

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

Both the imprest and stock history methods require a stocktake of the customer's stock. The items to be included in the customer's stocktake is defined in lists which are specific to each customer, and must therefore be individually compiled, however, they can be based on [master lists](#).



Master lists and how to create and assign customers to it is covered [elsewhere](#).

Lists are defined for each customer in the *Edit Customer* window. Click on *Item lists* in the side bar menu.

General

Invoices

Backorders

Quotes

Notes

Contacts

Group

Purchase orders

Web log-in

Item lists

Stock history

Store

Photo

Highland Health Centre

Name

Code

Charge to

Name

Master ID

HC4

HC4

Highland Health Centre

0

Master name

Store: General

Currency: SBD

Print

Contact

email

web site

Phone

Fax

Status

Hold

Price Category

A

Printing

Print invoices alphabetically

Category

Customer

Supplier

Manufacturer

Benchmark

Other

none

Category 2

Category 3

Category 4

Category 5

Category 6

Flag

Custom 1

Custom 2

Custom 3

Comment

Main/Billing Address

Address 1

Address 2

Address 3

Address 4

Address 5

Post code

Country

Postal address

Shipping address

Delete name

OK & Next

Cancel

OK

This displays the window in which you create the required lists.

General

Invoices

Backorders

Quotes

Notes

Contacts

Group

Purchase Orders

Item List

Requisitions

Store Visibility

Photo

Custom data

Log

Tags

checkItem

Store:

Default Order Days: 0

Add master list

Delete list

| List name | Master list | Imprest | Stock Takes | Web | Price |
|-----------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Items

| Item code | Item name |
|-----------|-----------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Style: Sort by Group

Output to

☒ Printer

☐ Excel

Generate

Ordering method

☐ Imprest

☒ Stocktakes

OK & Next

Cancel

OK


<https://docs.msupply.org.nz/>

Printed on 2025/07/11 12:43

- **Comment:** The comment entered on the requisition.

Use the **Show** drop down list to filter the requisitions by status.

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).

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.

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.

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 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):

[illegible]

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 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:

| Lin... | Item code | Item Name | Unit | Our SOH | Their Old S... | They recei... | Their curren... | Their usage | Their daily ... | Suggested quan | Actual quan |
|--------|-----------|--------------------------------|------|---------|----------------|---------------|-----------------|-------------|-----------------|----------------|-------------|
| 1 | CAFDr | Chloramphenicol 0.5% eye drop | each | 4923 | 5 | 15 | 0 | 20 | 5 | 150 | 150 |
| 2 | CAFOint | 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 SOH | They received | Their current SOH | Their usage | Their daily usage | Suggested quan | Actual quan |
|--------|-----------|------------------------------------|------|---------|---------------|---------------|-------------------|-------------|-------------------|----------------|-------------|
| 1 | CAfdr | Chloramphenicol 0.5% eye drop | each | 4923 | 5 | 15 | 2 | 18 | 0.62 | 17 | 17 |
| 2 | CAfoint | 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 | Hsaemoint | Antihaemorrhoid 30g oint | each | 1017 | 11 | 20 | 7 | 24 | 0.83 | 18 | 18 |
| 6 | Clopes | Clotrimazole 100mg pessary (6 tab) | each | 11871 | 4 | 10 | 4 | 10 | 0.34 | 6 | 6 |
| 7 | Glycsup | 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 | 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.

16 Cpzinj Chlorpromazine 50m
17 Dex4 Dexamethasone 4mg
18 DicA Diclofenac 25mg/3ml

☒ Confirm

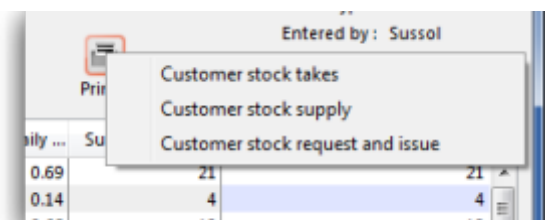
Save Sort Order

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:



1. **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 it's pharmacy store), and they can fill out the quantities they have on hand, and then values are entered into mSupply.
2. **Customer stock supply:** This form provides information to give to the customer about the quantity they will be supplied.
3. **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 its 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** = $F \times (G + H + I)$

- J = Amount to supply = **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 controllable.

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:

[illegible]

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.

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:

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.



