

# Product Search (Before)

This action manipulates the HTTP request or response before the Search (product) operation occurs in Kibo eCommerce.

|                                 |  |
|---------------------------------|--|
| Action Type                     | HTTP   |
| Full Action ID                  | http.commerce.catalog.storefront.productsearch.search.before |
| Runs multiple custom functions? | Yes  |

## JavaScript File Structure

Action files share the following basic structure:

```
module.exports = function(context, callback) {  
  // Your custom code here  
  callback();  
};
```

When you code the custom function for an action, you have access to two arguments:

**callback** —This argument follows the established JavaScript callback pattern: it takes an error as the first argument (or null if there is no error) and a result as the second argument (if required).

**context** —This argument provides the function access to relevant objects and methods that interface with Kibo eCommerce.

## Context: HTTP

The following methods and objects are available to this action through the use of the **context** argument.

### REST API Operation

This action corresponds to the [commerce/catalog/storefront/productsearch/Search](#) operation.

### HTTP Request

```
GET /api/commerce/catalog/storefront/productsearch/search/?query={query}&filter={filter}&facetTemplate={facetTemplate}&facetTemplateSubset={facetTemplateSubset}&facet={facet}&facetFieldRangeQuery={facetFieldRangeQuery}&facetHierPrefix={facetHierPrefix}&facetHierValue={facetHierValue}&facetHierDepth={facetHierDepth}&facetStartIndex={facetStartIndex}&facetPageSize={facetPageSize}&facetSettings={facetSettings}&facetValueFilter={facetValueFilter}&sortBy={sortBy}&pageSize={pageSize}&startIndex={startIndex}&responseFields={responseFields}
```

### Request Body

No request body content.

## Response Body

Use `context.response.body` to write the HTTP response body using this action.

### Context Objects Available to All HTTP Actions

- [request](#)
- [response](#)

### Context Methods Available to All HTTP Actions

- [request.get](#)
- [response.get](#)
- [response.set](#)
- [response.set](#)
- [response.remove](#)
- [response.redirect](#)
- [response.end](#)
- [get.resource](#)
- [get.resourceStatus](#)
- [items.urlHelper.getUrl](#)

### Context Objects Available to All Actions

- [apiContext](#)
- [configuration](#)

## Context Objects Available to All HTTP Actions

### request

Accesses the current HTTP request. In the case of Before actions, updates can be made to the request before Kibo eCommerce processes it.

| Properties | Type   | Description                                     |
|------------|--------|---|
| params     | object | The input parameters to the service or webpage. |
| headers    | object | The request headers.                            |
| method     | string | The request method.                             |
| url        | string | The request URL.                                |
| path       | string | The request path.                               |

| Properties | Type    | Description  |
|------------|---------|--|
| cookies    | object  | The request cookies.<br>*Available only for Storefront HTTP actions. |
| query      | object  | The request query.   |
| href       | string  | The request href.  |
| secure     | Boolean | Indicates whether the request uses HTTPS.                            |
| ip         | string  | The request IP address.  |
| ips        | string  | The request secure IP address.                                       |
| body       | object  | The request body of the API operation associated with this action.   |

Example:

```
context.request.url;
```

## response

Accesses the current HTTP response. For both Before and After actions, updates can be made to the response before Kibo eCommerce processes it.

| Properties | Type    | Description  |
|------------|---------|--|
| header     | object  | The response header collection.  |
| viewData   | object  | The viewData collection used by the storefront rendering engine.<br>*Available only for Storefront HTTP actions. |
| viewName   | string  | The response viewName value.<br>*Available only for Storefront HTTP actions.                                     |
| body       | object  | The response body of the API operation associated with this action.  |
| status     | integer | The response status code.  |

| Properties | Type    | Description           |
|------------|---------|-----------------------|
| message    | string  | The response message. |
| length     | integer | The response length.  |
| type       | string  | The response type.    |

Example:

```
context.response.header;
```

## Context Methods Available to All HTTP Actions

### request.get

Returns an HTTP header value for the specified header key.

| Parameters | Type   | Description     |
|------------|--------|-----------------|
| key        | string | The header key. |

