

## 23.15. Managing users

### About users and groups

As of version 3.13, mSupply has important improvements to its user management:

1. User permissions are now per-store, so a user can have different permissions when logged into different stores.
2. You can create and use user groups. Once a group is set up and permissions for the group assigned, any users that are assigned to the group will inherit the group's permissions, rather than having to set permissions for each user individually. When you change a group's permissions, you change the permissions for all users who belong to that group. This is very useful if you have a lot of users.

If you want to change a user's permissions and find out that all their permissions are greyed out and uneditable then it means they are a member of a group. To edit their permissions separately from the group, they must first be removed from the group:



- Edit the user, change the **Is a member of** to None, click **OK**.
- Edit the user, set permissions as required, click **OK**.

Refer to [Using groups](#) below for more details. If the user is to remain part of the group then you must change the group's permissions (see [Editing a group](#) below) but beware, this will change the permissions for all users who belong to the group, not just the user you're interested in.

If you want to disable a user, perhaps because the staff member has left the organisation, then they must be made 'inactive':



- Edit the user, uncheck the **Active** checkbox, click **OK**.

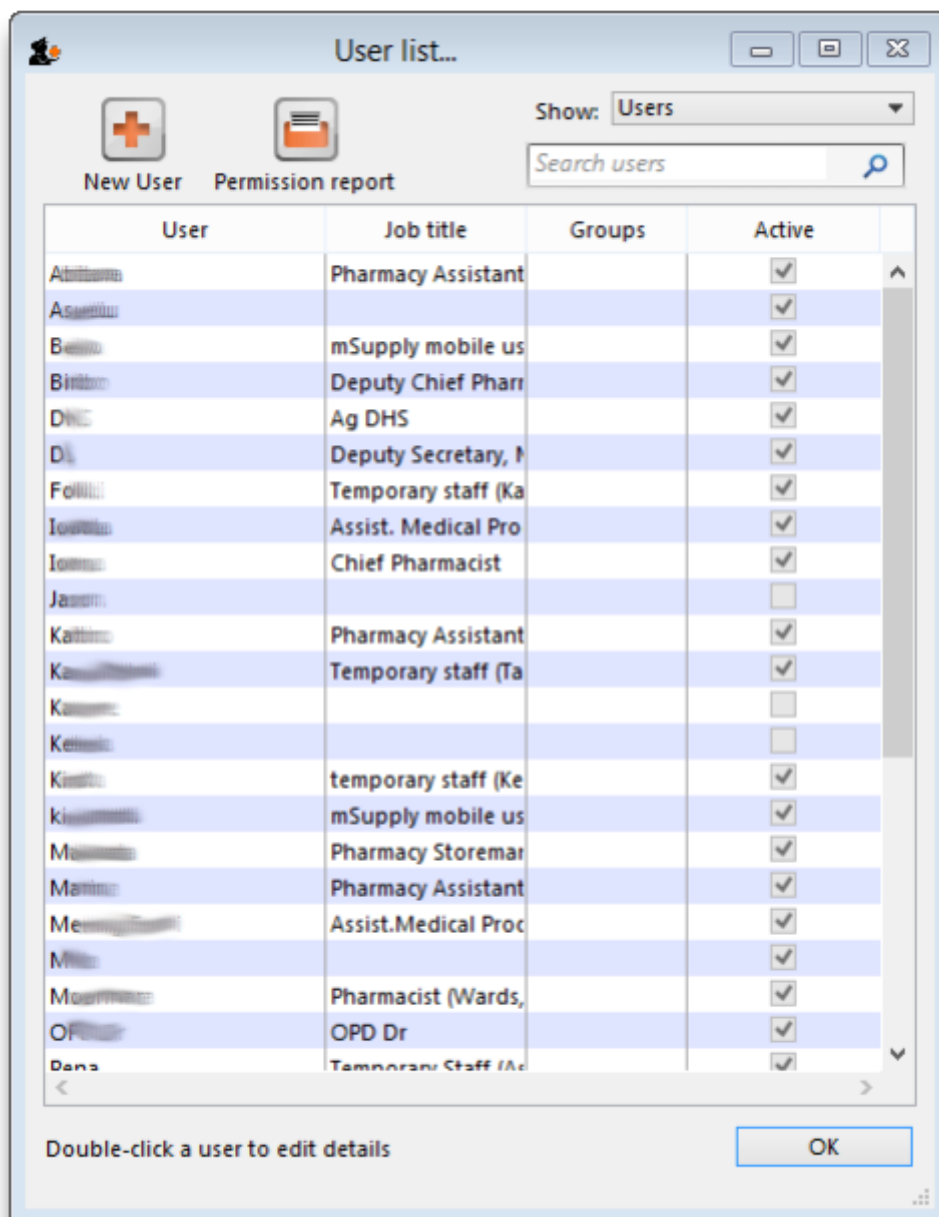
If the **Active** checkbox is greyed out, it is because they are a member of a group. You will need to first remove them from the group before you can make them 'inactive':

