

BE PAYMENT READY

Moneris Checkout Integration Guide

Version: 1.0.5

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Table of Contents

Getting Help	4
System and Skills Requirements	5
Changes in v1.0.5	6
1 About Moneris Checkout	9
2 Building Your Moneris Checkout Integration	10
2.1 Configuring Moneris Checkout in Merchant Resource Center	
2.1.1 Additional Features to Configure in the MRC	
2.2 Moneris Checkout Transaction Process Flow	
2.3 Preparing Your Client-Side Checkout Page	12
2.4 Implementing Preload Server-to-Server Logic	13
2.4.1 Preload Request	13
2.4.1.1 Optional Preload Request Objects	16
Recurring Billing Object	17
Shopping Cart Object	18
Contact Details Object	21
Shipping Details Object	21
Billing Details Object	22
2.4.1.2 Example Preload Request JSON	23
2.4.2 Response to Preload Request	
2.4.2.1 Example Preload Response – Successful Preload	26
2.4.2.2 Example Preload Response – Failed Preload	26
2.5 Displaying the Moneris Checkout Page in the Browser	
2.6 Handling Callbacks	
2.6.1 Callback Types	
2.6.1.1 Callback Response Fields	28
2.6.1.2 Page Loaded	
2.6.1.3 Cancel Transaction	
2.6.1.4 Error Event	
2.6.1.5 Payment Receipt	
2.6.1.6 Payment Complete	
2.6.1.7 Page Closed	
2.6.1.8 Payment Submitted	
2.7 Implementing Receipt Request Server-to-Server Logic	
2.7.1 Receipt Request	
2.7.1.1 Example Receipt Request JSON	
2.7.2 Response to Receipt Request	33
2.7.2.1 Definition of Response Fields – Response to Receipt Request	
2.7.2.2 Example JSON Response to Receipt Request	
2.8 Terminating the Moneris Checkout Instance	63
3 Additional Features in Moneris Checkout	64
3.1 Tokenization of Credentials With Moneris Checkout	
3.2 Fraud Tools in Moneris Checkout	
3.2.1 About Fraud Tools in Moneris Checkout	
3.2.2 Kount as a Fraud Tool in Moneris Checkout	
3.2.3 Fraud Tools and Auto Decision-Making	
3.3 Window Size in Moneris Checkout	

3.4 Multi-Currency Pricing in Moneris Checkout	66
4 Testing Your Moneris Checkout Integration	67
5 Moving to Production with Moneris Checkout	68
6 Reference	69
6.1 Callback Response Codes – Moneris Checkout	69
6.2 AVS Response Codes – Moneris Checkout	69
6.3 CVD Response Codes – Moneris Checkout	73
6.4 CAVV Result Codes	73

June 2021 Page 3 of 76

Getting Help

Moneris has help for you at every stage of the integration process.

Getting Started	During Development	Production
Contact our Client Integration Specialists: clientintegrations@moneris.com	If you are already working with an integration specialist and need technical development assistance, contact our eProducts Technical Consultants:	If your application is already live and you need production sup- port, contact Moneris Customer Service: onlinepayments@moneris.com
	1-866-319-7450	1-866-319-7450
	eproducts@moneris.com	Available 24/7

For additional support resources, you can also make use of our community forums at http://community.moneris.com/product-forums/

Page 4 of 76 June 2021

System and Skills Requirements

In order to integrate with Moneris Checkout as a merchant, you must have:

• An e-commerce website with a back-end server

For development, you should have some understanding of the following:

- JavaScript
- JSON
- Server-side programming

Additionally, for Google Pay™ integration, all your front-end web pages must use the HTTPS protocol.

June 2021 Page 5 of 76

Changes in v1.0.5

• Corrected limit for the request field start date

Changes in v1.0.4

- Added new callback types Page Closed and Payment Submitted
- Changed references to the monerisCheckout object to myCheckout
- Added information about restricted special character " in some request fields
- Removed reference to restricted special characters in **items**. **description** in the Shopping Cart object, as they are now supported for that field

Changes in v1.0.3

- Added new response field isDebit to Response to Receipt Request
- Added support for Apple Pay and Google Pay[™] wallet transactions

Changes in v1.0.2

• Corrected the limit of **order number** response field to 45 characters

Changes in v1.0.1

- Added information about 3-D Secure 2.0, including a new response field, transaction status
- Added information about Multi-Currency Pricing
- Updated diagrams and sample code to reflect 3-D Secure 2.0 and Multi-Currency Pricing
- Corrected limits of request fields in the Preload request: order number, customer ID, dynamic descriptor
- Corrected limits of request fields in the Recurring Billing object: number of recurs

Page 6 of 76 June 2021

- Corrected limits of request fields in the Shopping Cart object: item description, item product code, tax description
- Corrected limits of request fields in the Shipping Details object: shipping address line 1 and 2, shipping city, shipping province, shipping country, shipping postal code
- Corrected limits of request fields in the Billing Details object: billing address line and 2, billing city, billing province, billing postal code
- Added additional information about the behaviour of callbacks in the topics Payment Receipt and Payment Complete
- In the Definition of Response Fields Response to Receipt Request, corrected description of the response field **3-D Secure code**
- In Callback Response Codes topic, corrected the description of code 2001 and added new codes 2002 and 2003

June 2021 Page 7 of 76

1 About Moneris Checkout

Moneris Checkout gives e-commerce merchants a simple and secure way to process payments by integrating a Moneris-hosted payment module into the merchant checkout page.

June 2021 Page 9 of 76

2 Building Your Moneris Checkout Integration

- 2.1 Configuring Moneris Checkout in Merchant Resource Center
- 2.2 Moneris Checkout Transaction Process Flow
- 2.3 Preparing Your Client-Side Checkout Page
- 2.4 Implementing Preload Server-to-Server Logic
- 2.5 Displaying the Moneris Checkout Page in the Browser
- · 2.6 Handling Callbacks
- 2.7 Implementing Receipt Request Server-to-Server Logic
- 2.8 Terminating the Moneris Checkout Instance

2.1 Configuring Moneris Checkout in Merchant Resource Center

The first step is to configure your Moneris Checkout page in the Moneris Merchant Resource Center (MRC).

In the initial stage of development, you create a test configuration in the testing MRC. Once the solution is ready to be deployed to production, you must create a new, separate configuration for the production environment in the production MRC.

The **checkout ID** is the key value that is generated after the configuration is completed and used within the Preload Request in order to identify the specific Moneris Checkout configuration.

To get the checkout ID and start configuring your page, do the following:

1. Log into the Merchant Resource Center at one of the following URLs (according to your stage of development)

Testing: https://esqa.moneris.com/mpg

Production: https://www3.moneris.com/mpg

- 2. In the Admin menu, select Moneris Checkout Config
- 3. Click the Create Profile button
- 4. Follow the on-screen steps to complete the configuration

For more information, see the Merchant Resource Center documentation available for download on the Moneris developer portal at:

developer.moneris.com

June 2021 Page 10 of 76

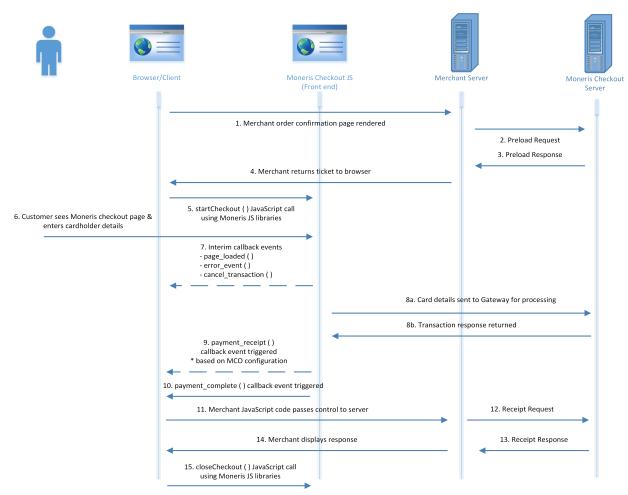
2.1.1 Additional Features to Configure in the MRC

There are other features of the Moneris Checkout page that you can enable using the configurator in the Merchant Resource Center. They include:

- Tokenization of credentials
- Fraud tool behaviour
- Window sizing
- · Multi-Currency Pricing

For more on configuring these features, see 3 Additional Features in Moneris Checkout.

2.2 Moneris Checkout Transaction Process Flow



Page 11 of 76 June 2021

2.3 Preparing Your Client-Side Checkout Page

In order to prepare your client-side checkout page for interacting with Moneris Checkout, you need to do a few tasks first:

1. Add a call to the Moneris Checkout JavaScript library in a <script> tag:

Testing:

```
<script src="https://gatewayt.moneris.com/chkt/js/chkt_
v1.00.js"></script>
```

Production:

```
<script src="https://gateway.moneris.com/chkt/js/chkt v1.00.js"></script>
```

2. Create a <div> in the HTML:

```
<div id="monerisCheckout"></div>
```

a. (optional): If you are not using the "Full screen" window sizing option, you will need to define the size of your window by creating another <div> around this one, for example:

```
<div id="outerDiv" style="width:400px"; height"300px">
<div id="monerisCheckout"></div>
</div>
```

3. Instantiate the monerisCheckout object and set it up:

```
var myCheckout = new monerisCheckout();
myCheckout.setMode("qa");
myCheckout.setCheckoutDiv("monerisCheckout");
```

4. Set callbacks in JavaScript:

```
myCheckout.setCallback("page_loaded",myPageLoad);
myCheckout.setCallback("cancel_transaction",myCancelTransaction);
myCheckout.setCallback("error_event",myErrorEvent);
myCheckout.setCallback("payment_receipt",myPaymentReceipt);
myCheckout.setCallback("payment complete",myPaymentComplete);
```

For more information about callbacks in Moneris Checkout, see 2.6 Handling Callbacks.

