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!

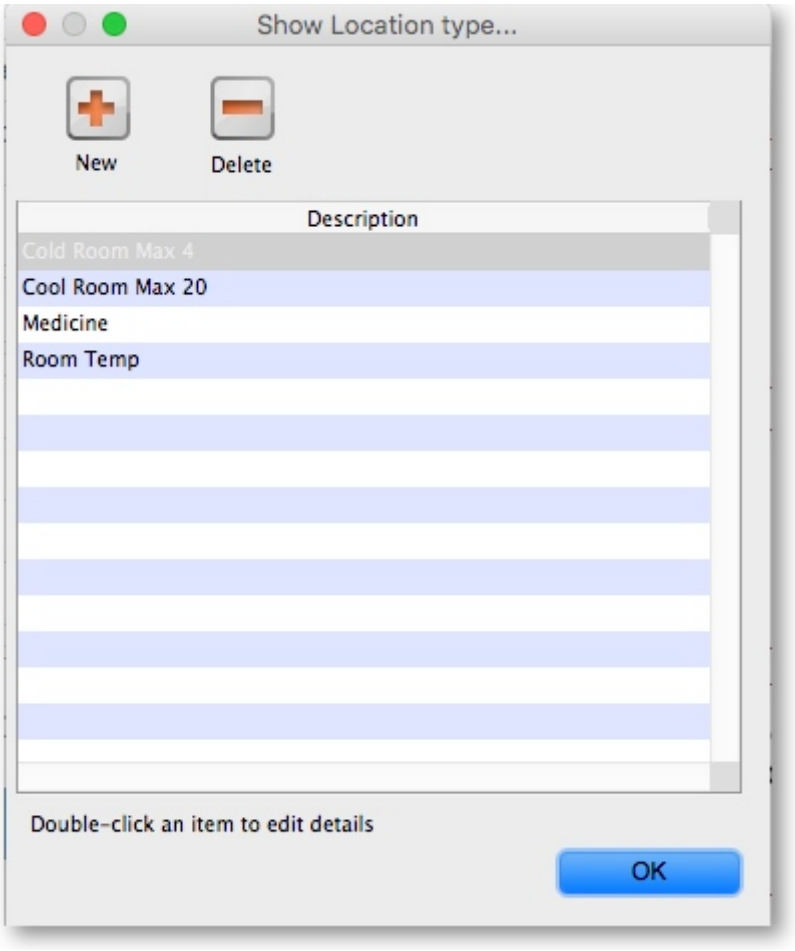
Locations in mSupply are the places you store stock. Locations can have types (e.g. normal, cold, bulk...) to help you categorise them, you can define parent/child relationships between locations to help you manage them effectively and you can even create a line drawing plan of the location to pictorially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

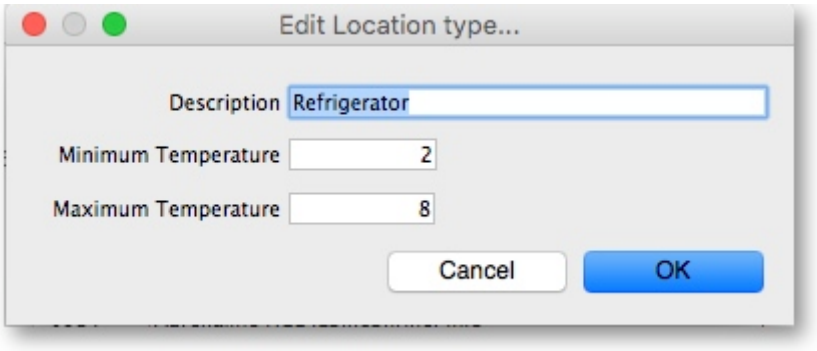
Choose// Item > Show location types// to define or show a list of available location types.



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.

