### ## Introduction

There are many business use cases which require a minimum or maximum order quantity to be set for certain products, including economic order quantity and inventory management. This guide will explain how to set a minimum and/or maximum order quantity for a specific product.

## Prerequisites

* [Create and Assign a Product](https://documentation.ordercloud.io/use-case-guides/product-catalog-management/create-and-assign-a-product)

## Understanding MaxQuantity and MinQuantity

On the OrderCloud.io platform, minimum and maximum order quantities are controlled within a product’s Price Schedule. A `MaxQuantity` can be set directly, whereas a `MinQuantity` will be derived from a Price Schedule’s Price Breaks.

Since Price Schedules are the connection between a Product and the party(via Product Assignment), different minimum/maximum quantities can be assigned to different parties (like User Groups, Organizations) by creating multiple Price Schedules and assigning them accordingly.

In OrderCloud.io, you have two options when it comes to setting Minimum and Maximum Order Quantities: Restricted Quantity Price Schedule or an Open Quantity Price Schedule. We’ll walk through both of these in this guide.

## ## 1. Creating a Restricted Quantity Price Schedule

One way to limit a user to both a minimum and maximum quantity value is to use a Restricted Quantity Price Schedule. In this model, the user is restricted to ordering a product at preconfigured quantity intervals (Price Breaks) set within the Price Schedule assigned to them.

Within a user facing application, this type of Price Schedule model typically calls for a select/dropdown quantity control, rather than an open text field.

<div class="api-reference">API Reference: [Create New Price Schedule](https://documentation.ordercloud.io/api-reference#PriceSchedules\_Create)</div>

```

POST https://api.ordercloud.io/v1/priceschedules HTTP/1.1  
Authentication: Bearer put\_access\_token\_here  
Content-Type: application/json  
  
{  
 "ID": "PriceScheduleID123",  
 "Name": "Restricted Price Schedule X",  
 "MaxQuantity": 100,  
 "UseCumulativeQuantity": false,  
  
 "PriceBreaks": [  
 {  
 "Quantity": 25,  
 "Price": 10.0  
 },  
 {  
 "Quantity": 50,  
 "Price": 10.0  
 },  
 {  
 "Quantity": 75,  
 "Price": 10.0  
 },  
 {  
 "Quantity": 100,  
 "Price": 10.0  
 }  
 ],  
 "xp": null  
}

```

## ## 2. Creating an Open Quantity Price Schedule with MaxQuantity and (derived) MinQuantity

Rather than restricting the user to predefined quantity intervals, an Open Quantity Price Schedule can be used instead. However, minimum and maximum quantities can still be enforced within this model.

Set the `MaxQuantity` value on the Price Schedule in order to set a maximum quantity for a particular product:

<div class="api-reference">API Reference: [Create New Price Schedule](https://documentation.ordercloud.io/api-reference#PriceSchedules\_Create)</div>

```

POST https://api.ordercloud.io/v1/priceschedules HTTP/1.1  
Authentication: Bearer put\_access\_token\_here  
Content-Type: application/json

{

"ID": "PriceScheduleID123",

"Name": "Maximum Quantity Price Schedule X",

"MaxQuantity": 100,

"UseCumulativeQuantity": false,

,

"PriceBreaks": [

{

"Quantity": 1,

"Price": 10.0

}

],

"xp": null

}

```

Set the Quantity of the first Price Break to your desired minimum quantity. In order to set a minimum quantity for a particular product, simply:

```

POST https://api.ordercloud.io/v1/priceschedules HTTP/1.1  
Authentication: Bearer put\_access\_token\_here  
Content-Type: application/json

{  
 "ID": "PriceScheduleID123",  
 "Name": "Minimum Quantity Price Schedule X",  
 "MaxQuantity": null,  
 "UseCumulativeQuantity": false,  
   
 "PriceBreaks": [  
 {  
 "Quantity": 50,  
 "Price": 10.0  
 }  
 ],  
 "xp": null  
}

```

These methods can be combined within the same price schedule in order to restrict the user to ordering within the range derived from your minimum and maximum quantity values.

<div class="note">When restricting the user to a certain quantity range, it is recommended to keep the experience as user friendly as possible. Displaying the minimum and/or maximum quantity when ordering and disabling any “Add to Order” controls until a valid quantity is met are effective ways to ensure this.</div>

## 3. Using UseCumulativeQuantity to Enforce Maximum Order Quantity Across an Entire Order’s Line Items

By default, minimum and maximum quantities take effect at the Line Item level, meaning the user is restricted to a particular quantity range per Line Item. However, UseCumulativeQuantity can be set on the Price Schedule in order to limit the user to specific quantities across the entire order.

Set UseCumulativeQuantity to true when creating or updating a Price Schedule in order to enforce a maximum order quantity for a product across the sum of an entire order’s line items.

## Conclusion

Congratulations! You should know have enough information to set minimum and maximum quantities on priceschedules with fixed and open quantities You should also know be able to set Min/Max across an entire order.