

# 8.07. Stock control methods for your customers (requisitions)

## Stock supply philosophy

mSupply is designed for situations such as a central supply facility within a country or region, or within a hospital where the supply of stock to customers is controlled by the supplying facility. That is, supply of stock to customers is managed by the supplying store.

Regardless of who controls the supply of stock, it needs to be made principally on the basis of information about the customer's anticipated usage. mSupply has several ways of arriving at quantities to be supplied to customers:

- [Responding directly to paper-based customer orders/requisitions](#)
- [The stock history method](#)
- [The imprest method](#)
- [Response requisitions](#)
  - [Full Entry of Request & Requisition Forms by the Supplying Facility](#)
  - (This was developed for Côte d'Ivoire but can be activated for any country on request)

Collectively, these are grouped together as different types of **requisition**. When editing an item, you can view all types of requisition records for that item. More information is available on the [requisitions](#) page (if you can think of better names, please tell us!).

Please note that it is possible for all of these to be done by programme if required - see the [4.05. Programs](#) page for details.

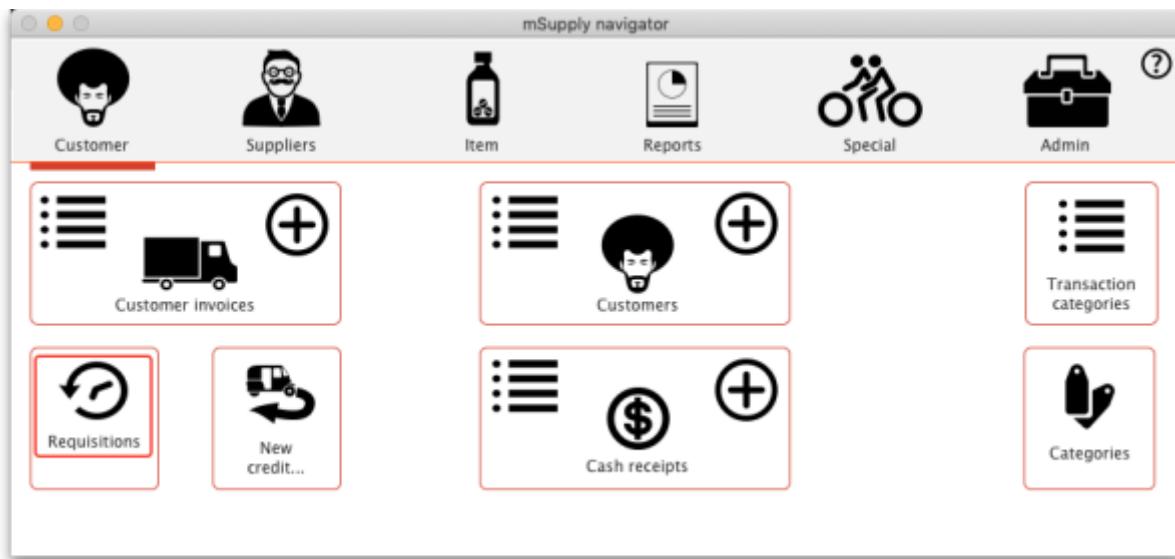
## Defining the list of items to be included in the re-supply

The lists of items that a customer can receive can be defined by master lists.

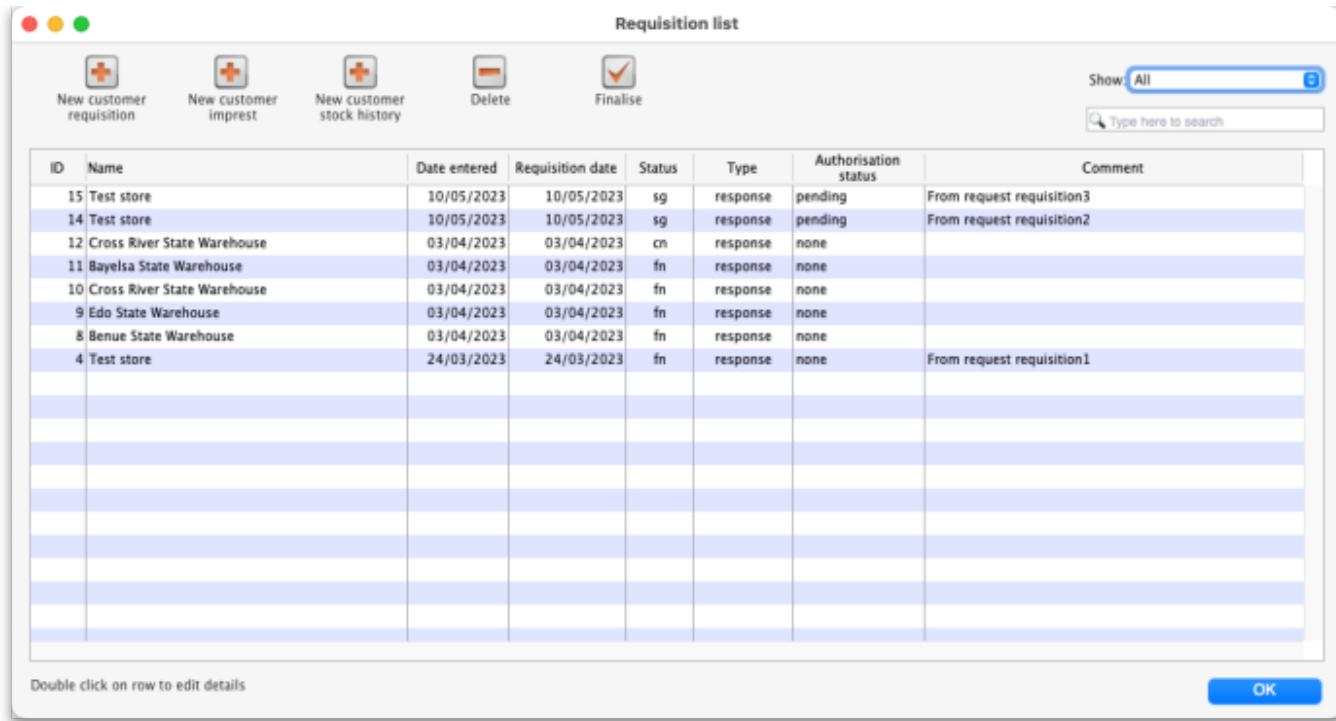
See the [4.04. Item master lists](#) page for information on managing master lists and see the [Assigning a list to a customer](#) section for how to assign a master list to a customer.

## Viewing existing requisitions

Choose *Customer > Show requisitions...* from the menus or click on the Requisitions icon on the Customers tab of the Navigator:



This window will open, showing you a list of the requisitions already in the system:



Columns in the table:

- **ID:** Unique identifier of the requisition.
- **Name:** The name of the customer the requisition has been entered for.
- **Date entered:** The date the requisition was first saved in mSupply.
- **Requisition date:** The date the requisition was given by the customer.
- **Status:** The status of the requisition (*sg*, *cn*, or *fn* normally, web requisitions can also be *wf* or *wp*).
- **Type:** The type of requisition; *sh* for customer stock history, *im* for imprest or *response* for a response requisition.
- **Comment:** The comment entered on the requisition.