June 2021 Page 12 of 76

2.4 Implementing Preload Server-to-Server Logic

The Preload request is the means by which a Moneris Checkout instance is securely generated at transaction time. It involves a server-to-server post using the JSON format documented in 2.4.1 Preload Request .

The response to the Preload request returns a ticket number which uniquely identifies the instance and must be passed in the JavaScript myCheckout.startCheckout (ticket #) request in order to display the Moneris Checkout page in the browser.

NOTE: The ticket number expiration time is set to 30 minutes.

In your server implementation, use the following Moneris Checkout URLs to post to, depending on the development stage:

Testing:

https://gatewayt.moneris.com/chkt/request/request.php

Production:

https://gateway.moneris.com/chkt/request/request.php

2.4.1 Preload Request

Transaction requests are sent to the Moneris Checkout server using JSON.

JSON structure overview for Preload request

```
{+}
-recur {+}
-cart {+}
-items [{+}]
-tax {+}
-contact_details {+}
-shipping_details {+}
-billing_details {+}
```

Page 13 of 76 June 2021

Request fields for Preload request – Required

Variable Name	Type and Limits	Description
store ID store_id	String N/A	Unique identifier provided by Moneris upon merchant account setup
API token api_token	String N/A	Unique alphanumeric string assigned upon merchant account activation
<pre>checkout ID checkout_id</pre>	String 30-character alphanumeric	Identifies your Moneris Checkout configuration; this is given to you when you configure your page in the Merchant Resource Center
transaction total amount txn_total	String 10-character decimal Up to 7 digits (dollars) + decimal point (.) + 2 digits (cents) after the decimal point EXAMPLE: 1234567.89	The total dollar amount of the transaction
developmental mode environment	String alphabetic	Indicates the stage of development you are sending the request for: testing = qa production = prod
request type action	String alphabetic	Type of request being made to Moneris Checkout server Allowable values: preload or receipt

Request fields for Preload request – Optional

Variable Name	Type and Limits	Description
order number	String	The order number is a unique iden-
order_no	45-character alphanumeric	tifier appended to every financial transaction

June 2021 Page 14 of 76

Variable Name	Type and Limits	Description
	NOTE: Some special characters are not allowed: < > \$ % = ? ^ " { } [] \	
customer ID	String	Merchant-defined field that can be
cust_id	50-character alphanumeric	used as an identifier
	NOTE: Some special characters are not allowed: <>\$ % = ? ^ " { } [] \	Searchable from the Moneris Mer- chant Resource Center

<pre>dynamic_descriptor</pre>	20-character alphanumeric total of 22 characters including your merchant name and separator NOTE: Some special characters are not allowed: <> \$ % = ?^"{}[]\	Merchant-defined description sent on a per-transaction basis that will appear on the credit card statement appended to the merchant's business name Dependent on the card issuer, the statement will typically show the dynamic descriptor appended to the merchant's existing business name separated by the "/" character; additional characters will be truncated NOTE: The 22-character maximum limit must take the "/" into account as one of the characters
language language	String 2-character alphabetic	Determines which language Moneris Checkout will display information in Allowable values: en – English fr – French

Page 15 of 76 June 2021

Additional request objects in Preload request - Optional

Variable Name	Type and Limits	Description
Recurring Billing recur	Object N/A	Contains fields related to Recurring Billing
Shopping Cart	Object N/A	The virtual shopping cart and its contents
Contact Details contact_details	Object N/A	Customer contact information This object is returned in the Response to Receipt Request as the Customer Information response object (cust_info)
Shipping Details shipping_details	Object N/A	Customer shipping information
Billing Details billing_details	Object N/A	Customer billing information

2.4.1.1 Optional Preload Request Objects

Moneris Checkout also allows you to send optional objects in the Preload request that reflect additional information entered by the customer at checkout, enable additional features, or meet transaction processing requirements.

If you have configured Moneris Checkout to handle these additional items, you do not send the corresponding object in the Preload request. Only send these optional objects if you are using your own ecommerce page to collect them separately from Moneris Checkout.

Optional objects you can use include:

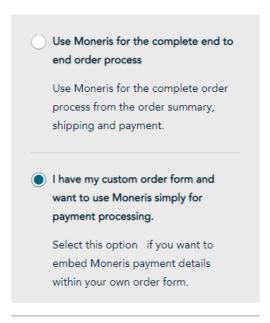
- Recurring Billing Object
- Shopping Cart Object
- Contact Details Object

June 2021 Page 16 of 76

- Shipping Details Object
- Billing Details Object

The following screenshot shows what you select in the Merchant Resource Center if you are collecting additional items on your own e-commerce page:

Checkout Type



Recurring Billing Object

Optional object

Include this object in Preload request to indicate the start of a series of Recurring Billing transactions that will be managed by Moneris.

NOTE: Recurring Billing is not allowed when using Multi-Currency Pricing or Gift Cards.

Top level object field

recur

Request fields for Recurring Billing object

Variable Name	Type and Limits	Description
number of recurs	String	The number of times that the trans-

Page 17 of 76 June 2021

Variable Name	Type and Limits	Description
number_of_recurs	numeric 1-999	action must recur
period recur_period	String numeric 1-999	Number of recur unit intervals that must pass between recurring billings
recurring amount recur_amount	String 10-character decimal, minimum three digits Up to 7 digits (dollars) + decimal point (.) + 2 digits (cents) after the decimal point EXAMPLE: 1234567.89	Dollar amount of the recurring transaction This amount will be billed on the start date, and then billed repeatedly based on the interval defined by period and recur unit
recur unit recur_unit	String day, week, month or eom	Unit to be used as a basis for the interval Works in conjunction with the period variable to define the billing frequency
start date start_date	String YYYYMMDD format	Date of the first future recurring billing transaction; this must be a date in the future If an additional charge will be made immediately, the start now variable must be set to true
bill now bill_now	String true or false	Set to true if a charge will be made against the card immediately; otherwise set to false

Shopping Cart Object

Optional object

The shopping cart object can contain multiple items (each item is represented as its own array within the Shopping Cart object).

June 2021 Page 18 of 76

Top level object field

cart

Request fields for Shopping Cart object

Variable Name	Type and Limits	Description
shopping cart items items	Object sub-object containing arrays, nested within cart contains following items in blue	Encapsulates the entire array of items in the shopping cart
item URL	String alphanumeric	URL that corresponds to the image of the Moneris Checkout shopping cart item
item description items.description	String 200-character alphanumeric	Describes the item in the shopping cart
<pre>item product code items.product_code</pre>	String 50-character alphanumeric NOTE: Some special characters are not allowed: <>\$% = ?^"{}[]\	The SKU for the item
<pre>item unit cost items.unit_cost</pre>	String 10-character decimal Up to 7 digits (dollars) + decimal point (.) + 2 digits (cents) after the decimal point EXAMPLE: 1234567.89	Per-unit cost of the item
item quantity items.quantity	String numeric 6 characters maximum	Number of individual instances of the given item in the shopping cart

Page 19 of 76 June 2021

Variable Name	Type and Limits	Description
subtotal subtotal	String 10-character decimal Up to 7 digits (dollars) + decimal point (.) + 2 digits (cents) after the decimal point EXAMPLE: 1234567.89	Total dollar amount of the shopping cart, before taxes
tax	Object sub-object nested within cart contains following items in blue	Contains information related to taxes charged on the items in the shopping cart
tax amount tax.amount	String 10-character decimal Up to 7 digits (dollars) + decimal point (.) + 2 digits (cents) after the decimal point EXAMPLE: 1234567.89	Dollar amount of taxes
tax description tax.description	String 50-character alphanumeric NOTE: Some special characters are not allowed: <>\$ % = ? ^ " { } [] \	Describes type of tax being applied
tax rate tax.rate	String Must be a number with up to 3 decimal places EXAMPLE: xx or xx.x or xx.xx or xx.xx	Percentage tax rate charged

June 2021 Page 20 of 76

Contact Details Object

Optional object

Top level object field

contact_details

Request fields for Contact Details object

Variable Name	Type and Limits	Description
first name	String	Customer first name
first_name	30-character alphanumeric	
last name	String	Customer last name
last_name	30-character alphanumeric	
email	String	Customer email
email	255-character alpha- numeric	
phone number	String	Customer phone number
phone	30-character alphanumeric	

Shipping Details Object

Optional object

Top level object field

shipping_details

Request fields for Shipping Details object

Variable Name	Type and Limits	Description
shipping address line 1	String	Customer shipping address
address_1	50-character alphanumeric	
	NOTE: Some special characters are not allowed: <>\$ % = ? ^ " { } [] \	

Page 21 of 76 June 2021

Variable Name	Type and Limits	Description
shipping address line 2 address_2	String 50-character alphanumeric NOTE: Some special characters are not allowed: <>\$% = ?^"{}[]\	Customer shipping address
shipping city city	String 50-character alphanumeric NOTE: Some special characters are not allowed: <>\$% = ?^"{}[]\	Customer shipping address city
shipping province province	String 3-character alphanumeric	Customer shipping address province Country subdivision ISO 3166-2
shipping country	String 2-character alphanumeric	Customer shipping address country ISO 3166-1 alpha-2
shipping postal code postal code	String 20-character alphanumeric NOTE: Some special characters are not allowed: <>\$% = ?^"{}[]\	Customer shipping address postal code

Billing Details Object

Optional object

Top level field

billing_details

June 2021 Page 22 of 76

Request fields for Billing Details object

Variable Name	Type and Limits	Description
billing address line 1 address_1	String 50 character alphanumeric NOTE: Some special characters are not allowed: <>\$ % = ? ^ "{}[]\	Customer billing address
billing address line 2 address_2	String 50 character alphanumeric NOTE: Some special characters are not allowed: <>\$ % = ? ^ "{}[] \	Customer billing address
billing city city	String 50-character alphanumeric NOTE: Some special characters are not allowed: <>\$ % = ? ^ " { } [] \	Customer billing address city
billing province province	String 3-character alphanumeric	Customer billing address province Country subdivision ISO 3166-2
billing country country	String 2-character alphabetic	Customer billing address country ISO 3166-1 alpha-2
billing postal code postal code	String 20-character alphanumeric	Customer billing address postal code

2.4.1.2 Example Preload Request JSON

This example reflects a Preload request with all optional objects.

