is the same as billing address. If true, the system will use provided billing information to populate shipping information. For example, if ShippingIsBilling is true, and a value is provided for ShippingCity, the ShippingCity value will be ignored and the BillingCity value will be used. The values in Payment Data, whether it is empty or not, overrides the Start Data value.
ShippingIsBillingChecked	Boolean	The HTML Attribute Checked Helper value for Shipping Is Billing.
StateAbbreviations	List	A list of abbreviations of US states. For example, "AL, "AK", etc.
StateNames	List	A list of names of US state. For example, "Alabama", "Alaska", etc.
TransactionType	String	The type of transaction to process.

Result Form

The token for a field is formatted as the field name enclosed within double "curly" braces "{{" and "}}". For example, to have the amount token replaced with the amount value use "{{amount}}" (without quotes) anywhere within the template.

Field Name	Type	Description and Allowed Values
Amount	Decimal	The total amount of the transaction was processed.
AuthCode	String	The auth code. Used for both a credit or ach transaction.
CardAuthAmount	String	The card's auth amount.
CardAvsResult	String	The card's AVS result.
CardAvsResultCode	String	The card's AVS result code.
CardBrand	String	The card brand derived from the card number. Values: American Express, Carte Blanc, Diners Club, Discover, Card, JAL, JCB, MasterCard, Visa, Voyager, Wright Express
CardCvvResult	String	The card's CVV result.
CardCvvResultCode	String	The card's CVV result code.
CardExpiration	String	The card expiration date in MMYY format.
CardNumberLastFour	String	When a card number exists, indicates the last four numbers of the card number.
CardNumberMasked	String	When a card number exists, indicates the masked version of the card number. The format is XXXX-XXXX-XXXX-NNNN.
CheckAccountNumberLastFour	String	When a checking account number exists, indicates the last four numbers of the checking account number.
CheckAccountNumberMasked	String	When a checking account number exists, indicates the masked version of the checking account number. The format is XXXXXXXXXXNNNN.

CheckNumber	String	The check number.
CheckRoutingNumber	String	The check routing number.
CustomerEmail	String	The customer's email address.
CustomFieldsValues	Collection	A collection of key/value pairs containing custom fields values POSTed from the Payment View. The keys include: • name • description • value The keys are case-sensitive and lower case. The collection is ordered by the Custom Field's configured Position.
Errors	String	The list of error messages from posting Payment Data or encountered during payment processing. See Error Section.
InvoiceNumber	String	The invoice number.
IsApproved	Boolean	Indicates if the payment was approved.
IsDeclined	Boolean	Indicates if the payment was declined.
IsDuplicate	Boolean	Indicates whether the transaction was identified as a duplicate.
IsError	Boolean	Indicates if an error occurred during processing.
IsPaymentTypeACH	Boolean	Indicates whether the payment type is ACH IsPaymentTypeCredit.
IsPaymentTypeCredit	Boolean	Indicates whether the payment type is Credit.
MerchantAddress1	String	Merchant street address 1 as set in Merchant Configuration's Contact.
MerchantAddress2	String	Merchant street address 2 as set in Merchant Configuration's Contact.
MerchantCity	String	Merchant street city as set in Merchant Configuration's Contact.
MerchantEmail	String	Merchant street email as set in Merchant Configuration's Contact.
MerchantName	String	Merchant name as set in Merchant Configuration.
MerchantPhone	String	Merchant street phone as set in Merchant Configuration's Contact.
MerchantState	String	Merchant street state as set in Merchant Configuration's Contact.
MerchantZip	String	Merchant street zip as set in Merchant Configuration's Contact.
PaymentType	String	The payment type for the transaction. Values: ACH, Credit
PNRef	String	The gateway's transaction reference number.
ProcRefNum	String	The gateway's transaction reference number.
ProcRefNum	String	The processor's transaction reference number.
Result	String	The result of processing the transaction. Values: Approved, Declined, Error.
ResultCode	String	The result code of the processed transaction. A result of 0 (OK) or 15 (Partial) indicates an Approved transaction. All others represent Declined transactions.
ResultMessage	String	The message of processed
SendCustomerReceipt	String	Indicates whether the customer was sent a receipt for an approved transaction.

TaxAmount	Decimal	The tax amount portion of Amount.
Token		
TransactionType	String	The type of transaction to process. Values: Auth, Sale, SaveOnly

Form Logic

If and Inverted If Block

Content can be hidden/displayed using an "If" block by pre-pending the token with "#" and closing the block by pre-pending the token with "/". Using this method, anything within a template that references a value that is null, false, or empty will not be rendered. When using a token within a block, pre-pend the token with "../". An inverse If Block can be used. In place of the "#", use "^".

If	Inverted If
{{#isApproved}} Auth Code: ({{../authCode}}) {{/ isApproved}}	{{^sendCustomerReceipt}} Auth Code: ({{../authCode}}) {{/ isApproved}}
{{#merchantAddress1}} <div>({{../merchantAddress1}})</div> <div>({{../merchantCity}}), ({{../merchantState}}) ({{../merchantZip}}) < /div> {{/ MerchantAddress1}}	{{^MerchantAddress1}} No Merchant Information is available {{/ MerchantAddress1}}

Logic	Displayed
isApproved = True	Auth Code: ASF123
isApproved = False	-Nothing to Display-
merchantAddress1 = 4183 State Street	4183 State Street Santa Barbara, CA 93110
merchantAddress1 = ""	No Merchant Information is available

Each Block

To iterate over a collection, use the "each" construct by pre-pending the token with "#each" and closing the block with "/each".
{{#each customFieldsValues}}

<div>{{description}} ({{name}}): {{value}}</div>

{{/each}}

Sections

Sections are used to group the content related to the various result and "If" blocks are used to toggle their visibility. Note the use of the "../" token syntax because they are nested within an "If" block. The "../" is also necessary for the token of the collection being iterated ("../customFieldsValues") but the "sub" properties of the custom field value do not use the "../" syntax.
{{#isApproved}}

<div class="section">

    <div class="title">Payment Approved</div>

      <div class="message"> Thank you, your payment has been accepted. Please retain this receipt for your records. </div>

      <div class="content">

      <div>Invoice Number: {{../invoiceNumber}}</div>

      <div>Amount: {{../amount}}</div>

      {{#each ../customFieldsValues}}

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        <div>{{description}} ({{name}}): {{value}}</div>

        {{/each}}

        </div>

    </div>

{{/isApproved}}
```