

External Payment Gateway Connector API

To integrate an external payment gateway with Bold Checkout, a developer must create an external payment gateway *connector*. A connector is an API implemented by a developer that interfaces between the external payment gateway and Bold Checkout. Bold Checkout uses this connector to send payloads to the designated external payment gateway.

A connector must support the following endpoints:

- Retain
- Auth
- Capture
- Void
- Refund

These endpoints are built on the `base_url` set when registering the gateway with the [Create External Payment Gateway endpoint](#) and the `payments` subroute. For example, if your `base_url` is `www.example.com/gateway`, your `Retain` endpoint uses the `payments` subroute and becomes `www.example.com/gateway/payments/retain`.

A connector also uses actions and events to interact with the `iframe`, as shown in the External Payment Gateway [Actions and Events](#) reference.

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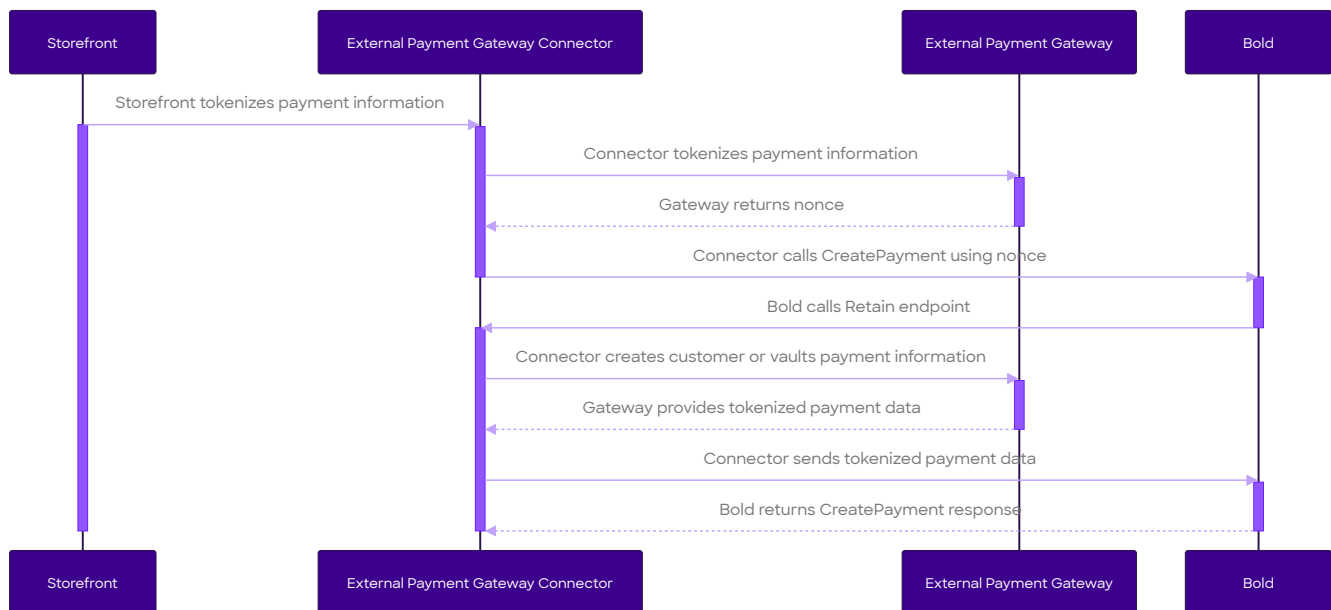
Request headers

The request headers from Bold contain a signature and other metadata in the following format:

```
Authorization: Signature keyId="api_secret", algorithm="hmac-sha256",  
signature="MXpePJs99hUcgzst2IDOU3HMj0kmcxyLc1ZpaWq3OeU", headers="(request-target)  
date"  
X-Bold-API-Authorization: Signature keyId="api_secret", algorithm="hmac-sha256",  
signature="MXpePJs99hUcgzst2IDOU3HMj0kmcxyLc1ZpaWq3OeU", headers="(request-target)  
date"
```

Retain

Converts a token received from the Checkout Frontend **Create Payment** endpoint into a permanent reference used for payment processing.



