**U.S-U.K KLARNA CHECKOUT APIs.**

Country:

* United State.
* United Kingdom.

Introduction

RESTful API for Checkout orders **version 3**. For general info about integrating Klarna Checkout please visit [Integrate Klarna Checkout](https://developers.klarna.com/en/gb+php/kco-v3/checkout) page.

Description Of Common Server Responses

| **Status code** | | **Description** |
| --- | --- | --- |
| 200 | OK | The request was successful (some API calls may return 201 instead). |
| 201 | Created | The request was successful and created a new resource at the URI described by the Content-Location response header |
| 400 | Bad Request | The request did not pass validation due to syntax or semantic errors. Error message should indicate the error. |
| 401 | Unauthorized | Authentication failed due to an invalid or missing Authentication request header. |
| 403 | Forbidden | Access denied. |
| 404 | Not Found | There is no resource matching the request URI. |
| 405 | Method Not Allowed | Requested method is not supported for resource. |
| 406 | Not Acceptable | The server cannot fulfil the Accept request header. |
| 415 | Media Type Not Supported | The server does not support the media-type specified by the Content-Type request header. |
| 500 | Internal Server Error | The server had an internal error and failed to handle the request. |

​In the event of an error (status code 4xx and 5xx), the returned message may contain a correlation\_id identifying this particular transaction in Klarna's systems. The correlation id may be requested by merchant support to help speed up support inquiries.

Order resource

This is an overview description of the order structure.

**API**: https://api.klarna.com/checkout/v3/

Legend

O, optional

M, mandatory

R, read only

resource properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| order\_id | string | R | Max 255 characters. The unique order ID. |
| purchase\_country | string | M | ISO 3166 alpha-2. Purchase country. |
| purchase\_currency | string | M | ISO 4217. Purchase currency. |
| locale | string | M | RFC 1766. Customer's locale. |
| shipping\_countries | array | O | A list of countries (ISO 3166 alpha-2). Optional. Default is purchase\_country only. |
| status | string | R | The current status of the order. |
| billing\_address | [address object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#address-object-properties) | O | Once the customer has provided any data in the checkout iFrame, updates to this object will be ignored (without generating an error). |
| shipping\_address | [address object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#address-object-properties) | R | Unless the customer has explicitly chosen to enter a separate shipping address, this is a clone of billing\_address. |
| order\_amount | integer | M | Non-negative, minor units. Total total amount of the order, including tax and any discounts. |
| order\_tax\_amount | integer | M | Non-negative, minor units. The total tax amount of the order. |
| order\_lines | array of [order\_line objects](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#order_line-object-properties) | M | The applicable order lines. |
| customer | [customer object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#customer-object-properties) | O | Information about the liable customer of the order. |
| merchant\_urls | [merchant\_urls object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#merchant_urls-object-properties) | M | The merchant\_urls object. |
| options | [options object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#options-object-properties) | O | Options for this purchase. |
| gui | [gui object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#gui-object-properties) | O | The gui object. |
| attachment | [attachment object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#attachment-object-properties) | O | Additional purchase information required for some industries. |
| html\_snippet | string | R | The HTML snippet that is used to render the checkout in an iframe. |
| merchant\_reference1 | string | O | Used for storing merchant's internal order number or other reference. If set, will be shown on the confirmation page as "order number". |
| merchant\_reference2 | string | O | Used for storing merchant's internal order number or other reference. |
| merchant\_data | string | O | Max 1024 characters pass through field |
| started\_at | string | R | ISO 8601 datetime. When the merchant created the order. |
| completed\_at | string | R | ISO 8601 datetime. When the customer completed the order. |
| last\_modified\_at | string | R | ISO 8601 datetime. When the order was last modified. |
| external\_payment\_methods | array of [external\_payment objects](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#external_payment-object-properties) | O | List of external payment methods. |
| external\_checkouts | array of [external\_checkout objects](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#external_checkout-object-properties) | O | List of external checkouts. |
| merchant\_requested | [merchant\_requested object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#merchant_requested-object-properties) | R | Stores merchant requested data. e.g. the state of the optional [additional\_checkbox](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#additional_checkbox-property) |