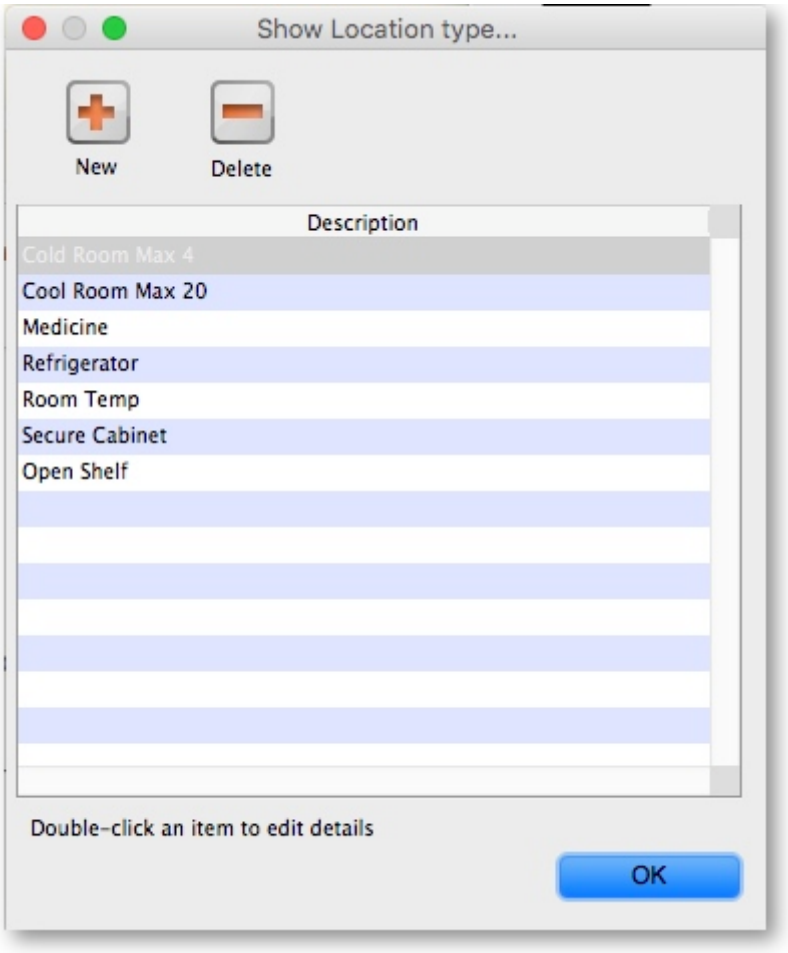
Adding a location type

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.