Before calling any of the endpoints for the external payment gateway connector, the

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2. The external payment gateway connector provides the payment information to the external payment gateway and receives a generated token. The generated token is a nonce, and it can only be used once per transaction.
3. The connector calls Bold's [Create Payment](#) endpoint with the returned token.

Once the external payment gateway provides the tokenized payment information, Bold uses the connector to hold the payment amount for the transaction.

1. Bold uses the connector's [Retain](#) endpoint to either create a customer or vault the payment information through the external payment gateway.
2. The external payment gateway receives the connector's nonce and returns the tokenized payment data.
3. The connector sends the tokenized payment data to Bold, and Bold returns a successful Create Payment response to the connector.

Retain Request

TYPE: POST

Attributes

Key	Type	Description
provider_id	string	An identifier configured when the gateway is provisioned by the external payment gateway.
token	string	A token generated by the payment gateway to identify the payment.
customer_data	object	An array of customer data pulled from the order.

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Key	Type	Description
<code>third_party_parameters</code>	<code>object</code>	<p>An array of key-value pairs passed to Bold Checkout via the <code>payment_parameters</code> field in the Create Payment endpoint.</p> <p>If <code>third_party_parameters</code> is empty, its value is an empty array (<code>[]</code>).</p>

Example

```
{
  "provider_id": "8ad85ccf-7fd6-4f4b-ala2-dff42fb3e228",
  "token": "ABCF-123",
  "customer_data": {
    "email": "john.doe@example.com",
    "first_name": "John",
    "last_name": "Doe"
  },
  "billing_address": {
    "id": "123",
    "first_name": "John",
    "last_name": "Doe",
    "address_line_1": "50 Fultz Blvd",
    "address_line_2": "Suite 200",
    "country": "Canada",
    "city": "Winnipeg",
    "province": "Manitoba",
    "country_code": "CA",
    "province_code": "MB",
    "postal_code": "R3Y0L6",
    "business_name": "Acme Inc.",
    "phone_number": "8005550101"
  },
  "third_party_parameters": {
    "is_giftcard": "true",
    "customer_segment_id": "ab4329tn23oe315"
  }
}
```

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Attributes

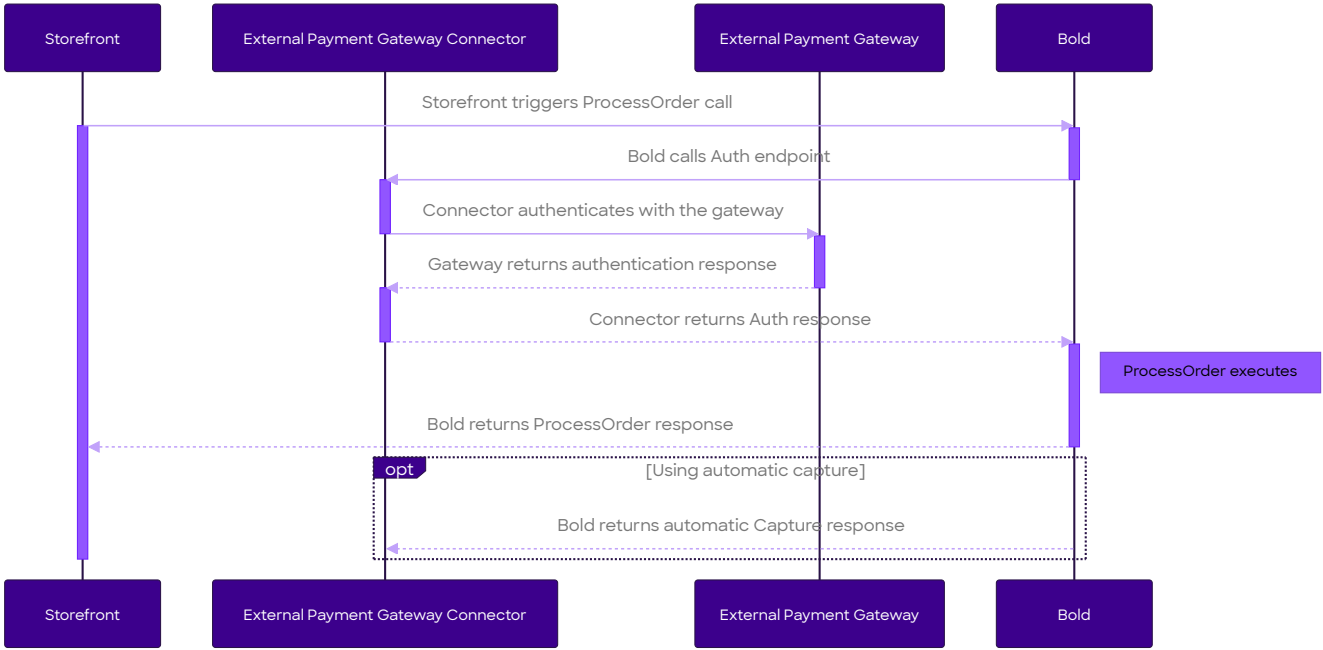
Key	Type	Description
<code>token</code>	<code>string</code>	A string generated by the payment gateway to identify the retained payment.