- Edit the user, change the **Is a member of** to None
- Edit the user, uncheck the **Active** checkbox, click **OK**.

### Adding and editing users and groups

mSupply has a comprehensive system of controlling user access, allowing you to manage in fine detail what each user can do and see in the system. You can manage users individually, in groups or a mixture of both - whichever is most suitable for your situation.

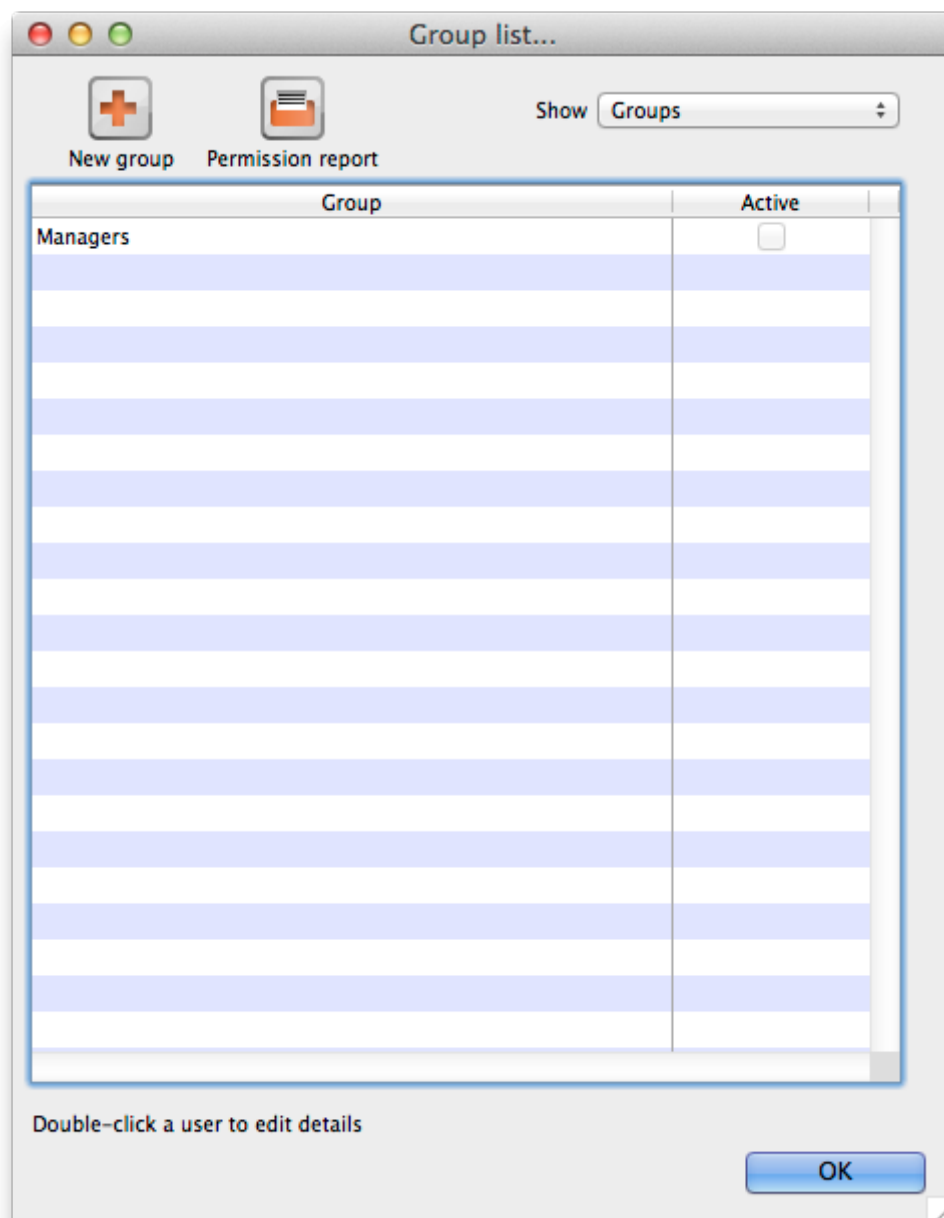
User access is managed by choosing **File > Edit users** from the menus, or by choosing **Admin > Edit users** in the Navigator. When clicking on this option you are presented with a list of current users:



