


Filters

Filters are logic used to exclude fulfillment locations within a scenario that do not match certain criteria. For example, a filter can be created so that orders can only be assigned or viewed if a fulfiller is located within 100 miles of the customer.

Multiple filters can be applied to the same scenario to further narrow the list of fulfillers. For instance, two filters can be created so that the order can be only assigned or viewed if the fulfiller is located within 100 miles of the customer and the order total price is less than \$1,000.

 Note that changes to Order Routing settings may not immediately take effect when processing orders. It may take up to 15 minutes for updates to be reflected in the system while the cache refreshes.

View All Filters

The Filters page of the Order Routing interface displays all existing filters with a summary of what their logic was configured to do under the title. Expand the menu in the top right of a filter to delete, duplicate, or edit the filter (which will open a similar screen as the Create Filter form shown in the next section).

Filters ⓘ

Each filter corresponds to an order data point, such as order value, shipping destination, or fraud potential. During order assignment, filters eliminate some locations and promote others to find the ideal fulfillment location for each order.

<p>Example Filter ...</p> <p>If Test List is not equal to at least one of [4, 2], attempt assignment. Created on 07/25/2023 by admin@kibocommerce.com</p> <p>+ Add Filter to Scenario</p>	<p>S2STransferable ...</p> <p>If the boolean value associated with the custom item data point "S2STransferable" is equal to true, attempt assignment. Created on 11/05/2020 by admin@kibocommerce.com</p> <p>+ Add Filter to Scenario</p>
<p>CDList ...</p> <p>If is equal to at least one "Real Locations" entry, attempt assignment. Created on 05/02/2023 by admin@kibocommerce.com</p> <p>+ Add Filter to Scenario</p>	<p>PostalCode 75 ...</p> <p>If the shipping zip/postal code starts with 75, attempt assignment.</p> <p>+ Add Filter to Scenario</p>

Create a Filter

To create a new filter from the Filters page:

1. Click **Create Filter** from the actions menu on the left.
2. This will take you to the filter configuration page.

New filter

FILTER NAME

FILTER TYPE
 Custom value
 Custom data list
 Custom data set
 Data point

FILTER ATTRIBUTE +

LOGIC

 equal to not equal to starts with ends with contains

“
 If ..., attempt assignment.”

Cancel new filter

3. Enter the **Filter Name**.
4. Enter the **Filter Type**. This is the type of data that the filter will be based off of, whether an existing data point or custom value(s).
5. Select the **Filter Attribute**. This is the property that will determine whether the order should be assigned to a scenario with this filter. For an explanation of how each filter attribute works, see the table after the screenshot.
6. Select the **Logic** that should be applied when comparing the attribute. The possible logic conditions will change depending on the data type of the attribute you selected.
 - For logic conditions that support multiple values, such "or" and "any of," you will be able to select multiple values from the dropdown. For logic conditions that support only single conditions, like "equals" or "not equals," you will only be able to select one value.
 - If you select a list filter type, it will support the "in" or "not in" logic conditions. For example, if your filter attribute was Material then you could use "in" to compare it against the Iron, Steel, and Aluminum custom values. If the item matches any one of those values, it will attempt assignment. These are available for [both first-class and extensible attributes](#).
7. Specify the **Data Point Attribute** or **Custom Value** that the filter should compare the first attribute against.
8. The example statement below this option will update to describe your selected filter, helping you make sure you have configured it correctly. The below example shows a data point filter type.

LOGIC

=	≠	>	<	≥	≤
equal to	not equal to	greater than	less than	greater than or equal to	less than or equal to

CUSTOM VALUE

“ If the item quantity is greater than 0, attempt assignment. ”

9. Click **Save**.

Add or Remove Filter from Scenario

You can change which scenarios a filter is applied to directly from the Filters page.

1. Click **Add Filter to Scenario** or **Remove filter from scenario** underneath the filter you want to update.

2. This will display a list of scenarios across your entire routing strategy. Select one or more scenarios in the list.

3. Click **Add** or **Remove**.

Filter Attributes

First class fields, or fields that are available out-of-the-box for use in routing filters, are listed below. They are grouped by location, customer, product, and order field topics and can be selected as filter attributes or comparison properties.