address object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| title | string | O | Title. Possible values:   * *Mr* * *Ms* * *Mrs* * *Miss* |
| given\_name | string | O | Given name. |
| family\_name | string | O | Family name. |
| street\_address | string | O | Street address, first line. |
| street\_address2 | string | O | Street address, second line. |
| postal\_code | string | O | Postal/post code. |
| city | string | O | City. |
| country | string | O | ISO 3166 alpha-2. Country. |
| email | string | O | E-mail address. |
| phone | string | O | Phone number. |
| region | string | O | State. |

order\_line object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| type | string | O | Possible values:   * *physical (default)* * *discount* * *shipping\_fee* |
| reference | string | O | Article number, SKU or similar. |
| name | string | M | Descriptive item name. |
| quantity | integer | M | Non-negative. The item quantity. |
| quantity\_unit | string | O | Unit used to describe the quantity, e.g. kg, pcs.. If defined has to be 1-8 characters |
| unit\_price | integer | M | Minor units. Includes tax, excludes discount. |
| tax\_rate | integer | M | Non-negative. In percent, two implicit decimals. I.e 2500 = 25%. |
| total\_amount | integer | M | Includes tax and discount. Must match (quantity \* unit\_price) - total\_discount\_amount within ±quantity. |
| total\_discount\_amount | integer | O | Non-negative minor units. Includes tax. |
| total\_tax\_amount | integer | M | Must be within ±1 of total\_amount - total\_amount \* 10000 / (10000 + tax\_rate). Negative when type is discount. |
| merchant\_data | string | O | Max 1024 characters pass through field. |

customer object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| date\_of\_birth | string | O | ISO 8601 date. The customer date of birth. |

merchant\_urls object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| terms | string | M | URL of merchant terms and conditions |
| checkout | string | M | URL of merchant checkout page |
| confirmation | string | M | URL of merchant confirmation page |
| push | string | M | URL that will be requested when an order is completed |
| validation | string | O | URL that will be requested for final merchant validation. If provided it must be *https* |
| address\_update | string | O | URL for shipping and tax updates |
| notification | string | O | URL for notifications on pending orders |

gui object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| options | array of strings | O | An array of options to define the checkout behaviour. Supported options: disable\_autofocus. |

attachment object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| body | string | M | The attachment body. |
| content\_type | string | M | The content type of the body property. |

A list of available attachment types can be found [here](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api/attachments).

options object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| date\_of\_birth\_mandatory | boolean | O | If true, the consumer cannot skip date of birth. Default: false |
| allow\_separate\_shipping\_address | boolean | O | If true, the consumer can enter different billing and shipping addresses. Default: false |
| shipping\_details | string | O | A message (max 70 characters) that will be presented on the confirmation page under the headline "Delivery" |
| color\_button | string | O | CSS hex color, e.g. "#FF9900" |
| color\_button\_text | string | O | CSS hex color, e.g. "#FF9900" |
| color\_checkbox | string | O | CSS hex color, e.g. "#FF9900" |
| color\_checkbox\_checkmark | string | O | CSS hex color, e.g. "#FF9900" |
| color\_header | string | O | CSS hex color, e.g. "#FF9900" |
| color\_link | string | O | CSS hex color, e.g. "#FF9900" |
| title\_mandatory | boolean | O | If specified to false, title becomes optional in countries that by default require title |
| require\_validate\_callback\_success | boolean | O | If true, validate callback must get a positive response to not stop purchase |
| additional\_checkbox | [checkbox object](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#checkbox-object-properties) | O | Additional merchant defined checkbox. e.g. for Newsletter opt-in. |

external\_payment object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| name | string | M | The name of the external payment method. |
| redirect\_url | string | M | URL to redirect to (HTTPS required) |
| image\_url | string | O | URL to a image to display (HTTPS required) |
| fee | integer | O | Minor units. Includes tax. |
| description | string | O | Description. |
| countries | list of countries | O | If specified, limits the method to the listed countries (alpha 2 codes). |

external\_checkout object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| name | string | M | The name of the external checkout. |
| redirect\_url | string | M | URL to redirect to (HTTPS required) |
| image\_url | string | O | URL to a image to display (HTTPS required) |
| fee | integer | O | Minor units. Includes tax. |
| description | string | O | Description. |
| countries | list of countries | O | If specified, limits the method to the listed countries (alpha 2 codes). |

