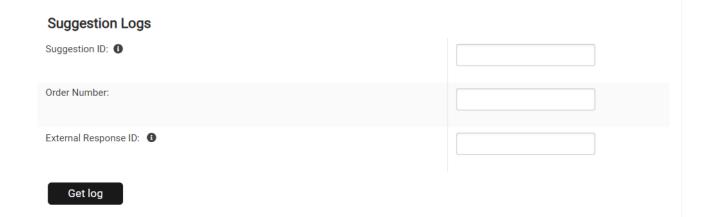
Suggestion Logs and Debug

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 Debug

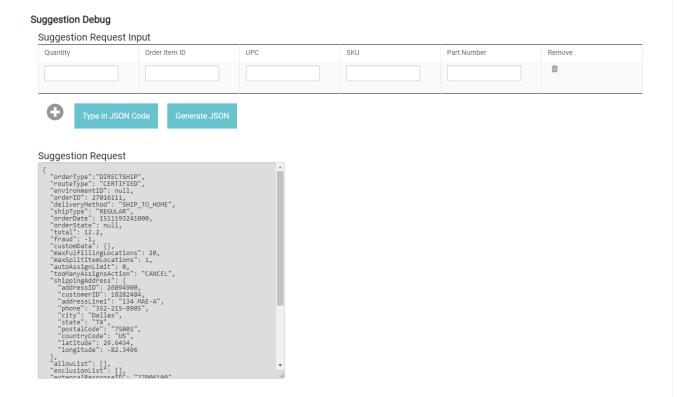
The Suggestion Debug page allows further testing of the Routing Suggestion logic based on specific item and inventory data. The page will then process the call and return a breakdown of the result, listing location candidates and the logical steps that were taken to determine the routing result.

Suggestion Request Input

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

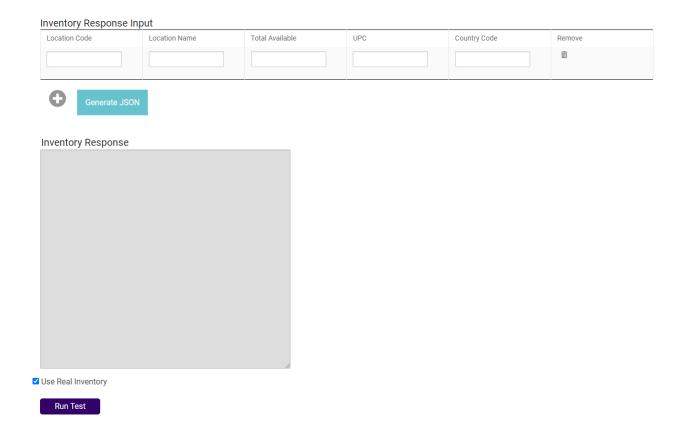
Enter item information as table rows by providing identifying information and quantities,
 clicking + to add another row to the table. In this case, you must click Generate JSON after
 entering all item data. The page will then create the request body based on the items you provided.

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



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.

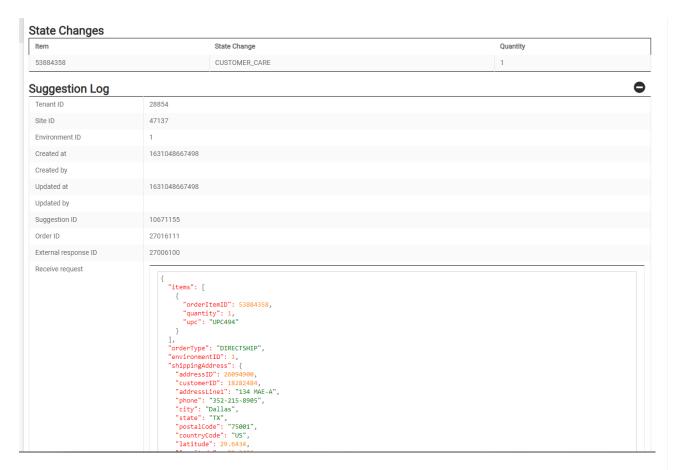
- If using real inventory, then you can simply insert desired locations for Order Routing to
 consider in the table and click **Generate JSON** as when configuring the item data. This does
 not perform any allocation, deallocate, or other inventory adjustment calls, only reads current
 inventory from 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.



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.



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
                                         Route ID
                                                              Direct Ship
                                         Active?
                                                              true
                                        Scenarios
                                                                  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
                                                                     {\tt restartAttempt: START\_AT\_BEGINNING}
                                                                   afterActionNone: GroupAfterAction
                                                                     actionID: 924
                                                                     name: null
                                                                     failoverAction: ASSIGN_TO_CUSTOMER_CARE
                                                                     restartAttempt: null
                                                                  description:
                                                                  fulfillmentLimit: null
```

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
                                                             groupID: 760
name: All Warehouses
                                                             isDefaultGroup: false
useRetailerExclusionList: true
                                                             afterActionPartial: GroupAfterAction
                                                               actionID: 925
                                                               name: null
                                                               {\tt 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:
                                                             fulfillmentLimit: null
```

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.



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
                                                                                        ASSIGN_TO_CUSTOMER_CARE
                                                Failover action
                                                Restart attempt
                                                Input scenarios
                                                                                             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
                                                Retry scenarios
                                                Location candidates
                                                Suggestion
                                                                                            "assignmentSuggestions": {},
"stateChangeSuggestions": {
   "53884358": {
    "orderItemID": 53884358,
   "stateChange": "CUSTOMER_CARE",
   "quantity": 1
                                                                                             },
"availableLocations": [],
                                                                                             "responseID": null,
"externalResponseID": null,
                                                                                              "suggestionLog": null
```

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
                                                                                         "assignmentSuggestions": {},
"stateChangeSuggestions": {
    "53884358": {
        "orderItemID": 53884358,
        "stateChange": "CUSTOMER_CARE",
        "quantity": 1
                                                                                             }
                                                                                        },
"availableLocations": [],
"externalResponseID": "27006100"
Get inventory
                                                                                Response time (ms)
                                                                                                                                                                                            113
                                                                                Request
                                                                                                                                                                                            ],
"requestLocation": {
"unit": "MILES",
"postalCode": "75001",
"countryCode": "US"
                                                                                                                                                                                                   "countryCode": "US"
},
"limit": 1000,
"locationWhitelist": [
"WH2",
"WH1",
"WH4",
"WH4",
"WH6",
"WH5"
],
                                                                                                                                                                                                   "WHO"
],
"ignoreSafetyStock": false,
"directShip": true,
"excludeBlockedAssignment": true,
"includeAttributes": false,
"tags": {}
                                                                                                                                                                                                                                                                                                                                       0
```

Json suggestion log