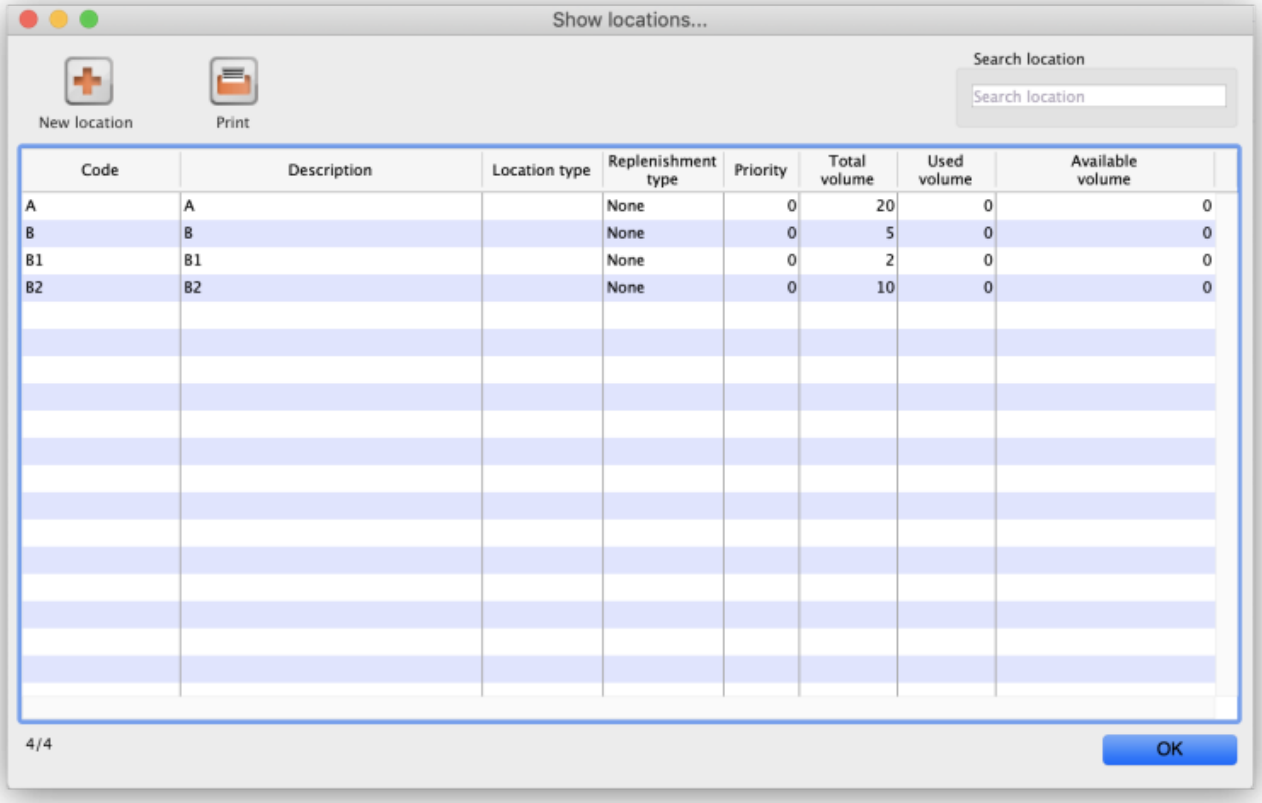
Editing a location type

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

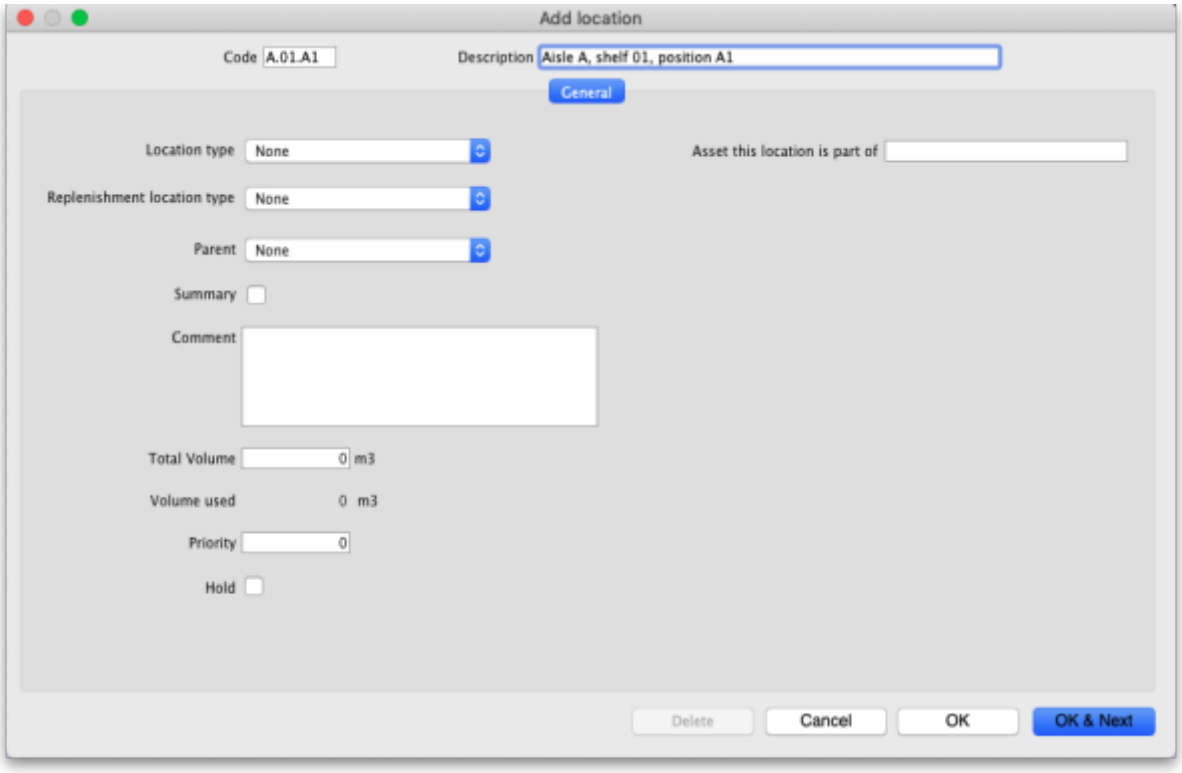
Print button: Click this to print the list of locations displayed in the window (see 'Printing the locations list' below).

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.