Page 23 of 76 June 2021

```
{
   "store_id": "moneris",
  "api token": "hurgle",
  "checkout id": "chkt5BF66neris",
   "txn total":"452.00",
  "environment": "qa",
  "action": "preload",
  "order no":"",
   "cust id": "chkt - cust - 0303",
   "dynamic_descriptor":"dyndesc",
   "language": "en",
   "recur":{
      "bill_now":"true",
      "recur amount":"1.00",
      "start date":"2021-11-21",
      "recur unit": "month",
      "recur_period":"1",
      "number of recurs":"10"
  },
   "cart":{
      "items":[
         {
            "url": "https:\/\/example.com\/examples\/item1.jpg",
            "description": "One item",
            "product_code": "one_item",
            "unit cost":"100.00",
            "quantity":"1"
         },
         {
            "url": "https:\/\/example.com\/examples\/item2.jpg",
            "description": "Two item",
            "product_code":"two_item",
            "unit cost":"200.00",
            "quantity":"1"
         },
```

June 2021 Page 24 of 76

```
{
         "url": "https:\/\/example.com\/examples\/item3.jpg",
         "description": "Three item",
         "product code": "three item",
         "unit cost":"100.00",
         "quantity":"1"
      }
   ],
   "subtotal":"400.00",
   "tax":{
      "amount":"52.00",
      "description": "Taxes",
      "rate":"13.00"
   }
},
"contact details":{
   "first_name":"bill",
   "last name": "smith",
   "email":"test@moneris.com",
   "phone":"4165551234"
} ,
"shipping details":{
   "address 1":"1 main st",
   "address_2":"Unit 2012",
   "city": "Toronto",
   "province": "ON",
   "country": "CA",
   "postal code": "M1M1M1"
} ,
"billing details":{
   "address 1":"1 main st",
   "address 2":"Unit 2000",
   "city": "Toronto",
   "province": "ON",
   "country": "CA",
```

Page 25 of 76 June 2021

```
"postal_code":"M1M1M1"
}
```

2.4.2 Response to Preload Request

Response Fields – Response to Preload Request

Variable Name	Description
<pre>response "response":{</pre>	Top level response object
success "success":	Denotes whether the Preload request was successful
<pre>ticket "ticket":</pre>	Identifies the specific Moneris Checkout instance Only returned if success = true
<pre>error "error":{</pre>	Sub-object that encapsulates all errors that occurred as a result of the Preload request Only returned if success = false
<pre>data "data":</pre>	Describes the specific type of error that occurred as a result of some aspect of the Preload request

2.4.2.1 Example Preload Response – Successful Preload

```
{
    "response":{
        "success":"true",
        "ticket":"1585G9G9GIKKGGGIGIOG09G9OGKGJFKFJFNjuit8g9"
    }
}
```

2.4.2.2 Example Preload Response – Failed Preload

```
{
   "response":{
```

June 2021 Page 26 of 76

```
"success":"false",
    "error":{
        "billing_details":{
            "data":"billing address must be set when AVS is enabled"
        }
    }
}
```

2.5 Displaying the Moneris Checkout Page in the Browser

When a customer goes to check out their items for purchase, the Moneris Checkout page is displayed in the <div> tag you created on your web site

To insert the Moneris Checkout instance into the <div>, you call the JavaScript function:

```
myCheckout.startCheckout([ticket #])
```

2.6 Handling Callbacks

Callbacks are the means by which Moneris Checkout communicates with your merchant checkout page. All callbacks include a single parameter defined as a JSON-formatted string.

In order to handle callbacks, you need to create JavaScript functions that receive the callbacks being sent by Moneris Checkout when the events occur. These are the functions being referred to as part of the callback set methods, as described in 2.3 Preparing Your Client-Side Checkout Page.

2.6.1 Callback Types

These callbacks are required to be included in the JavaScript of your page:

- Page Loaded
- Cancel Transaction
- Error Event
- Payment Receipt
- Payment Complete

Page 27 of 76 June 2021

- Page Closed
- Payment Submitted

2.6.1.1 Callback Response Fields

Variable Name	Type and Limits	Description
handler	String alphanumeric	Describes the type of callback being used Possible values: cancel_transaction error_event page_loaded payment_complete payment_receipt
ticket ticket	String alphanumeric	Identifies the specific Moneris Checkout instance This is also returned in the response to the original Preload
response code response_code	String alphanumeric	Identifies the result of the callback For information on response codes, see Callback Response Codes – Moneris Checkout

2.6.1.2 Page Loaded

Callback Use

To get the page loaded status of the Moneris Checkout page.

This callback is called once the Moneris Checkout is loaded.

JavaScript Set Method for Callback

myCheckout.setCallback("page_loaded",myPageLoad);

June 2021 Page 28 of 76

```
"handler":"page_loaded",

"ticket":"1539961059DdrvGG3Yj7rxvMAgvRlc4nqKXF7YjT",

"response_code":"001"
}
```

2.6.1.3 Cancel Transaction

Callback Use

This callback is called in the event the cardholder presses the cancel button in Moneris Checkout.

Standard is to call the closeCheckout() method to close the Moneris Checkout <div>.

The closeCheckout () method will need to be called and a new Preload request will be required in order to initiate a new Moneris Checkout instance.

JavaScript Set Method for Callback

```
myCheckout.setCallback("cancel transaction", myCancelTransaction);
```

JSON Response Message Format

```
"handler":"cancel_transaction",
   "ticket":"1539961059DdrvGG3Yj7rxvMAgvRlc4nqKXF7YjT",
   "response_code":"001"
}
```

2.6.1.4 Error Event

Callback Use

When an error occurs during the checkout process. This requires the Moneris Checkout session to be closed using the closeCheckout function

To attempt the transaction again, a new Preload request must be sent to the Moneris Checkout server in order to get a new transaction ticket number.

JavaScript Set Method for Callback

```
myCheckout.setCallback("error event", myErrorEvent);
```

Page 29 of 76 June 2021

```
"handler":"error_event",
   "ticket":"1539961059DdrvGG3Yj7rxvMAgvRlc4nqKXF7YjT",
   "response_code":"902"
}
```

2.6.1.5 Payment Receipt

Callback Use

Transaction is complete and receipt is ready to be collected.

If you have chosen to have Moneris Checkout generate the receipt, this callback is called once the Moneris Checkout displays the transaction receipt.

If you have chosen Moneris Checkout not to generate a receipt, this callback will not be called. For information on when to obtain the receipt response for the transaction, refer to the Payment Complete callback.

JavaScript Set Method for Callback

```
myCheckout.setCallback("payment receipt", myPaymentReceipt);
```

JSON Response Message Format

```
"handler": "payment_receipt",
   "ticket": "1539961059DdrvGG3Yj7rxvMAgvRlc4nqKXF7YjT",
   "response_code": "001"
}
```

2.6.1.6 Payment Complete

Callback Use

This callback is called once Moneris Checkout has completed payment.

If you have chosen Moneris Checkout to generate a receipt, the cardholder has to return to your Checkout page in order for the callback to be called. For information on obtaining the receipt response for the transaction, refer to the Payment Receipt callback.

Moneris Checkout should be closed by calling the closeCheckout () method

JavaScript Set Method for Callback

```
myCheckout.setCallback("payment complete", myPaymentComplete);
```

June 2021 Page 30 of 76

```
"handler":"payment_complete",
   "ticket":"1539961059DdrvGG3Yj7rxvMAgvRlc4nqKXF7YjT",
   "response_code":"001"
}
```

2.6.1.7 Page Closed

Callback Use

Called when the user is on the payment page and has submitted payment, but tries to close the window, clicks the back button in the browser or reloads the page before the payment has been confirmed, causing a JavaScript error to occur.

Moneris Checkout should be closed by calling the **closeCheckout()** method. The payment proceeds, with no changes to the payment flow.

JavaScript Set Method for Callback

```
myCheckout.setCallback("page closed", myPageClosed);
```

JSON Response Message Format

When the user closes the window, clicks back or reload in the browser:

```
{"handler":"page_closed", "response_code":"001"}
When a JavaScript error occurs:
{
    "handler":"page_closed",
    "ticket":"1539961059DdrvGG3Yj7rxvMAgvRlc4nqKXF7YjT",
    "response_code":"001"
}
```

2.6.1.8 Payment Submitted

Callback Use

This callback is called will be triggered when cardholder clicks Checkout button and payment processing is started.

JavaScript Set Method for Callback

```
myCheckout.setCallback("payment submitted", myPaymentSubmitted);
```

Page 31 of 76 June 2021

```
{
   "handler":"payment_submitted",
   "ticket":"1539961059DdrvGG3Yj7rxvMAgvRlc4nqKXF7YjT",
   "response_code":"001"
}
```

2.7 Implementing Receipt Request Server-to-Server Logic

Once the Payment Complete callback has been called, your merchant website can make the server-to-server Receipt Request call in order to obtain the details of the transaction for the receipt and to determine whether the transaction was approved or declined.