The list shows you the following information:

- **User** The user's name.
- **Job title** The user's job title, as entered on the details tab of the user's details form.
- **Group** The group the user belongs to. Will be blank if the user does not belong to a group.
- **Active** Checked if the user is allowed to login to the system.

To view groups rather than users, choose **Groups** from the **Show** Drop-down list at the top-right of the window. The list changes slightly to look like this:



Now the list shows you slightly different information:

- **Group** The name of the group
- **Active** Checked if the group is active. If the group is active then all users in the group are allowed to login to the system. If the group is inactive (checkbox unchecked), all users in the group are inactive and are not allowed to login to the system.

To get a list of all current user permissions, click the **Permission Report** button. An Excel spreadsheet will be generated (see

sample

); it will have one worksheet for each store showing all the users and groups and what permissions they have in that store.

Double-click a user (or group) to edit their details or delete them. Click the **New User** button to add a new user (or the **New group** button to add a new group). Doing either will open the user details window (described below - for a new user or group all the tabs are empty, for an existing user or group the tabs are filled with their current settings)

# User details window

The screenshot shows the 'Edit user...' window with the 'General' tab selected. The window has a title bar with a close button. Below the title bar is a 'User' field containing 'Gryffindor'. A tab bar at the top contains 'General', 'Permissions', 'Permissions (2)', 'Permissions (3)', 'Login rights', and 'Details'. The 'General' tab is active and contains the following fields:

- 'Is a member of' dropdown menu set to 'None'.
- 'Password' and 'Confirm Password' text boxes.
- 'Active' checkbox checked.
- 'Can be responsible officer' checkbox unchecked.
- 'User Initials' text box.
- 'Language' dropdown menu set to 'English'.
- 'LDAP' section with 'Login using LDAP' checkbox unchecked and 'LDAP login string' text box.
- 'Windows Username' text box.
- 'License category' dropdown menu set to 'None'.
- 'User belongs to State/Region' dropdown menu set to 'None'.

On the right side of the 'General' tab, there is a 'User can:' section with a list of permissions:

- ☒ Login as Desktop user
- ☐ Use the Dashboard
- ☐ Receive email notifications
- ☐ Use web authorisation system

Below the permissions list is a 'Signature' section with a large text box and 'Add' and 'Remove' buttons. At the bottom of the window is a 'Tags' section with a text box. At the very bottom of the window are 'Delete', 'Cancel', and 'OK' buttons.

This window has several tabs, all described below.

## General tab

### Is a member of

Used to select the user group the user belongs to (see below). When the window loads, it displays the group the user currently belongs to. It will show “None” if they are not a member of any group.

### Password

This text box will always appear empty when the window is loaded. It must be set for a new user. It can be used here to change the password of an existing user.

## Confirm password

If something is entered in the *Password* textbox, then the same text must be entered in this textbox. This step makes sure you set the password to what you think you're setting it to!

## Active

If this checkbox is checked, then that user has permission to use the system, and their name will appear in the login window. If this checkbox is unchecked the user will not be allowed to login to the system and their name will not appear in the login window.

## Can be responsible officer

If this checkbox is checked, the name of that user will appear for selection in the [Responsible Officer](#) selector on the [Transport Details tab](#) of a [Customer invoice](#).

## User initials

User initials should be entered in this field.