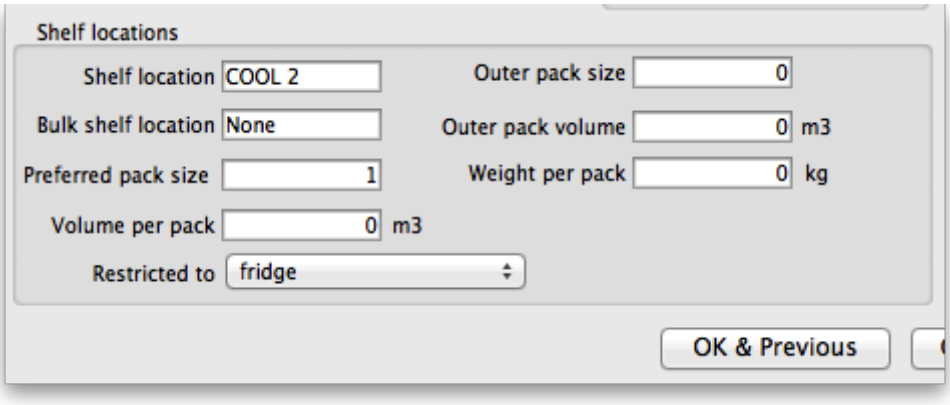
General tab

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

Location Type

Select one from the location types you have already entered (see the 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 *Storage* 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.

Replenishment location type

If you are using the pickface replenishment functionality, this is where you tell mSupply if this shelf location is a *Pickface* or a *Bulk* location (or neither, if you neave it set at *None*).

For details about what these settings mean and how to use the replenishment functionality, please see the 4.22. Pickfaces and Replenishments setup and 4.23. Pickfaces and Replenishments pages.

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 [m^3] 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 m^3.

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.
  - If multiple locations have the same priority number, then mSupply will suggest them in alphabetical order of location name.

When location are first set up, their priorities default to `0`, which is the 'highest' priority. If you are going to use priorities, you will need to set this number to something besides the default.

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

- mSupply will suggest the stock lines in this order, sorted firstly by location priority number, and then by alphabetical order of location name.
- Line 1 is before Line 2 because, alphabetically, M02.04.3B sorts before M04.02.2A.

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.

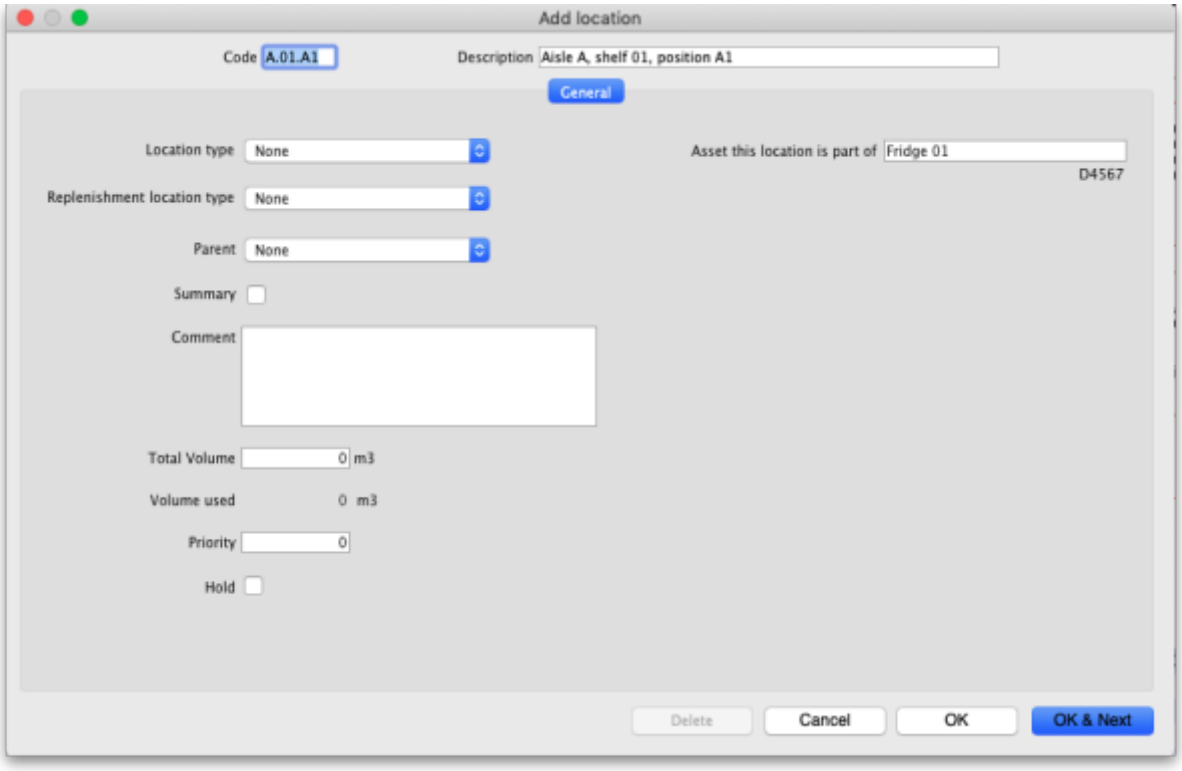
Putting a location on hold can be useful if:

- 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.