In your server implementation, use the following Moneris Checkout URLs to post to, depending on the development stage:

Testing:

https://gatewayt.moneris.com/chkt/request/request.php

Production:

https://gateway.moneris.com/chkt/request/request.php

2.7.1 Receipt Request

Once the transaction is finished, you can request the receipt details from the Moneris Checkout server.

Request fields for Receipt Request – Required

Variable Name	Type and Limits	Description
store ID store_id	String N/A	Unique identifier provided by Moneris upon merchant account set up
API token api_token	String N/A	Unique alphanumeric string assigned upon merchant account activation
<pre>checkout ID checkout_id</pre>	String 30-character alphanumeric (maximum)	Identifies your Moneris Checkout configuration; this is given to you when you configure your page in the Merchant Resource Center
ticket number	String	The unique ticket number that identifies a particular transaction; this

June 2021 Page 32 of 76

Variable Name	Type and Limits	Description
ticket	maximum 50-character alphanumeric	returned in the response to the Pre- load request
developmental mode environment	String alphabetic	Indicates the stage of development you are sending the request for: testing = qa production = prod
request type action	String alphabetic	Type of request being made to Moneris Checkout server Allowable values: preload or receipt

2.7.1.1 Example Receipt Request JSON

```
"store_id":"example_storeId",
   "api_token":"example_apiToken",
   "checkout_id":"example_checkoutId",
   "ticket":"1539966660vfTyEASfnwNrsQqFE8VkMAOcN169zt",
   "environment":"qa",
   "action":"receipt"
}
```

2.7.2 Response to Receipt Request

Responses to Receipt Requests can contain multiple, nested response objects.

Page 33 of 76 June 2021

JSON structure for Response to Receipt Request

```
response {+}
  request {+}
    cust_info {+}
    shipping {+}
    billing {+}
    cart {+}
    wallet {+}
     cc {+}
     gift [{+}]
     mcp {+}
     gift [{+}]
     cc {+}
       mcp {+}
       tokenize {+}
       fraud {+}
          cvd {+}
          avs {+}
          3d_secure {+}
          kount {+}
```

2.7.2.1 Definition of Response Fields – Response to Receipt Request

The following are fields that may be returned in the Response to Receipt Request, shown with nesting

Response Field Name and Key	Description
response	Top level response object
{"response":{	
success":	Denotes whether request was successful (i.e., approved, declined) Unsuccessful means error or could not process
	Possible values: true or false
request	Contains information relating to the Preload

June 2021 Page 34 of 76

Response Field Name and Key	Description
"request":{	request and other information that Moneris Checkout sends to the Moneris Gateway when processing the financial transaction
<pre>transaction total amount "txn_total":</pre>	The total dollar amount of the transaction
<pre>Customer Information "cust_info":{</pre>	Customer contact information The information presented in this response object will reflect one of three scenarios: • If sent in the Preload request, this object will echo the Contact Details object • if Moneris Checkout is set to handle the customer contact information, it will reflect what the customer entered in the web form • If Moneris Checkout was set to not ask for this information, the response object will be empty
<pre>first name "first_name":</pre>	Customer first name
<pre>last name "last_name":</pre>	Customer last name
<pre>phone number "phone":</pre>	Customer phone number
<pre>email "email":</pre>	Customer email
<pre>Shipping "shipping":{</pre>	Contains customer shipping information The information presented in this response object will reflect one of three scenarios:

Page 35 of 76 June 2021

Response Field Name and Key	Description
	 If sent in the Preload request, this object will echo the Shipping Details object if Moneris Checkout is set to handle the customer shipping information, it will reflect what the customer entered in the web form If Moneris Checkout was set to not ask for this information, the response object will be empty
<pre>shipping address line 1 "address_1":</pre>	Customer shipping address
<pre>shipping address line 2 "address_2":</pre>	Customer shipping address
<pre>shipping city "city":</pre>	Customer shipping address city
<pre>shipping country "country":</pre>	Customer shipping address country ISO 3166-1 alpha-2
<pre>shipping province "province":</pre>	Customer shipping address province Country subdivision ISO 3166-2
<pre>shipping postal code "postal_code":</pre>	Customer shipping address postal code
<pre>Billing "billing":{</pre>	Contains customer billing information The information presented in this response object will reflect one of three scenarios: • If sent in the Preload request, this object will echo the Billing Details

June 2021 Page 36 of 76

Response Field Name and Key	Description
	 if Moneris Checkout is set to handle the customer billing information, it will reflect what the customer entered in the web form If Moneris Checkout was set to not ask for this information, the response object will be empty
<pre>billing address line 1 "address_1":</pre>	Customer billing address
<pre>billing address line 2 "address_2":</pre>	Customer billing address
<pre>billing city "city":</pre>	Customer billing address city
<pre>billing country "country":</pre>	Customer billing address country ISO 3166-1 alpha-2
<pre>billing province "province":</pre>	Customer billing address province Country subdivision ISO 3166-2
<pre>billing postal code "postal_code":</pre>	Customer billing address postal code
<pre>same as shipping "same_as_shipping":</pre>	Indicates whether the shipping address is the same as the billing address Possible values: true or false
Recurring Billing "recur": {	Contains fields related to Recurring Billing
<pre>number of recurs "number_of_recurs":</pre>	The number of times that the transaction must recur

Page 37 of 76 June 2021

Response Field Name and Key	Description
<pre>period "recur_period":</pre>	Number of recur unit intervals that must pass between recurring billings
<pre>recurring amount "recur_amount":</pre>	Dollar amount of the recurring transaction This amount will be billed on the start date, and then billed repeatedly based on the interval defined by period and recur unit
<pre>recur unit "recur_unit":</pre>	Unit to be used as a basis for the interval Works in conjunction with the period variable to define the billing frequency
<pre>start date "start_date":</pre>	Date of the first future recurring billing transaction; this must be a date in the future If an additional charge will be made immediately, the start now variable must be set to true
<pre>bill now "bill_now":</pre>	Set to true if a charge will be made against the card immediately; otherwise set to false
Shopping Cart "cart": {	The virtual shopping cart and its contents This echos the information contained in the Shopping Cart request object
<pre>shopping cart items "items": [{</pre>	Encapsulates the entire array of items in the shopping cart
<pre>item URL "url":</pre>	URL that corresponds to the image of the Moneris Checkout shopping cart item
<pre>item description "description":</pre>	Describes the item in the shopping cart
<pre>item product code "product_code":</pre>	The SKU for the item
<pre>item unit cost "unit_cost":</pre>	Per-unit cost of the item

June 2021 Page 38 of 76

Response Field Name and Key	Description
<pre>item quantity "quantity":</pre>	Number of individual instances of the given item in the shopping cart
<pre>subtotal "subtotal":</pre>	Total dollar amount of the shopping cart, before taxes
tax "tax":	Contains information related to taxes charged on the items in the shopping cart
<pre>tax amount "amount":</pre>	Dollar amount of taxes
<pre>tax description "description":</pre>	Describes type of tax being applied
<pre>tax rate "rate":</pre>	Percentage tax rate charged
<pre>credit card total "cc_total":</pre>	Total amount being charged to the credit card
Credit Card (request) "cc": {	Contains cardholder information
<pre>first 6 last 4 "first6last4":</pre>	First 6 and last 4 digits of card number
<pre>expiry date "expiry":</pre>	Card expiry date
<pre>cardholder "cardholder":</pre>	Cardholder name
Multi-Currency Pricing in the Preload "mcp": {	Contains fields related to Multi-Currency Pricing sent in the transaction
<pre>merchant settlement amount "merchant_settlement_amount":</pre>	The amount the merchant will receive in the transaction, in Canadian dollars
cardholder currency code	ISO code representing the foreign currency

Page 39 of 76 June 2021

Response Field Name and Key	Description
"cardholder_currency_code":	of the cardholder
<pre>Gift (request) "gift":[{</pre>	Object containing information about a gift card
<pre>balance remaining "balance_remaining":</pre>	The remaining balance on the gift card
<pre>gift card description "description":</pre>	Description of the gift card used for the transaction
<pre>first 4 last 4 "first4last4":</pre>	The first 4 and last 4 digits of the card
gift card number "pan":	The account number of the gift card
gift card CVD "cvd":	Card validation digits on the gift card
<pre>balance used "balance_used":</pre>	The amount that was removed from the card's balance as part of the transaction
<pre>Wallet "wallet":</pre>	Contains information from the digital wallet that was used in the transaction
<pre>wallet type "type":</pre>	Type of digital wallet used in this transaction Possible values: applepay or googlepay
<pre>payment data "paymentData":{</pre>	Object containing various information related to the payment sent from the digital wallet
API version (minor) "apiVersionMinor":	Minor version of the API
API version "apiVersion":	Version of the digital wallet's payment API
payment method data	Object containing information about the payment method used in the transaction

June 2021 Page 40 of 76

Response Field Name and Key	Description
"paymentMethodData":{	
<pre>payment method description "description":</pre>	User-facing message to describe the payment method that funds this transaction
<pre>tokenization data "tokenizationData":{</pre>	Object containing information related to tokenization and the digital wallet
tokenization type "type":	The type of tokenization to be applied to the selected payment method Possible values: PAYMENT_GATEWAY or DIRECT
<pre>token "token":</pre>	The generated payment method token
<pre>payment method type "type":</pre>	A short identifier for the supported payment method Possible values: CARD PAYPAL
<pre>info "info":{</pre>	Object that echoes information about the cardholder, the card and the card network from the digital wallet
<pre>card network "cardNetwork":</pre>	The payment card network
<pre>card details "cardDetails":</pre>	The details about the card; this value is commonly the last four digits of the selected payment account number
<pre>digital wallet billing address "billingAddress":{</pre>	Object that echoes the cardholder's billing information from the digital wallet
<pre>address 3 "address3":</pre>	Third line of the address
<pre>sorting code "sortingCode":</pre>	The sorting code

