

Inventory

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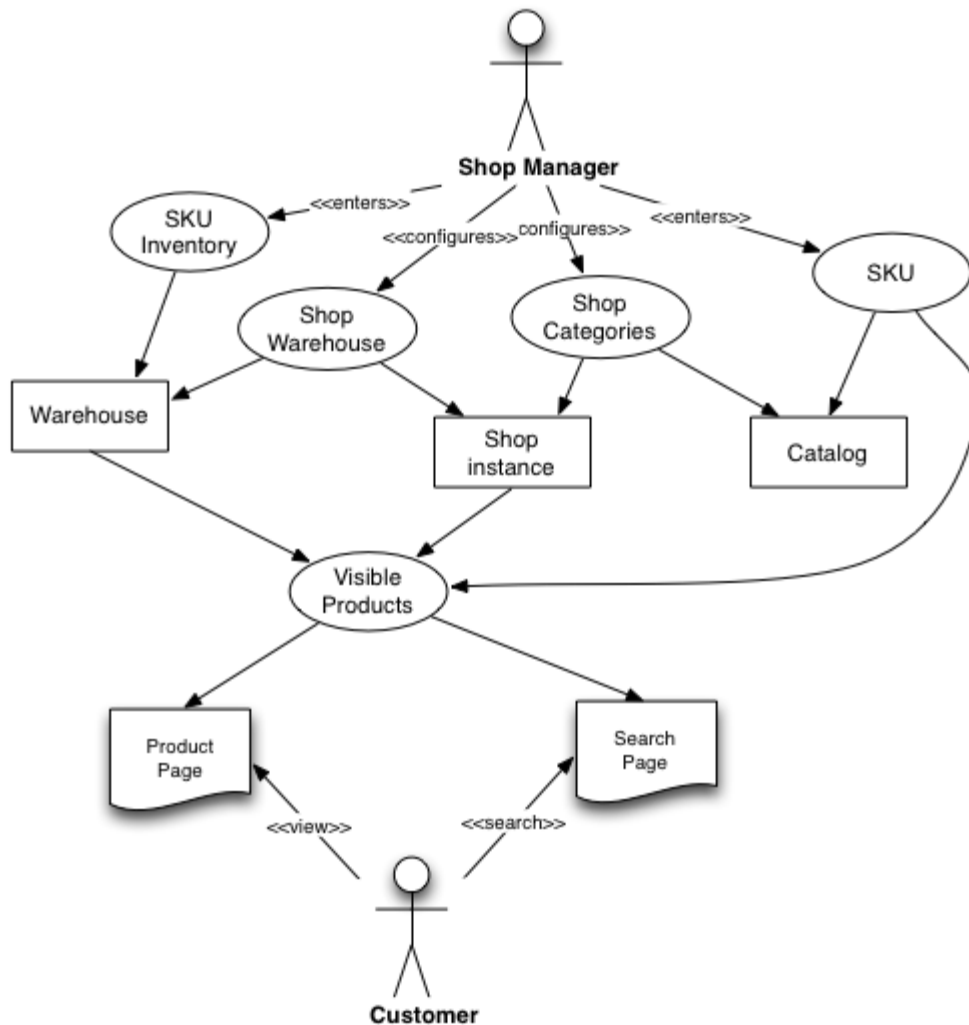
Overview

Inventory management framework provides a flexible and non-restrictive data entry mechanism. The fundamental data objects that are responsible for stock management are **fulfilment centre** (FC) (a.k.a. warehouse) and **SKU inventory** . Fulfilment centre allows to define a logical or physical location of the inventory whereas SKU inventory specifies the quantity and **SKU code** to which this quantity relates to 3.7.0+ together with fulfilment options. Thus it is possible to manage inventory for SKU that is not yet part of the catalog, i.e. non-restrictive data entry. This allows business user to effectively manage inventory and [PIM](#) separately from each other.

Each [shop](#) can be assigned one or more fulfilment centres thus providing the link between the inventory and SKU that are available in a given shop.

Note that if several shops are assigned to the same warehouse they will be sharing the inventory.

The overall depiction of the inventory management can be seen in the figure below:



Fulfilment centre management

Fulfilment centres (FC) are used to define a logical or physical location of the inventory depending on how the business manages their inventory. Example of a logical location could be "Discontinued stock items" or "Used items for sale". Using a separate FC would allow to logically separate these kind of products which can aid later on in configuring FC specific pricing, adjust content or email content to reflect some of the specifics of the items.

For businesses that manage inventory through own ERP system(s) it is recommended to create FC per each data feed.

