

# Get Routing Candidates



## Warning

This documentation is for translated APIs and intended only for some implementations who have upgraded from a previous version of Order Management. Verify whether your implementation uses translated APIs before making this call, as you will experience errors if your tenant is not configured to use these. If your implementation is not configured to do so, then refer to the [standard API documentation](#) instead.

The Candidates API is a reference used to filter fulfillment locations based on inventory and order routing rules. Rather than determine exactly where the order would be routed to if it were fulfilled immediately, the API returns a list of all eligible locations (candidates). The call works for all routing types and supports both partial and full cases in which locations have inventory. It is particularly useful with STH orders in order to calculate the estimated arrival time of a shipment.

In the case of clients using inventory replenishment, STST (or TISPU) orders routed through OMS must generate transfer orders properly based on managed inventory replenishment relationships. Calling this Candidates API will provide locations with products in quantities replenishable to the requested location.

Note that this call is made to the order routing application. Contact Kibo if assistance is needed with authentication keys or accessing this API.

<b>Version</b>	<b>2.0</b>
Production URL	<a href="https://{tenantId}-translation.mozu.com/api/v1/routing/candidates">https://{tenantId}-translation.mozu.com/api/v1/routing/candidates</a>
Sandbox URL	<a href="https://{tenantId}-translation.mozu.com/api/v1/routing/candidates">https://{tenantId}-translation.mozu.com/api/v1/routing/candidates</a>
Supported Formats	JSON
HTTP Method	POST
Schema	<a href="https://integration.shopatron.com/api/v1/routing/candidates.json">https://integration.shopatron.com/api/v1/routing/candidates.json</a>

## Example

The example case searches for candidates that apply to an order with the following properties:

- STH order set to be picked up at Location ID 010101
- Fulfilled by Manufacturer 00000 and Retailer 11111

This guide will demonstrate how to put together each section of the request to retrieve candidates.

## Required Parameters

The following are required for all instances of this call.

Parameter	Type	Description
manufacturerID	integer	A unique identifier for the manufacturer.
fulfillerID	integer	A unique identifier for the fulfiller.
catalogID	integer	The catalog number for the manufacturer.
productIdentifierMapping	enum	The part number, UPC, and/or SKU configuration used to identify the product ("PART_NUMBER_ONLY", "UPC_ONLY", "SKU_ONLY", "PART_NUMBER_AND_UPC", "PART_NUMBER_AND_SKU", "UPC_AND_SKU", or "PART_NUMBER_AND_UPC_AND_SKU").
routeType	enum	The fulfillment type that the order has been assigned to ("STH", "CERTIFIED", "EXPRESS", "PREORDER", "WFA", "STSA", or "TRANSFER").
items	object	The items included in the order.

The items object is made up of the following parameters:

Parameter	Type	Description
partNumber	string	The part number for the product, an identifier unique to the manufacturer.
UPC	string	The Universal Product Code for this product.
SKU	string	The Stock Keeping Unit code for this product.
quantity	integer	The number of items in the order.
customItemData	object	Custom information provided for the order (e.g. a map of key-value pairs). Value entries may contain integers, decimals, booleans, or strings.

## Optional Parameters

Other possible parameters can be provided to specify other details about the route. These variables are:

Parameter	Type	Description
inventoryRequestType	string	Allows the returned locations to be filtered based on inventory levels (ALL, PARTIAL, ANY, ALL_STORES). See below for more details.
pickupLocationID	integer	The unique identifier for the location where the order will be picked up.

pickupExternalStoreID	string	An external identifier for the location where the order will be picked up.
shippingAddress	object	The street address that the order will be shipped to.

The effects of the inventoryRequestType values are:

Value	Description
ALL	Returns locations that have the full quantity available for all of the products in the request.
PARTIAL	Returns locations that have the full quantity available for at least one of the products in the request.
ANY	Returns locations that have any quantity available for any of the products in the request.
ALL_STORES	Returns all stores that are part of the location network and their inventory levels, even if they have no current inventory available for a product in the request.

The pickupLocationID refers to the pickup location's identifier within OMS, while the pickupExternalStoreID is used in eCommerce-OMS integrations to specify a location with eCommerce. If both are provided for the call and they do not match, then priority is placed on the pickupLocationID. The request is made using the OMS identifier as the reference location.

The shippingAddress object is made up of the following parameters:

Parameter	Type	Description
addressLine1	string	The first line of the street address.
city	string	The city that the street address is located in.
countryCode	string	The code indicating the country that the address is location in (e.g. US, AD, etc.).
phone	string	The phone number of the location.
postalCode	string	The postal code or zip code of the address.
state	string	The state that the street address is located in (e.g. TX, CO).
latitude	decimal	The latitudinal value of the location.
longitude	decimal	The longitudinal value of the location.

## The Full Request

This is the entire request that will retrieve routing candidates.

```

{
  "manufacturerID":00000,
  "fulfillerID":11111,
  "catalogID":0,
  "productIdentifierMapping":"PART_NUMBER_ONLY",
  "pickupLocationID":010101,
  "routeType":"STH",
  "shippingAddress":{
    "addressLine1":"123 Main St.",
    "city":"Dallas",
    "countryCode":"US",
    "phone":"0001111234",
    "postalCode":"95448",
    "state":"TX",
    "latitude":32.7791,
    "longitude":-97.0404
  },
  "items":[
    {
      "partNumber":"TestItem",
      "upc":"TestItem",
      "sku":"TestItem",
      "quantity":1,
      "customItemData":{
        "customDataKey1":100,
        "customDataKey2":"customString",
        "customDataKey3":true
      }
    }
  ]
}

```

## The Full Response

This response is the collection of locations that the order could potentially be routed to, based on inventory and routing rules. No action will be taken as a result of this call, as it merely a reference list. This example has two candidates.

```

{
  "candidateSuggestions": [
    {
      "locationID": 22222,
      "externalStoreID": "120021",
      "locationName": "22222",
      "addressLine1": "200 Test Drive",
      "addressLine2": null,
      "addressLine3": null,
      "city": "Dallas",
      "state": "TX",
      "countryCode": "US",
      "postalCode": "75201",
      "phone": null,
      "distance": "408.33899379799998996531940065324306488037109375 mi",
      "latitude": null,
      "longitude": null,
      "localSalesTax": null,
      "express": true,
      "pickupEnabled": false
    }
  ]
}

```

```
    pickupEnabled: false,
    "restockEnabled": false,
    "shippingLocation": true,
    "taxableLocation": null,
    "inventory": [
      {
        "partNumber": "LoadTestingPart1",
        "available": 99996,
        "sku": "LoadTestingPart1",
        "upc": "LoadTestingPart1"
      }
    ]
  },
  {
    "locationID": 33333,
    "externalStoreID": "210012",
    "locationName": "33333",
    "addressLine1": "111 Example Rd",
    "addressLine2": null,
    "addressLine3": null,
    "city": "Dallas",
    "state": "TX",
    "countryCode": "CA",
    "postalCode": "75201",
    "phone": null,
    "distance": "457.7500223600000026635825634002685546875 mi",
    "latitude": null,
    "longitude": null,
    "localSalesTax": null,
    "express": true,
    "pickupEnabled": false,
    "restockEnabled": false,
    "shippingLocation": true,
    "taxableLocation": null,
    "inventory": [
      {
        "partNumber": "LoadTestingPart1",
        "available": 99992,
        "sku": "LoadTestingPart1",
        "upc": "LoadTestingPart1"
      }
    ]
  }
]
```