## Buttons and fields in the window:

- **Show** drop down list: Use the **Show** drop down list to filter the requisitions by status.
- **Search** field: If the list of requisitions is too long to find a particular requisition you are interested in then you can type something in the **Search** field. If you type anything in the **Search** field, only requisitions with a customer name, requisition number, program or comment that contain what you typed will be displayed.
- **New XX** buttons: To create a new requisition of a particular type (see below), click on the appropriate  button - a new, blank window will open ready for you to enter the requisition.
- **Delete** button: To delete a requisition, click on it in the list to select it then click on the **Delete** button. You will be asked to confirm the deletion before it is carried out. **Please note:** You cannot delete a requisition if a customer invoice has been created from it - mSupply will tell you if this is the case. You can still delete the requisition but you must delete the customer invoice first.
- **Finalise** button: This button allows you to finalise multiple requisitions at once. Simply highlight a selection of requisitions in the list and click on the button. Only Confirmed status requisitions will be finalised; requisitions of any other status will be ignored. After finalisation has been carried out you will be told how many were successfully finalised and how many couldn't be updated because they weren't confirmed or because they were in use by someone else.

To edit a particular requisition, double-click on it in the list. A window will open, populated with the requisition's details; the window will be different depending on the type of requisition (see sections below).

## Stock history method

The theory behind the stock history method (sometimes referred to as the Historical Logistics Method) is based on the assumption that future customer usage will be similar to historic usage.

We can calculate the customer's average usage over time if we know their stock levels at two points in time, and what stock they received from us in that intervening period. We assume that this average usage rate will continue over the coming supply period.

There are three more variables that need to be estimated:

- The number of months in the coming supply period
- The lead time required to supply them (that is, the time lag between the customer doing a stocktake in order to trigger re-supply, and receipt of the stock)
- The number of month's worth of buffer stock they need

With this data, the calculation is like this:

- A = Stock on hand on date1
- B = Amount supplied to customer between date1 and date2
- C = Stock on hand on date2
- D = Quantity used in period between date1 and date2 = A+B-C
- E = number of months between date1 and date2
- F = Usage rate = D/E
- G = Number of months in coming supply period
- H = Number of buffer stock months desired
- I = Lead time (months) between date2 and delivery of stock
- J = Amount to supply = F\*(G+H+I)-C

## Using the stock history method:

- A and C are reported by the customer on date1 and date2 respectively
- B is calculated by mSupply based on mSupply records
- G, H and I are entered by the user
- D, E, F and J are calculated by mSupply

mSupply uses stock issued by the supplying store to arrive at the parameter B.



**Obviously, if the customer has received goods from other sources during the calculation period, B will be inaccurate!**

## First stocktake record

In order to calculate the usage rate, mSupply requires stock on hand figures of the items on the list recorded on an earlier date (date1) = A, above. This becomes the *initial stock history record*.

To create such a record, follow the procedure described below for [entering a stock history](#), noting particularly, the following:

1. Enter the date as the correct date at the time the stocktake was performed.
2. Ignore the figures that automatically appear along each row, except for the *Their current stock* column.
3. Enter their current stock figures in the *Their current stock* column
4. Close the window using the *OK* button.

## Regular use

Once your customer's [first stocktake record](#) has been entered, and a period of time has passed with some customer stock usage, re-supply can be generated on the basis of this usage.

A re-supply using the stock history method needs to be triggered by a customer stocktake. If your customer is set up with [mSupply customer web interface](#), then this process can be initiated by the customer directly, and then completed in the supplying store as described below.

If your customer has not used the mSupply customer web interface to report their stocktake, then their stock data needs to be entered in manually to the supplying store.

## Manual entry of customer stock history

To begin the process, choose *Customer > Show requisitions*, and the list of any historic customer stock histories is displayed along with the other requisition types. The *Status* column lets you know

the status: sg (suggested) or cn (confirmed). The *Type* column shows the stocktake type: im (Imprest), sh (Stock History) or response (Requisition):

Double-clicking on a line will allow you to edit the selected record (provided that you have permission to do so).

With the passage of time, entries on the list will rapidly grow in number, and so mSupply allows you to apply a filter selecting exactly what will be displayed. The default display is for *Suggested*, as these are most likely the ones you will be processing; other options include *All*, *Confirmed*, *Web entries to be processed* - this covers histories submitted via the web customer interface - and *Entered today*

## Add new customer stock history

Click the **New customer stock history** button, to display the *Enter new customer stock history...* window:

Enter new customer stock history...

Name: Black ID: 1165  
 Stock take date: 26/08/13 Days between stocktakes: 0 Previous stock take date: 26/08/13  
 Days to supply: 0 Order Received: 26/08/13  
 Status: nw Stock Type: sh Entered by: Sussol Store: General

Line...	Item code	Item Name	Unit	Our SOH	Their Old SOH	They received	Their current	Their usage	Their daily usage	Suggested quan	Actual quan
1	CAFdr	Chloramphenicol 0.5% eye drop	each	4923	5	15	0	20	5	150	150
2	CAFpoint	Chloramphenicol 1% eye oint	each	73	4	0	0	4	1	30	30
3	Salinh	Salbutamol 100mcg/puff aerosol	each	3198	6	12	0	18	4.5	135	135
4	Salneb5	Salbutamol 5mg neb (neb vial)	each	31225	3	12	0	15	3.75	113	113

Save Sort Order

Confirm Cancel OK & Next OK

Enter the first few letters of customer's name in the *Name* field, then press the *Tab* key to call up the list of customers' names from which the required customer may be chosen. In this example, our customer is Medical Ward.

Once you have chosen a customer, the window is populated with the items that are members of any item lists that:

- Have been assigned to that customer (both master lists and local lists)
- and that have the "Stock history" check box checked for that list

You are presented with this window:

Enter new customer stock history...

Name: Medical Ward ID: 1172  
 Stock take date: 30/08/13 Days between stocktakes: 4 Previous stock take date: 26/08/13  
 Days to supply: 30 Order Received: 30/08/13  
 Status: sg Stock Type: sh Entered by: Sussol Store: General

Line...	Item code	Item Name	Unit	Our SOH	Their Old SOH	They received	Their current	Their usage	Their daily usage	Suggested quan	Actual quan
1	CAFdr	Chloramphenicol 0.5% eye drop	each	4923	5	15	0	20	5	150	150
2	CAFpoint	Chloramphenicol 1% eye oint	each	73	4	0	0	4	1	30	30
3	Salinh	Salbutamol 100mcg/puff aerosol	each	3198	6	12	0	18	4.5	135	135
4	Salneb5	Salbutamol 5mg neb (neb vial)	each	31225	3	12	0	15	3.75	113	113

## Fill in customer stock history

The **Our SOH** column is the stock on hand in our own store, while figures in all subsequent columns are the customer's data.

The first entry to be made is in the *Days to supply* field, where the appropriate figure should be

entered - e.g. 30 if the ordering frequency is monthly, 90 if it is quarterly, etc.