For businesses that would like to manage inventory within the platform it is recommended to create FCs that represent physical locations to track inventory levels more effectively including any logical FCs which may have different pricing requirements or content specific requirements.

In order to add FC a **code**, **name** must be specified and optionally a location and additional fulfilment options.

Adding FC from inventory management section requires administrative rights to the system. Shop administrator can add additional shop specific FCs from the [shopmanagement](#) section on "Fulfilment centres" tab.

If FC is assigned to multiple shops the inventory is shared

Additional configurations allow to adjust the behaviour at the checkout:

- **Standard stock default lead time** - defines standard time required to prepare the order before it is shipped if all items in order delivery are available. This will influence approximate delivery date calculation.
- **Backorder stock default lead time** - defines backorder time required to prepare the order before it is shipped if any items in order delivery are not currently available (backorder). This will influence approximate delivery date calculation.
- **Partial deliveries available** - controlled whether partial shipment are available and deliveries can be split further by availability
- **Force separate delivery for each item** 4.1.0 - forces separate delivery for all items in the order fulfilled by given centre
- **Force separate delivery for backorder item** 4.1.0 - forces separate delivery for out of stock or unavailable items in the order fulfilled by given centre

DEMO ENVIRONMENT

Logged in as Yes

Fulfilment centres

Code	Name	Description	Configurations
Main	Main warehouse		
Second	Secondary warehouse		

1

Current Activity

DEMO ENVIRONMENT

Logged in as Yes

Fulfilment centres

Main

Localization

Shops

Configurations

Code

FC001

Description

Used items at discounted prices

Country

GB

State code

State code

City

City

Post code

Post code

Main

Localization

Shops

Configurations

Name

default value

Used Items

Language

Value

Customer facing name shown on the shipping method selection

Main

Localization

Shops

Configurations

Assigned

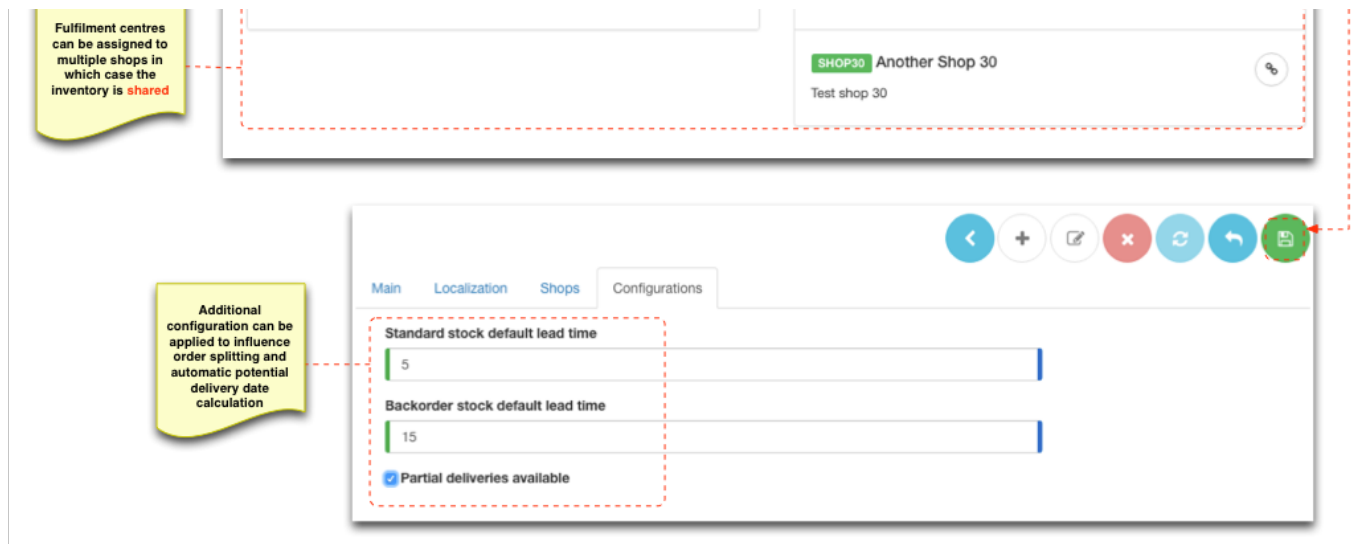
Available

SHOP10 YesCart shop

SHOP20 Another Shop 20

YesCart shop

Test shop 20



Inventory management

SKU inventory records are managed per FC using the inventory management section. This section provides various searching options to find specific SKU inventory record.

There can be only one SKU inventory record per FC

In order to add an inventory record the minimum requirement is to fill in **SKU code** and **quantity** on stock.

