

4.06. Stock locations and location types

Keeping track of where stock is in your store is an important part of good warehouse practice. You don't want to have to go hunting through your whole store for stock, wasting time and energy when mSupply can tell you exactly where it is!

Locations in mSupply are the places you store stock. Locations can have types (e.g. normal, cold, bulk...) to help you categorise them, you can define parent/child relationships between locations to help you manage them effectively and you can even create a line drawing plan of the location to pictorially show the layout of your store.

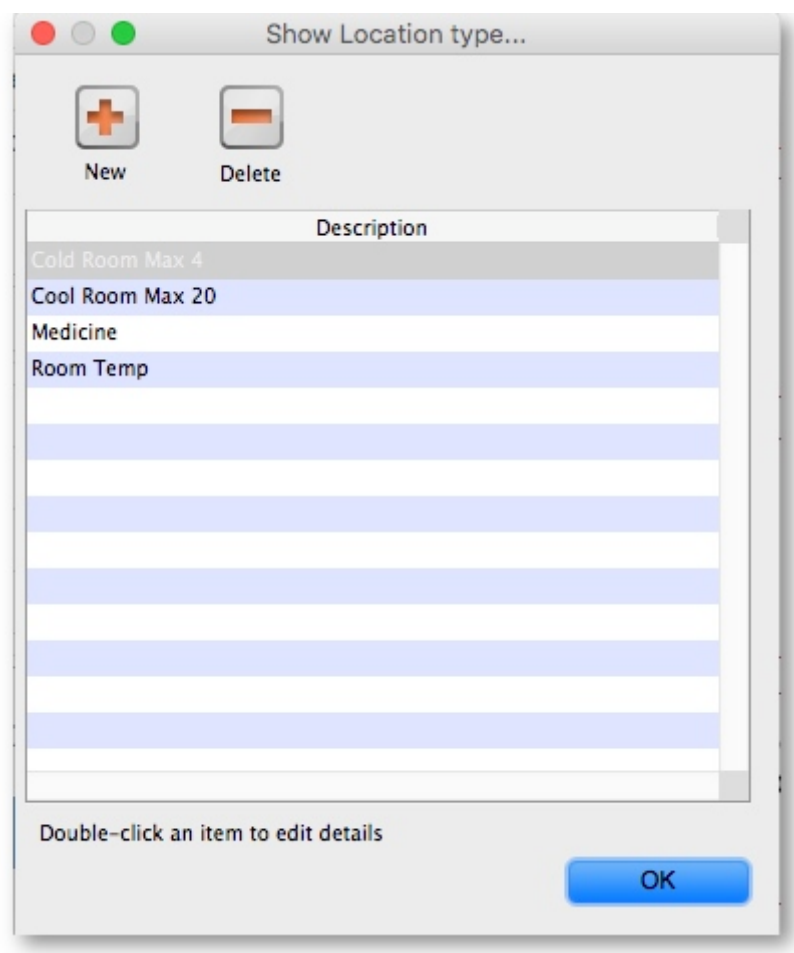


If you use **location types** it will help you if they are defined before the **locations** that belong to them otherwise they won't be available to select when defining a location - and you'll have to go back later and edit the locations. What a waste of time! So this section explains location types first and goes on to explain about locations.

Location types

Location types give you the ability to categorise your locations. They can be used for reporting on a group of locations, but also to restrict the locations that can be used for a particular item. For setting the location type for an item, see [Item basics](#)

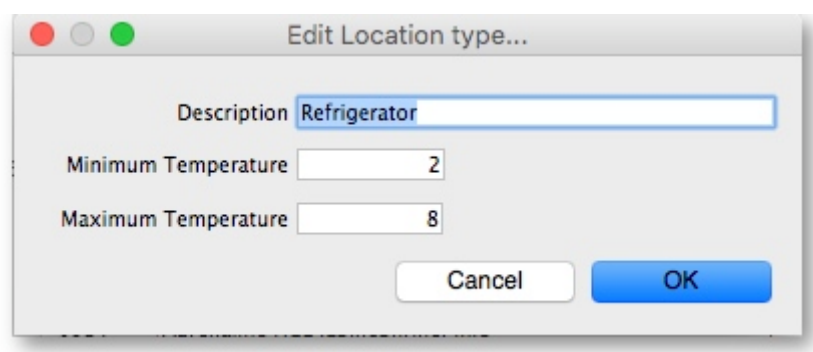
Choose *Item* > *Show location types* to define or show a list of available location types.