Revert to suggested quan

| Old S... | Imprest q... | Their curren... | 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:

Edit imprest...

Name: Highland Health Centre HC4

Stock take date: 26/08/13

Order Received: 26/08/13

Entry date: 26/08/13

Status: sg

Stock Type: im

Entered by: Sussol

Store: General

ID: 1153

Black

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 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 | Hal5 | 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.
- 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):

Requisition list

Buttons: New customer requisition, New customer imprest, New customer stock history, Delete, Finalise

Show: Past 30 days

Type here to search

| ID | Name | Date entered | Requisition date | Status | Type | Comment |
|----|------------------|--------------|------------------|--------|----------|---------|
| 4 | Bike Hospital | 30/07/2024 | 30/07/2024 | sg | sh | |
| 2 | Amnesty Hospital | 30/07/2024 | 30/07/2024 | sg | im | |
| 1 | Cactus hospital | 30/07/2024 | 30/07/2024 | sg | response | |

Double click on row to edit details

OK

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

Enter new requisition...

Name: Cactus Hospital CAC

Requisition date: 05/09/2022

Order Received: 05/09/2022

Required date: 05/09/2022

Their ref:

Comment:

Max MOS: 1.0

Category: Please select...

ID: 6

Status: nw

Type: response

Entry date: 05/09/2022

Entered by: Admin

Store: General Warehouse

Buttons: New line, Add from master list, Delete line(s), Filter items, Supply quantity, Create customer invoice, Print

Filter items: Filter by item name or code

Buttons: Data entry, Invoices created, Log, Reference documents

| 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 | 2257600 | 265 | 200 | 0 | 200 | 200 | |
| 2 | 038423 | Salbutamol scored 2mg tabs | Tab | 17000 | 469 | 300 | 0 | 300 | 300 | |
| 3 | 042744 | Diazepam Injection 5mg/ml Amp/2ml | A...ule | 1450 | 5 | 30 | 0 | 30 | 30 | |
| 4 | 850804 | Oral Rehydration S...r 1 litre/ CAR-100 | Sachet | 15000 | 79 | 100 | 0 | 100 | 100 | |
| 5 | 030062 | Acetylsalicylic Acid 300mg tabs | Tablet | 5000 | 761 | 400 | 0 | 400 | 400 | |
| 6 | 201116 | Bandage W.O.W. 15cm wide x 5m roll | Roll | 4332 | 184 | 200 | 0 | 200 | 200 | |
| 7 | 031661 | Captopril scored 25mg tabs | Tablet | 47500 | 77 | 200 | 0 | 200 | 200 | |
| 8 | 037020 | Paracetamol 500mg tabs | Tablet | 81000 | 980 | 500 | 0 | 500 | 500 | |

Save Sort order

Buttons: Finalise, Cancel, OK & Next, OK

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* and *Order received* - these will default to the current date.
- 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](#).



To use a [master list](#) for a customer, the masterlist needs to be [assigned](#) to your store. However, items from the masterlist will only be added to the requisition if they are visible in your *customer's* store. This is to 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):

Edit requisition...

Name: Cactus Hospital CAC Their ref: 678 Black ID: 2

Requisition date: 15/02/18 Status: sg

Order Received: 15/02/18 Comment: Type: response

Entry date: 15/02/18 Entered by: Admin

Store: Central Medical

New line Add from master list Delete line(s) Filter items: 2/8 Create customer invoice Print

Data entry Invoices created Log

| 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 | 0 | 200 | 150 | partial supply |
| 5 | 030062 | Acetylsalicylic Acid 300mg tabs | Tabl... | 5,000 | 761 | 400 | 0 | 400 | 300 | partial supply |

Save Sort order Finalise 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.

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:

| 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 | 1000 | 1 | none | | 0.00 | 0.00 |
| 3 | | | Haloperidol 5mg tab | 100 | 1 | none | | 0.00 | 0.00 |