Asset this location is part of

If this location is part of an asset that is recorded in mSupply you can connect the location to that asset here. Type the first few characters of the asset's description in the field and press the *Tab* key on the keyboard to select the asset from a list of those that belong to the current store and have a description starting with what you typed.

When you have selected the asset by double-clicking on it, its description will appear in the field and its code (if it has one) will appear just underneath (Note: if only one asset matches what you typed, it will be selected for you and the fields appropriately populated):

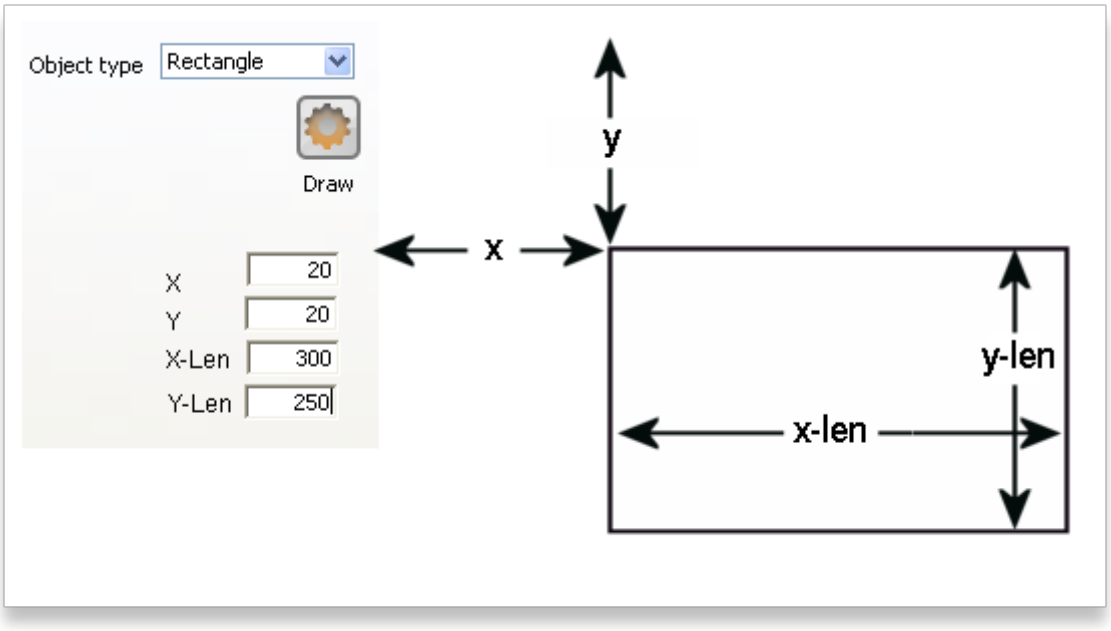


This would be a very useful thing to do for cold chain equipment, for example, so that you can link temperature variations to maintenance schedules and repair requirements etc.