EXAMPLE

```
{
  "token": "C-123AB"
}
```

Auth

Authorizes a payment of a specific value.

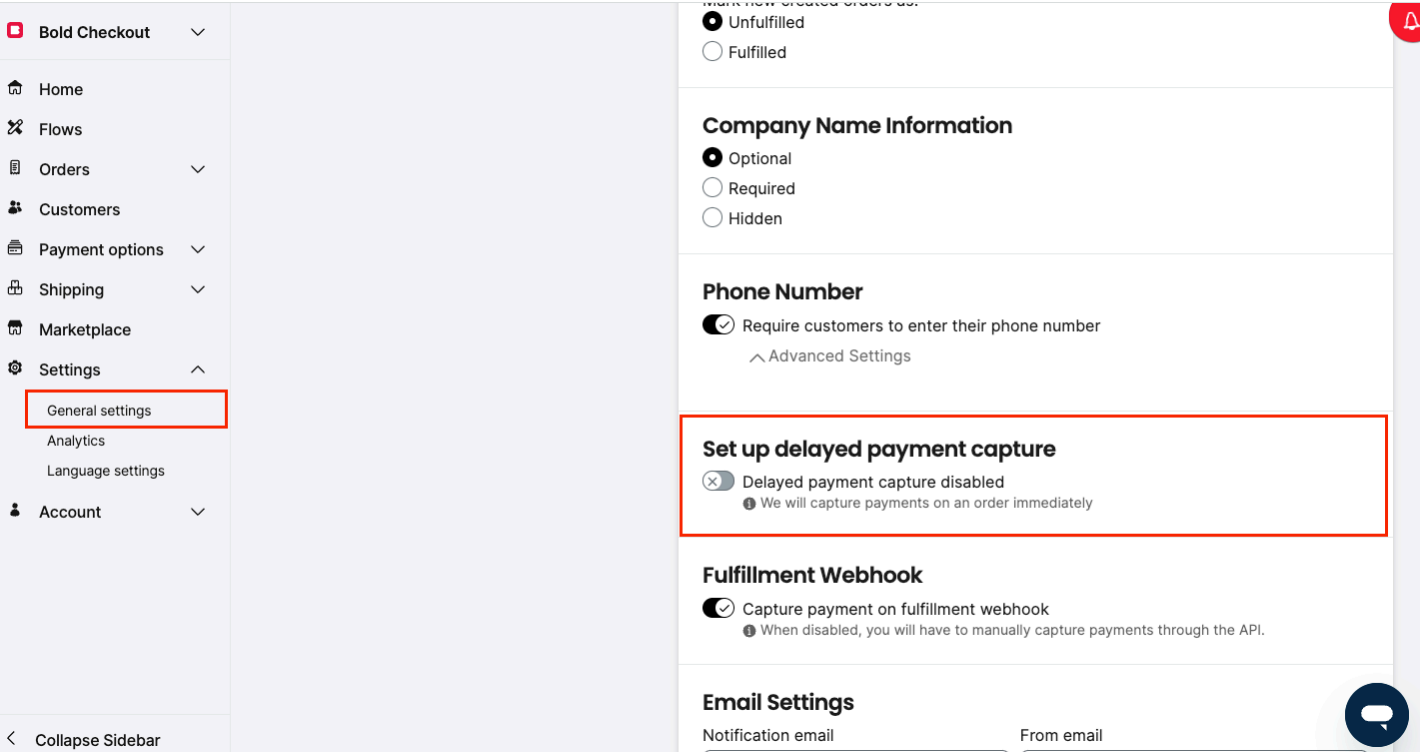


When the storefront calls the **Process Order** endpoint, Bold must authenticate the

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- 3. Once the connector sends Bold a successful Auth response, Bold processes the authenticated transaction.
- 4. Bold returns the result of Process Order to the storefront.

The "Using automatic capture" section in the diagram represents the "delayed payment capture" setting in your [Bold Checkout admin](#) settings. When enabled, Bold does not try to immediately capture an order.



Auth Request

TYPE: POST

Attributes

Key	Type	Description
		A token generated by the payment gateway.

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Key	Type	Description
<code>bold_order_id</code>	<code>integer</code>	The Bold order identifier, generated by Bold.
<code>customer_data</code>	<code>object</code>	An object of customer data pulled from the order.
<code>amount</code>	<code>number</code>	The payment amount, represented in cents/base currency units, using ISO-4217 standards .
<code>currency</code>	<code>string</code>	The currency of the payment, using ISO-4217 standards .
<code>billing_address</code>	<code>object</code>	(Optional) The full billing address from the order. Bold leaves this field empty if the billing address is not set on the order.
<code>shipping_address</code>	<code>object</code>	(Optional) The full shipping address from the order. Bold leaves this field empty if the shipping address is not set on the order.
<code>order_details</code>	<code>object</code>	(Optional) Detailed information about each line item, shipping information, total taxes and the shipping total. Only set if <code>additional_order_details</code> is set to <code>true</code> when registering an external payment gateway.