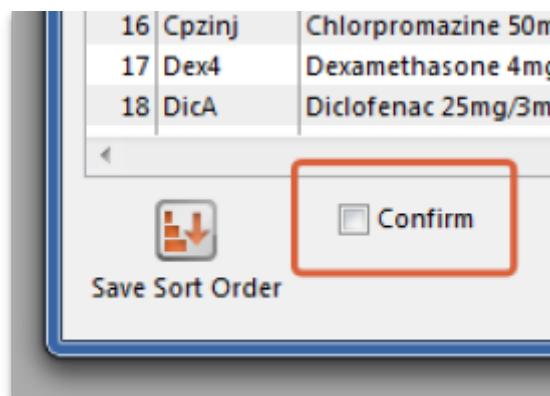
You will see in our example that

- 29 days have passed since the last stocktake
- The column headed *Their old SOH* shows their stock on hand at the last stocktake
- The column headed *They received* shows the amounts supplied when their last order was processed
- The column headed *Their current SOH* is the column where the customer's current stock figures (as provided by the customer) are entered. But note that, just as with the imprest method, if the name you entered in the Name textbox is actually another store then this column will be automatically filled in with the current stock in the store - saving you a lot of time (you only need to edit those figures where the stock in mSupply does not actually match what's on the store's shelves).
- As figures are entered, mSupply® calculates a suggested quantity to order, and this appears in the *Suggested quan* column. These suggested quantities should be reviewed, and any adjustment entered in the *Actual quan* column to reflect, for example, pack sizes and to ensure that actual quantities match exact multiples of the pack size.

After entries have been made in the column *Their current SOH* the window will look like this:

Lin...	Item code	Item Name	Unit	Our SOH	Their Old S...	They receiv...	Their current...	Their usage	Their daily ...	Suggested quan	Actual quan
1	CAFdr	Chloramphenicol 0.5% eye drop	each	4923	5	15	2	18	0.62	17	17
2	CAFpoint	Chloramphenicol 1% eye oint	each	73	4	0	4	0	0	0	0
3	Salinh	Salbutamol 100mcg/puff aerosol	each	3198	6	12	1	17	0.59	17	17
4	Salneb5	Salbutamol 5mg neb (neb vial)	each	31225	3	12	3	12	0.41	9	9
5	Haemoint	Antihaemorrhoid 30g oint	each	1017	11	20	7	24	0.83	18	18
6	Clopes	Clotrimazole 100mg pessary (6 tabs)	each	11871	4	10	4	10	0.34	6	6
7	Glycup	Glycerol 2.8g suppos	each	556	4	12	2	14	0.48	12	12
8	Parsup2	Paracetamol 250mg suppos	each	4780	9	40	14	35	1.21	22	22
9	Adr1	Adrenaline (Epinephrine) 1mg/ml a	each	1977	16	20	8	28	0.97	21	21
10	Amininj	Aminophylline 250mg/10ml amp	each	2871	5	10	6	15	0.52	16	16

All that remains is to make adjustments in the *Actual quantities* column, to reflect appropriate pack sizes.

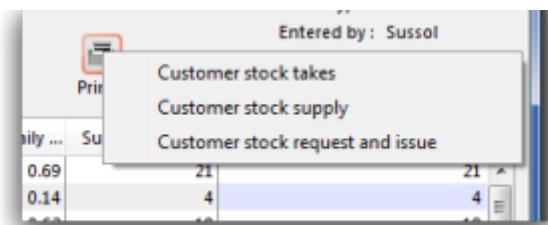


Once you are satisfied, the *Confirm* box (bottom left corner) should be checked, the *Create customer*

invoice button should be clicked, and you will proceed to [creating the customer invoice](#), which is the same for all requisition types.

## Printing forms

Clicking the **Print** button provides several options for printing forms:



- Customer stock takes:** This form you can give to the customer (for example, if they are a ward in a hospital that has mSupply running in its pharmacy store), and they can fill out the quantities they have on hand, and then values are entered into mSupply.
- Customer stock supply:** This form provides information to give to the customer about the quantity they will be supplied.
- Customer stock request and issue:** This form provides information for the customer comparing what was requested with what was actually supplied.

The second two reports are for use after you have entered quantities to be supplied into the customer stock history window.

## Imprest method

The Imprest method is probably the most commonly understood and used method of stock control, and has been used for many years, probably since before the invention of the computer!

As can be seen by the discussion below, the Imprest method is a simplification of the Stock History method discussed above. We argue that the Stock History method is superior to the Imprest method because it dynamically calculates a number of values based on live customer consumption data, rather than relying on some historic calculation that is likely out of date. It is quite understandable why the Imprest method is the standard approach in hospitals - because it was developed before the computer age, and it's hard to change old habits. However, now that you have mSupply ready to do the number crunching, we suggest that you seriously consider using the Stock History



method instead of the Imprest method...



With the Imprest method, the quantity to be ordered is the quantity necessary to restore the stock on hand to a pre-agreed fixed quantity. This imprest stocktake must be carried out on a regular fixed

frequency (daily, weekly, fortnightly, monthly, whatever.) This pre-agreed fixed quantity is arrived at on the basis of a number of simplifications to the stock history method:

- ~~A = Stock on hand on date1~~
- ~~B = Amount supplied to customer between date1 and date2~~
- ~~C = Stock on hand on date2~~ **THE ONLY INFORMATION COLLECTED**
- ~~D = Quantity used in period between date1 and date2.~~
- ~~E = number of days between date1 and date2~~
- ~~F = Usage rate PRE-DETERMINED AND FIXED~~
- ~~G = Number of days in coming supply period PRE-DETERMINED AND FIXED~~
- ~~H = Number of buffer stock days desired PRE-DETERMINED AND FIXED~~
- ~~I = Lead time (days) between date2 and delivery of stock = 0~~

The **Imprest Quantity** =  $F*(G+H+I)$

- $J = \text{Amount to supply} = \text{Imprest Quantity} - C$

If stocktakes are not taken at the pre-determined frequency, and particularly if they are missed, the system will fail. It is a fairly rigid system, in that once set, F, G and H must remain constant. It is frequently used for supplying wards in a hospital setting, where operations are generally more rigidly controlled.

## Using the imprest system

The *imprest system* operates in this way:

- The stock of a particular item which a customer (usually a clinic, ward or department) should hold is agreed. This is the **Imprest quantity**.
- A stocktake is carried out at the facility, giving us a **Stock on hand**.
- The amount to be ordered by the facility is calculated as:

**Order quantity = Imprest quantity - Stock on hand**

For example, take the case of a rural clinic which receives a monthly order from a central store:

- It is agreed that the clinic, when fully stocked, should hold 10,000 paracetamol 500mg tablets. This is the **Imprest quantity**.
- At the end of a particular month, a stocktake shows that the **Stock on hand** is 2,400 paracetamol tablets.
- To restore the stock of paracetamol tablets to the Imprest quantity, the amount to be ordered is calculated as:

**Order quantity = 10,000 (Imprest quantity) minus 2,400 (Stock on hand) = 7,600**

This feature caters for mSupply users who operate an imprest system, where a central store supplies goods on a *regular basis* to a number of customers, who may/may not be mSupply users themselves. We advise that the customers should be provided with a list - perhaps for a 12 month period - of the dates on which they should perform a stock check and submit the figures, ideally on a customised form, to the central store according to the prearranged schedule. It is important to note that the customer needs to supply only the current stock on hand figures, a relatively simple task; customers are not required to submit details of what they perceive to be order quantities.