To select custom attributes as filter properties, use [Extensible Order Routing](#) to enable those attributes. Once enabled, they will be available when configuring a filter.

Location Fields

These fields are part of the [location object in API data](#).

Field	Display Name	Description
N/A	Distance from Fulfillment Location to Order	<p>May be used to limit order assignment to locations within a certain distance from the order location. You can also use this to specify what distance the locations would be excluded from. This is calculated based on the latitude/longitude of the location's address and the order's destination.</p> <p>Note that this does not automatically select the closest location for fulfillment - that is determined by the sort options configured for the route.</p>
countryCode	Fulfillment Location Country Code	<p>Contained in the location address, this may be used to either prevent or allow assignment to locations that match a particular country code. This the set-up store location that is not part of the inbound order routing requests.</p> <p>It is recommended to use the "shipping country code" filter instead of this one in most cases.</p>
name	Fulfillment Location Name	<p>This may be used to select fulfillment by locations which have a certain name.</p>

Field	Display Name	Description
stateOrProvince	Fulfillment Location State/Province	<p>Contained in the location address, this may be used to either prevent or allow assignment to locations that match a particular state or province. This the set-up store location that is not part of the inbound order routing requests.</p> <p>It is recommended to use the "shipping state/province" filter instead of this one in most cases.</p>
postalOrZipCode	Fulfillment Location Zip/Postal Code	<p>Contained in the location address, this may be used to either prevent or allow assignment to locations that match a particular zip or postal code. This the set-up store location that is not part of the inbound order routing requests.</p>

Product Fields

Field	Display Name	Description
backorderable	Backorderable	If the inbound routing request has "backorderable" set to true on an item, then this will filter it appropriately.
data	Custom Item Data Point	You can set custom data on order items (either when submitting the order by populating the <code>items[].data</code> object , or by using the <code>exec.setItemData</code> function in API Extension functions where it is available), which will allow you to filter on order items that have this specific (key, value) pair.
isTaxable	Taxable	This may be used to filter assignment on items based on whether they are taxable or not, which is a true/false value.
mfgPartNumber	Part Number	This may be used to filter assignment on items based on a specific Part number.
packageHeight	Height	This may be used to filter assignment based on the dimensions of the item's package.

Field	Display Name	Description
packageLength	Length	This may be used to filter assignment based on the dimensions of the item's package.
packageWeight	Weight	This may be used to filter assignment based on the dimensions of the item's package.
packageWidth	Width	This may be used to filter assignment based on the dimensions of the item's package.
productCode	SKU	This may be used to filter assignment on items with a specific SKU.
productName	Product Title	This may be used to filter assignment on items based on a specific product name.
upc	Item UPC	This may be used to filter assignment on items based on a specific UPC.

Order Fields

Field	Display Name	Description
countryCode	Shipping Country Code	<p>Contained in the shipping address, this may be used to either prevent or allow assignment to locations that match a particular country code. This is the customer's shipping address included in the inbound order routing requests.</p> <p>It is recommended to use this filter instead of the "fulfillment location country code" in most cases.</p>
express	Express Shipping	May be used to filter out locations that do not offer express shipping. You can enable this on a location by toggling the "Can Fulfill Express Orders" option in the Locations page of the Admin UI.
code	Pickup Location Code	For transfer orders, this may be used to filter on locations where the original pickup location matches a certain code.

Field	Display Name	Description
postalOrZipCode	Shipping Zip/Postal Code	Contained in the shipping address.
quantity	Item Quantity	May be used to prioritize whether certain locations fulfill larger or smaller orders.
stateOrProvince	Shipping State/Province	<p>Contained in the shipping address, this may be used to either prevent or allow assignment to locations that match a particular state or province. This is the customer's shipping address included in the inbound order routing requests.</p> <p>It is recommended to use this filter instead of the "fulfillment location state/province" in most cases.</p>
total	Total Order Price	This may be used to filter on orders less than, greater than, or equal to a certain amount if you want certain locations to handle larger or smaller order values.
type	Type	Filters orders based on whether they are the "Offline" or "Online" order type.