checkbox object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| text | string | M | Text that will be displayed to the consumer aside the checkbox. (max 255 characters) |
| checked | boolean | M | Default state of the additional checkbox. It will use this value when loaded for the first time. |
| required | boolean | M | Whether it is required for the consumer to check the additional checkbox box or not in order to complete the purchase. |

merchant\_requested object properties

| **Variable** | **Type** | | **Description** |
| --- | --- | --- | --- |
| additional\_checkbox | boolean | R | Informs whether the the [additional\_checkbox](https://developers.klarna.com/en/gb+php/kco-v3/checkout-api#additional_checkbox-property) is checked or not, when applicable. |

Methods

Create a new order

To create a new order simply provide a JSON object with the applicable properties.

The location of the newly created checkout order can be found in the location header of the response. ​

Please note: that this is the url that should be used for future interactions (read and update) with the order, i.e. do not construct the order url based on the order id.

HTTP Request​

POST /checkout/v3/orders HTTP/1.1

Content-Type: application/json

{

"purchase\_country": "gb",

"purchase\_currency": "gbp",

"locale": "en-gb",

"billing\_address": {

"email": "user@example.com"

},

"order\_amount": 10000,

"order\_tax\_amount": 2000,

"order\_lines": [

{

"type": "physical",

"reference": "123050",

"name": "Tomatos",

"quantity": 10,

"quantity\_unit": "kg",

"unit\_price": 600,

"tax\_rate": 2500,

"total\_amount": 6000,

"total\_tax\_amount": 1200

},

{

"type": "physical",

"reference": "543670",

"name": "Bananas",

"quantity": 1,

"quantity\_unit": "bag",

"unit\_price": 5000,

"tax\_rate": 2500,

"total\_amount": 4000,

"total\_discount\_amount": 1000,

"total\_tax\_amount": 800

}

],

"merchant\_urls": {

"terms": "http://www.merchant.com/toc",

"checkout": "http://www.merchant.com/checkout?&klarna\_order\_id={checkout.order.id}",

"confirmation": "http://www.merchant.com/thank-you?&klarna\_order\_id={checkout.order.id}",

"push": "http://www.merchant.com/create\_order?&klarna\_order\_id={checkout.order.id}&sid=123456"

},

"options": {

"allow\_separate\_shipping\_address": true

}

}

HTTP Response

HTTP/1.1 201 Created

Content-Type: application/json

Location: https://api.klarna.com/checkout/v3/orders/ABC123

{}

Retrieve an order

Retrieve the full checkout order resource content

HTTP Request

GET /checkout/v3/orders/{id} HTTP/1.1

Accept: application/json

HTTP Response

HTTP/1.1 200 OK

Content-Type: application/json

{

"order\_id": "ABC123",

"purchase\_country": "gb",

"purchase\_currency": "gbp",

"locale": "en-gb",

"status": "checkout\_incomplete",

"billing\_address": {

"title": "Mr",

"given\_name": "John",

"family\_name": "Doe",

"street\_address": "100 Kings Road",

"postal\_code": "SW7 5NP",

"city": "London",

"country": "gb",

"email": "user@example.com",

"phone": "12345678"

},

"shipping\_address": {

"title": "Mr",

"given\_name": "John",

"family\_name": "Doe",

"street\_address": "100 Kings Road",

"postal\_code": "SW7 5NP",

"city": "London",

"country": "gb",

"email": "user@example.com",

"phone": "12345678"

},

"order\_amount": 10000,

"order\_tax\_amount": 2000,

"order\_lines": [

{

"type": "physical",

"reference": "123050",

"name": "Tomatos",

"quantity": 10,

"quantity\_unit": "kg",

"unit\_price": 600,

"tax\_rate": 2500,

"total\_amount": 6000,

"total\_tax\_amount": 1200

},

{

"type": "physical",

"reference": "543670",

"name": "Bananas",

"quantity": 1,

"quantity\_unit": "bag",

"unit\_price": 5000,

"tax\_rate": 2500,

"total\_amount": 4000,

"total\_discount\_amount": 1000,

"total\_tax\_amount": 800

}

],

"customer": {

"date\_of\_birth": "1978-01-30"