It should be remembered that the items to be included in the list and their imprest quantities must be defined for each customer individually. The imprest quantity defined for a particular customer is unique to that customer, and has no bearing on imprest quantities defined for other customers.

## Processing the order from the customer

The central store, on receiving the stock on hand details from the customer, selects from the Navigator or Customer menu the item *Show requisitions*, which displays this window:

If you are working with a customer for whom no imprest list has been defined, clicking on the *New customer imprest* will display the *Enter new imprest* window, where appropriate entries are made.

Enter new imprest...

Name: Black  
Stock take date: 26/08/13  
Order Received: 26/08/13

New line Delete line(s) Create Customer Invoice Revert to suggested quan Print

Lin...	Item code	Item Name	Unit	Our SOH	Their Old S...	Imprest q...	Their curren...	Suggested quan	Actual quan
4									

Save Sort Order

Confirm OK

Continuing to use Highland Health Centre as our example (for whom we have created an imprest list), double clicking on that entry displays this new window on which the imprest list appears:

Edit imprest...

Name: Highland Health Centre HC4  
Stock take date: 26/08/13  
Order Received: 26/08/13

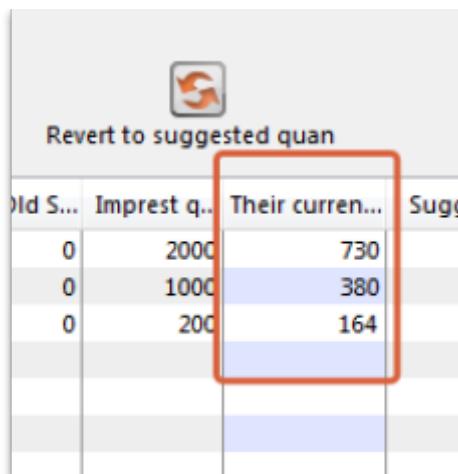
New line Delete line(s) Create Customer Invoice Revert to suggested quan Print

Lin...	Item code	Item Name	Unit	Our SOH	Their Old S...	Imprest q...	Their curren...	Suggested quan	Actual quan
1	Ibu2	Ibuprofen 200mg tab	each	2336	0	2000	0	2000	2000
2	Pred5	Prednisolone 5mg tab	each	540	0	1000	0	1000	1000
3	Hal5	Haloperidol 5mg tab	each	21396	0	200	0	36	200

Save Sort Order

Confirm OK

You will note that there are no entries in the *Their current stock* column, and the figures supplied by the customer should be entered; click on each line, and after a second or two the zero appearing in that column can be edited with the required figures.

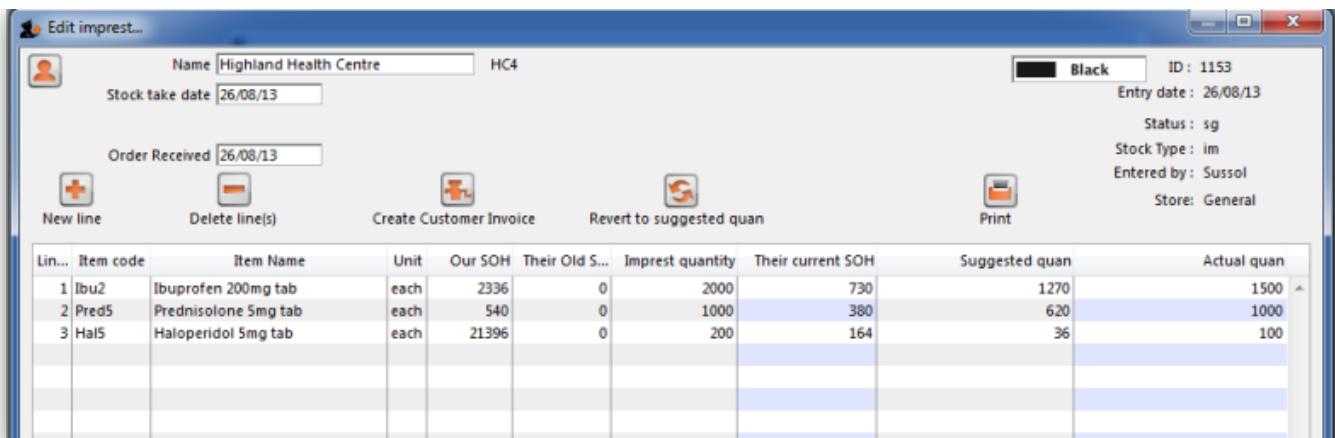


Old S...	Imprest q...	Their current...	Sugg...
0	2000	730	
0	1000	380	
0	200	164	



There is an important exception here: if the name you entered in the Name textbox is actually [another store](#) in mSupply then the *Their current stock* column will be automatically filled in with the stock in the store. Very useful time saving feature!

Simultaneously, mSupply completes the next two columns, *Suggested Quantity*, and *Actual Quantity*. The *Actual Quantity* entries may be edited to reflect, for example, pack sizes, to ensure that actual quantities match exact multiples of the pack size. After editing, the window may appear like this:



Lin...	Item code	Item Name	Unit	Our SOH	Their Old S...	Imprest quantity	Their current SOH	Suggested quan	Actual quan
1	Ibu2	Ibuprofen 200mg tab	each	2336	0	2000	730	1270	1500
2	Pred5	Prednisolone 5mg tab	each	540	0	1000	380	620	1000
3	Hals5	Haloperidol 5mg tab	each	21396	0	200	164	36	100

Should you have any reason to identify one or more lines, this may be performed by highlighting the line(s), and changing the colour of the font. Black is the default, but other options may be selected from the drop-down list:



Selecting 5 or more lines brings up an alert requiring confirmation of your intention.

Once you are satisfied, the *Create customer invoice* button should be clicked, and you will proceed to [creating the customer invoice](#), which is the same for all requisition types.

## Response (internal) requisitions

These work in much the same way as [customer stock histories](#), but with some notable differences:

- Most importantly, you don't need to create it! A response requisition will be automatically created in your (supplying) store as a result of a request requisition from an mSupply mobile (see [here](#) for details) or an [internal order](#) from another store (e.g. on another mSupply 'desktop' site). In both of these cases, the customer is another store in your mSupply system and most of the data will have been entered already by them. You can create one manually if you need to though, as we'll describe below.
- It doesn't attempt to calculate usage or suggest an amount to supply - this data is expected to have come from the customer.
- It is possible to generate multiple customer invoices from a single response requisition e.g. if not all of the requested stock is available at the time the requisition is entered, this allows for an initial customer invoice to be sent to partially fulfil the request and another to be sent at a later date when more stock becomes available.
- It provides a more accurate way to track demand vs supply.

## Entering a requisition

To begin the process, choose *Customer > Show requisitions*, and the list of any historic response requisitions is displayed along with the other requisition types. A *Status* of *sg* (suggested) means that no customer invoices have been created yet - as soon as the first customer invoice is created, the status will go to *cn* (confirmed):

Either double-click on an existing requisition to edit it, or click the **New customer requisition** button to create a new one. The example below is for a manually entered requisition:

If this is a manually entered requisition:

- Enter/update the customer *Name* in the same way as a customer stock history (i.e. enter the first key characters and hit the **Tab** key to find matches), but note that changing the customer will invalidate any other data that you've already entered.
- If necessary, update the *Requisition date*, *Order received* and *Required date* - these will default to the current date.