The window that appears allows you to define the criteria for the various types of location in your store - e.g. the permitted temperature range, whether location must be dark, etc.

Adding a location type

Click on *New* , and the window that appears allows you to enter a name for the storage type, and the permitted conditions pertaining to that storage type.:



In the above example, a storage type “Refrigerator” has been defined, the permitted range of temperature being 2° C - 8° C.

Having defined your storage types, the *Show location types* window might look like this:



It is worth emphasising that the list does not show the actual store locations, but the types of locations.

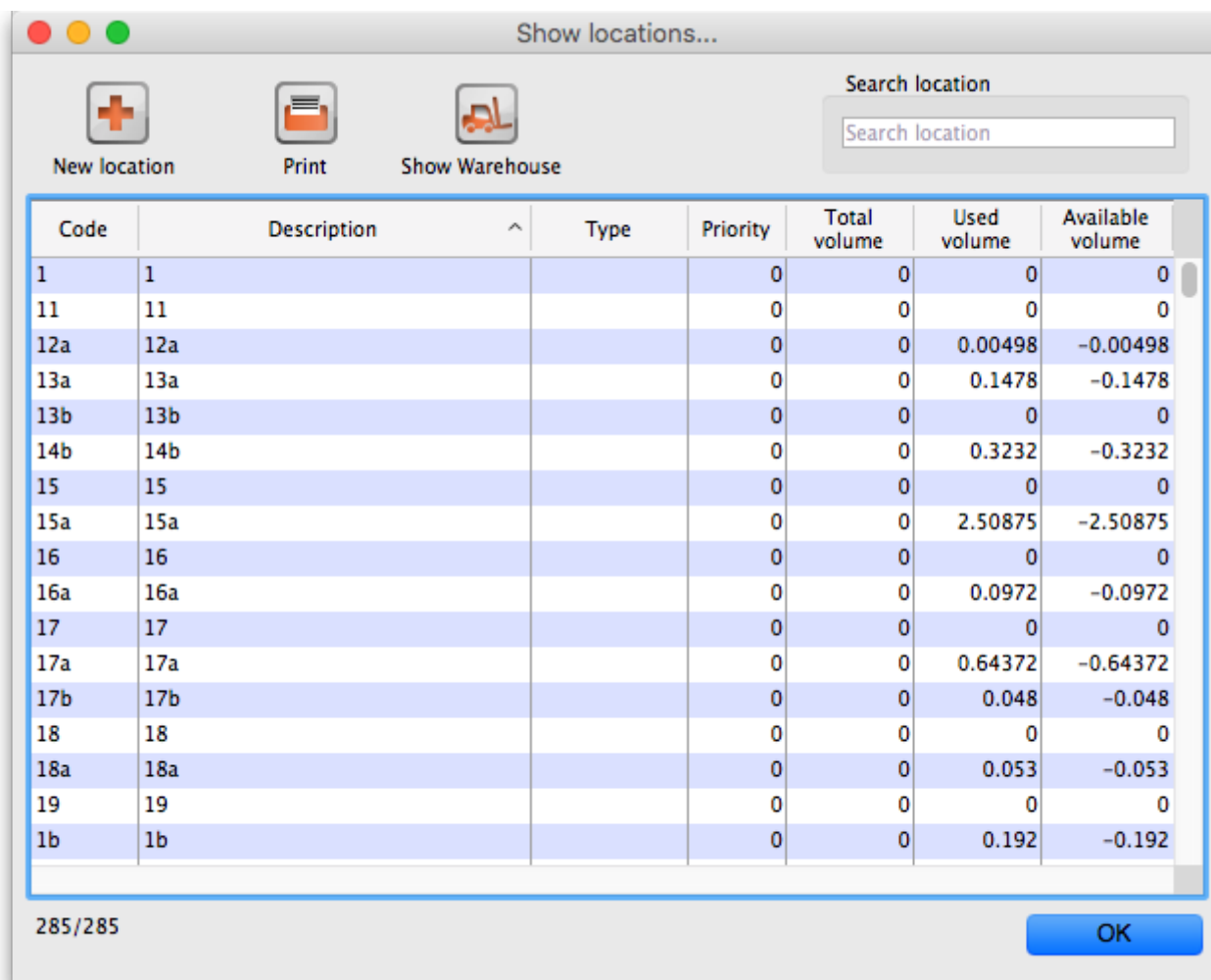
Editing a location type

Should you wish to edit the details of any location type, double click on it in the list and change the details in the window which appears.