Page 41 of 76 June 2021

Response Field Name and Key	Description
<pre>address 2 "address2":</pre>	Second line of the address
<pre>country code "countryCode":</pre>	ISO 3166-1 alpha-2 country code
<pre>address 1 "address1":</pre>	First line of the address
<pre>postal code "postalCode":</pre>	Address postal code or ZIP
<pre>name "name":</pre>	Name of the addressee
<pre>locality "locality":</pre>	City, town, neighbourhood, or suburb
<pre>administrative area "administrativeArea":</pre>	A country subdivision, such as a state or province
<pre>digital wallet shipping address "shippingAddress":{</pre>	Object containing the cardholder's default shipping address information stored in the digital wallet
<pre>address 3 "address3":</pre>	Third line of the address
<pre>sorting code "sortingCode":</pre>	The sorting code
<pre>address 2 "address2":</pre>	Second line of the address
<pre>country code "countryCode":</pre>	ISO 3166-1 alpha-2 country code
<pre>address 1 "address1":</pre>	First line of the address

June 2021 Page 42 of 76

Response Field Name and Key	Description
<pre>postal code "postalCode":</pre>	Address postal code or ZIP
<pre>name "name":</pre>	Name of the addressee
<pre>locality "locality":</pre>	City, town, neighbourhood, or suburb
<pre>administrative area "administrativeArea":</pre>	A country subdivision, such as a state or province
<pre>ticket number "ticket":</pre>	The unique ticket number that identifies a particular transaction; this returned in the response to the Preload request
<pre>customer ID "cust_id":</pre>	Merchant-defined field that can be used as an identifier Searchable from the Moneris Merchant Resource Center
<pre>dynamic descriptor":</pre>	Merchant-defined description sent on a pertransaction basis that will appear on the credit card statement appended to the merchant's business name Dependent on the card issuer, the statement will typically show the dynamic descriptor appended to the merchant's existing business name separated by the "/" character; additional characters will be truncated NOTE: The 22-character maximum limit must take the "/" into account as one of the characters
<pre>order number "order_no":</pre>	The order number is a unique identifier appended to every financial transaction
electronic commerce indicator "eci":	The e-commerce indicator or crypt type that was used to process the transaction Possible values are: 5 - Authenticated e-commerce transaction (3-D)

Page 43 of 76 June 2021

Response Field Name and Key	Description
	Secure)
	6 - Non-authenticated e-commerce transaction (3-D Secure)
	7 - SSL-enabled merchant
<pre>Receipt "receipt":{</pre>	Object containing the receipt information
<pre>result (financial transaction) "result":</pre>	Indicates the result of the financial transaction
	Possible values are:
	a = Accepted
	d = Declined
<pre>Gift (receipt) "gift":[{</pre>	Contains information related to gift card
<pre>order number "order_no":</pre>	The order number is a unique identifier appended to every financial transaction
transaction no":	Moneris Gateway-specific transaction identifier
"transaction_no":	This field is required for any future follow-on transaction requests, such as Refund, Purchase Correction and Pre-Authorization Completion transactions
<pre>reference number "reference_no":</pre>	Terminal used to process the transaction, followed by the shift, batch and sequence number
	This data is typically used to reference transactions on the host systems, and must be displayed on any receipt presented to the customer
	This information should be stored by the merchant
	EXAMPLE Example: 660123450010690030

June 2021 Page 44 of 76

Response Field Name and Key	Description
	66012345: Terminal ID 001: Shift number 069: Batch number 003: Transaction number within the batch.
<pre>response code "response_code":</pre>	Transaction response code Possible values are: <50 – transaction approved >=50 – transaction declined NULL – transaction was not sent for authorization For more details on specific response, please see the Response Codes reference topic
<pre>benefit amount "benefit_amount":</pre>	This is the benefit that was generated for the transaction; the amount that was removed from the card as part of the transaction
<pre>benefit remaining "benefit_remaining":</pre>	The remaining balance on the gift card
<pre>first 6 last 4 "first6last4":</pre>	First 6 and last 4 digits of card number
Credit Card (receipt) "cc": {	Contains fields describing the response to the credit card transaction
<pre>order number "order_no":</pre>	The order number is a unique identifier appended to every financial transaction
<pre>customer ID "cust_id":</pre>	Merchant-defined field that can be used as an identifier Searchable from the Moneris Merchant Resource Center
<pre>transaction number "transaction_no":</pre>	Used to reference the original transaction when performing a follow-on transaction (i.e., Pre-Authorization Completion,

Page 45 of 76 June 2021

Response Field Name and Key	Description
	Purchase Correction or Refund)
	This value is returned in the response of the original transaction
	Pre-Authorization Completion: references a Pre-Authorization
	Refund/Purchase Correction: references a Purchase or Pre-Authorization Completion
<pre>reference number "reference_no":</pre>	Terminal used to process the transaction, followed by the shift, batch and sequence number
	This data is typically used to reference transactions on the host systems, and must be displayed on any receipt presented to the customer
	This information should be stored by the merchant
	EXAMPLE Example: 660123450010690030 66012345: Terminal ID 001: Shift number 069: Batch number 003: Transaction number within the batch.
<pre>transaction code "transaction_code":</pre>	Type of financial transaction that was performed
	Possible values:
	00 – Purchase 01 – Pre-Authorization
<pre>transaction type "transaction_type":</pre>	ISO transaction code for financial transaction
transaction date and time	Processing host date and time stamp
"transaction_date_time":	Format: YYYY-MM-DD HH:MM:SS

June 2021 Page 46 of 76

Response Field Name and Key	Description
<pre>corporate card "corporateCard":</pre>	Indicates whether the payment card is a corporate card
<pre>credit card amount "amount":</pre>	The total dollar amount that was charged to the credit card
<pre>response code "response_code":</pre>	Transaction response code Possible values are: <50 – transaction approved >=50 – transaction declined NULL – transaction was not sent for authorization For more details on specific response, please see the Response Codes reference topic
<pre>ISO response code "iso_response_code":</pre>	ISO response code returned from issuing institution For more details on specific ISO codes returned, see the Response Codes reference topic
<pre>approval code "approval_code":</pre>	Authorization code returned from the issuing institution
<pre>card type "card_type":</pre>	Type of payment card used to process the transaction Allowable values: V = Visa M = Mastercard AX = American Express DC = Diner's Card NO = Novus/Discover SE = Sears D = INTERAC® Debit C1 = JCB

Page 47 of 76 June 2021

Response Field Name and Key	Description
wallet type	Type of digital wallet used in this transaction
"wallet_type":	Possible values: applepay or googlepay
<pre>dynamic descriptor "dynamic_descriptor":</pre>	Merchant-defined description sent on a per- transaction basis that will appear on the credit card statement appended to the mer- chant's business name
	Dependent on the card issuer, the statement will typically show the dynamic descriptor appended to the merchant's existing business name separated by the "/" character; additional characters will be truncated
	NOTE: The 22-character maximum limit must take the "/" into account as one of the characters
<pre>invoice number "invoice_number":</pre>	Identifies an invoice number associated with the transaction
<pre>customer code "customer_code":</pre>	User-defined identifier
<pre>electronic commerce indicator "eci":</pre>	The e-commerce indicator or crypt type that was used to process the transaction
	Possible values:
	5 - Authenticated e-commerce transaction (3D-Secure)
	6 - Non-authenticated e-commerce transaction (3D- Secure)
	7 - SSL-enabled merchant
CVD result code	Indicates the CVD validation result
"cvd_result_code":	The first byte is the numeric CVD indicator sent in the request; the second byte is the response code
	Possible response codes are shown in the CVD Response Codes reference
AVS result code	Indicates the address verification result
"avs_result_code":	For a full list of possible response codes refer to the AVS Response Codes reference

June 2021 Page 48 of 76

Response Field Name and Key	Description
CAVV result code	Indicates the 3-D Secure CAVV result
"cavv_result_code":	Possible response codes are shown in the tables in 6.4 CAVV Result Codes
<pre>first 6 last 4 "first6last4":</pre>	First 6 and last 4 digits of card number
expiry date	Expiry date of the card
"expiry_date":	MMYY format
<pre>recur success "recur_success":</pre>	Indicates whether the recurring billing trans- action has been successfully set up for future billing
	Possible values: true or false
<pre>issuer ID "issuer id":</pre>	Unique identifier for the cardholder's stored credentials
Issuel_id .	Sent back in the response from the card brand when processing a Credential on File transaction
	If the cardholder's credentials are being stored for the first time, and the issuer ID was returned in the response, you must save the issuer ID on your system to use in subsequent Credential on File transactions (applies to merchant-initiated transactions only)
	The issuer ID must be saved to your systems when returned from Moneris Gateway in the response data, regardless if the value was received or not
	As a best practice, if the issuer ID is not returned and you received a value of NULL instead, store that value and send it in the subsequent transaction
<pre>is debit "is_debit":</pre>	Indicates whether a debit card was used in the transaction
<pre>ECR (electronic cash register) number "ecr_no":</pre>	Terminal ID/ECR Number from the request