- Select a Category if required (see below for setting these up).
- Use either the **New line** button to manually add a single item, or **Add from master list** to add all items from a [master list](#).



When you click on the **Add from master list** button you will see a list of all the master lists assigned to your store and your customer (see the [4.04. Item master lists](#) page for details on master lists and how to assign them). Whichever master lists you choose to add items from, only the items visible in your *customer's* store will be added to the requisition. This will avoid the situation where you send a store an item that they didn't previously have visible to them!

- If the customer is another store, mSupply already knows their current stock, otherwise adding a single item will give you the opportunity to enter the customer's current stock for that item. Either way, the cursor will go into the *Customer current stock on hand* cell, which will already be filled in.
- If adding from a master list, the cursor will go into the first new item's *Customer current stock on hand* cell, but you'll then have to type in a value (unless the customer is another store, in which case the value will have been filled in for you).
- Either way, hitting the **Tab** key will move the cursor into the *Customer requested* cell. Type in a value and this will be automatically copied to the *Remaining to supply* cell and also the *Supply this invoice* cell, which will now have the cursor.
- Amend the *Supply this invoice* value if necessary and optionally enter a *Comment* (e.g. if the amount supplied is less than requested).
- If necessary, use the **Delete line(s)** button to remove selected item lines.

If the requisition has come in automatically from another store (e.g. mobile or an internal order):

- The customer *Name* is already filled in and cannot be changed.
- The *Customer current stock on hand* and *Customer requested* columns are already filled in and cannot be changed i.e. only the *Supply this invoice* and *Comment* columns are editable.
- If necessary, you can still add and/or delete item lines manually.

If the requisition has a lot of item lines, you can filter them by typing into the *Filter items* field. If you do that, only the lines with items beginning with the letters you have typed in the field will be displayed. The text X/Y will be displayed after the search field to indicate that X lines of the total Y lines in the requisition are currently being displayed (2/8 in the following screenshot):

The screenshot shows the 'Edit requisition...' window with the following details:

- Header:** Name: Cactus Hospital, Requisition date: 15/02/18, Order Received: 15/02/18, Their ref: 678, CAC: Black, ID: 2, Status: sg, Type: response, Entry date: 15/02/18, Entered by: Admin, Store: Central Medical.
- Buttons:** New line, Add from master list, Delete line(s), Filter items (with a value of 4), Create customer invoice, Print.
- Data Entry:** Data entry, Invoices created, Log.
- Table:** A grid showing item details. The columns are: Line, Item code, Item name, Unit, Our stock on hand, Customer current stock on hand, Customer requested, Already issued, Remaining to supply, Supply this invoice, and Comment. Two rows are visible:
  - Line 1: Item code 030453, Item name Amoxicillin 250mg tabs, Unit Tab, Our stock on hand 2,257,600, Customer current stock on hand 265, Customer requested 200, Already issued 0, Remaining to supply 200, Supply this invoice 150, Comment partial supply.
  - Line 2: Item code 030062, Item name Acetylsalicylic Acid 300mg tabs, Unit Tabl., Our stock on hand 5,000, Customer current stock on hand 761, Customer requested 400, Already issued 0, Remaining to supply 400, Supply this invoice 300, Comment partial supply.
- Buttons at the bottom:** Save Sort order, Finalise (unchecked), Cancel, OK & Next, OK.

Note that, while a filter is active, some of the other buttons are disabled e.g. you can't create an invoice or save the sort order unless all lines are visible. To make them active again, simply delete any text in the *Filter items* textbox (which will remove the filter).

Once you are satisfied, the *Create customer invoice* button should be clicked, and you will proceed to [creating the customer invoice](#). The *Supply this invoice* values will be used to populate the new customer invoice and the requisition status will change to confirmed.

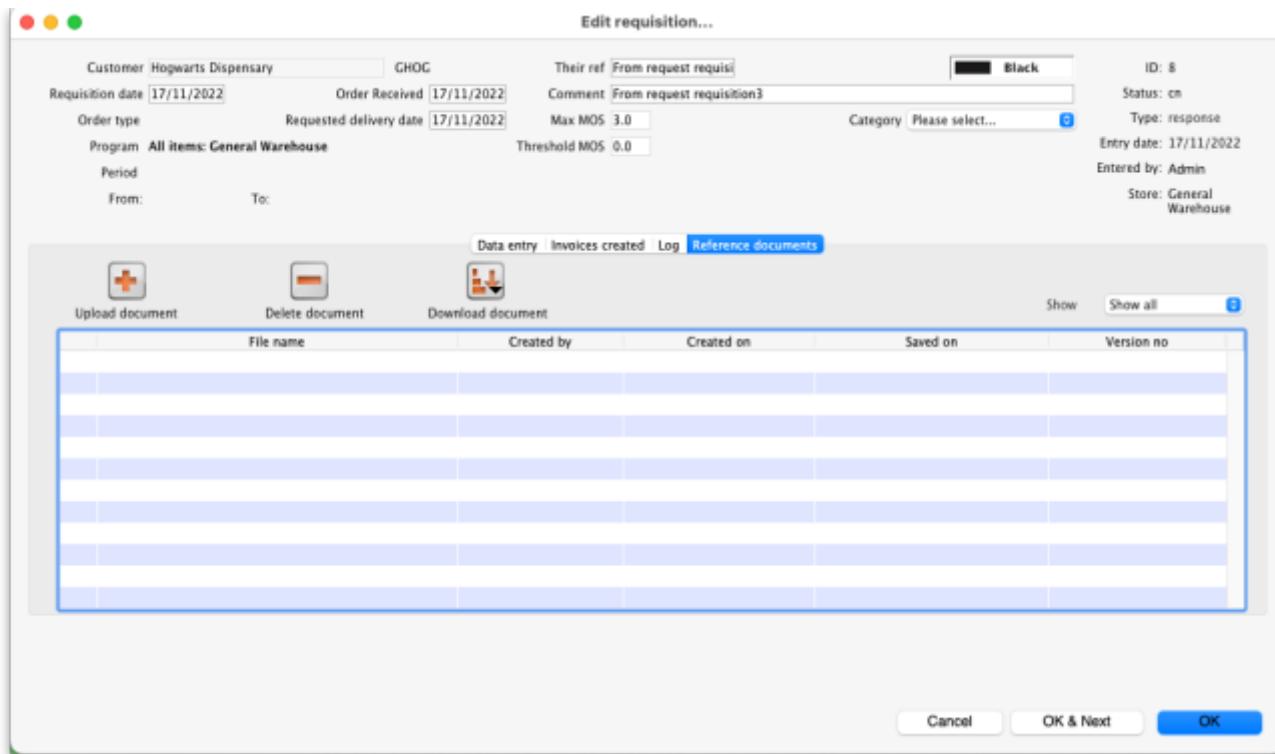
### Finalise Checkbox

Clicking on the "Finalise Checkbox" finalises the requisition form. After this no changes can be made.

Finalised requisitions will no longer appear on reports that show "Remaining Quantities" as pending. Finalised requisitions are be considered as fully processed.