Locations

Viewing locations

To view the locations you have defined choose *Item > Show locations* and you will see a list of location codes and descriptions:



From this window you can view, edit and remove locations and their details - this is the 'location management' window. Here are the various functions of the window:

New location icon: Click this to add a location (see 'Adding a location' below).

Print icon: Click this to print the list of locations displayed in the window (see 'Printing the locations list' below).

Show warehouse icon: Click this to see a graphical representation of your warehouse. This representation shows all the layouts of the individual locations that you have created in the layout tab when adding a location (see 'Adding a location' below).

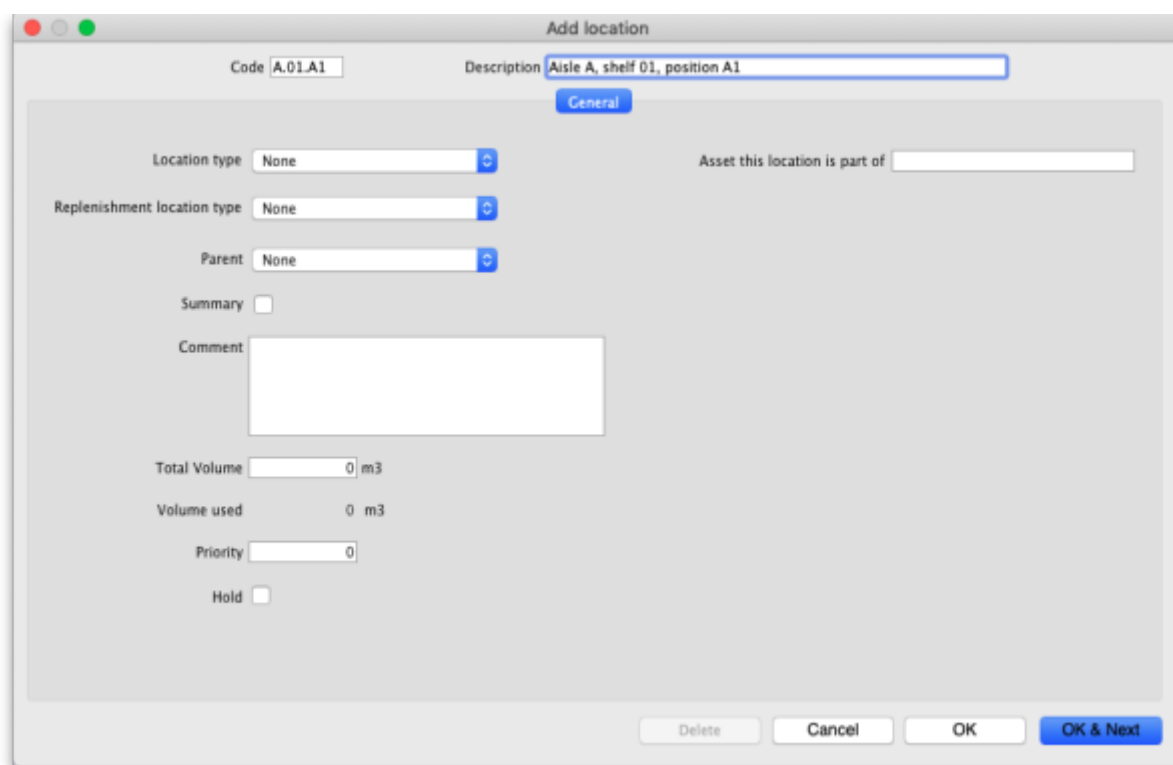
Search location: Enter some text in the text field and the list is updated as you type to show only the locations whose code or description starts with the text you have entered.

view and edit a location's details: Double click on a location in the list - see 'Viewing and editing a location' below. All the details are editable. See the 'Adding a location' section below for the meaning of the individual details.