The `order_details` object below includes tax and shipping totals. These values are represented in either *base currency units* (minor units of currency) or *currency units* (major units of currency with appended minor units). For example, to represent \$1.20 USD in base currency units, the value is `120`. To represent \$1.20 USD in currency units, the value is `1.20`.

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```
{
  "token": "C-123BA",
  "amount": 10000,
  "order_id": "woiph4vhqss9jjr50lR5am7IWurQ8FdbmtdOj4aaFIOfFiFGcvhY6xlt6eT0GoB",
  "bold_order_id": 255,
  "customer_data": {
    "email": "john.doe@example.com",
    "first_name": "John",
    "last_name": "Doe"
  },
  "currency": "CAD",
  "billing_address": {
    "id": "123",
    "first_name": "John",
    "last_name": "Doe",
    "address_line_1": "50 Fultz Blvd",
    "address_line_2": "Suite 200",
    "country": "Canada",
    "city": "Winnipeg",
    "province": "Manitoba",
    "country_code": "CA",
    "province_code": "MB",
    "postal_code": "R3Y0L6",
    "business_name": "Acme Inc.",
    "phone_number": "8005550101"
  },
  "shipping_address": {
    "id": "123",
    "first_name": "John",
    "last_name": "Doe",
    "address_line_1": "50 Fultz Blvd",
    "address_line_2": "Suite 200",
    "country": "Canada",
    "city": "Winnipeg",
    "province": "Manitoba",
    "country_code": "CA",
    "province_code": "MB",
    "postal_code": "R3Y0L6",
    "business_name": "Acme Inc.",
    "phone_number": "8005550101"
  },
}
```

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```

experience.",
    "kind": "debit",
    "quantity": 2,
    "unit_amount": 9500,    # base currency unit
    "unit_tax_amount": 4.75,    # currency unit
    "total_amount": 90.60,    # currency unit
    "discount_amount": 9.15,    # currency unit
    "product_code": "OAK_GRATER_SM"
}
],
"shipping_address": {
    "company": "Bold Commerce",
    "country_code_alpha2": "CA",
    "country_name": "Canada",
    "extended_address": "Suite 200",
    "first_name": "John",
    "last_name": "Doe",
    "locality": "Winnipeg",
    "postal_code": "R3Y0L6",
    "region": "MB",
    "street_address": "50 Fultz Blvd"
}
}
}