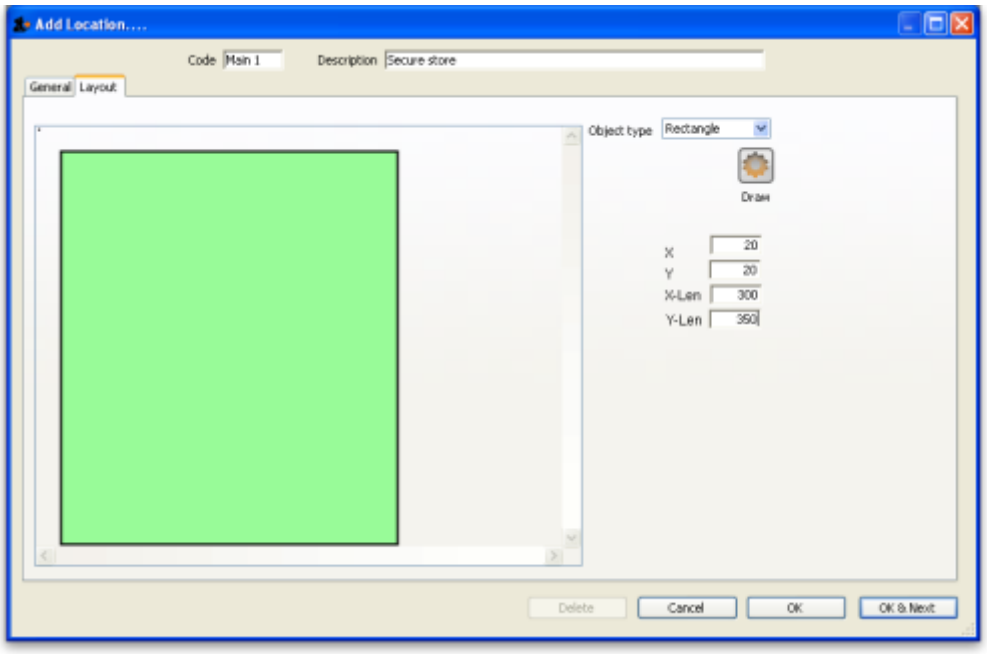
Layout tab

This tab is only of interest for those of you with older versions of mSupply! This tab has been removed in more recent versions because its functionality wasn't particularly helpful. Look out for Open mSupply coming soon, which is planned to have expanded functionality in this area.

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:

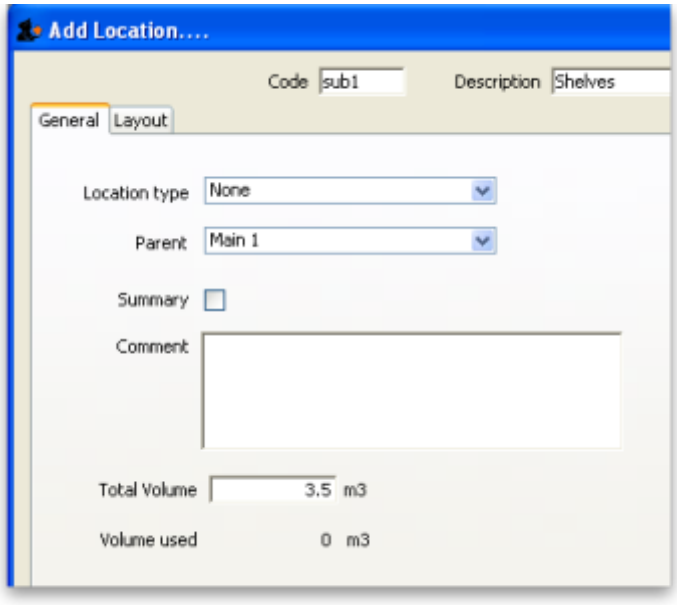


So, as an example, the coordinates are entered as above in the appropriate boxes, then the *Draw* button is clicked to produce the following display under the layout tab:

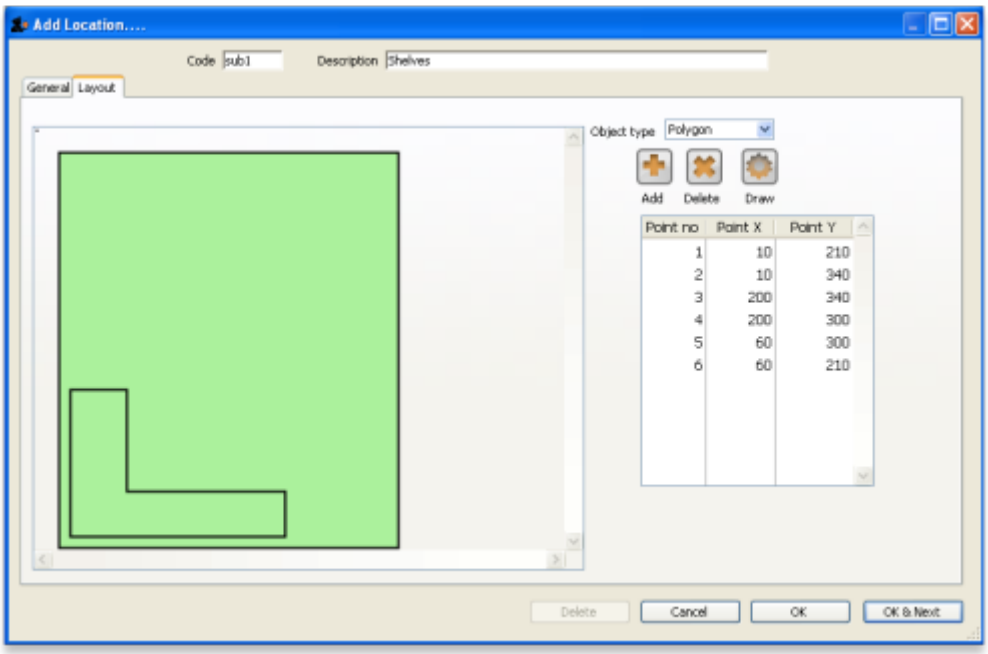


This has created a picture of location main1. This is the whole store or warehouse. You can't see the settings but this location will have no parent and will have its *Summary* checkbox checked (no items can be located here - it's just a summary location for descriptive purposes).