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

Buttons: Add Place holder, Re-lookup Sell Price

| Li.. | Issue | Available | Tot in store | Pack | Hold | Batch | Expdate | Supplier | Location | Cost Price | Sell price | Status |
|------|-------|-----------|--------------|------|------|----------|----------|----------|----------|------------|------------|--------|
| 2 | 0 | 600 | 600 | 1 | | IDIH0280 | 30/11/10 | ida | TAB | 0.01 | 0.01 | |
| 3 | 0 | 140 | 140 | 1 | | IDIH0280 | 30/11/10 | ida | TAB | 0.01 | 0.01 | |
| 4 | 0 | 106.0000 | 1596 | 1 | | IDIH0280 | 29/11/16 | ida | TAB | 0.01 | 0.01 | |
| 5 | 0 | 1000 | 1000 | 1 | | G366 | 31/12/16 | invad | AAA | 0.00 | 0.00 | |
| 6 | 0 | 2500 | 4000 | 1 | | DP8081 | 31/01/17 | ida | AAA | 0.01 | 0.01 | |

Total quantity issued: 2000
Total quantity available: 4346

Buttons: 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

Buttons: Add Place holder, Re-distribute all, Re-lookup Sell Price

| Li.. | Issue | Available | Tot in store | Pack | Hold | Batch | Expdate | Supplier | Location | Cost Price | Sell price | Status |
|------|-------|-----------|--------------|------|------|-------|----------|----------|----------|------------|------------|--------|
| 1 | 1000 | 0 | 0 | 1 | | none | | | | 0.00 | 0.00 | |
| 2 | 0 | 540 | 540 | 1 | | WE201 | 31/12/16 | invad | AAA | 0.00 | 0.00 | |

Total quantity issued: 1000
Total quantity available: 540

Buttons: Cancel, OK, OK & 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
Their ref: HC4
Comment: Invoice from customer stock history
Confirm date: 00/00/00
Category: None
Colour: Black
Invoice: 30,034
Entry date: 26/08/13
Goods receive ID: 0
Status: sg
Entered by: Sussol
Store: General

New line Delete line(s) History Confirm


General Summary by Item Summary by Batch Transport details Log

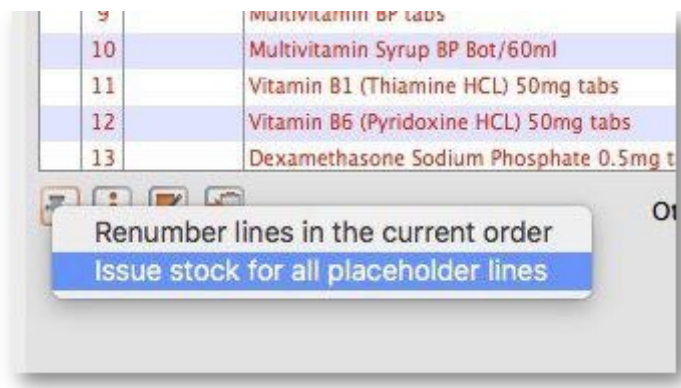
| N... | Li... | Location | Item Name | Quan | Pack Size | Batch | Exp date | Sell Price | Price exten |
|------|-------|----------|----------------------|------|-----------|--------|----------|------------|-------------|
| 1 | | | Ibuprofen 200mg tab | 1500 | 1 | none | | 0.00 | 0.00 |
| 2 | | | Prednisolone 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 |

Other charges Item: Amount: 0.00
Subtotal: 21.00
0 % tax: 0.00
Total: 21.00

Hold Finalize Export batch: 0 OK & Next Delete OK

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:

Last update:
2021/09/17
04:25

issuing_goods:stock_control_methods https://docs.msupply.org.nz/issuing_goods:stock_control_methods?rev=1631852714

Edit requisition...

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

New line Add from master list Delete line(s) Filter items Filter by item name or code Create customer invoice Print

Data entry Invoices created Log

| 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 | |

Save Sort order Finalise Cancel OK & Next 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:

Edit requisition...

Name: Cactus Hospital CAC Their ref: 678 Black ID: 2
Requisition date: 15/02/18 Comment: Status: cn
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 | c17878 | 30/04/2020 |
| 28 | | sg | 030062 | Acetylsalicylic Acid 300mg tabs | 0 | 1,000 | 100 | c17878 | 30/04/2020 |
| 27 | 06/06/2018 | cn | 030453 | Amoxicillin 250mg tabs | 0 | 1,000 | 150 | 82929 | 31/12/2020 |
| 28 | | sg | 030453 | Amoxicillin 250mg tabs | 0 | 1,000 | 50 | 82929 | 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 | C67562 | 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 | 654TD47 | |
| 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 of running out of stock!

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

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<https://docs.msupply.org.nz/> - mSupply documentation wiki

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Last update: 2021/09/17 04:25