```

Auth Response

Attributes

Key	Type	Description
<code>authorization_id</code>	<code>string</code>	A string generated by the payment gateway to identify the authorized payment.

EXAMPLE

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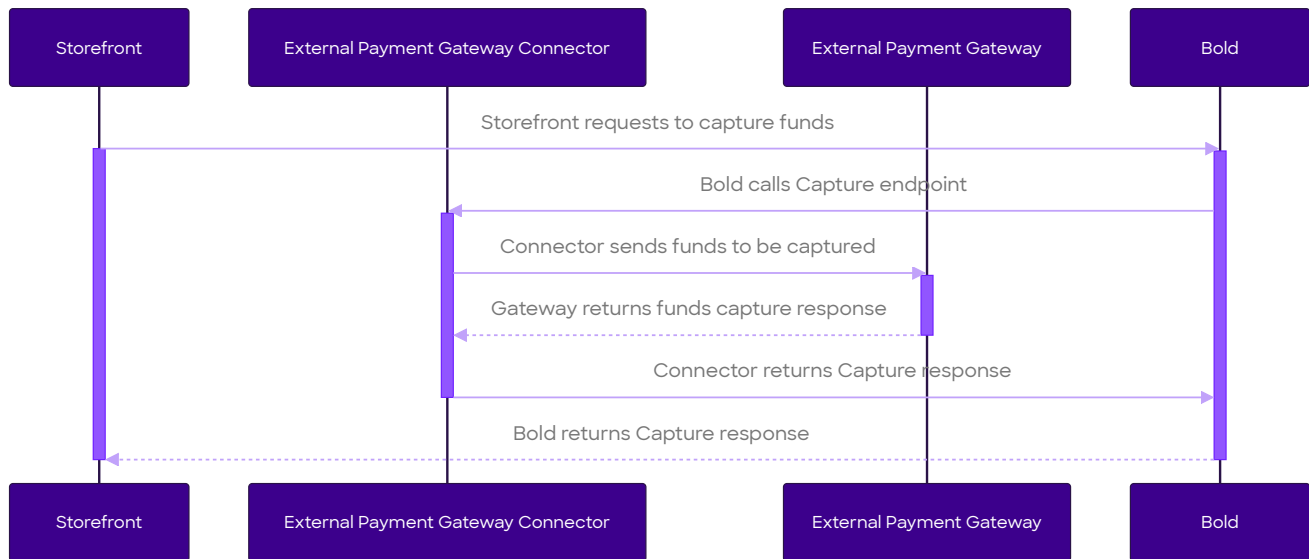
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Capture

Captures a specific payment amount less than or equal to the authorization amount.

For partial captures, Bold Checkout sends the `hold_open` flag to indicate there may be additional captures against the authorization.



1. The storefront calls one of Bold's [capture payment](#) endpoints via API.
2. Bold sends the request to external payment gateway connector's [Capture](#) endpoint.
3. The connector sends the request to the external payment gateway.
4. The external payment gateway sends its response to the connector, which forwards the response to Bold.
5. Bold sends the operation response back to the storefront.

