

Global Page Request (Before)

This action manipulates the HTTP request or response before a page of any type loads on the live site.

| | |
|--|---|
| Action Type | HTTP |
| Full Action ID | http.storefront.pages.global.request.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.

Storefront Operation

This action occurs during the storefront operation that obtains and renders view and model data from Hypr particular to the requested page.

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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. *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. *Available only for Storefront HTTP actions. |
| viewName | string | The response viewName value. *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. |
| message | string | The response message. |
| length | integer | The response length. |

| Properties | Type | Description |
|------------|--------|--------------------|
| type | string | The response type. |

Example:

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

items.siteContext

Accesses the current site context.

| Properties | Type | Description |
|------------|---------|---|
| tenantId | integer | Unique identifier for the tenant. |
| siteId | integer | Unique identifier for the site. |
| hashString | string | A string to append to URLs that will change when cache is invalidated, either by a change to catalog or a publish of content. |
| labels | object | The theme labels, which are key-value pairs used for localization. |
| themeId | string | Unique identifier for the theme. |

| Properties | Type | Description |
|-----------------|-----------------|--|
| generalSettings | GeneralSettings | <p>An object the includes the following properties:</p> <ul style="list-style-type: none"> • <code>websiteName</code> (string)—Name of the site as configured in the Admin general settings. • <code>timeZone</code> (string)—The site time zone as configured in general settings in admin. Stored as human-readable string, e.g. “Mountain Standard Time”. • <code>allowInvalidAddresses</code> (Boolean)—TRUE if address validation is enabled and invalid addresses are allowed, as configured in the Admin general settings. • <code>googleAnalyticsEcomEnabled</code> (Boolean)—TRUE if Google Analytics is enabled and Google Analytics eCom tracking parameters are also enabled. In the Core theme and Core-derived themes, this results in a set of extra calls to the Google Analytics tracking beacon on the Order Confirmation page. • <code>googleAnalyticsEnabled</code> (Boolean)—TRUE if Google Analytics is enabled. In the Core theme and Core-derived themes this results in a call to the Google Analytics tracking beacon on every page. • <code>googleAnalyticsId</code> (string)—The UA number provided by the Google Analytics account as configured by the site. • <code>isAddressValidationEnabled</code> (Boolean)—TRUE if address validation is enabled as configured in the Admin general settings. |

| Properties | Type | Description |
|-----------------------|------------------|--|
| checkoutSettings | CheckoutSettings | <p>An object with the following properties:</p> <ul style="list-style-type: none"> <code>payByMail</code> (Boolean)—TRUE if pay-by-mail is enabled in the Admin checkout settings. <code>isPayPalEnabled</code> (Boolean)—TRUE if PayPal Express is enabled in Admin checkout settings. <code>supportedCards</code> (Dictionary<string, string>)—List of credit cards enabled in the Admin checkout settings. |
| themeSettings | object | An object that contains the theme settings available in <code>theme.json</code> . |
| isEditMode | Boolean | TRUE if the current site is being rendered inside an editor frame. Use this to display preview content in widgets or templates that would not work properly in an editing session. |
| cdnPrefix | string | The URL prefix for CDN content, composed of the host name plus a unique CDN identifier for the site. |
| secureHost | string | <i>HTTPS</i> version of the requested host name. |
| supportsInStorePickup | Boolean | TRUE if store pickup is enabled in the Admin location settings. |
| domains | siteDomains | <p>An object that lists the Current domain and the Primary domain, each of which has the following properties:</p> <ul style="list-style-type: none"> <code>domainName</code> (string)—the name of the domain. <code>isPrimary</code> (Boolean)—TRUE if the given domain is the primary one. |

| Properties | Type | Description |
|--------------|----------|--|
| currencyInfo | Currency | <p>An object with the following properties:</p> <ul style="list-style-type: none"> <code>EnglishName</code> (string)—the currency name. <code>symbol</code> (string)—the currency symbol. <code>precision</code> (integer)—the number of digits to display after the period. <code>roundingType</code> (string)—the rounding type value: "UpToCurrencyPrecision", "NearestNickel", "DownToNearestNickel", "DownToCurrencyPrecisionMinusOne", or "NearestHalfUnit". <code>currencyCode</code> (string)—for example, "USD" for U.S. dollars. Other values include: "EGP", "GBP", "TZS", "UYU", "UZS", "WST", "YER", "ZMK", "TWD", "GHS", "VEF", "SDG", "RSD", "MZN", and "AZN". |

Example:

```
context.items.siteContext.siteId;
```

items.pageContext

Accesses the current page context.

| Properties | Type | Description |
|-------------|---------|---|
| query | object | Read-only object of the key-value pairs in the current URL. |
| themeld | string | Unique identifier for the theme. |
| isDebugMode | Boolean | Indicates whether debug mode is enabled. |

| Properties | Type | Description |
|-----------------|----------------|--|
| cdnCacheBustKey | string | The randomly generated number appended to the URL of CDN content. This number changes in order to refresh cached content every time a Kibo eCommerce Admin user clicks the Bust Cache button available in the General Settings. |
| isSecure | Boolean | TRUE if the current page is a secure (HTTPS) page. |
| pageType | string | The <code>documentType</code> of the current page, such as "web_page", "cart", "search", etc. |
| isCrawler | Boolean | TRUE if the current page is requested by a search engine crawler. |
| isMobile | Boolean | TRUE if the current page is requested by a mobile device. |
| isTablet | Boolean | TRUE if the current page is requested by a tablet. |
| isDesktop | Boolean | TRUE if the visitor's browser does not identify itself as a mobile or tablet device. |
| cmsContext | CmsPageContext | <p>An object with the following the <code>Page</code>, <code>Template</code>, and <code>Site</code>, which each have the following properties:</p> <ul style="list-style-type: none"> <code>path</code> (string)—name or ID of the CMS document. <code>documentTypeFQN</code> (string)—the <code>documentType</code> such as "web_page". <code>document</code> (pointer)—a pointer to the CMS document. |