Adding a location

Before you can associate an item with a specific location (e.g. Shelf D4, Refrigerator 2, etc.) you must define the locations in mSupply. To add a new location, click on the *New location* icon in the View

locations window shown above. You will be shown the following window, where you can enter the details of the new location:



Code: This is how you refer to the location in mSupply and, for example, what you will select when you set an item's location.

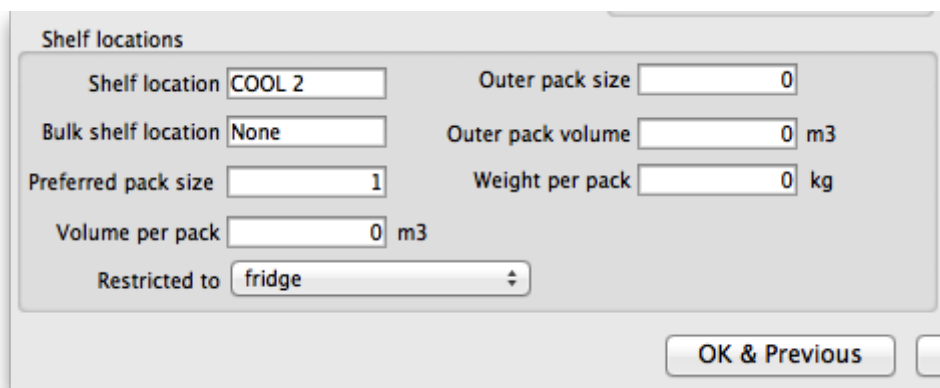
Description: This is a description of the location e.g. "Top shelf of refrigerator 3" or "3rd shelf up in rack E" to help you identify it or remember something important about it. You will only see this in the list of locations shown above.

General tab

Under this tab, you enter the location's main details:

Location Type: Select one from the location types you have already entered, see [Location types section above](#).

- Each item can have a *Restricted to Location* type set, and then you will only be able to store that item in a location with that type:
- You can set the location type that an item should be restricted to by viewing the item's general tab, and choosing the type from the drop-down list (*Items/Show Items/Find Items - double click applicable item*):




In a [synchronised system](#), this must be done on the Primary server and will apply to all stores in the system. Introduction of this in an already established system therefore needs to be carefully managed.

Parent: Select one from the locations already entered in mSupply. This is the location to which the location you are adding belongs. This is for descriptive purposes and does not have any functional effect in mSupply, except when viewing the warehouse layout.

Summary: Checking this means that the location is a summary location only and cannot be used for storing items. This is normally checked for all locations that are parents of others.

Comment: You can note anything you need to remember or indicate to others in here. It is only visible if you view the location's details (*Item > Show locations*, double click on the item in the list) later.

Total volume: The total volume of goods that you can store at the location. Volumes are stored in cubic metres [m³] but other volumes e.g. litres (l) may also be entered, provided the appropriate unit is entered following the number e.g. 5l for 5 litres. See the entry **Volume per pack** in [Item edit - General options](#). Note that whatever you enter will be converted to and displayed in m³.

Knowing the volume of a location is important if, for example, you are replenishing your stock of vaccines, and you need to know if there is enough space available in the refrigerator in which you store vaccines to accommodate a new order (obviously, you would also need to know the volume of the vaccines that you are ordering).

Priority: The Location priorities are used for two different purposes:

- When printing a picking slip:
 - By default a picking slip is printed with the lines ordered according to the alphabetical order of shelf locations. This helps the pickers to progress systematically through the store rather than walking a random marathon! However, it is sometimes useful to get mSupply to put certain items, e.g. bulk fluids or fridge items first or last on the picking slip. This is achieved by setting a priority for a location. **The priority will override the default alphabetical ordering.**
 - A location with a lower priority number will be printed before a location with a higher priority number.
 - All locations with 0 priority are counted as having no priority and will be printed, in alphabetical order, after all locations with a priority.

- When suggesting stock lines for selection - when the expiry dates are the same:
 - For an item with several stock lines having the same expiry date, mSupply will use location priority to decide which stock line should be suggested first (at the top of the stock line selection list).
 - Locations with a lower priority number will be selected before a location with a higher priority number. All locations with 0 priority are treated as having no priority and will be suggested last.
 - If multiple locations have the same priority number, then mSupply will suggest them in alphabetical order of location name.