## Language

Allows you to select which language the user wants to use in mSupply. As of 2020-08-04 supported languages are

- English
- French
- Lao
- Spanish
- Khmer
- Portuguese (partially complete)

## LDAP section

This section can be used to check a user's login credentials against an LDAP (Lightweight Directory Access Protocol) server. If you are going to use LDAP you must fill in the server details in the [General Preferences, LDAP tab](#) first.

- **Login using LDAP:** Check this if you want this user's login details to be checked against your LDAP server. Means that you can have some users logging in normally and some being checked against your LDAP server. Helpful if there's a delay in users being given LDAP credentials for any reason.
- **LDAP login string:** Enter any string which has to be used with the LDAP login. Will be provided by the LDAP administrator if required.

## Windows username

The username the user logs into window systems with. Used to provide single-sign-on capability when the user is logging in remotely to an mSupply client running on a Windows server.

## License category

Used to select which user license category the user belongs to. This will contain a list of all user categories currently set up in the datafile. See [License management](#) for details.

## User belongs to State/Region

Used to select the [name category 1](#) that the user belongs to. Only used in some customised versions of mSupply.

## Signature

Use to add or remove an image of a user's scanned signature for displaying on invoices for example

## User Can:

Used to give the following controls to Users

- Login as Desktop user
- Use the Dashboard - this is necessary if you want the user to be able to see dashboards
- Receive email notifications - this is necessary to enable reports to be emailed on a schedule to a user or group of users. Multiple reports for a User will appear on different tabs of an excel workbook. This needs to be configured by Sustainable Solutions, so get in touch if you're interested and we'll set this up for you.
- Use [web authorisation](#) system

## Permissions tabs

These are where you can set access to the many features and functions on a store-by-store basis for each user or group. There are three Permissions tabs and each are shown in the screenshots below.

## Buttons on the Permissions tabs

- The *Store* drop down list: Selects the store for which permissions are being displayed and set on the current tab. This is how you set permissions in different stores for users.
- The *All on* button: Checks all the permissions on the current tab i.e. turns them all on. There are exceptions to this for safety reasons e.g. the *Can update pack size, cost and sell price* permission on the **Permissions** tab.

- The *Copy* button: Copies the state of all the checkboxes on the tab for this store to an internal clipboard for that tab.
- The *Paste* button: Pastes the checkbox settings saved to the clipboard for the current tab to this tab. In this way, the Copy and Paste buttons are a great way of copying permission settings for tabs between stores - really handy when users have similar permissions in different stores.

**Edit user**

User:  Store:

General **Permissions** Permissions (2) Permissions (3) Notifications Login rights Details Dashboard

**Ordering**

- ☒ View purchase orders
- ☒ Delete purchase orders
- ☒ Edit purchase orders
- ☒ Edit purchase order pricing
- ☒ Manage tenders
- ☒ Finalise purchase orders
- ☒ Authorise purchase orders
- ☒ Create purchase orders
- ☒ Confirm purchase orders
- ☒ Create & edit backorders
- ☒ Create new quotes
- ☒ Edit & delete quotes
- ☒ Duplicate purchase orders
- ☒ Print purchase orders

**Items**

- ☒ Create new items
- ☒ View items
- ☒ Edit items
- ☒ Delete items
- ☒ Duplicate items
- ☒ Create repacks or split stock
- ☒ Edit repacks
- ☒ View pricing information for items
- ☒ Edit item units list
- ☒ Merge two items...
- ☒ Add / edit departments
- ☒ Add / edit master list
- ☒ Consolidate stock
- ☒ View stock
- ☒ Edit stock
- ☒ View inventory adjustments
- ☒ Enter inventory adjustments
- ☒ Edit inventory adjustments
- ☒ View cost prices of stock
- ☒ Edit item names, codes and units
- ☒ View DDD information for items
- ☒ Manage item access
- ☒ Manage locations
- ☒ Make item inactive
- ☒ Edit item default price
- ☒ Modify sell and cost prices of existing stock
- ☒ Create and edit custom stock field value lists
- ☒ Modify donor on stock and transaction lines
- ☒ Manage drug interaction groups

**Supplier invoices with issued stock**

- ☐ Update pack size, cost and sell price

**Tenders...**

- ☒ Create & edit tenders

**Admin**

- ☒ Add / edit users
- ☒ Access server administration
- ☐ Edit authorisers
- ☐ Clone database
- ☐ Edit periods and period schedules
- ☐ Add/edit sync sites
- ☐ Edit insurance providers