### Reference documents

The Reference documents tab on a requisition enables you to save documents and other files relating to the requisition. The tab looks like this:

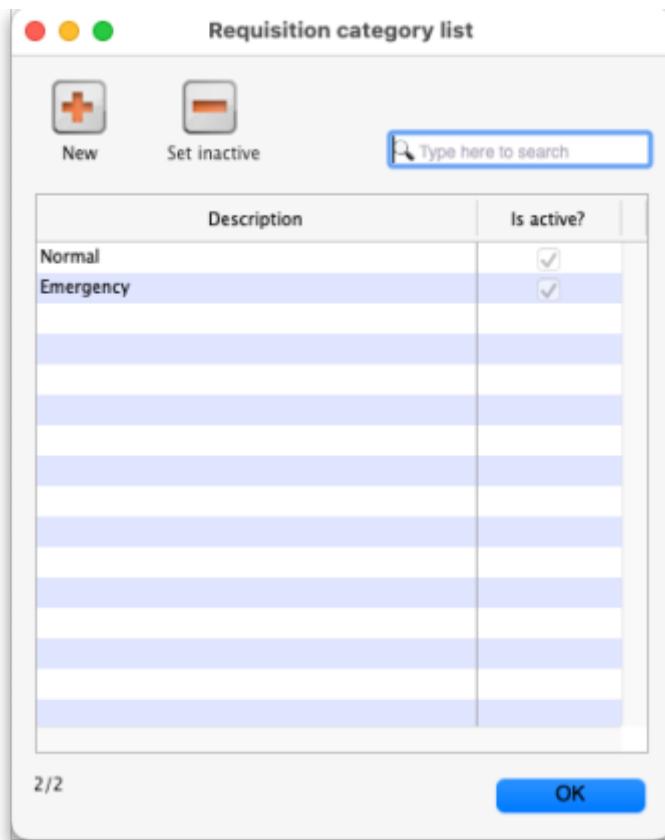


The table shows you all the files currently uploaded to this requisition.

- **Upload document button:** Click this to upload a document to the requisition. This will open a window enabling you to search for and select the file on your computer. After you've selected it, click on the **Open** button to upload it. If you upload a file with the same name as one already uploaded, mSupply will upload it as a new version of the already uploaded file.
- **Delete document button:** Select a file in the table by clicking on it and click this button to remove it from the requisition.
- **Download document button:** When you click on this button you are presented with two options:
  - **Download:** this will download the file to a location you select on your computer.
  - **Download and open:** this will download the file to a location you select on your computer and then attempt to open it using the default application on your computer for that file type. If there is no application associated with the file type on your computer then mSupply will tell you that the file could not be opened.

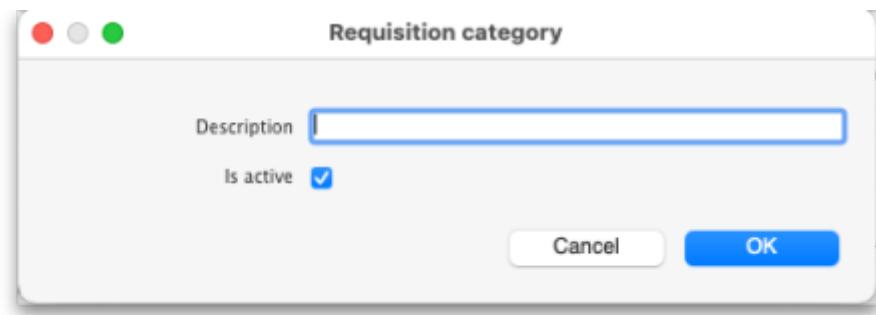
## Requisition categories

You can assign requisitions to a category for reporting. To setup the categories that users can select from, choose *Special > Requisition categories* from the menus. This window will open:



This window shows a list of all the requisition categories currently setup. The ones with a tick in the *Is active* column are the ones that can be selected on a requisition. If there is a long list then you can type in the *Type here to search* field to show only categories that contain what you type.

To add a new category, click on the **New** button. This window opens:



Enter a **Description**, click the **OK** button and the new category is added to the list.

To edit a category, double-click on it in the list and the same window as creating a new one will open but populated with the selected category's settings. Edit the category's name or the active status and click the **OK** button to save your changes.

You can quickly set a category as inactive (which means that it will no longer appear in the drop down list for selection on a requisition) by selecting it in the list and clicking on the **Set inactive** button.