Page 49 of 76 June 2021

Response Field Name and Key	Description
<pre>batch number "batch_no":</pre>	Batch number; also presented as a component of the reference number
<pre>sequence number "sequence_no":</pre>	Transaction number within the batch; also presented as a component of reference number
<pre>result (financial transaction) "result":</pre>	Indicates the result of the financial transaction Possible values are:
	a = Accepted
	d = Declined
<pre>Tokenize "tokenize":{</pre>	Contains information related to the token- ization of cardholder credentials
success (tokenize) "success":	Indicates whether the card was successfully tokenized
	Possible values: true or false
<pre>first 4 last 4 "first4last4":</pre>	The first 4 and last 4 digits of the card
data key "data_key":	Unique identifier for a Vault profile, and used in future Vault financial transactions to associate a transaction with that profile
tokenization status "status":	Specifies what type of failure, if any, occurred during the tokenization request
	Possible values:
	001 = Successful creation of a temporary token
	940 = Invalid profile id (on tokenization request)
	941 = Error generating token
	942 = Invalid Profile ID, or source URL
	943 = Card data is invalid (not numeric, fails mod10, we will remove spaces)
	944 = Invalid expiration date (mmyy, must be current month or in the future)
	945 = Invalid CVD data (not 3-4 digits)

June 2021 Page 50 of 76

Response Field Name and Key	Description	
<pre>tokenization message "message":</pre>	Provides additional details about the succe or failure of the tokenization	
Multi-Currency Pricing in the Response "mcp": {	Contains fields related to Multi-Currency Pricing received in the response	
<pre>merchant settlement amount "merchant_settlement_amount":</pre>	The amount the merchant will receive in the transaction, in Canadian dollars	
<pre>cardholder currency code "cardholder_currency_code":</pre>	ISO code representing the foreign currency of the cardholder	
<pre>multi-currency pricing rate "mcp_rate":</pre>	The foreign exchange rate (foreign currency to CAD) that was used for the transaction	
<pre>decimal precision "decimal_precision":</pre>	Decimal precision of the amount	
<pre>cardholder amount "cardholder_amount":</pre>	Amount, in units of foreign currency, the cardholder will be charged on the transaction	
<pre>cardholder currency description "cardholder_currency_desc":</pre>	Describes the foreign currency being used in the transaction	
<pre>Fraud "fraud":{</pre>	Contains sub-objects that describe information related to fraud tool inquiries	
CVD "evd":{	Contains information related to the CVD fraud tool	
<pre>decision origin "decision_origin":</pre>	Possible values: Moneris or Merchant	
CVD result "result":	Possible values: 1 = Success 2 = Failed 3 = Not performed	

Page 51 of 76 June 2021

Response Field Name and Key	Description
	4 = Card not eligible
<pre>condition "condition":</pre>	Indicates whether this fraud tool was set as a factor for Moneris to use when making an automatic decision on a transaction Possible values are as follows: 0 = Optional
	1 = Mandatory
status":	Indicates whether the fraud tool inquiry was performed, and if it was used for autodecisioning purposes
	Possible values:
	success = Fraud tool successful
	failed = Fraud tool failed (non-auto decision)
	disabled = Fraud tool not performed
	ineligible = Fraud tool was selected but card is not a credit card or card not eligible
	failed_optional = Fraud tool failed and auto decision is optional
	failed_mandatory = Fraud tool failed auto decision is mandatory
CVD code "code":	CVD result code; for a list of possible codes see the CVD Response Codes reference
<pre>condition "details":</pre>	Indicates whether this fraud tool was set as a factor for Moneris to use when making an automatic decision on a transaction
	Possible values are as follows:
	0 = Optional
	1 = Mandatory
AVS "avs": {	Contains information related to the AVS fraud tool
<pre>decision origin "decision_origin":</pre>	Possible values: Moneris or Merchant

June 2021 Page 52 of 76

Response Field Name and Key	Description	
AVS result	Possible values:	
"result":	1 = Success	
	2 = Failed	
	3 = Not performed	
	4 = Card not eligible	
<pre>condition "condition":</pre>	Indicates whether this fraud tool was set as a factor for Moneris to use when making an automatic decision on a transaction	
	Possible values are as follows:	
	0 = Optional	
	1 = Mandatory	
<pre>status "status":</pre>	Indicates whether the fraud tool inquiry was performed, and if it was used for autodecisioning purposes	
	Possible values:	
	success = Fraud tool successful	
	failed = Fraud tool failed (non-auto decision)	
	disabled = Fraud tool not performed	
	ineligible = Fraud tool was selected but card is not a credit card or card not eligible	
	failed_optional = Fraud tool failed and auto decision is optional	
	failed_mandatory = Fraud tool failed auto decision is mandatory	
AVS code "code":	AVS result code; for a list of potential codes, see the AVS Response Codes reference	
details	Provides detailed information about the fraud tool query	
"details":	Only populated for Kount and 3-D Secure	
<pre>3-D Secure "3d_secure":{</pre>	Contains information related to the 3-D Secure fraud tool	
decision origin	Possible values: Moneris or Merchant	

Page 53 of 76 June 2021

Response Field Name and Key	Description
"decision_origin":	
3-D Secure result "result":	Possible values: 1 = Success 2 = Failed 3 = Not performed 4 = Card not eligible
<pre>condition "condition":</pre>	Indicates whether this fraud tool was set as a factor for Moneris to use when making an automatic decision on a transaction Possible values are as follows: 0 = Optional 1 = Mandatory
status "status":	Indicates whether the fraud tool inquiry was performed, and if it was used for autodecisioning purposes Possible values: success = Fraud tool successful failed = Fraud tool failed (non-auto decision) disabled = Fraud tool not performed ineligible = Fraud tool was selected but card is not a credit card or card not eligible failed_optional = Fraud tool failed and auto decision is optional failed_mandatory = Fraud tool failed auto decision is mandatory
3-D Secure code "code":	The crypt type that was used to process the transaction Possible values: 5 = Authenticated e-commerce transaction (3-D Secure) 6 = Non-authenticated e-commerce transaction (3-D Secure) 7 = SSL-enabled merchant

June 2021 Page 54 of 76

Response Field Name and Key	Description
<pre>details "details":{</pre>	Provides detailed information about the fraud tool query Only populated for Kount and 3-D Secure
Cardholder Authentication Value (CAVV) "cavv":	Value provided by the Moneris MPI or by a third-party MPI Returned by Visa Secure, Mastercard Identity Check or American Express SafeKey transactions
3-D Secure message "message":	Describes the reasoning for the outcome of the 3-D Secure inquiry Possible values: "Authentication Not Available" "Unable to Verify Enrollment" "Successful Payer Authentication" "Cardholder Not Participating" "failed 3-D Secure authentication" "Successful Merchant Attempt"
VERes":	Verification response code Possible values: N = The card/issuer is not enrolled U = The card type is not participating Y = The card is enrolled NOTE: Only returned for 33-D Secure 1.0 transactions
PARes":	Payer authentication response code Possible values: true = Fully authenticated or attempted to verify PIN false = Failed to authenticate NOTE: Only returned for 3-D Secure 1.0 transactions

Page 55 of 76 June 2021

Response Field Name and Key	Description	
<pre>transaction status "transStatus":</pre>	Indicates whether a transaction qualifies as an authenticated transaction or account verification	
	Possible values:	
	Y = Cardholder has been fully authenticated	
	A = A proof of authentication attempt was generated	
	U = Authentication could not be performed dude to technical or other issues	
	N = Not authenticated	
	R = Not authenticated because the Issuer is rejecting authentication and requesting that authorization not be attempted	
	NOTE: Only returned for 3-D Secure _{2.0}	
<pre>load 3-D Secure "loadvbv":</pre>	Only present with value "true" if page was successfully redirected from the 3-D Secure site.	
<pre>Kount "kount":{</pre>	Contains information related to the Kount fraud tool	
<pre>decision origin "decision_origin":</pre>	Possible values: Moneris or Merchant	
Kount result	Possible values:	
"result":	001 = Success	
	973 = Unable to locate merchant Kount details	
	984 = Data error	
	987 = Invalid transaction	
<pre>condition "condition":</pre>	Indicates whether this fraud tool was set as a factor for Moneris to use when making an automatic decision on a transaction	
	Possible values are as follows:	
	0 = Optional	
	1 = Mandatory	

June 2021 Page 56 of 76

Response Field Name and Key	Description	
status "status":	Indicates whether the fraud tool inquiry was performed, and if it was used for autodecisioning purposes	
	Possible values:	
	success = Fraud tool successful	
	failed = Fraud tool failed (non-auto decision)	
	disabled = Fraud tool not performed	
	ineligible = Fraud tool was selected but card is not a credit card or card not eligible	
	failed_optional = Fraud tool failed and auto decision is optional	
	failed_mandatory = Fraud tool failed auto decision is mandatory	
Kount code	Possible values:	
"code":	001 = Success	
	973 = Unable to locate merchant Kount details	
	984 = Data error	
	987 = Invalid transaction	
<pre>details "details":{</pre>	Provides detailed information about the fraud tool query	
details . (Only populated for Kount and 3-D Secure	
<pre>Kount response code "responseCode":</pre>	Final risk score returned from Kount system	
<pre>message (Kount) "message":</pre>	Brief description message about the Kount inquiry	
<pre>receiptID "receiptID":</pre>	The order ID echoed from the original financial transaction	
<pre>Kount result "result":</pre>	Possible values are as follows: 1 = Success	
	2 = Failed	
	3 = Not performed	

Page 57 of 76 June 2021

Response Field Name and Key	Description
	4 = Card not eligible
<pre>Kount score "score":</pre>	Final risk score returned from Kount system
<pre>Kount error "error":</pre>	List of errors the Kount request generated

