

# Suggestion Logs and Debug

The Suggestion Logs and Suggestion Debug pages of the Order Routing interface help you make calls with the [Order Routing REST APIs](#) to retrieve the record of logical decision made during routing and test your configurations.

## Suggestion Logs

The Suggestion Logs screen allows you to place a [Get Suggestion Log API request](#) via the interface. By using the [Candidate Suggestion](#) and [Routing Suggestion](#) calls, you can test your order routing configurations by retrieving the list of possible location candidates for a given order and Order Routing's analysis of the best assignment location.

With a Suggestion ID and Order ID, you can then retrieve the log of all logical decisions that Order Routing made to achieve that suggestion result.

### Suggestion Logs

Suggestion ID: ⓘ

Order Number:

External Response ID: ⓘ

Get log

## Suggestion Debug

The Suggestion Debug page allows further testing of the [Routing Suggestion logic based on specific item and inventory data](#). The page will then process the call and return a breakdown of the result, listing location candidates and the logical steps that were taken to determine the routing result.

### Suggestion Request Input

To begin configuring the call, you must start by identifying the items being routed. You can do this in one of two ways:

- Enter item information as table rows by providing identifying information and quantities, clicking **+** to add another row to the table. In this case, you must click **Generate JSON** after entering all item data. The page will then create the request body based on the items you provided.

- Click **Type in JSON Code** to manually write or copy/paste a request body in the text box.

#### Suggestion Debug

##### Suggestion Request Input

Quantity	Order Item ID	UPC	SKU	Part Number	Remove
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	



Type in JSON Code

Generate JSON


##### Suggestion Request

```
{
  "orderType": "DIRECTSHIP",
  "routeType": "CERTIFIED",
  "environmentID": null,
  "orderID": 27016111,
  "deliveryMethod": "SHIP_TO_HOME",
  "shipType": "REGULAR",
  "orderDate": 1511193241000,
  "orderState": null,
  "total": 12.2,
  "fraud": -1,
  "customData": {},
  "maxFulfillingLocations": 20,
  "maxSplitItemLocations": 1,
  "autoAssignLimit": 0,
  "tooManyAssignsAction": "CANCEL",
  "shippingAddress": {
    "addressID": 26094900,
    "customerID": 18282484,
    "addressLine1": "134 MAE-A",
    "phone": "352-215-8905",
    "city": "Dallas",
    "state": "TX",
    "postalCode": "75001",
    "countryCode": "US",
    "latitude": 29.6434,
    "longitude": -82.3496
  },
  "allowList": [],
  "exclusionList": [],
  "externalReferenceID": "27006100"
}
```

Next, you must configure the inventory information that Order Routing will calculate its suggestion based on. This can use either real inventory or mock data. Enable or disable the **Use Real Inventory** option depending on what you intend to use. If this option is enabled, then the text box for manually entering JSON will be disabled.

- If using real inventory, then you can simply insert desired locations for Order Routing to consider in the table and click **Generate JSON** as when configuring the item data. This does not perform any allocation, deallocate, or other inventory adjustment calls, only reads current inventory from your site.
- If using mock inventory, you must provide the full inventory data in the **Inventory Response** text box. This could be a copy/paste of a real [Get Inventory API](#) response with some fields adjusted for testing purposes. This gives you the flexibility to test Order Routing's suggestion logic in different scenarios without the need to modify actual inventory data.

### Inventory Response Input

Location Code	Location Name	Total Available	UPC	Country Code	Remove
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	



Generate JSON

### Inventory Response

☒ Use Real Inventory

Run Test

## Evaluating the Request

When the suggestion request and inventory data are configured, click Run Test. The page will validate the JSON and if there are no errors, it will process the request and display the results in a series of sections that appear at the bottom of the page.

The first information displayed is either the suggested assignment location(s) or a state change, such as if it was moved to Customer Care due to failover actions (shown below). After this initial result report, the suggestion log is displayed as a breakdown of data points and JSON requests starting with the initial request information.

State Changes

Item	State Change	Quantity
53884358	CUSTOMER_CARE	1

Suggestion Log

Tenant ID	28854
Site ID	47137
Environment ID	1
Created at	1631048667498
Created by	
Updated at	1631048667498
Updated by	
Suggestion ID	10671155
Order ID	27016111
External response ID	27006100
Receive request	<pre>{   "items": [     {       "orderItemID": 53884358,       "quantity": 1,       "upc": "UPC494"     }   ],   "orderType": "DIRECTSHIP",   "environmentID": 1,   "shippingAddress": {     "addressID": 26094900,     "customerID": 18282484,     "addressLine1": "134 MAE-A",     "phone": "352-215-8905",     "city": "Dallas",     "state": "TX",     "postalCode": "75001",     "countryCode": "US",     "latitude": 29.6434,     "longitude": -96.98366   } }</pre>

After that initial data, each section describes the logical decisions that Order Routing made as well as listing any relevant failover after-actions. It begins with selecting a routing strategy for the items.