An example of using location priorities to direct selection of stock lines

Let's say we have 7 stock lines of the *first expiring batch* in the following locations:

Line	Location	Location Priority
1	M02.04.3B	1
2	M04.02.2A	1
3	M02.06.1A	2
4	M02.04.4A	3
5	B01	4
6	M03.03.3A	0
7	M03.05.3B	0

- mSupply will suggest the stock lines in this order, sorted firstly by location priority number, and then by alphabetical order of location name.
- Lines 6 & 7 are last because they have priority of 0
- Line 1 is before Line 2 because, alphabetically, M02.04.3B sorts before M04.02.2A.
- Similarly, Line 6 is before Line 7 because, alphabetically, M03.03.3A sorts before M03.05.3B.

Hold: If this is checked then goods in this location cannot be selected for issue to customers. Goods can be moved in to, and out of, the location but they cannot be issued from that location.

Putting a location on hold can be useful if:



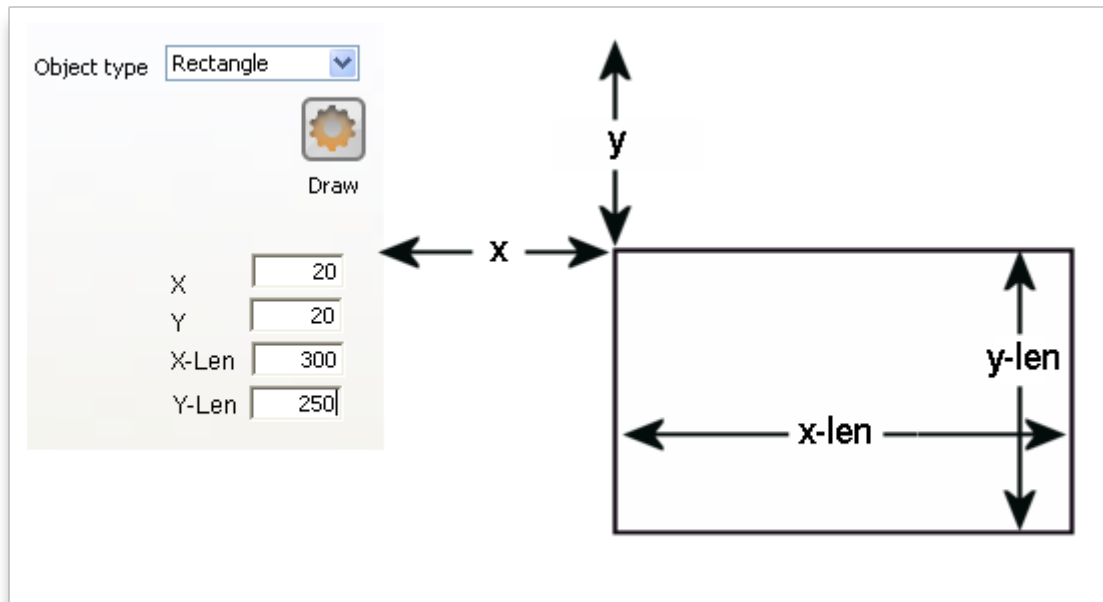
- The stock needs to be kept from being issued until some inspection / approval (e.g. quarantine or under bond).
- The stock is a bulk quantity with the same expiry date as another stock line in another location from which you want stock issued. You can use this feature to force mSupply to always suggest issuing stock of this item from the 'issue' location rather than this 'bulk' location. When you have finished issuing stock from the 'issue' location, and you want to issue the stock