2.7.2.2 Example JSON Response to Receipt Request

```
"response":{
   "success":"true",
   "request":{
      "txn total":"452.00",
      "cart":{
         "items":[
            {
               "url":"https:\/\/example.com\/examples\/item1.jpg",
               "description": "One item",
               "product code": "one item",
               "unit_cost":"100.00",
               "quantity":"1"
            },
               "url":"https:\/\/example.com\/examples\/item2.jpg",
               "description": "Two item",
               "product_code":"two_item",
               "unit_cost":"200.00",
               "quantity":"1"
            },
               "url":"https:\/\/example.com\/examples\/item3.jpg",
               "description": "Three item",
               "product code": "three item",
               "unit_cost":"100.00",
               "quantity":"1"
         ],
         "subtotal":"400.00",
         "tax":{
            "amount":"52.00",
```

June 2021 Page 58 of 76

```
"description": "Taxes",
      "rate":"13.00"
},
"cust info":{
   "first name": "bill",
   "last name": "smith",
   "phone":"4165551234",
   "email":"test@moneris.com"
},
"shipping":{
   "address 1":"1 main st ",
   "address 2":"Unit 2000",
   "city": "Toronto",
   "country": "CA",
   "province": "ON",
   "postal_code":"M1M1M1"
},
"billing":{
   "address_1":"1 main st ",
   "address_2":"Unit 2000",
   "city":"Toronto",
   "country": "CA",
   "province": "ON",
   "postal code": "M1M1M1"
"cc total":"252.00",
"gift":[
      "balance remaining": "0.00",
      "Description": "Gift Fixed Reload",
      "first4last4":"*********0214",
      "pan": "0211020000001000214",
      "cvd":"123",
      "balance used":"200.00"
   }
],
"cc":{
   "first6last4":"4761735637",
   "expiry":"0121",
   "cardholder": "bill smith"
},
```

Page 59 of 76 June 2021

```
"mcp":{
      "merchant_settlement_amount":"452.00",
      "cardholder currency code": "978"
   "ticket": "157556871510pAi0PJRFZaOISm4DHQvigFswDnET ",
   "cust id":" chkt - cust - 0303",
   "dynamic descriptor": "dyndesc",
   "order no":null,
   "eci":"7"
"receipt":{
   "result":"a",
   "gift":[
      {
         "order no": "1583250405Ad1BmCSsfHHDeu4 g1",
         "transaction no":"6198-1583250435590-00157838 15",
         "reference no":"3276071",
         "response code":"000",
         "benefit amount": "200.00",
         "benefit remaining": "0.00",
         "first6last4":"0211020214"
   ],
   "cc":{
      "order no": "1572443908zc9cIHRI6aJTwZU",
      "cust id":null,
      "transaction no": "5246-0 14",
      "reference no":"660187030012750100",
      "transaction code":"00",
      "transaction type": "200",
      "transaction date time": "2019-10-30 09:59:14",
      "corporateCard": "false",
      "amount":"252.00",
      "response code":"027",
      "iso response code":"01",
      "approval code": "851268",
      "card type":"V",
      "dynamic descriptor": "dyndesc",
      "invoice number":null,
      "customer code":null,
      "eci":"7",
      "cvd_result_code":"1M",
```

June 2021 Page 60 of 76

```
"avs result code": "M",
"cavv_result_code":"2",
"first6last4":"4761735637",
"expiry date":"0121",
"recur success":null,
"issuer id":"570106735143835",
"is debit":"true",
"ecr no":"66018703",
"batch no": "275",
"sequence no":"010",
"result":"a",
"tokenize":{
   "success":"true",
   "firstlast4":"4761***5637",
   "datakey": "lRNJbQUpcsw4qRkd3LpZ5Lpi7",
   "status":"001",
   "message": "Successfully registered CC details."
},
"mcp":{
   "merchant_settlement_amount":"452.00",
   "cardholder_currency_code":"978",
   "mcp_rate":"1.508",
   "decimal precision":"2",
   "cardholder_amount":"299.73",
   "cardholder currency desc": "EUR"
"fraud":{
   "cvd":{
      "decision origin": "Merchant",
      "result":"1",
      "condition":"1",
      "status": "success",
      "code":"1M",
      "details":""
   },
   "avs":{
      "decision_origin": "Merchant",
      "result":"1",
      "condition":"1",
      "status": "success",
      "code":"M",
      "details":""
```

Page 61 of 76 June 2021

```
},
            "3d_secure":{
               "decision origin": "Moneris",
               "result":"1",
               "condition":"1",
               "status": "success",
               "code":"5",
               "details":{
                  "VERes":"Y",
                  // Only returned for 3DS 1.0 transactions"PARes":"true",
                  // Only returned for 3DS 1.0 transactions"transStatus":"Y",
                  // Only returned for 3DS 2.0 transactions"message":"Successful Payer Authentic-
ation",
                  "cavv": "AAACADlzFBchc3F5NHMUEwAAAAA=",
                  "loadvbv":true,
                  "eci":"5"
            },
            "kount":{
               "decision_origin": "Merchant",
               "result":"2",
               "condition":"0",
               "status": "failed optional",
               "code":"001",
               "details":{
                  "responseCode":"001",
                  "message": "Success",
                  "receiptID": "1567780065NjErgHzsUubOkoIA31gaSUtLkxKseT",
                  "result":"D",
                  "error":[
                     "DECLINE when Device Country is not the same as the BIN Country for VISA and
MC & Data Collector is present",
                     "DECLINE when the BIN country is not the same as the Billing Country for
VISA and MC"
                  ]
```

June 2021 Page 62 of 76

2.8 Terminating the Moneris Checkout Instance

To terminate the Moneris Checkout instance, call myCheckout.closeCheckout(), for example:

myCheckout.closeCheckout([ticket #]);

Page 63 of 76 June 2021

3 Additional Features in Moneris Checkout

- 3.1 Tokenization of Credentials With Moneris Checkout
- 3.2 Fraud Tools in Moneris Checkout
- 3.3 Window Size in Moneris Checkout
- 3.4 Multi-Currency Pricing in Moneris Checkout

3.1 Tokenization of Credentials With Moneris Checkout

You can configure Moneris Checkout to store a cardholder's credentials in the Moneris Vault and receive a token that represents those credentials for use in future transactions.

If you want to tokenize credentials in Moneris Checkout transactions, you select the **Tokenize Card** option in the Merchant Resource Center

For more information, see the Merchant Resource Center documentation available for download on the Moneris developer portal at:

developer.moneris.com

3.2 Fraud Tools in Moneris Checkout

- 3.2.1 About Fraud Tools in Moneris Checkout
- 3.2.2 Kount as a Fraud Tool in Moneris Checkout
- 3.2.3 Fraud Tools and Auto Decision-Making

3.2.1 About Fraud Tools in Moneris Checkout

Several tools to mitigate the risk of fraud are available for transactions in Moneris Checkout, including:

- AVS
- CVD
- 3-D Secure
- Kount

June 2021 Page 64 of 76

To select which of these tools to use when performing transactions with Moneris Checkout, go to your Moneris Checkout configurator in the Moneris Merchant Resource Center under the Payment Security section.

For more information, see the Merchant Resource Center documentation available for download on the Moneris developer portal at:

developer.moneris.com

NOTE: CVD is always enabled as a fraud tool and will be performed on each transaction request in Moneris Checkout, but you can choose whether Moneris will treat the CVD result as a mandatory or optional factor to approve or deny the transaction.

3.2.2 Kount as a Fraud Tool in Moneris Checkout

If you select Kount as a fraud tool in Moneris Checkout and your company has its own Enterprise service account from Kount, you will need to include your Kount Merchant ID, Kount API Key and Kount Website ID when you configure your Moneris Checkoutstore in the Merchant Resource Center.

If you are using Moneris's basic fraud service package and do not have your own Kount enterprise account, you do not require this information.

3.2.3 Fraud Tools and Auto Decision-Making

Moneris Checkout can be configured to automatically proceed with or deny transactions as a result of a risk assessment it makes based on the responses it receives from the selected fraud tools.

When you check the box for auto decision-making, you also can choose whether each fraud tool's analysis will be treated by Moneris as an optional or mandatory factor in the decision to approve or deny the transaction.

This information applies to all fraud tools with the following exception:

• 3-D Secure, which is always mandatory if enabled

3.3 Window Size in Moneris Checkout

You can customize the appearance of the Moneris Checkout window presented to the customer on their web browser, including how much of the browser window will be taken up by Moneris Checkout.

The default sizing behaviour of the Moneris Checkout window is full-screen, i.e., Moneris Checkout fills the entire web page. You can alter this behaviour to present the customer with a windowed view instead. If you do not use the full-screen option, you must define the size of the <div> for the window ed view. For more information, see 2.3 Preparing Your Client-Side Checkout Page.

Page 65 of 76 June 2021

You configure the sizing along with other aspects of the Moneris Checkout window in the Merchant Resource Center.

3.4 Multi-Currency Pricing in Moneris Checkout

You can configure Moneris Checkout to price goods and services in a variety of foreign currencies, while continuing to receive settlement and reporting in Canadian dollars.

If you want to use Multi-Currency Pricing (MCP) in Moneris Checkout transactions, you can enable the Multi-Currency Pricing option in the Merchant Resource Center. MCP is only available for Visa and Mastercard.