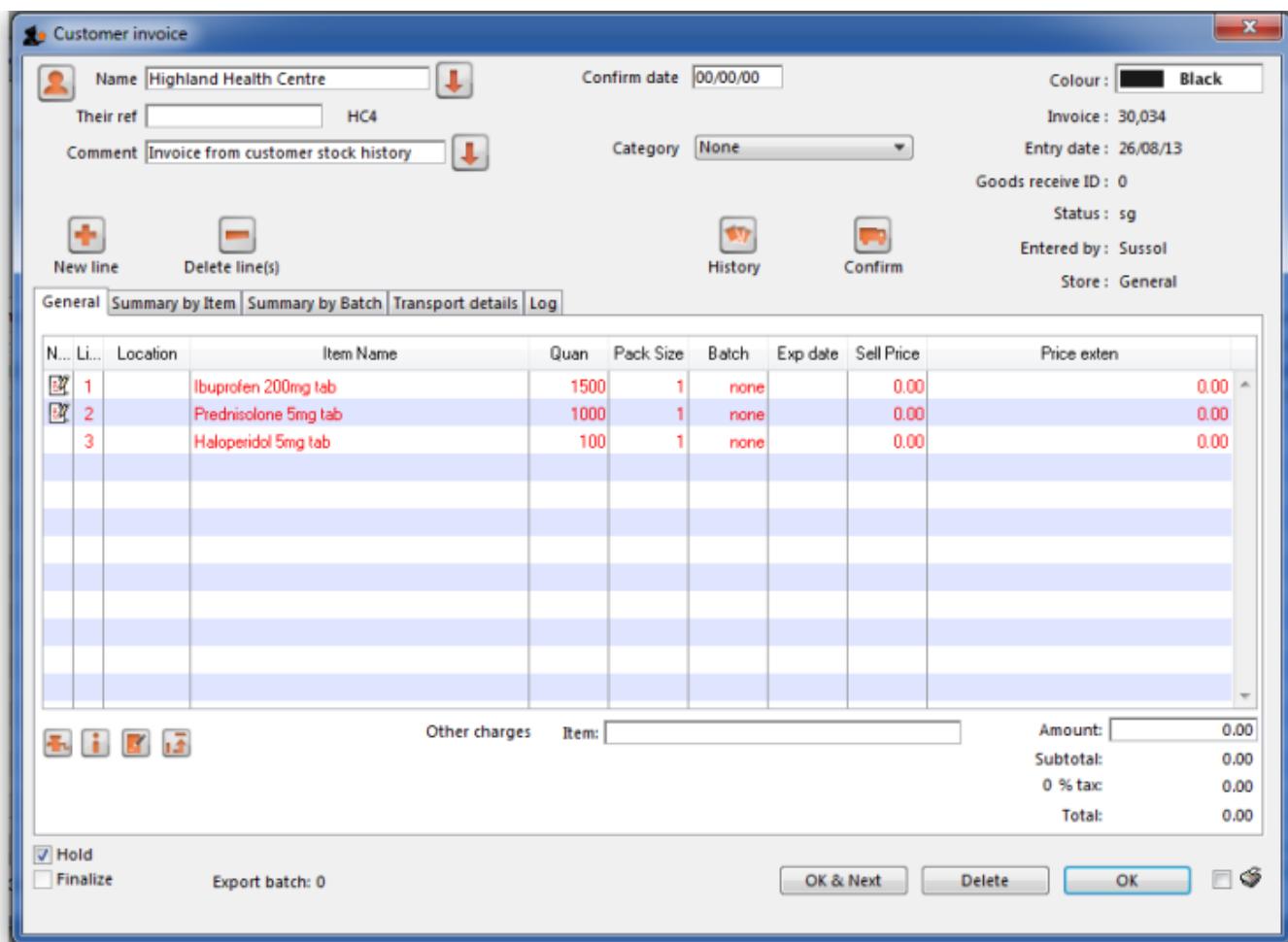
## Requisition status

Summarising from above, the status of the requisition has the following meanings:

- Status = sg (suggested): No customer invoices have been created yet
- Status = cn (confirmed): At least one customer invoice has been created from the requisition
- Status = fn (finalised): No changes can be made to the requisition. It will no longer appear on reports that show “Remaining Quantities” as pending. Finalised requisitions are be considered as fully processed.

## Creating the customer invoice

Regardless of the requisition type, when the *Create customer invoice* button has been clicked, and the following window appears:



The screenshot shows the 'Customer invoice' window. At the top, there are fields for 'Name' (Highland Health Centre), 'Confirm date' (00/00/00), 'Colour' (Black), 'Invoice' (30,034), 'Entry date' (26/08/13), 'Goods receive ID' (0), 'Status' (sg), 'Entered by' (Sussol), and 'Store' (General). Below these are buttons for 'New line' (with a plus sign icon), 'Delete line(s)' (with a minus sign icon), 'History' (with a history icon), and 'Confirm' (with a checkmark icon). A navigation bar at the bottom includes 'General', 'Summary by Item', 'Summary by Batch', 'Transport details', and 'Log'. The main area is a grid table with columns: N... Li..., Location, Item Name, Quan, Pack Size, Batch, Exp date, Sell Price, and Price exten. The grid contains three rows of data: 1. Ibuprofen 200mg tab (1500, 1, none, 0.00, 0.00), 2. Prednisolone 5mg tab (1000, 1, none, 0.00, 0.00), and 3. Haloperidol 5mg tab (100, 1, none, 0.00, 0.00). At the bottom of the grid, there are buttons for 'Other charges' (with a plus sign icon), 'Item' (input field), 'Amount' (input field, 0.00), 'Subtotal' (0.00), '0 % tax' (0.00), and 'Total' (0.00). At the very bottom, there are checkboxes for 'Hold' (checked) and 'Finalize' (unchecked), an 'Export batch: 0' field, and buttons for 'OK & Next', 'Delete', 'OK', and a close button.

If the customer invoice has been generated from an original [internal order](#) in another store, the customer invoice window will have a red **Stock transfer** label.

Similarly, if the customer invoice has been generated from an original [internal requisition](#) in another store, the customer



invoice window will have a red **Internal requisition** label.

All the entries appear as (red) placeholder lines. The operator needs to allocate stock to each of these placeholder lines before a pick list can be printed. The operator can either [manually allocate stock](#) or by using the [Grinder button](#).

## Manually allocate stock

The next step is to double click on each entry and allocate stock. In the example, the 1st item on the invoice, *Ibuprofen 200mg tablets*, is being processed; there are several batches in our store, some of which have reached their expiry; although line 4 indicates there are sufficient to meet this order in the store, you will note that only 106 tablets are available, so we select line 6.

edit line

Item	Ibuprofen 200mg tab	Ibu2										
Line	6											
Quan	1500	of 2500										
Pack	1	each										
Bulk/Outer pack size		0										
<a href="#">Add Place holder</a>		<a href="#">Re-lookup Sell Price</a>										
Li...	Issue	Available	Tot in store	Pack	Hold	Batch	Exdate	Supplier	Location	Cost Price	Sell price	Status
2	0	600	600	1	<input type="checkbox"/>	IDIH0280	30/11/10	ida	TAB	0.01	0.01	
3	0	140	140	1	<input type="checkbox"/>	IDIH0280	30/11/10	ida	TAB	0.01	0.01	
4	0	106.0000	1596	1	<input type="checkbox"/>	IDIH0280	29/11/16	ida	TAB	0.01	0.01	
5	0	1000	1000	1	<input type="checkbox"/>	G366	31/12/16	invad	AAA	0.00	0.00	
6	0	2500	4000	1	<input type="checkbox"/>	DP8081	31/01/17	ida	AAA	0.01	0.01	

Total quantity issued 2000  
Total quantity available 4346

[Cancel](#) [OK](#) [OK & Next](#)

Clicking on *OK & Next* displays the next item on the invoice, *Prednisolone 5mg tablets*.

edit line

Item	Prednisolone 5mg tab	 Pred5										
Line	1											
Quan	1000	of 0										
Pack	1 each	Bulk/Outer pack size 0										
<input type="button" value="Add Place holder"/> <input type="button" value="Re-distribute all"/> <input type="button" value="Re-lookup Sell Price"/>												
Li...	Issue	Available	Tot in store	Pack	Hold	Batch	Exdate	Supplier	Location	Cost Price	Sell price	Status
1	1000	0	0	1	<input type="checkbox"/>	none				0.00	0.00	
2	0	540	540	1	<input type="checkbox"/>	WE201	31/12/16	invad	AAA	0.00	0.00	
Total quantity issued 1000			Total quantity available 540									
<input type="button" value="Cancel"/> <input type="button" value="OK"/> <input type="button" value="OK &amp; Next"/>												

Click *Redistribute all*, which is the normal procedure. There is only one batch available, but there is insufficient stock to meet the order, so mSupply® creates a placeholder line for the outstanding amount.



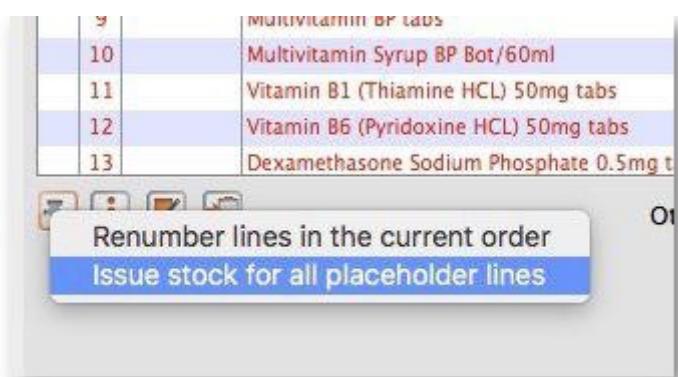
When the final item has been processed, clicking on *OK* will display the completed invoice.