**Goods receiving**

- ☒ View goods received
- ☒ Add/edit goods received
- ☒ Authorise goods received
- ☒ Finalise goods received
- ☐ Disallow adding an unordered item to a Goods Received note

**Special**

- ☒ Add / edit currencies
- ☒ Add / edit reminders
- ☒ View and print labels
- ☒ Add / edit misc labels
- ☒ Add / edit abbreviations
- ☒ Add / edit warnings
- ☒ Add / edit prescribers
- ☒ Add / edit transaction categories
- ☒ Add / edit contacts
- ☒ Merge prescribers
- ☐ Add and edit options
- ☐ Add / edit vaccinators

**All on** **Copy** **Delete** **Cancel** **OK**

**Edit user**

User:  Store:

General Permissions Permissions (2) Permissions (3) **Open mSupply permissions** Notifications Login rights Details Dashboard

Names	Invoices	Invoices
<input checked="" type="checkbox"/> Create customer, supplier & manufacturer names	<input checked="" type="checkbox"/> Create customer invoices	<input checked="" type="checkbox"/> Authorise customer invoices
<input checked="" type="checkbox"/> View customer, supplier & manufacturer names	<input checked="" type="checkbox"/> View customer invoices	<input checked="" type="checkbox"/> Authorise supplier invoices
<input checked="" type="checkbox"/> Edit customer, supplier & manufacturer names	<input checked="" type="checkbox"/> Edit customer invoices	<input checked="" type="checkbox"/> Create cash transactions
<input checked="" type="checkbox"/> Delete names	<input checked="" type="checkbox"/> Create supplier invoices	<input checked="" type="checkbox"/> Pack boxes
<input checked="" type="checkbox"/> Edit name codes	<input checked="" type="checkbox"/> View supplier invoices	<input checked="" type="checkbox"/> Create supplier credits
<input checked="" type="checkbox"/> Edit name charge code	<input checked="" type="checkbox"/> Edit supplier invoices	
<input checked="" type="checkbox"/> Merge names	<input checked="" type="checkbox"/> Edit comments on finalised invoices	<b>Builds and bill of materials</b>
<input checked="" type="checkbox"/> Edit name categories	<input checked="" type="checkbox"/> Import supplier invoices	<input checked="" type="checkbox"/> View cost prices on builds
<input checked="" type="checkbox"/> Create & edit patient events	<input checked="" type="checkbox"/> Duplicate supplier & customer invoices	<input checked="" type="checkbox"/> Finalise builds
<input checked="" type="checkbox"/> Add patients	<input checked="" type="checkbox"/> Finalise multiple invoices	<input checked="" type="checkbox"/> View bill of materials
<input checked="" type="checkbox"/> Edit patient details	<input checked="" type="checkbox"/> Finalise customer invoices	<input checked="" type="checkbox"/> Edit bill of materials
<input checked="" type="checkbox"/> View patients	<input checked="" type="checkbox"/> Finalise supplier invoices	<input checked="" type="checkbox"/> Build items
<input checked="" type="checkbox"/> Add and edit insurance policies	<input checked="" type="checkbox"/> Finalise repacks	<input checked="" type="checkbox"/> Edit build items
<input checked="" type="checkbox"/> Add / edit name groups	<input checked="" type="checkbox"/> Finalise inventory adjustments	<b>Cash transactions</b>
<input checked="" type="checkbox"/> Update master code	<input checked="" type="checkbox"/> Cancel finalised invoices	<input checked="" type="checkbox"/> Make cash payments
	<input checked="" type="checkbox"/> Change transportation dates on finalised invoice	<input checked="" type="checkbox"/> Receive cash
<b>Web interface</b>	<input checked="" type="checkbox"/> Edit user fields on finalised invoices	<input checked="" type="checkbox"/> Edit payment note field
<input checked="" type="checkbox"/> Edit web passwords	<input checked="" type="checkbox"/> Customer stocktakes: show internal analysis columns by default	<b>Transfers</b>
<input checked="" type="checkbox"/> Edit and create web messages	<input checked="" type="checkbox"/> Change invoice category on finalised invoice	<input checked="" type="checkbox"/> Transfer goods between stores
<b>Reports</b>	<input checked="" type="checkbox"/> Return stock from customer invoices	<input checked="" type="checkbox"/> Finalise stock transfers
<input checked="" type="checkbox"/> Manage reports	<input checked="" type="checkbox"/> Return stock from supplier invoices	<b>Printing</b>
<input checked="" type="checkbox"/> Revert reports to original	<input checked="" type="checkbox"/> Overwrite total amount in prescriptions	<input checked="" type="checkbox"/> Print duplicate packing slips
<input checked="" type="checkbox"/> View reports		<input checked="" type="checkbox"/> Print duplicate customer invoices