Capture Request

TYPE: `POST`

Attributes

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Key	Type	Description
		payment, returned in the Auth response.
<code>amount</code>	<code>number</code>	The payment amount, represented in cents/base currency units, using ISO-4217 standards .
<code>hold_open</code>	<code>boolean</code>	Set to true if there are more possible captures to follow against the same authorization. Only set if <code>partial_capture</code> is set to <code>true</code> when registering an external payment gateway.
<code>fulfillment_data</code>	<code>object</code>	Object passed in via the Create Payment endpoint . Only sent if required by the external payment application.
<code>platform_order_id</code>	<code>string</code>	A unique order identifier, assigned by the platform.
<code>platform_friendly_order_id</code>	<code>string</code>	An order identifier, assigned by the platform. Unique for each store.

The structure of `fulfillment_data` is dependent on the external payment gateway. Bold directly passes the data provided by the external payment gateway in this field.

Example

```
{
  "authorization_id": "123ABC456",
  "amount": 5000,
  "hold open": true.
}
```

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Capture Response

Attributes

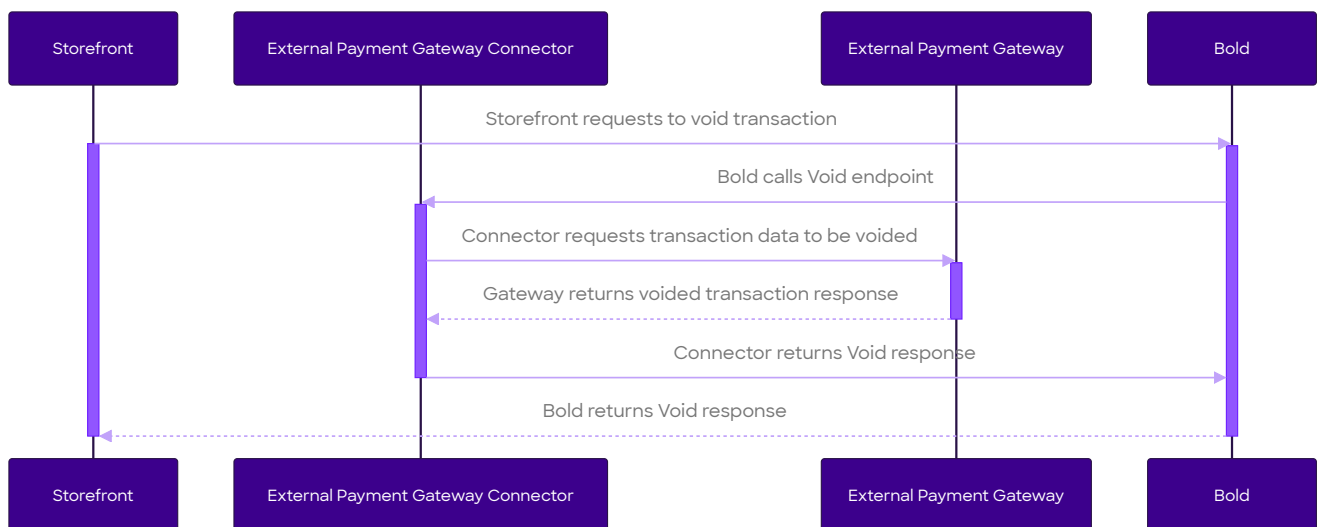
Key	Type	Description
<code>transaction_id</code>	<code>string</code>	A string generated by the payment gateway to identify the transaction.

EXAMPLE

```
{
  "transaction_id": "aj7rif94sd"
}
```

Void

Cancels the payment authorization before capture. Uses the `authorization_id` to cancel the authorization and release the held funds.



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5. Bold sends the operation response back to the storefront.

Void Request

TYPE: `POST`

Attributes

Key	Type	Description
<code>authorization_id</code>	<code>string</code>	The <code>authorization_id</code> returned in an Auth response .
<code>platform_order_id</code>	<code>string</code>	A unique order identifier, assigned by the platform.
<code>platform_friendly_order_id</code>	<code>string</code>	An order identifier, assigned by the platform. Unique for each store.
<code>origin_payment_id</code>	<code>string</code>	The original payment's identifier. This field is only sent when using the Capture Specific Payment endpoint, which creates a new transaction from an existing one.

