

# Extensible Order Routing

Extensible Order Routing allows an Admin user to select which custom product, location, customer and order attributes can be used in Order Routing. This provides the power and flexibility to set up order routing rules best suited to your unique business needs and determine the most optimum locations to fulfill the orders from.

Along with the generic attributes that are common in the retail industry, which are available out-of-the-box in [routing filters](#), you can select custom attributes to apply in filter logic.



This feature is available for all clients whose implementations include Order Management. Please contact to ensure it is enabled for you.

However, note that OMS-Only implementations can only reference customer, order, and location attributes. The Catalog solution is required to use product attributes.

This is an advanced feature that must be enabled for your tenant by Kibo, so please contact your project team or .

## Use Cases

The following sections describe example scenarios in which extensible order routing may be useful with custom product, location, order, or customer attributes.

Customer, product, and location attributes can be used with the [Reserve Inventory in Cart feature](#). However, extensible order attributes are not supported for reserved inventory.

### Product Attributes

Using order routing to route products to a certain set of locations based on custom product attributes that you have defined may be useful in scenarios such as:

- Products that need warm weather packaging, based on a true/false attribute called "Perishable"
- Products that need two people to lift the package, based on a true/false attribute called "Two Person Lift Required"
- Products of a particular brand, based on a text attribute with options for "Brand"

### Location Attributes

Using order routing to route products to a certain set of locations based on custom location attributes that you have defined may be useful in scenarios such as:

- Not routing shipments to an area with a weather event, based on a true/false attribute called "Weather Events"
- Not routing shipments to locations where the capacity is less than 50%, based on a number attribute called "Capacity"

- Routing shipments to a location with the lowest cost of fulfillment, based on a number attribute called "Cost to Fulfill"
- Routing shipments to warehouses with a two-person forklift, based on a "Lifts" string attribute with options for one, two, or six person forklifts

## Order Attributes

Using order routing to route products to a certain set of locations based on custom order attributes that you have defined may be useful in scenarios such as:

- Routing orders with a BOPIS pickup time of 2:00 PM, based on a text attribute called "Pickup Time"

## Customer Attributes

Using order routing to route products to a certain set of locations based on custom customer attributes that you have defined may be useful in scenarios such as:

- Routing shipments specially for Platinum customers, based on a text attribute called "tier" with options of "Platinum," "Gold," or "Silver"

## Multiple Attributes

You can also route shipments based on a combination of attributes from the above topics. For instance, you could reference both product and location attributes in the following scenario:

- Perishable candy being routed to locations that offer insulated packaging, based on the true/false "Perishable" product attribute and the true/false "Insulated Packaging"

## Enable Attributes for Order Routing

You must make the attribute available to Order Routing in the attribute configurations in order to use the attribute in routing filter logic. For more information about creating and configuring attributes in general, see the following documentation:

- [Order Attributes](#)
- [Customer Attributes](#)
- [Product Property Attributes](#)
- [Location Attributes](#)

In the settings of each attribute type, locate and toggle on the **Available as Order Routing Filter** and click **Save**. The below example shows the option for a product attribute.



Attributes must include the "Property" type to be used in order routing. You can select more than one

attribute type, such as Property and Extra.

Extensible attributes are only supported for physical items (not digital or services).

Make sure that the attribute is not set to "Admin Only" in the display group.

Values

Add Value or Label:Value Insert at bottom ▾

Pos	Label	Value
1	Usually Ships in 24 Hours	24hrs
2	Usually Ships in 24 to 48 Hours	24-48hrs

Available as Order Routing Filter ⓘ

Search Options

Available to Storefront Search ⓘ

Search Label

Search Value

Available as Filter & Sort ⓘ

Index Value With Case ⓘ

This example shows the option for a location attribute:

### General

Administration Name \*

Capacity

Display Group \*

Admin & Storefront

Available as Order Routing Filter ⓘ

The example below shows the option for an order attribute.

### General

Administration Name \*

Pickup Time

Display Group

Admin & Storefront

Value Source

Admin or Shopper Entered

Code

testorderattri

Storefront Label \*

Abc

Options

Required

Editable ⓘ

Hidden from shopper ⓘ

Available as Order Routing Filter ⓘ

This example shows the option for a customer attribute:

Min char/val  
1

Max char.  
20

Input validation  
RegEx

Available as Order Routing Filter <sup>?</sup>



## Create Attribute Filters in Order Routing

Once enabled, you will be able to select the attribute in routing filters. When [configuring a filter](#), you will be able to define logic based on that attribute by selecting the filter type "Custom Value."

### New filter

FILTER NAME

FILTER TYPE

- Custom value
- Custom data list
- Custom data set
- Data point

FILTER ATTRIBUTE	
Location	+
Item	+
Order	+
Customer	+
Inventory	+

These sections can be expanded to display the out-of-the-box attributes as well as your custom attributes for each topic:

FILTER ATTRIBUTE

Location

---

Location Attributes +

---

Custom Location Attributes -

---

New

LocationAttribute1

Item +

---

Order +

---

Customer +

---

Inventory +

---

LocationAttribute1

LOGIC

=

≠

equal to      not equal to

“ If ..., attempt assignment. ”

Once logic has been selected for the attribute and the filter created, it will be displayed on the Filters page and can be added to any location groups.

**Perishable** ...

If the product perishable attribute is equal to "true", attempt assignment.  
Created on 12/20/2022

---

+ Add filter to group

✘ Kibo is aware of a bug in which filters are not updated after changing the value of a product or customer List Number attribute. A fix for this will be implemented in an upcoming release.