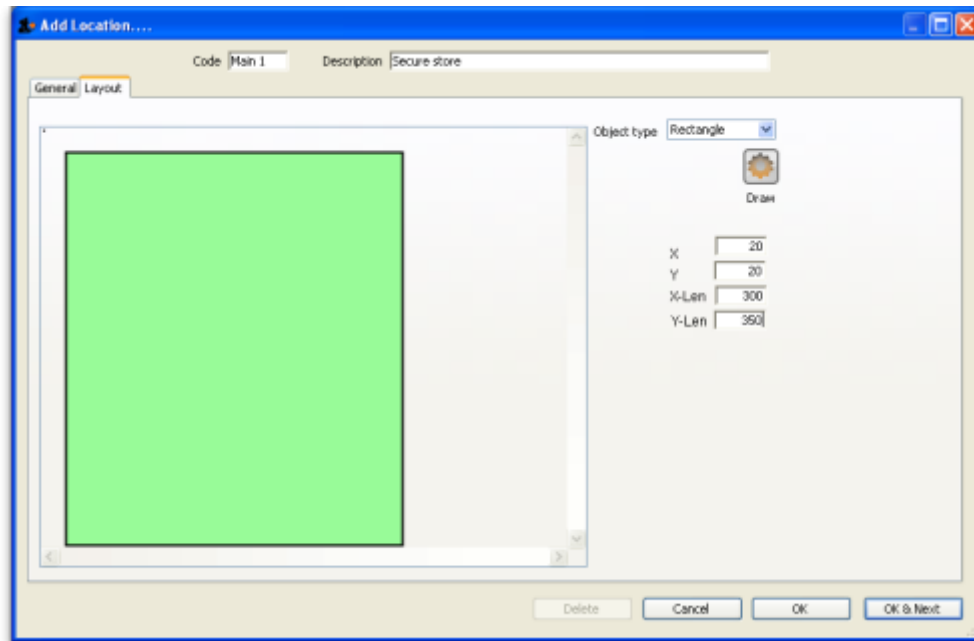
that is in the 'bulk' location, you will need to either take the 'bulk' location off hold, or, move all, or some of it ([split](#)), the stock from the 'bulk' location. Location priorities (above) is a more elegant way of managing issue of stock of an item with the same expiry date from multiple locations.

Layout tab

Under this tab you can create a graphical plan view of the location in your store. This is useful for helping people to quickly locate any given location and presenting a graphical layout of your whole store. Locations are drawn as either rectangles (for which you enter the top left coordinate and the lengths of the 2 sides) or polygons (for which you enter a number of sequential coordinates which are connected with straight lines). Here's what the various input items mean for a rectangle, the rest we'll show you by the way of an example:

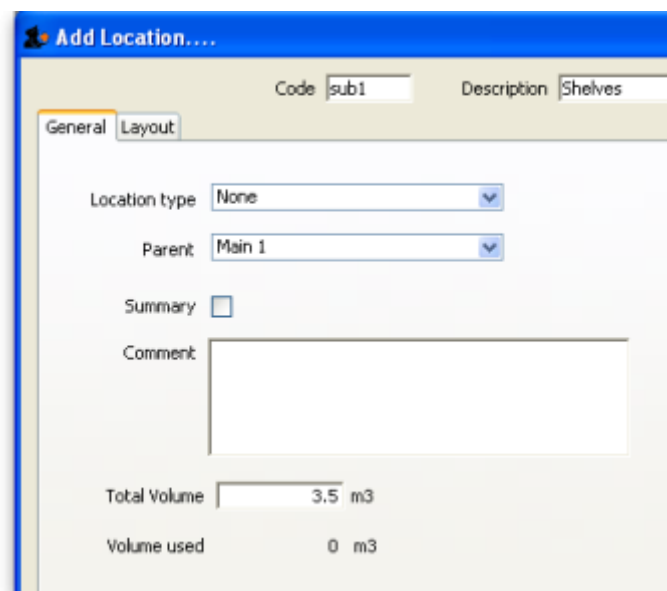


So, as an example, the coordinates are entered as above in the appropriate boxes, then the *Draw* button is clicked to produce the following display under the layout tab:

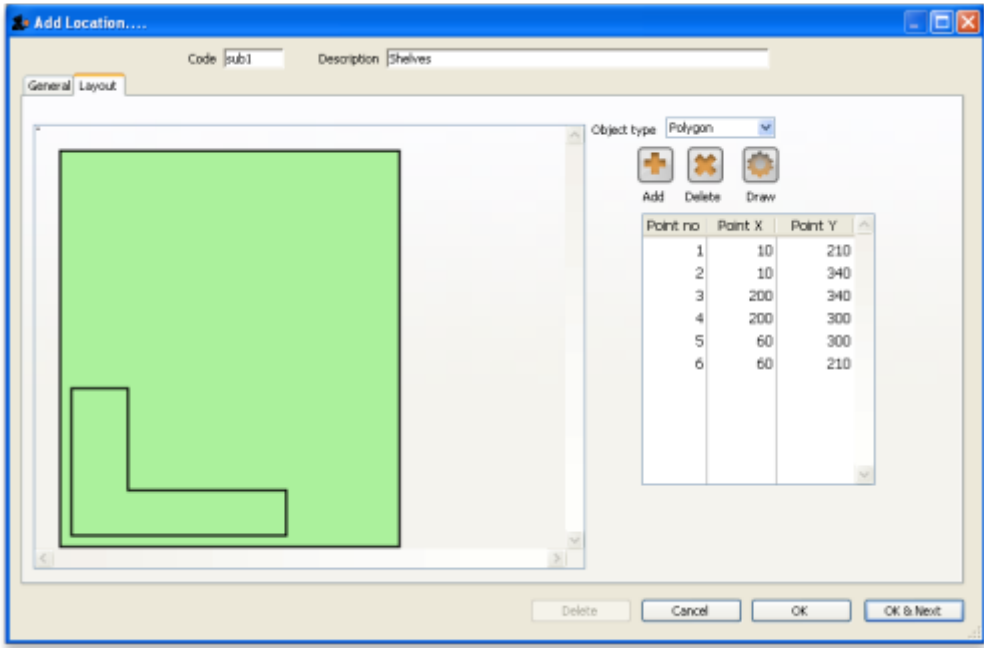


This has created a picture of location main1. This is the whole store or warehouse. You can't see the settings but this location will have no parent and will have its *Summary* checkbox checked (no items can be located here - it's just a summary location for descriptive purposes).

In our imaginary warehouse we have a set of open racking which is 'L'-shaped. We want to draw it in the warehouse so we create the location, call it 'sub1' and set its parent as Main1. If this set of shelves also has other locations in it we would also check its *Summary* checkbox.



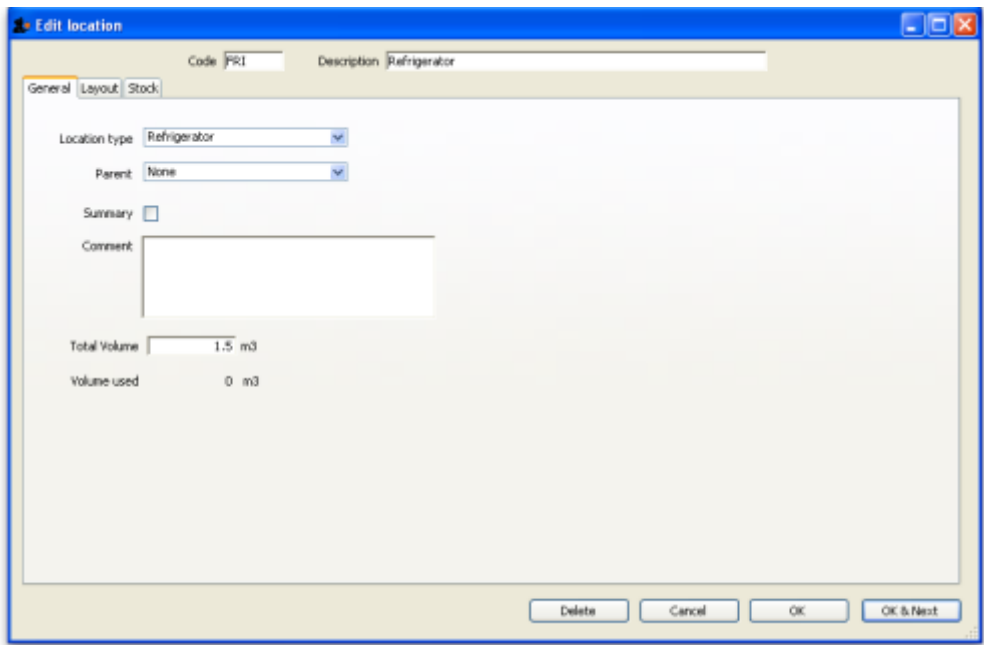
To draw this location we click on the Layout tab and select *Polygon* as the object type. Click on the *Add* button to add a coordinate and then overwrite the zeros in the X and Y columns to give the correct coordinates. If you make a mistake, click on the set of coordinates in the list that is wrong and click on the *Delete* button to delete it. When all six co-ordinates have been entered, click on the *Draw* button to produce the layout displayed below:



You can do this same thing for all locations so that anyone can easily locate them in your store.