Example

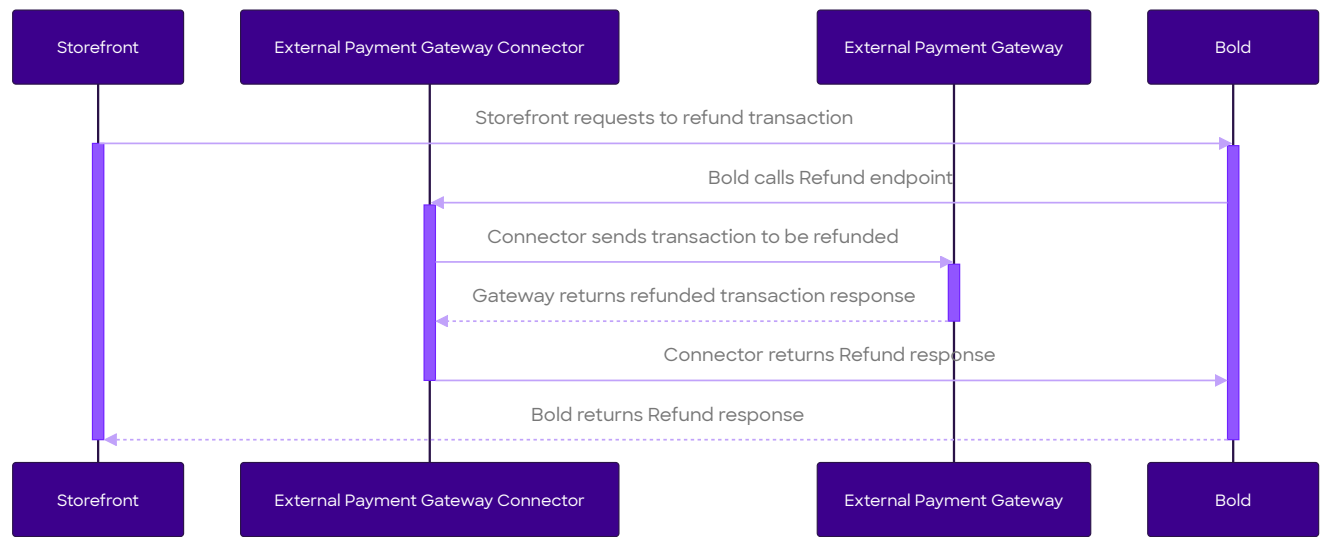
```
{
  "authorization_id": "123ABC456"
}
```

Void Response

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Refund

Refunds a specific amount against a previously successful capture.



1. The storefront calls one of Bold's [refund endpoints](#) via Checkout Backend API.
2. Bold sends the request to external payment gateway connector's [Refund](#) endpoint.
3. The connector sends the request to the external payment gateway.
4. The external payment gateway sends its response to the connector, which forwards the response to Bold.
5. Bold sends the operation response back to the storefront.

Refund Request

TYPE:

POST

Attributes

Key	Type	Description
-----	------	-------------

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Key	Type	Description
<code>transaction_id</code>	<code>string</code>	The <code>transaction_id</code> of the payment capture to issue the refund against, returned in the Capture response .
<code>reason</code>	<code>string</code>	A text description, giving the refund reason.
<code>refund_data</code>	<code>object</code>	An object containing a list of items refunded by this request.
<code>platform_order_id</code>	<code>string</code>	A unique order identifier, assigned by the platform.
<code>platform_friendly_order_id</code>	<code>string</code>	An order identifier, assigned by the platform. Unique for each store.
<code>origin_payment_id</code>	<code>string</code>	The original payment's identifier. This field is only sent when using the Capture Specific Payment endpoint, which creates a new transaction from an existing one.

Example

```
{
  "amount": 2500,
  "transaction_id": "aj7rif94sd",
  "reason" : "Product didn't arrive",
  "refund_data": {<refund_data>}
}
```

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Example

200 on success

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