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.



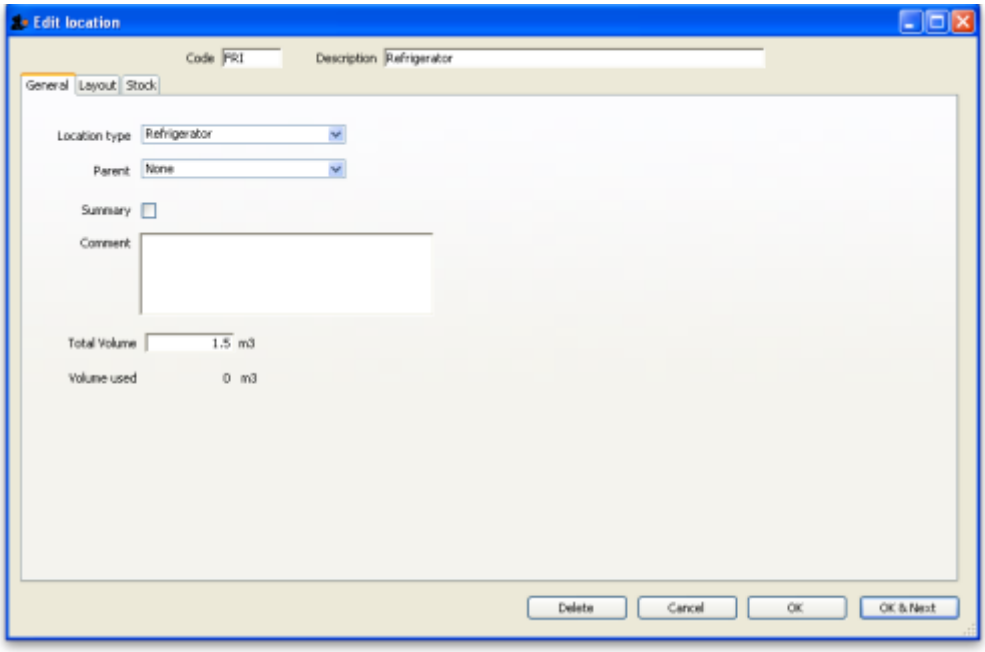
To draw this location we click on the Layout tab and select *Polygon* as the object type. Click on the *Add* button to add a coordinate and then overwrite the zeros in the X and Y columns to give the correct coordinates. If you make a mistake, click on the set of coordinates in the list that is wrong 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

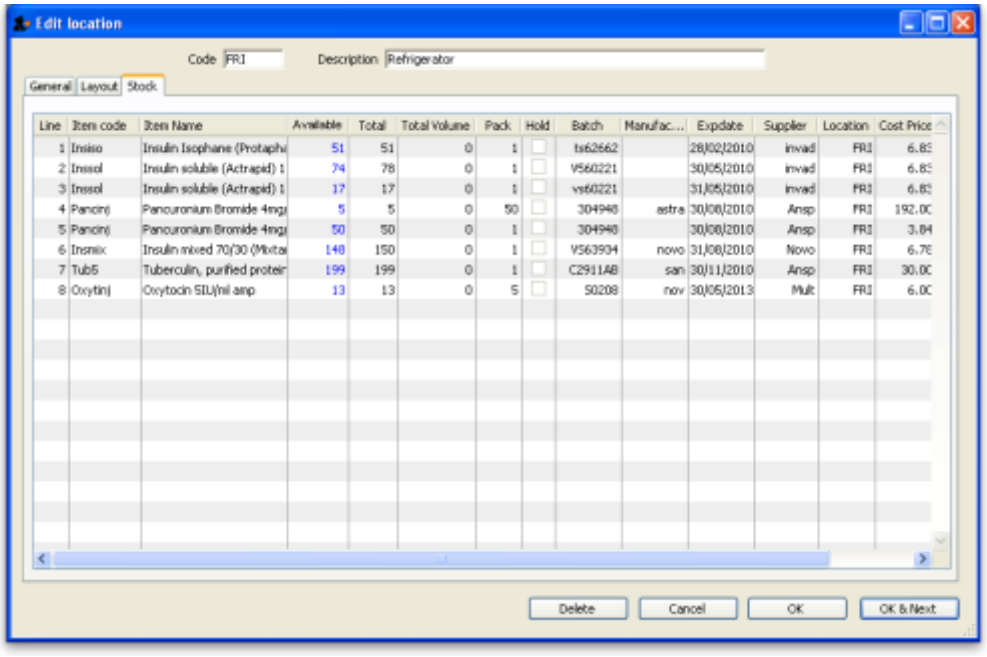
This is the same as the General tab for adding a location (see the 'Adding a location' section above) except that its details are filled in with the details of the location you selected. To edit the details simply overwrite the current value with a new value or select another option as appropriate.

