



SOLUTIONS ARCHITECT

Managing Inventory

Liferay
 **Commerce**

Managing Inventory

Learning Objectives

- Understand the inventory management options available within Liferay Commerce
- Learn how to manage inventory across multiple warehouses

Tasks to Accomplish

- Create a new warehouse
- Add inventory for several products to the new warehouse
- Enable low stock actions for several products

Exercise Prerequisites

- Java JDK installed to run Liferay
 - Download here: <https://www.oracle.com/technetwork/java/javase/downloads/jdk11-downloads-5066655.html>
 - Instructions on installation here: https://www.java.com/en/download/help/download_options.xml
- Unzipped module exercise files in the following folder structure:
 - Windows: `C:\liferay`
 - Unix Systems: `[user-home]/liferay`
- A Liferay DXP or CE 7.2 instance up and running with Commerce 2.1 installed
- A Site created using the Minium accelerator

Table of Contents

- [Manage Store Inventory](#)
- [Managing Inventory Quiz](#)
- [Answer Key](#)

Manage Store Inventory

Exercise Goals

- Add a new Warehouse to the Minium platform
- Add inventory for several products to the new Warehouse
- Enable low stock actions for select Minium products

Add the US West Coast Warehouse

1. **Go to** *Control Panel > Commerce > Settings*.
2. **Click** the *Warehouses* tab.
3. **Click** *Add*.
4. **Type** `US West Coast` for the Name.
5. **Click** the slider under *Active*.
6. **Click** to open the Channels section.
7. **Check** the box next to *Minium Automotive Portal*.
8. **Click** to open the Geolocation section.
9. **Type** `33.998` in the *Latitude* field.
10. **Type** `-117.811` in the *Longitude* field.
11. **Click** *Save*.



Settings

Name

US West Coast

Description

Active



YES

Channels



Address



Geolocation



Latitude

33.998

Longitude

-117.811

Add Inventory for MIN00673 to the US West Coast Warehouse

1. **Go to** *Control Panel > Commerce > Inventory*.
2. **Click** *MIN00673*.
3. **Click** the *Add* icon.
4. **Choose** *Add Inventory* from the drop-down menu.
5. **Type** *150* for *Quantity*.
6. **Choose** *US West Coast* for *Warehouse*.
7. **Click** *Submit*.

Inventory

MIN00673

Cancel

Overview

On Order

Incoming

Changelog

Inventory by Warehouse

| Warehouse | On Hand | Safety stock | Available | Incoming | |
|---------------------------|---------|--------------|-----------|----------|-------------|
| United States - Southwest | 100 | 0 | 100 | 0 | <div></div> |
| United States - Northeast | 40 | 0 | 40 | 0 | <div></div> |
| Italy | 40 | 0 | 40 | 0 | <div></div> |
| US West Coast | 150 | 0 | 150 | 0 | <div></div> |

10 items

Showing 1 to 4 of 4

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1

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Add Inventory for MIN00674 to the US West Coast Warehouse

- 1. Go to *Control Panel > Commerce > Inventory*.
- 2. Click *MIN00674*.
- 3. Click the *Add* icon.
- 4. Choose *Add Inventory* from the drop-down menu.
- 5. Type 120 for *Quantity*.
- 6. Choose *US West Coast* for *Warehouse*.
- 7. Click *Submit*.

Inventory

MIN00674

Cancel

Overview

On Order

Incoming

Changelog

Inventory by Warehouse

| Warehouse | On Hand | Safety stock | Available | Incoming | |
|---------------------------|---------|--------------|-----------|----------|-------------|
| United States - Southwest | 60 | 0 | 60 | 0 | <div></div> |
| United States - Northeast | 100 | 0 | 100 | 0 | <div></div> |
| Italy | 20 | 0 | 20 | 0 | <div></div> |
| US West Coast | 120 | 0 | 120 | 0 | <div></div> |

10 items

Showing 1 to 4 of 4

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Add Inventory for MIN00675 to the US West Coast Warehouse

1. Go to *Control Panel > Commerce > Inventory*.
2. Click *MIN00675*.
3. Click the *Add* icon.
4. Choose *Add Inventory* from the drop-down menu.
5. Type 100 for *Quantity*.
6. Choose *US West Coast* for *Warehouse*.
7. Click *Submit*.