Viewing and editing a location

As you already know from above, to view all the locations you have defined select *Item > Show locations*. To view and edit the details of a particular location, double click on that location in this list. You will be shown the following window:



General tab

This is the same as the General tab for adding a location (see the 'Adding a location' section above) except that its details are filled in with the details of the location you selected. To edit the details simply overwrite the current value with a new value or select another option as appropriate.

Layout tab

This is the same as the Layout tab for adding a location (see the 'Adding a location' section above) except that the current graphical representation of the location is displayed (if you've already created one). You can edit the plan view of the location if required by changing, adding or deleting co-ordinates.

Stock tab

The Stock tab shows a list of existing stock lines stored in that particular location. A lot of information regarding the stock is displayed in the list and, as with most mSupply lists, it can be sorted on any column by clicking on the column heading:

Edit location

Code: FR1Description: Refrigerator

GeneralLayoutStock

Line	Item code	Item Name	Available	Total	Total Volume	Pack	Hold	Batch	Manufac...	Expirydate	Supplier	Location	Cost Price
1	Insiio	Insulin Isophane (Prostaphi	51	51	0	1		ts62662		28/02/2010	Invad	FR1	6.85
2	Inssol	Insulin soluble (Actrapid) 1	74	78	0	1		V560221		30/05/2010	Invad	FR1	6.85
3	Inssol	Insulin soluble (Actrapid) 1	17	17	0	1		vs60221		31/05/2010	Invad	FR1	6.85
4	Pancin	Pancuronium Bromide 4mg	5	5	0	50		304948	estra	30/06/2010	Ansp	FR1	192.00
5	Pancin	Pancuronium Bromide 4mg	50	50	0	1		304948		30/06/2010	Ansp	FR1	3.84
6	Insmix	Insulin mixed 70/30 (Mixtal	148	150	0	1		V563994	novo	31/08/2010	Novo	FR1	6.78
7	Tub5	Tuberculin, purified protein	199	199	0	1		C2911A8	san	30/11/2010	Ansp	FR1	30.00
8	Oxytin	Oxytocin SIU/ml amp	13	13	0	5		50208	nov	30/05/2013	Mult	FR1	6.00

DeleteCancelOKOK & Next

If you want to know more information about any particular batch in the list, simply double click it and you'll be shown another window with lots of information about the batch, arranged in four tabs:

Item stock line details...

Item code: PancinjItem name: Pancuronium Bromide 4mg/2ml amp

General

Ledger

Status

Reference documents

Quantity according to stock

Total Quantity: 5Available: 5

Cost price: \$

Hold: ☐

Volume per pack: 0 m3

Sell price: 192

Location: FRI

Expiry date: 30/08/2010

Pack size: 50

Start of year quan: 0

Batch: 304948

Quan per Inner: 0

Initial quantity: 0

Supplier: Anspec Pty Ltd

Inners per Outer: 0

Note

Id: 1845

Cancel

OK

Deleting a location

To delete location you select *Item > Show locations* to view the list of locations, double click on the location you want to delete (as if you wanted to view all its details) and then click on the *Delete* button at the bottom of the window. If you confirm the deletion, the location is removed.

Merging two locations

If you want to remove a location from further use in mSupply (for example, you might have accidentally double-entered a location) this command can be used.

When you Choose *Item > Merge two locations* , this window is shown:

Merge two locations...

Merge two locations into one - use with caution!

Location to keep

Enter location

Location to merge - will be deleted

Enter location

Note : merging locations will affect all historic records. This process cannot be undone. Please carry out a backup of your data and consult the mSupply manual if you are unsure.

Cancel

OK

Use extreme caution! This operation will affect all historical records of the location you delete. They will be moved to the location you are keeping. The operation can

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only be undone by reverting to a backup copy of your data file.

In the window displayed enter the location to keep, and then the location to merge. When you have checked that the information is correct, click the *OK* button.

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