},

"merchant\_urls": {

"terms": "http://www.merchant.com/toc",

"checkout": "http://www.merchant.com/checkout?&klarna\_order\_id={checkout.order.id}",

"confirmation": "http://www.merchant.com/thank-you?&klarna\_order\_id={checkout.order.id}",

"push": "http://www.merchant.com/create\_order?&klarna\_order\_id={checkout.order.id}&sid=123456"

},

"options": {

"allow\_separate\_shipping\_address": true,

"date\_of\_birth\_mandatory": false

},

"html\_snippet": "<script>...</script>",

"started\_at": "2014-04-29T22:38:05Z",

"last\_modified\_at": "2014-04-29T22:41:15Z"

}

Update an order

To update an order simply provide a JSON object with the properties you want to update. Properties not provided in the request will stay the same.

Please note: an order can only be updated when the status is checkout\_incomplete

HTTP Request

POST /checkout/v3/orders/{id} HTTP/1.1

Content-Type: application/json

{

"order\_amount": 11000,

"order\_tax\_amount": 2200,

"order\_lines": [

{

"type": "physical",

"reference": "123050",

"name": "Tomatos",

"quantity": 10,

"quantity\_unit": "kg",

"unit\_price": 600,

"tax\_rate": 2500,

"total\_amount": 6000,

"total\_tax\_amount": 1200

},

{

"type": "physical",

"reference": "543670",

"name": "Bananas",

"quantity": 1,

"quantity\_unit": "bag",

"unit\_price": 5000,

"tax\_rate": 2500,

"total\_amount": 4000,

"total\_discount\_amount": 1000,

"total\_tax\_amount": 800

},

{

"type": "shipping\_fee",

"name": "Express delivery",

"quantity": 1,

"unit\_price": 1000,

"tax\_rate": 2500,

"total\_amount": 1000,

"total\_tax\_amount": 200

}

]

}

HTTP Response

HTTP/1.1 200 OK

Content-Type: application/json

{

"order\_id": "ABC123",

"purchase\_country": "gb",

"purchase\_currency": "gbp",

"locale": "en-gb",

"status": "checkout\_incomplete",

"billing\_address": {

"title": "Mr",

"given\_name": "John",

"family\_name": "Doe",

"street\_address": "100 Kings Road",

"postal\_code": "SW7 5NP",

"city": "London",

"country": "gb",

"email": "user@example.com",

"phone": "12345678"

},

"shipping\_address": {

"title": "Mr",

"given\_name": "John",

"family\_name": "Doe",

"street\_address": "100 Kings Road",

"postal\_code": "SW7 5NP",

"city": "London",

"country": "gb",

"email": "user@example.com",

"phone": "12345678"

},

"order\_amount": 11000,

"order\_tax\_amount": 2200,

"order\_lines": [

{

"type": "physical",

"reference": "123050",

"name": "Tomatos",

"quantity": 10,

"quantity\_unit": "kg",

"unit\_price": 600,

"tax\_rate": 2500,

"total\_amount": 6000,

"total\_tax\_amount": 1200

},

{

"type": "physical",

"reference": "543670",

"name": "Bananas",

"quantity": 1,

"quantity\_unit": "bag",

"unit\_price": 5000,

"tax\_rate": 2500,

"total\_amount": 4000,

"total\_discount\_amount": 1000,

"total\_tax\_amount": 800

},

{

"type": "shipping\_fee",

"name": "Express delivery",

"quantity": 1,

"unit\_price": 1000,

"tax\_rate": 2500,

"total\_amount": 1000,

"total\_tax\_amount": 200

}

],

"customer": {

"date\_of\_birth": "1978-01-30"

},

"merchant\_urls": {

"terms": "http://www.merchant.com/toc",

"checkout": "http://www.merchant.com/checkout?&klarna\_order\_id={checkout.order.id}",

"confirmation": "http://www.merchant.com/thank-you?&klarna\_order\_id={checkout.order.id}",

"push": "http://www.merchant.com/create\_order?&klarna\_order\_id={checkout.order.id}&sid=123456"

},

"options": {

"allow\_separate\_shipping\_address": true,

"date\_of\_birth\_mandatory": false

},

"html\_snippet": "<script>.......</script>",

"started\_at": "2014-04-29T22:38:05Z",

"last\_modified\_at": "2014-04-29T22:41:15Z"

}