Inventory

MIN00675

Cancel

Overview

On Order

Incoming

Changelog

Inventory by Warehouse

+

| Warehouse | On Hand | Safety stock | Available | Incoming | |
|---------------------------|---------|--------------|-----------|----------|---|
| United States - Southwest | 40 | 0 | 40 | 0 | ⋮ |
| United States - Northeast | 100 | 0 | 100 | 0 | ⋮ |
| Italy | 100 | 0 | 100 | 0 | ⋮ |
| US West Coast | 100 | 0 | 100 | 0 | ⋮ |

10 items

Showing 1 to 4 of 4

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Enable a Low Stock Action for Bearings

1. **Go to** *Control Panel > Commerce > Products*.
2. **Type** *bearings* in the *Search* box.
3. **Click** *Bearings*.
4. **Click** the *Configuration* tab.
5. **Click** the blank field under *Low Stock Action*.
6. **Choose** *Set as Unpublished*.
7. **Click** *Publish*.

Products ?

Bearings

ID: 39776 ?

ERC: MIN00673 ?

Edit

CancelSave as DraftPublish

DetailsOptionsSKUsMediaProduct RelationsSubscriptionVisibilityConfiguration

Tax Category

Tax CategoryNormal Product

Tax ExemptNO

Inventory

Inventory EngineDefault

Low Stock ActionSet as Unpublished

Availability Estimate3-5 days

Low Stock Threshold5

Display AvailabilityYES

Display Stock QuantityYES

Allow Back OrdersYES

Shipping

ShippableYES

Free ShippingNO

Ship SeparatelyNO

Shipping Extra Price0.0USD

Width10.0inches

Height1.0inches

Depth

Enable a Low Stock Action for Engine Mount

1. Go to *Control Panel > Commerce > Products*.
2. Type *engine* in the *Search* box.
3. Click *Engine Mount*.
4. Click the *Configuration* tab.
5. Click the blank field under *Low Stock Action*.
6. Choose *Set as Unpublished*.
7. Click *Publish*.

Products ?

Engine Mount

ID: 39812 ?
ERC: MIN00675 ? [Edit](#)

APPROVED

Cancel
Save as Draft
Publish

Details
Options
SKUs
Media
Product Relations
Subscription
Visibility
Configuration

Tax Category

Tax Category

Normal Product

Tax Exempt

☐ NO

Inventory

Inventory Engine

Default

Low Stock Action

Set as Unpublished

Availability Estimate

5-7 days

Low Stock Threshold

5

Shipping

Shippable

☒ YES

Free Shipping

☐ NO

Ship Separately

☐ NO

Shipping Extra Price

0.0

USD

Width

2.0

inches

Height

Bonus Exercises

1. Add 50 units of inventory to the US West Coast warehouse for all products related to braking systems (i.e. brake fluid, brake pads, etc.). Add a low-stock action to hide the products when inventory falls below 15 units.
2. Create an Availability Estimate of 10 – 12 days and apply it to the Engine Mount. Change the inventory for the Engine Mount to zero and ensure that it is no longer available to purchase within the Minium store.

Managing Inventory Quiz

1. Which of the following is *not* an out-of-the-box feature of inventory management within Liferay Commerce?
 - A. Warehouses
 - B. Availability Estimates
 - C. In Stock Notifications
 - D. Low Stock Actions
2. A business wishes to inform customers that a particular product is currently out-of-stock. What is the simplest way to accomplish this?
 - A. Create a custom Low Stock Action to notify customers when viewing the product in the storefront
 - B. Enable an Availability Estimate for the product
 - C. Use Channel filtering to remove the product from the store
 - D. Send a notification to customers trying to add the product to their cart
3. Changing stock information within a product entry will transfer those changes to the inventory management system.
 - A. True
 - B. False
4. Which of the following statements is *not* true about Low Stock Actions?
 - A. They are enabled within product entries
 - B. They are an extension point for Liferay Commerce
 - C. They are designed to trigger automatically
 - D. Out-of-the-box Liferay Commerce has two available
5. A Warehouse cannot be created without first being associated with a particular Channel.
 - A. True
 - B. False

Answer Key

1. C
2. B
3. True
4. D
5. False