If Multi-Currency Pricing is enabled, the following features are not supported:

- · Recurring Billing
- Gift Cards
- 3-D Secure 1.0
- Google Pay™

For more information, see the Merchant Resource Center documentation available for download on the Moneris developer portal at:

developer.moneris.com

June 2021 Page 66 of 76

4 Testing Your Moneris Checkout Integration

In the testing stage of development:

- 1. Use the testing Merchant Resource Center at https://esqa.moneris.com/mpg to configure your Moneris Checkout page for testing purposes
- 2. Use the testing URL for server to server requests: https://gatewayt.moneris.com/chkt/request/request.php

3. Reference the testing JavaScript library:

```
<script src="https://gatewayt.moneris.com/chkt/js/chkt_
v1.00.js"></script>
```

4. Set your myCheckout object to the testing mode:

```
myCheckout.setMode("qa");
```

- 5. In all Preload requests use the value "qa" for the environment variable
- 6. In all Preload requests, make sure that you are using the testing version of your credentials for store ID, API token and checkout ID
- 7. In all Receipt requests use the value "qa" for the **environment** variable
- 8. In all Receipt requests, make sure that you are using the testing version of your credentials for store ID, API token and checkout ID

June 2021 Page 67 of 76

5 Moving to Production with Moneris Checkout

Once you have finished testing your Moneris Checkout integration, do the following to move the integration into production:

- 1. Ensure that you have duplicated your final testing configuration in your Moneris Checkout production configuration in the production Merchant Resource Center at https://esqa.moneris.com/mpg to configure your Moneris Checkout page for testing purposes
- 2. Use the production URL for server to server requests: https://gateway.moneris.com/chkt/request/request.php
- Set your myCheckout object to the production mode: myCheckout.setMode("prod");
- 5. In all Preload requests use the value "prod" for the environment variable
- 6. In all Preload requests, make sure that you are using the production version of your credentials for store ID, API token and checkout ID
- 7. In all Receipt requests use the value "prod" for the environment variable
- 8. In all Receipt requests, make sure that you are using the production version of your credentials for store ID, API token and checkout ID

June 2021 Page 68 of 76

6 Reference

- 6.1 Callback Response Codes Moneris Checkout
- 6.2 AVS Response Codes Moneris Checkout
- 6.3 CVD Response Codes Moneris Checkout
- 6.4 CAVV Result Codes

6.1 Callback Response Codes – Moneris Checkout

Response Code	Reason
001	Success
902	3-D Secure failed on response
2001	Invalid ticket
2002	Ticket re-use
2003	Ticket expired

6.2 AVS Response Codes – Moneris Checkout

Code	Visa	Mastercard/Discover	American Express/ JCB
Α	Street address matches, zip/postal code does not; acquirer rights not implied	Address matches, zip/ postal code does not	Billing address matches, zip/postal code does not
В	Street address matches; zip/postal code not verified due to incompatible formats	N/A	N/A
	(acquirer sent both street address and zip/postal code)		
С	Street address not verified due to incompatible formats	N/A	N/A

June 2021 Page 69 of 76

Code	Visa	Mastercard/Discover	American Express/ JCB
	(acquirer sent both street address and zip/postal code)		
D	Street address and zip/- postal code match	N/A	Customer name incorrect; zip/postal code matches
E	N/A	N/A	Customer name incorrect, billing address and zip/-postal code match
F	Applies to UK only: Street address and zip/postal code match	N/A	Customer name incorrect; billing address matches
G	Address information not verified for international transaction Any of following may be true: • Issuer is not an AVS participant, or • AVS data was present in the request but issuer did not return an AVS result, or • Visa performs AVS on behalf of the issuer and there was no address record on file for this account	N/A	N/A
I	Address information not verified	N/A	N/A
К	N/A	N/A	Customer name matches

Page 70 of 76 June 2021

Code	Visa	Mastercard/Discover	American Express/ JCB
L	N/A	N/A	Customer name and zip/- postal code match
M	Street address and zip/- postal code match	N/A	Customer name, billing address, and zip/postal code match
N	 No match; acquirer sent: postal/ZIP code only, or street address only, or both postal code and street address Also used when acquirer requests AVS but sends no AVS data	Neither address nor zip/- postal code matches	Billing address and zip/- postal code do not match
0	N/A	N/A	Customer name and billing address match
P	Zip/postal code match; acquirer sent both zip/- postal code and street address, but street address not verified due to incom- patible formats	N/A	N/A
R	Retry; system unavailable or timed out Issuer ordinarily performs AVS, but was unavailable NOTE: Code R is used by Visa when issuers are unavailable; issuers should refrain from using this code.	Retry; system unable to process	System unavailable; retry
S	N/A	AVS currently not supported	AVS currently not sup- ported

June 2021 Page 71 of 76

Code	Visa	Mastercard/Discover	American Express/ JCB
Т	N/A	Nine-digit zip code matches; address does not match	N/A
U	Address not verified for domestic transaction, for any of the following reasons: • Issuer is not an AVS participant, or • AVS data was present in the request but issuer did not return an AVS result, or • Visa performs AVS on behalf of the issuer and there was no address record on file for this account	No data from issuer- /authorization system	Information is unavailable
W	Not applicable; if present, replaced with Z by Visa Available for U.S. issuers only	For U.S. addresses, ninedigit postal code matches, address does not For addresses outside the U.S., postal code matches, address does not	Customer name, billing address, and zip/postal code are all correct matches
X	N/A	For U.S. addresses, ninedigit postal code and address match For addresses outside the U.S., postal code and address match	N/A
Υ	Street address and zip/- postal code match	Billing address and zip/- postal code both match	Billing address and zip/- postal code both match

Page 72 of 76 June 2021

Code	Visa	Mastercard/Discover	American Express/ JCB
Z	Zip/postal code matches; street address does not match, or street address not included in request	For U.S. addresses, five- digit zip code matches, address does not match	Zip/postal code matches, billing address does not

6.3 CVD Response Codes - Moneris Checkout

CVD verification is available for Visa, Mastercard, Discover, American Express, JCB and UnionPay transactions.

Code	Description
М	Match
N	No match
Р	Not processed
S	CVD should be on the card, but Merchant has indicated that CVD is not present
U	Issuer is not a CVD participant
Υ	Match for American Express/JCB only
D	Invalid security code for American Express or JCB only
Other	Invalid response code

6.4 CAVV Result Codes

The Cardholder Authentication Verification Value (CAVV), the Accountholder Authentication Value (AAV), and the American Express Verification Value (AEVV), are the values that allows Visa, Mastercard and American Express to validate the integrity of the Visa Secure, Mastercard Identity Check and American Express SafeKey transaction data. These values are passed back from the issuer to the merchant after the authentication has taken place.

The merchant then integrates the CAVV/AAV/AEVV value into the authorization request using the Purchase with 3-D Secure or Pre-Authorization with 3-D Secure transaction type, described below:

1. Merchant conducts 3D-Secure authentication request and receives CAVV/AAV/AEVV value in response.

June 2021 Page 73 of 76

2. Merchant sends the CAVV/AAV/AEVV value to Moneris using the Purchase or Pre-Authorization with 3-D Secure transaction type and receives the CAVV result code in the response.

Visa CAVV result codes

Result Code	Message	Significance to Merchants
Blank	CAVV not present or not verified	Not a Visa Secure transaction. No liability shift and merchant is not protected from chargebacks
0	CAVV authentication results invalid	Not a Visa Secure transaction. No liability shift and merchant is not protected from chargebacks
1	CAVV failed validation (authentication)	Provided that you have implemented the Visa Secureprocess correctly, the liability for this transaction should remain with the Issuer for chargeback reason codes covered by Visa Secure.
2	CAVV passed validation (authentication)	Fully authenticated transaction. There is a liability shift and the merchant is protected from chargebacks.
3, 8, A	CAVV passed validation (attempt)	Visa Secure has been attempted. There is a liability shift and the merchant is protected from certain card fraud-related chargebacks.
4, 7, 9	CAVV failed validation (attempt)	Visa Secure has been attempted. There is a liability shift and the merchant is protected from certain card fraud-related chargebacks.
6	CAVV not validated - Issuer not participating	Visa Secure has been attempted. There is a liability shift and the merchant is protected from certain card fraud-related chargebacks.
В	CAVV passed validation; information only	Not a Visa Secure transaction. No liability shift and merchant is not protected from chargebacks
С	CAVV was not validated (attempt)	Visa Secure has been attempted. There is a liability shift and the merchant is protected from certain card fraud-related chargebacks.
D	CAVV was not validated (authentication)	Visa Secure has been attempted. There is a liability shift and the merchant is protected from certain card fraud-related chargebacks.

Page 74 of 76 June 2021

Mastercard CAVV result codes

Result Code	Message	Significance to Merchants
0	Authentication failed	Not a Mastercard Identity Check transaction. No liability shift and merchant is not protected from chargebacks
1	Authentication attempted	Mastercard Identity Check has been attempted. There is a liability shift and the merchant is protected from certain card fraud-related chargebacks (international commercial cards excluded).
2	Authentication successful	Fully authenticated transaction. There is a liability shift and the merchant is protected from chargebacks.

American Express CAVV result codes

NOTE: American Express SafeKey is only available to American Express direct acquired merchants (i.e., not OptBlue merchants). Any questions pertaining to chargebacks, liability and disputes should be addressed to your American Express representative given that American Express is the acquirer of record for these merchants.

Result Code	Description
1	AEVV Failed - Authentication, Issuer Key
2	AEVV Passed - Authentication, Issuer Key
3	AEVV Passed - Attempt, Issuer Key
4	AEVV Failed - Attempt, Issuer Key
7	AEVV Failed - Attempt, Issuer not participating, Network Key
8	AEVV Passed - Attempt, Issuer not participating, Network Key
9	AEVV Failed - Attempt, Participating, Access Control Server (ACS) not available, Network Key
Α	AEVV Passed - Attempt, Participating, Access Control Server (ACS) not available, Network Key

June 2021 Page 75 of 76

Result Code	Description
U	AEVV Unchecked

Page 76 of 76 June 2021