**Customer invoice**

	Name: Highland Health Centre	<input type="button" value=""/>	Confirm date: 00/00/00	Colour: <input checked="" type="checkbox"/> Black					
Their ref:	HC4			Invoice: 30,034					
Comment:	Invoice from customer stock history	<input type="button" value=""/>	Category: None	Entry date: 26/08/13					
				Goods receive ID: 0					
				Status: sg Entered by: Sussol Store: General					
<input type="button" value="General"/> <input type="button" value="Summary by Item"/> <input type="button" value="Summary by Batch"/> <input type="button" value="Transport details"/> <input type="button" value="Log"/>									
N... Li...	Location	Item Name	Quan	Pack Size	Batch	Exp date	Sell Price	Price exten	
	1	Ibuprofen 200mg tab	1500	1	none		0.00	0.00	
	2	Prednisolone 5mg tab	460	1	none		0.00	0.00	
	2 AAA	Ibuprofen 200mg tab	1500	1	DP8081	31/01/17	0.01	15.00	
	3 AAA	Prednisolone 5mg tab	540	1	WE201	31/12/16	0.00	0.00	
	3 TAB	Haloperidol 5mg tab	100	1	7MK29	31/10/10	0.06	6.00	
<input type="button" value=""/> <input type="button" value=""/> <input type="button" value=""/> <input type="button" value=""/>					Other charges	Item: <input type="text"/>	Amount: <input type="text"/> 0.00		
							Subtotal: 21.00		
							0 % tax: 0.00		
							Total: 21.00		
<input checked="" type="checkbox"/> Hold <input type="checkbox"/> Finalize					Export batch: 0	<input type="button" value="OK &amp; Next"/>	<input type="button" value="Delete"/>	<input type="button" value="OK"/>	<input type="button" value=""/>

## The Grinder button

If your store is organised well, particularly by use of [location priorities](#), you can automatically allocate stock to all placeholder lines by use of the grinder icon at the bottom left.



Make sure the *Hold* checkbox is not checked, and at this stage the invoice may be confirmed.



If the customer invoice is for another store (i.e. if it has a red **Stock transfer** label or red **Internal requisition** label), it must be **finalised** in order to transfer the goods to the other

store:



- For a stock transfer, this will generate a supplier invoice in the other store - see [Transferring goods to another store](#)
- For an internal requisition, this will generate a goods received record in the other store - see [Receiving goods from another store](#)

## After creating a customer invoice

- The *Already issued* column will be updated to reflect any non-placeholder lines (i.e. those not coloured red in the customer invoice) in any customer invoices which have been generated from the requisition regardless of the customer invoice status (i.e. it doesn't have to be confirmed).
- The *Remaining to supply* column will be reduced by the amount already issued, and *Supply this invoice* will be updated accordingly:

**Edit requisition...**

Name: Cactus Hospital		CAC	Their ref: 678	Black	ID: 2					
Requisition date:	15/02/18	Comment:	Status: on							
Order Received:	15/02/18		Type: response	Entry date: 15/02/18						
			Entered by: Admin	Store: Central Medical						
<input type="button" value="New line"/> <input type="button" value="Add from master list"/> <input type="button" value="Delete line(s)"/> <input type="button" value="Filter items"/> <input type="text" value="Filter by item name or code"/>										
<input type="button" value="Create customer invoice"/> <input type="button" value="Print"/>										
<a href="#">Data entry</a> <a href="#">Invoices created</a> <a href="#">Log</a>										
Li...	Item code	Item name	Unit	Our stock on hand	Customer current stock on hand	Customer requested	Already issued	Remaining to supply	Supply this invoice	Comment
1	030453	Amoxicillin 250mg tabs	Tab	2,257,600	265	200	150	50	50	partial supply
2	038423	Salbutamol scored 2mg tabs	Tab	17,000	469	300	300	0	0	
3	042744	Diazepam Injection 5mg/ml Amp/2ml	Am...	1,450	5	30	30	0	0	
4	850804	Oral Rehydration Solution Reso Ma...	Sac...	15,000	79	100	100	0	0	
5	030062	Acetylsalicylic Acid 300mg tabs	Tabl...	5,000	761	400	300	100	100	partial supply
6	201116	Bandage W.O.W. 15cm wide x 5m roll	Roll	4,332	184	200	200	0	0	
7	031661	Captopril scored 25mg tabs	Tabl...	47,500	77	200	200	0	0	
8	037020	Paracetamol 500mg tabs	Tabl...	81,000	980	500	500	0	0	
<input type="button" value="Save Sort order"/> <input type="checkbox" value="Finalise"/> <input type="button" value="Cancel"/> <input type="button" value="OK &amp; Next"/> <input type="button" value="OK"/>										

In the example above, a single customer invoice has been created to supply most of the requested stock, apart from two items. You can then create a second customer invoice to supply the outstanding amounts.

Details of the related customer invoices can be seen in the **Invoices created** tab:

Last update:

2023/05/11 issuing\_goods:stock\_control\_methods https://docs.msupply.org.nz/issuing\_goods:stock\_control\_methods?rev=1683806518  
12:01

Edit requisition...

Name	Cactus Hospital	CAC	Their ref	678	Black	ID : 2
Requisition date	15/02/18	Comment	Status : on			
Order Received	15/02/18		Type : response	Entry date : 15/02/18		
			Entered by : Admin	Store: Central Medical		

Data entry Invoices created Log

Invoice number	Invoice confirmed	Invoice status	Item code	Item Name	Number of packs	Pack Size	Total quantity	Batch	Expiry date
27	06/06/2018	cn	030062	Acetylsalicylic Acid 300mg tabs	0	1,000	300	cl7878	30/04/2020
28		sg	030062	Acetylsalicylic Acid 300mg tabs	0	1,000	100	cl7878	30/04/2020
27	06/06/2018	cn	030453	Amoxicillin 250mg tabs	0	1,000	150	B2929	31/12/2020
28		sg	030453	Amoxicillin 250mg tabs	0	1,000	50	B2929	31/12/2020
27	06/06/2018	cn	201116	Bandage W.O.W. 15cm wide x 5m roll	3	12	36		
27	06/06/2018	cn	201116	Bandage W.O.W. 15cm wide x 5m roll	13	12	164	D456486	30/04/2021
27	06/06/2018	cn	031661	Captopril scored 25mg tabs	0	500	200	C167562	30/07/2022
27	06/06/2018	cn	042744	Diazepam Injection 5mg/ml Amp/2ml	1	25	30	sdfj28	31/03/2020
27	06/06/2018	cn	850804	Oral Rehydration Solution Reso Mal 42g sachet for 1 litre/ CAR-100	1	100	100	6541D47	
27	06/06/2018	cn	037020	Paracetamol 500mg tabs	0	1,000	500	D56756	
27	06/06/2018	cn	038423	Salbutamol scored 2mg tabs	0	1,000	300	56D7678	31/03/2022

Cancel OK & Next OK

Double-clicking on any of these lines will open the corresponding customer invoice.

## Danger of failing to re-supply in time



Obviously, regardless of the calculation method employed, if the supplying store fails to re-supply the customer within the supply period (G) then the customer will start eating into the buffer stock and is in danger or running out of stock!

Previous: [8.06. Box management](#) | | Next: [8.08. Customer budgets](#)

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Last update: **2023/05/11 12:01**