Select route	<table><tr><td>Route ID</td><td>259</td></tr><tr><td>Order type</td><td>Direct Ship</td></tr><tr><td>Active?</td><td>true</td></tr><tr><td>Scenarios</td><td><pre>{   groupID: 760   name: All Warehouses   rank: 1   isDefaultGroup: false   useRetailerExclusionList: true   afterActionPartial: GroupAfterAction   (     actionID: 925     name: null     failoverAction: QUANTITY_SPLIT_ASSIGN_CUSTOMER_CARE_WITHOUT_INVENTORY     restartAttempt: START_AT_BEGINNING   )   afterActionNone: GroupAfterAction   (     actionID: 924     name: null     failoverAction: ASSIGN_TO_CUSTOMER_CARE     restartAttempt: null   )   description:   active: true   fulfillmentLimit: null }</pre></td></tr></table>	Route ID	259	Order type	Direct Ship	Active?	true	Scenarios	<pre>{   groupID: 760   name: All Warehouses   rank: 1   isDefaultGroup: false   useRetailerExclusionList: true   afterActionPartial: GroupAfterAction   (     actionID: 925     name: null     failoverAction: QUANTITY_SPLIT_ASSIGN_CUSTOMER_CARE_WITHOUT_INVENTORY     restartAttempt: START_AT_BEGINNING   )   afterActionNone: GroupAfterAction   (     actionID: 924     name: null     failoverAction: ASSIGN_TO_CUSTOMER_CARE     restartAttempt: null   )   description:   active: true   fulfillmentLimit: null }</pre>
Route ID	259								
Order type	Direct Ship								
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Next, it selects a scenario that it will try to assign the items within.

Select scenario	Scenario name	All Warehouses
	Scenario ID	760
	Scenario detail	<pre>{   groupId: 760   name: All Warehouses   rank: 1   isDefaultGroup: false   useRetailerExclusionList: true   afterActionPartial: GroupAfterAction   (     actionID: 925     name: null     falloverAction: QUANTITY_SPLIT_ASSIGN_CUSTOMER_CARE_WITHOUT_INVENTORY     restartAttempt: START_AT_BEGINNING   )   afterActionNone: GroupAfterAction   (     actionID: 924     name: null     falloverAction: ASSIGN_TO_CUSTOMER_CARE     restartAttempt: null   )   description:   active: true   fulfillmentLimit: null }</pre>

The locations in the selected scenario are then sorted based on the sort settings configured in Order Routing. However, note that this example only contains one location for testing purposes so it does not reflect how a longer list would be sorted.

Sort locations in scenario	Scenario name	All Warehouses
	Scenario ID	760
	Sort by	[ ]
	Input locations	[ "WH1" ]
	Output locations	[ "WH1" ]

After analyzing those locations, any after-actions that had to be taken due to inability to route the items are reported. This example took the ASSIGN\_TO\_CUSTOMER\_CARE action, hence the Customer Care state change reported in the first section.

After action	Action name	undefined
	Action ID	924
	Failover action	ASSIGN_TO_CUSTOMER_CARE
	Restart attempt	undefined
	Input scenarios	<pre>{   groupID: 760   name: All Warehouses   rank: 1   isDefaultGroup: false   useRetailerExclusionList: true   afterActionPartial: GroupAfterAction   (     actionID: 925     name: null     failoverAction: QUANTITY_SPLIT_ASSIGN_CUSTOMER_CARE_WITHOUT_INVENTORY     restartAttempt: START_AT_BEGINNING   )   afterActionNone: GroupAfterAction   (     actionID: 924     name: null     failoverAction: ASSIGN_TO_CUSTOMER_CARE     restartAttempt: null   )   description:   active: true   fulfillmentLimit: null }</pre>
	Retry scenarios	
	Location candidates	{}
	Suggestion	<pre>{   "assignmentSuggestions": {},   "stateChangeSuggestions": {     "53884358": {       "orderItemID": 53884358,       "stateChange": "CUSTOMER_CARE",       "quantity": 1     }   },   "availableLocations": [],   "responseID": null,   "externalResponseID": null,   "suggestionLog": null }</pre>

The results will then conclude with a copy of the summarized response returned from the API, the inventory data response, and the suggestion log in standard JSON format (which can be expanded and hidden with the +/- icon).

Response	<pre>{   "assignmentSuggestions": {},   "stateChangeSuggestions": {     "53884358": {       "orderItemID": 53884358,       "stateChange": "CUSTOMER_CARE",       "quantity": 1     }   },   "availableLocations": [],   "externalResponseID": "27006100" }</pre>	
Get Inventory	Response time (ms)	113
	Request	<pre>{   "type": "ANY",   "items": [     {       "upc": "UPC494",       "quantity": 1     }   ],   "requestLocation": {     "unit": "MILES",     "postalCode": "75001",     "countryCode": "US"   },   "limit": 1000,   "locationWhitelist": [     "WH2",     "WH1",     "WH4",     "WH3",     "WH6",     "WH5"   ],   "ignoreSafetyStock": false,   "directShip": true,   "excludeBlockedAssignment": true,   "includeAttributes": false,   "tags": {} }</pre>

Json suggestion log