Layout tab

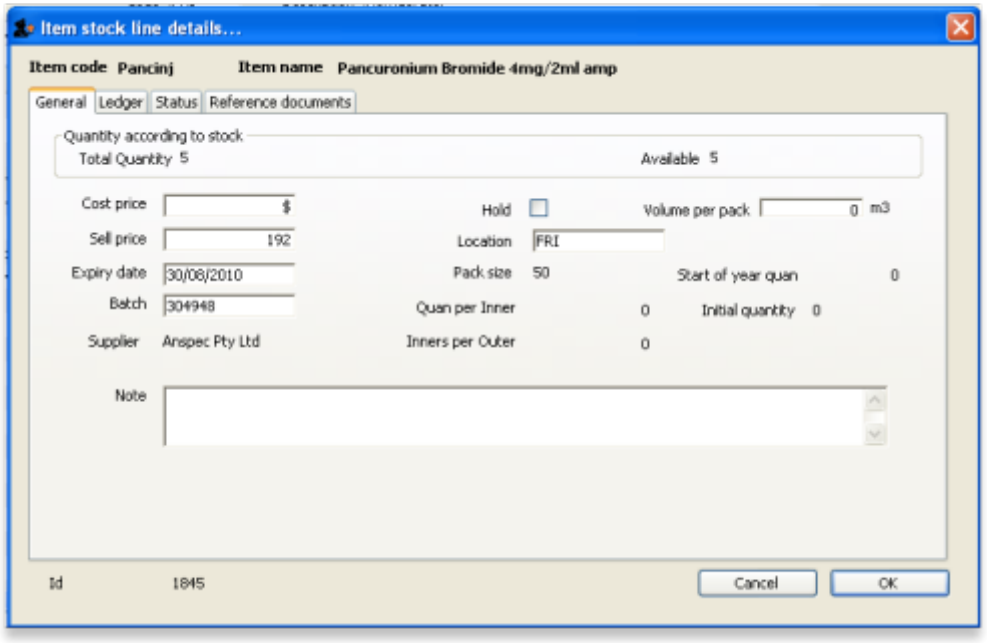
This is the same as the Layout tab for adding a location (see the 'Adding a location' section above) except that the current graphical representation of the location is displayed (if you've already created one). You can edit the plan view of the location if required by changing, adding or deleting co-ordinates.

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:



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:



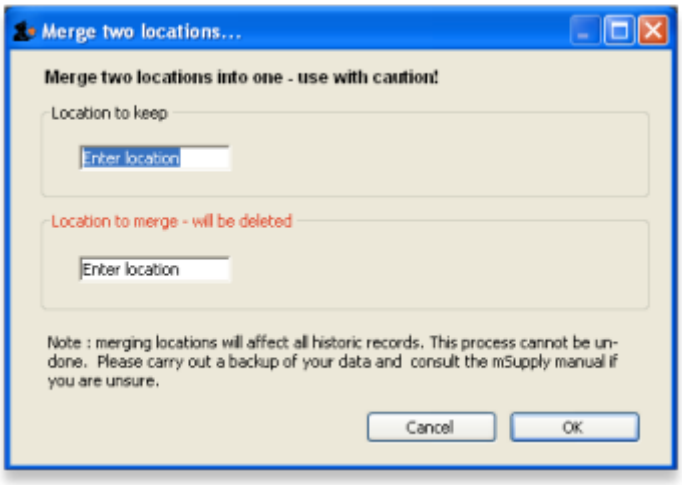
Deleting a location

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:



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 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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