Note that SKU code does not necessarily needs to match the existing SKU data. If the SKU code corresponds to an existing SKU PIM data the table with inventory records will display a SKU name, otherwise the SKU name will be blank.

Quantity represents the actual quantity of given SKU in stock. "Reserved" represents the quantity of SKU, which is currently required to fulfil orders that are "in progress". Therefore available to sell quantity (ATS) is "ATS = Quantity - Reserved" subject to the availability mode set on the inventory record.

When editing inventory record it is only possible to adjust the quantity to indicate a different level of stock. Reserved quantities can only be manipulated automatically by [order state machine](#).

As of 3.7.0+ availability and order quantity setting reside in inventory record to allow to control these fulfilment options per FC, prior version would contain these setting at product level in PIM.

Availability configuration encompasses type and date range. The date range allows to define when the product starts being available (i.e. **Available from**) and when it is taken off the sales (i.e. **Available to**). These dates define the period when product is visible on the storefront. **Availability** type defines how inventory is handled for this products. The following types are available:

Availability type	Date range	Behaviour
-------------------	------------	-----------

Standard	available from < now < available to	<p>Product must have enough items in stock for the order to be placed.</p> <div> <p>Standard products that are fully out of stock will not appear in frontend. Multi SKU products that has at least one SKU in stock are considered in stock</p> </div> <div> <p>If you require behaviour for not allowing to buy out of stock items but still show them in searches use Back order with ProductAvailabilityStrategyBackorderInStockOnly configuration enabled for shop that requires this behaviour</p> </div>
Always	available from < now < available to	Stock is completely ignored. This type is used for digital products or when inventory management is not important (i.e. there is always more than enough)
Showroom	available from < now < available to	Cannot be purchased. These products are for customers to have a look and read about. Showroom items are usually prototypes, or could be items that will be soon available (e.g. fashion collection for next season). This type of product is more for raising interest and advertisement purposes
Back order	available from < now < available to	<p>Products that can be purchased even if there is not enough items in stock. The assumption is that the shop can re-stock and fulfil the order</p> <div> <p>If you require behaviour for not allowing to buy out of stock items but still show them in searches enable ProductAvailabilityStrategyBackorderInStockOnly configuration for shop that requires this behaviour</p> </div>
Pre-order 3 .6.0	now < available to	<p>Products that have not yet been released. The assumption is that the shop can re-stock and fulfil the orders after product release date.</p> <div> <p>Orders with pre-ordered items are kept in 'in progress' state until release date has passed at which point they are treated as back orders.</p> </div>

Release 3.7.0+ is release date for products on pre-order. In earlier versions this was controlled via "Pre-order" availability, which reverted to "Back-order" mode after release date. Now availability can be set independently and release date in the future results in "Pre-order" products. Orders with pre-ordered items are kept in 'in progress' state until release date has passed at which point they are treated in accordance to availability mode.

Orderable quantity configuration consists of **minimum**, **maximum** and **step** quantity that allow to set quantity constraints on a particular product. For example heavy weight items may have a maximum quantity cap to prevent customers ordering amounts that cannot be physically delivered. Minimum quantity can be set for cheap items, so that a minimum amount must be ordered, which is useful when you have minimum transaction fee on the payment gateway. Minimum amount is especially useful for back order type items where shop logistics managers can set a threshold which makes it feasible to order another batch. Step quantity is effective when items are sold as packages. Consider fabrics that are sold in rolls of 20 meters. Shop manager can set step quantity to 20 so that customer will only be able to choose 20, 40, 60 etc thus preventing them from ordering less than a full roll.

DEMO ENVIRONMENT

Logged in as Yes

Stock / Main warehouse

This panel requires filter to display results. Please type search phrase into filter input.

Code	Name	Stock	Reserved	Availability	Release	Available from	Available to	Available

Current Activity

Fulfilment centres

Main: Main warehouse

Second: Secondary warehouse

FC001: Used Items

Cancel

Select

Selected Warehouse

Used Items

Main

Availability

Next restock

Search Index

Code

920-005048

Name

G105

Fulfilment centre

FC001: Used Items

Stock

0

Reserved

0

Availability

Backorder (replenished on demand)

Release

GMT yyyy-MM-dd HH:mm:ss

Available from

GMT yyyy-MM-dd HH:mm:ss

Available to

GMT yyyy-MM-dd HH:mm:ss

Min order quantity

Min order quantity

Max order quantity

Max order quantity

Step order quantity

Step order quantity

Next restock

GMT 2019-11-30 00:00:00

Restock message

en

Next restock in Nov

Language

Value

Tags

testinventory

Optional configurations

SKU names display only for existing SKU products

SKU code does not need to represent existing SKU. It is possible to enter inventory before importing SKU data.