Example:

```
context.request.get(field);
```

Response:

```
"object"
```

### response.get

Gets a field from the response.

| Parameters | Type   | Description          |
|------------|--------|----------------------|
| key        | object | The field to obtain. |

Example:

```
context.response.get(field);
```

Response:

```
"string"
```

## response.set

Sets the HTTP headers for the response.

| Parameters | Type   | Description                      |
|------------|--------|----------------------------------|
| values     | object | The values for the HTTP headers. |

Example:

```
context.response.set({ myCustomHeader: "howdy" });
```

Response: N/A

## response.set2

Updates a field in the response.

| Parameters | Type   | Description             |
|------------|--------|-------------------------|
| key        | string | The key of the field.   |
| value      | string | The value of the field. |

Example:

```
context.response.set("name", "stuff");
```

Response: N/A

## response.remove

Removes an HTTP header from the response.

| Parameters | Type   | Description                |
|------------|--------|----------------------------|
| key        | string | The HTTP header to remove. |

Example:

```
context.response.remove(header);
```

Response: N/A

## response.redirect

Redirects the incoming URL.

| Parameters | Type   | Description          |
|------------|--------|----------------------|
| url        | string | The destination URL. |

Example:

```
context.response.redirect("http://someOtherSite/foo");
```

Response: N/A

## response.end

Ends the response so that other actions or Kibo eCommerce logic can run. Also, signals the callback to complete.

| Parameters | Type | Description |
|------------|------|-------------|
| N/A        | N/A  | N/A         |

Example:

```
context.response.end();
```

Response: N/A

## get.resource

Returns the currently persisted value of the requested resource. **\*\*Not available for all calls.**

| Parameters | Type | Description |
|------------|------|-------------|
| N/A        | N/A  | N/A         |

Example:

```
context.get.resource();
```

Response: N/A

## get.resourceStatus

Gets the HTTP resource status.

| Parameters | Type | Description |
|------------|------|-------------|
| N/A        | N/A  | N/A         |

Example:

```
context.get.resourceStatus();
```

Response: N/A

## items.urlHelper.getUrl

Gets the current URL.

| Parameters | Type | Description |
|------------|------|-------------|
| type       |      |             |
| object     |      |             |
| config     |      |             |

Example:

```
context.items.urlHelper.getUrl(type, object, config);
```

## Context Objects Available to All Actions

### apiContext

Accesses Kibo eCommerce tenant information.

| Properties      | Type    | Description   |
|-----------------|---------|---|
| baseUrl         | string  | The base URL for the site.  |
| basePciUrl      | string  | The base PCI URL for the site.  |
| tenantPod       | string  | The name of the tenant pod in which the tenant resides.   |
| appClaims       | string  | The application claims token.   |
| appKey          | string  | The application key.  |
| tenantId        | integer | Unique identifier for the tenant.   |
| siteId          | integer | Unique identifier for the site. This ID is used at all levels of a store, catalog, and tenant to associate objects to a site. |
| masterCatalogId | integer | Unique identifier for the master catalog.   |

| Properties          | Type      | Description  |
|---------------------|-----------|--|
| catalogId           | integer   | The unique identifier for the product catalog. Catalogs are part of a master catalog.  |
| currencyCode        | string    | The default three-letter ISO currency code for monetary amounts.   |
| previewDate         | date/time | The date and time that the content is being viewed. This might be a future date if the content is previewed with an active date range set in the future. |
| localeCode          | string    | The locale code per the country code provided. This code determines the localized content to use and display.  |
| correlationId       | string    | The unique identifier of the API request associated with the event action, which might contain multiple actions.   |
| isAuthorizedAsAdmin | Boolean   | Indicates whether the Dev Account user is authorized as an admin.  |
| userClaims          | string    | The user claims token.   |

Example:

```
context.apiContext.baseUrl;
```

## configuration

Receives a JSON response that contains information about the configuration data set in the Action Management JSON editor.

| Properties | Type   | Description   |
|------------|--------|---|
| Varies     | object | Custom fields and values that you can set in the Action Management JSON Editor. |

Example:

```
context.configuration.customData;
```