| Properties | Type | Description |
|-----------------|---------------|--|
| search | SearchContext | <p>An object related to URL paging and URL queries of product collections on Search pages and Category pages. It contains the following properties:</p> <ul style="list-style-type: none"> • <code>pageSize</code> (int)—the maximum number of items to return in the collection. • <code>query</code> (string)—A filter expression for Kibo eCommerce collections. You can filter products based on their properties by writing a string expression as your argument. For example: <code>properties.firstname eq "Brenda"</code>. • <code>sortBy</code> (string)—A string representing how to sort the collection. You can sort on any property, date (such as <code>createDate</code>), or document name. After specifying the name of the property you are sorting on, include a space followed by <code>"asc"</code> or <code>"desc"</code> to specify sorting in ascending or descending order. • <code>categoryId</code> (int)—the category to facet products for. • A keyed collection of facets to filter on. |
| visit | Visit | The unique visitor ID. |
| title | string | The title of the current page. |
| metaDescription | string | The contents of the description field entered into the SEO settings for the current page. |
| metaTitle | string | The contents of the title field entered into the SEO settings for the current page. |
| metaKeywords | string | The contents of the keywords field entered into the SEO settings for the current page. |

| Properties | Type | Description |
|--------------|----------|--|
| user | User | <p>An object with the following properties:</p> <ul style="list-style-type: none"> <code>isAuthenticated</code> (Boolean)—TRUE if the user is logged in. <code>userId</code> (string)—the unique identifier for the user. <code>firstName</code> (string)—the user's first name. <code>lastName</code> (string)—the user's last name. <code>email</code> (string)—the user's email address. <code>isAnonymous</code> (Boolean)—TRUE if the user is not logged in. <code>accountId</code> (int)—the unique identifier of the user's account. |
| isEditMode | Boolean | TRUE if the current site is being rendered inside an editor frame. Use this to display preview content in widgets or templates that would not work properly in an editing session. |
| url | string | The canonical URL for the current page. |
| dataViewMode | string | Either "live" or "pending". |
| secureHost | string | The fully-qualified secure CDN domain for the site. |
| now | DateTime | The current server date/time when the page is viewed. |
| categoryCode | string | The category code for the current page if the page is a Category page or Search page. |
| categoryId | integer | The category ID for the current page if the page is a Category page or Search page. |

Example:

```
context.items.pageContext.categoryCode;
```

items.navigation

Accesses the current navigation context.

| Properties | Type | Description |
|----------------|----------------------|--|
| tree | NavigationNode array | <p>The navigation tree used to build the main navigation bar for the site. Consists of a list of navigation nodes, each of which may contain children nodes which also are a list of nodes, and so on. The navigation nodes contain the following properties:</p> <ul style="list-style-type: none"> • <code>name</code> (string)—the name of the node. • <code>url</code> (string)—the URL to which the node links. • <code>index</code> (int)—the unique identifier for the node. • <code>isHidden</code> (Boolean)—TRUE if the node does not display in the site's navigation bar. • <code>parent</code> (NavigationNode)—the parent of the current node. • <code>items</code> (list of NavigationNode)—the children of the current node. |
| rootCategories | NavigationNode array | This is the same as the <code>tree</code> , except it only includes the root-level or top level of the tree, and also excludes CMS pages and external links. |
| currentNode | NavigationNode | The current node in the tree. |
| breadcrumbs | NavigationNode array | Shows the "breadcrumbs" that navigate to the current page. This is the same as the <code>tree</code> but it excludes the <code>parent</code> and <code>items</code> properties. |

Example:

```
context.items.navigation.breadcrumbs;
```

Context Methods Available to All Storefront Actions

exec.loginUser

Asynchronously retrieves a user, creates an authentication ticket, and sets the authentication cookies.

| Properties | Type | Description |
|------------|------|-------------|
|------------|------|-------------|

| Properties | Type | Description |
|------------|----------|--|
| config | object | <p>An object that contains the following fields:</p> <ul style="list-style-type: none"> <code>userId</code> (string)—The 32-character alphanumeric ID of the user to authenticate. <code>userName</code> (string)—The username of the user to authenticate (this field is not required if you provide a <code>userId</code>). <code>rememberUser</code> (Boolean)—Specifies whether the authentication cookie should be persistent. |
| callback | function | <p>A callback function that contains the following fields:</p> <ul style="list-style-type: none"> <code>err</code> An error object if the user is not found. <code>data</code> The authentication ticket for the user. |

Example:

```
var config = {
  rememberUser:true,
  userId: '48577d74a86044bfb2872a4c184ce33c'
};

context.exec.loginUser(config, function (err, result){
//handle the possible error and call the callback
//if successful the result should be the customer auth ticket.
  if (err){
    //bubble up error to the platform
    callback (err);
    return;
  }

//return control flow to the platform
callback();
});
```

Response: NA

exec.logout

Synchronously logs out the current user by resetting the user context to an anonymous user and updating the associated cookies.

| N/A | N/A | N/A |
|------------|------|-------------|
| Properties | Type | Description |

Example:

```
context.exec.logout();
```

Response: NA

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. |
| 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. |

| Properties | Type | Description |
|---------------------|---------|--|
| 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;
```