Minimal inventory data is SKU code, quantity and availability mode. Availability is 'Standard' by default.

[Sale](#)
[Special Offer](#)
[New Arrivals](#)
[Demo](#)
[Themes](#)
[Contacts](#)

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English
€

[Contact form](#)

(2) €2770⁶⁰
inc. 461.77 VAT

Home / Search::920-005048

Keyboards & Desktops
Laptops
Mice
PCs/Workstations
Servers
Software Licenses/Upgrades
Storage Servers
Tablets
Toners & Laser Cartridges
Top End Brands
Warranty & Support Extensions

Product type
Keyboards & Desktops 2
Product brand
Logitech 2

Sort: name SKU price
1 20 30

G105

Preorder
€1410³⁰
inc. 235.05 VAT
1510.30
7%

Code 920-005048

Logitech G105. Device interface: USB, QWERTZ, Purpose: PC/server, Colour of product: Black, Red, Blue, Surface coloration: monotone, Power source type: USB, Minimum hard disk space: 20 MB, Number of

G105

Add to cart
€1510³⁰
inc. 251.72 VAT

Code 920-005048

Logitech G105. Device interface: USB, Keyboard layout: QWERTZ, Purpose: PC/server, Colour of product: Black, Red, Blue, Backlight colour: Blue, monochrome, Power source type: USB, Minimum hard disk space: 20 MB, Number of

New Arrivals
Viewed

ME181C-A1 ME301T-1A045A C70-B-33K F551MA-SX112H K400 Plus

Profile
View shopping cart
Order guide
Order history
Return policy

FAQ
Site map
Call center
Contacts
Licences

Newsletter
Sign up for newsletter

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English
€

(2) €2770⁶⁰
inc. 461.77 VAT

Items in your cart will be delivered by more than one supplier

1 Log In 2 Your Address 3 Shipping Method 4 Payment

Shipping method

Items that will be delivered by Main warehouse

Product	Price	Quantity	Amount
G105 920-005048	1510 ³⁰ inc. 251.72 VAT	1	1510 ³⁰ inc. 251.72 VAT

1-3 day
☒ 5-12 day
☐ Next day
☐ Test All PGs

Shipping cost
FREE
 0.99
 100% 0

Items that will be delivered by Used Items

Product	Price	Quantity	Amount
G105 920-005048	1410 ³⁰ inc. 235.05 VAT 1510.30 7% 0	1	1410 ³⁰ inc. 235.05 VAT

Collection from store
 Shipping cost
FREE

← Your Address Payment →

Profile | View shopping cart | Order guide | Order history | FAQ | Return policy | Site map | Call center

It is recommended that most of the inventory management will be done via manual or automatic [import](#) process.

Inventory behaviour customisation

Since 3.5.0+ it is possible to configure Inventory availability resolution provider via configuration. Your custom modules can be injected via [extension points](#) and then activated via system configurations (System > Configurations).

For example use of Restriction on Backorder stock can be [configured](#) like so:

```
SHOP10.productAvailabilityStrategy=productAvailabilityStrategyBackorderInStockOnly
```

Order splitting

FCs have direct impact on how order is formed and fulfilled. If order contains items from multiple FCs the platform automatically performs order splitting per FC.

This allows:

- For each FC to fulfil their part of the [order](#) (i.e. delivery) on their own terms (available shipping methods and lead times, available payment methods) and provide automatic updates (in case of auto integrations) to progress deliveries in isolation.
- Provide [automatic order exports](#) to FC with items relevant only to specific delivery

**YES CART**
DEMO STORE

(2)

€2770⁶⁰

Inc. 461.77 VAT

Items in your cart will be delivered by more than one supplier

1 Log In**2** Your Address**3** Shipping Method**4** Payment

Shipping method

Items that will be delivered by Main warehouse

Product	Price	Quantity	Amount
 G105 920-005048	1510³⁰ Inc. 251.72 VAT	1	1510³⁰ Inc. 251.72 VAT

- ☐ 1-3 day
☒ 5-12 day
☐ Next day
☐ Test All PGs

Shipping cost

FREE

0.99

100% Items are
automatically
grouped by FCFCs can have own
set of applicable
shipping methods
and inherently
payment methods

Items that will be delivered by Used Items

Product	Price	Quantity	Amount
 G105 920-005048	1410³⁰ Inc. 235.05 VAT 1510.30 7% 	1	1410³⁰ Inc. 235.05 VAT

☒ Collection from store

Shipping cost

FREE[← Your Address](#)[Payment →](#)FC policy can be
applied to create
prices applicable
to this FC only