

Inventory Inquiry



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.

This API allows the user to request the inventory information of an item or items that belong to a particular manufacturer. Note that this is a POST call instead of a GET as may be expected – in this inquiry, additional information is required in a request body to specify the inventory being retrieved.

Note that there are two endpoints that may be used. Each endpoint is associated with a different API key related to a package – either an “Inventory V5” or “Inventory Specific” package. The Inventory Specific package is the preferred endpoint to use, but some implementations may use Inventory V5 depending on their configuration.

In either case, the request body and parameter schemas outlined in this guide are the exact same [as in the previous version of OMS](#), as the Unified Commerce platform supports backwards compatibility for this API. The only change to this request is the format of the base endpoints, as shown in the below table. Remember to provide the *x-vol-tenant* key for authentication in the headers.

V5 Production URL	<code>https://{tenantId}-translation.mozu.com/api/v5/inventory</code>
V5 Sandbox URL	<code>https://{tenantId}-translation.sandbox.mozu.com/api/v5/inventory</code>
Inventory Specific Production URL	<code>https://{tenantId}-translation.mozu.com/inv/api/v5/inventory/</code>
Inventory Specific Sandbox URL	<code>https://{tenantId}-translation.sandbox.mozu.com/inv/api/v5/inventory/</code>
Supported Formats	JSON
HTTP Method	POST

Example

The example case will inquire about an inventory with the following properties:

- Inventory of item “testsku120”
- At any location of manufacturer 00000 within 100 miles of Postal Code 11111

Required Parameters

These parameters are necessary for the Inventory API to return a successful response:

Parameter	Type	Description
fulfillerID	integer	A unique identifier for a fulfiller. The minimum value is “0”.
manufacturerID	integer	A unique identifier for a manufacturer. The minimum value is “100”.
type	enum	The inventory request type (ALL, PARTIAL, ANY, ALL_STORES). See below for more details.
items	array	List of items to search on. The minimum length is 1. See below for more details.

The type enum values are defined as:

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.

Each entry in the items array is an object that requires a quantity and any one of the other parameters in the table below:

Parameter	Type	Description
partNumber	string	The product part number. The minimum length is 1.
upc	string	The product’s Universal Product Code. The minimum length is 1.
sku	string	The product’s Stock Keeping Unit code. The minimum length is 1.
quantity	integer	The quantity of the product. The minimum value is “0”.

Optional Parameters

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

Parameter	Type	Description
catalogID	integer	A unique identifier for the catalog. The minimum value is “0”.
requestLocation	object	The specific location that is being requested. See below for more details.

limit	integer	The maximum number of results to return, defaults to 100 for most. The minimum value is "0".
locationWhitelist	array	List of numeric location identifiers that are allowed to be included in results.
locationBlacklist	array	List of numeric location identifiers that are NOT allowed to be included in results. This works like rejectedLocations.
locationWhitelistExternalIDs	array	List of external location identifiers that are allowed to be included in results.
locationBlacklistExternalIDs	array	List of external location identifiers that are NOT allowed to be included in results.
locationPriorityList	array	List of numeric location identifiers that should be returned before all others, preventing them from being excluded by limit. These identifiers should be Integers.
ignoreSafetyStock	boolean	Whether to ignore the safety stock buffer put in place. The default is "false".
includeNegativeInventory	boolean	Whether to allow items with negative inventory in the results. The default is "false".
shippingLocation	boolean	Whether to limit results to locations that are shipping enabled.
taxableLocation	boolean	Filter results by locations that apply tax (true) or don't (false).
restockEnabled	boolean	Filter results by locations that are restock-enabled (true) or not (false).
pickupEnabled	boolean	Filter results by locations that are pickup-enabled (true) or not (false).
finderbotEnabled	boolean	Filter results by locations that have finderbot enabled (true) or don't (false).
aggregateExportEnabled	boolean	Filter results by locations that have aggregate export enabled (true) or don't (false).
hasStorefront	boolean	Filter results by locations that have physical storefronts (true) or don't (false).

The requestLocation details is an object that includes the following parameters to identify a single location that the inventory search should be made within range of. The longitude, latitude, or postal code are required.

Parameter	Type	Description
longitude	number	The longitude coordinate of this location.
latitude	number	The latitude coordinate of this location.
postalCode	string	The postal code of this location.
radius	number	The distance from the location. The minimum value is "0".
unit	enum	The unit of distance used for the radius ("MILES" or "KM"). The default is "MILES".
countryCode	string	The country code for this location.

The Full Request

This is the entire request that will inquire about an inventory item from a particular manufacturer, within a particular postal code range.

```
{
  "manufacturerID": "00000",
  "fulfillerID": "010101",
  "includeNegativeInventory": true,
  "type": "ANY",
  "requestLocation": {
    "postalCode": "11111",
    "radius": 100,
    "unit": "MILES",
    "countryCode": "US"
  },
  "items": [
    {
      "partNumber": "testsku120",
      "quantity": 1
    }
  ]
}
```

The Full Response

This is the entire response of the inquiry. It returns with order data grouped by location. In this case there is only one location with inventory of this product, so there is only one block of data. If applicable, this response will also return the inventoryLocatorName (a parameter provided via the Refresh and Adjust APIs) to indicate where the inventory item can be found at the location.

If the particular configuration of OMS makes use of inventory attributes, those would be returned in this response as an array of strings. These attributes are cached in an inventory map with no expiration, so they can be retrieved as necessary for cases such as inventory replenishment.

```
[
  {
    "locationName": "1",
    "locationID": 111111,
    "manufacturerID": 00000,
    "onHand": 101,
    "available": 94,
    "partNumber": "testsku120"
    "sku": "testsku120",
    "ltd": 0,
    "floor": 0,
    "safetyStock": 0,
    "distance": 0,
    "shippingLocation": true,
    "restockEnabled": false,
    "pickupEnabled": true,
    "countryCode": "US",
    "finderbotEnabled": false,
    "hasStorefront": false,
  }
]
```