All on Copy Delete Cancel OK

**Edit user**

User:  Store:

General Permissions Permissions (2) **Permissions (3)** Notifications Login rights Details Dashboard

Document management	Virtual Stores	Customer budgets
<b>Tenders</b>	<input checked="" type="checkbox"/> Create new stores	<input checked="" type="checkbox"/> Add/import customer budgets
<input checked="" type="checkbox"/> Upload tender document	<input checked="" type="checkbox"/> Edit store details	<input checked="" type="checkbox"/> Edit/delete customer budgets
<input checked="" type="checkbox"/> Download tender document	<input checked="" type="checkbox"/> Edit visibility in stores	
<input checked="" type="checkbox"/> Delete tender document	<input checked="" type="checkbox"/> Edit store credentials	<b>Registration</b>
<b>Quotes</b>	<b>Reminders</b>	<input checked="" type="checkbox"/> Add/edit registrations
<input checked="" type="checkbox"/> Upload quote document	<input checked="" type="checkbox"/> Edit and delete reminders assigned to me	<input checked="" type="checkbox"/> Change registration status
<input checked="" type="checkbox"/> Download quote document	<b>Admin</b>	<b>Requisitions</b>
<input checked="" type="checkbox"/> Delete quote document	<input checked="" type="checkbox"/> Send email	<input checked="" type="checkbox"/> View requisitions
<input checked="" type="checkbox"/> Modify quotes entered by the supplier (via the website)	<input checked="" type="checkbox"/> Purge old records	<input checked="" type="checkbox"/> Create and edit requisitions
<b>Items Lines (Batches of Stock)</b>	<input checked="" type="checkbox"/> View log	<input checked="" type="checkbox"/> Administer finalised report type requisitions
<input checked="" type="checkbox"/> Upload batch document	<input checked="" type="checkbox"/> Set start of year stock	<input checked="" type="checkbox"/> Create customer invoices from requisitions
<input checked="" type="checkbox"/> Download batch document	<input checked="" type="checkbox"/> View/edit preferences	<b>Supplier Hub</b>
<input checked="" type="checkbox"/> Delete batch document	<input checked="" type="checkbox"/> Export & import	<input checked="" type="checkbox"/> View and edit supplier hub details
<b>Stocktakes</b>	<input checked="" type="checkbox"/> Backup data file	<b>Assets</b>
<input checked="" type="checkbox"/> Create stocktake	<b>Vaccines</b>	<input checked="" type="checkbox"/> View assets
<input checked="" type="checkbox"/> Delete stocktake	<input checked="" type="checkbox"/> View temperature breach configuration	<input checked="" type="checkbox"/> Add/edit assets
<input checked="" type="checkbox"/> Add stocktake lines	<input checked="" type="checkbox"/> View and edit vaccine vial monitor status	<input checked="" type="checkbox"/> Setup assets
<input checked="" type="checkbox"/> View stocktake lines	<input checked="" type="checkbox"/> View sensor details	<input checked="" type="checkbox"/> Change asset status
<input checked="" type="checkbox"/> Edit stocktake lines	<input checked="" type="checkbox"/> Edit sensor location	
<input checked="" type="checkbox"/> Delete stocktake lines	<b>Replenishments</b>	
<input checked="" type="checkbox"/> Edit stocktake dates	<input checked="" type="checkbox"/> Can be a worker	
	<input checked="" type="checkbox"/> Can authorise replenishments	
	<input checked="" type="checkbox"/> Can finalise replenishments	

All on Copy Delete Cancel OK

Most of the permissions are self explanatory. Those that need more explanation are given below:



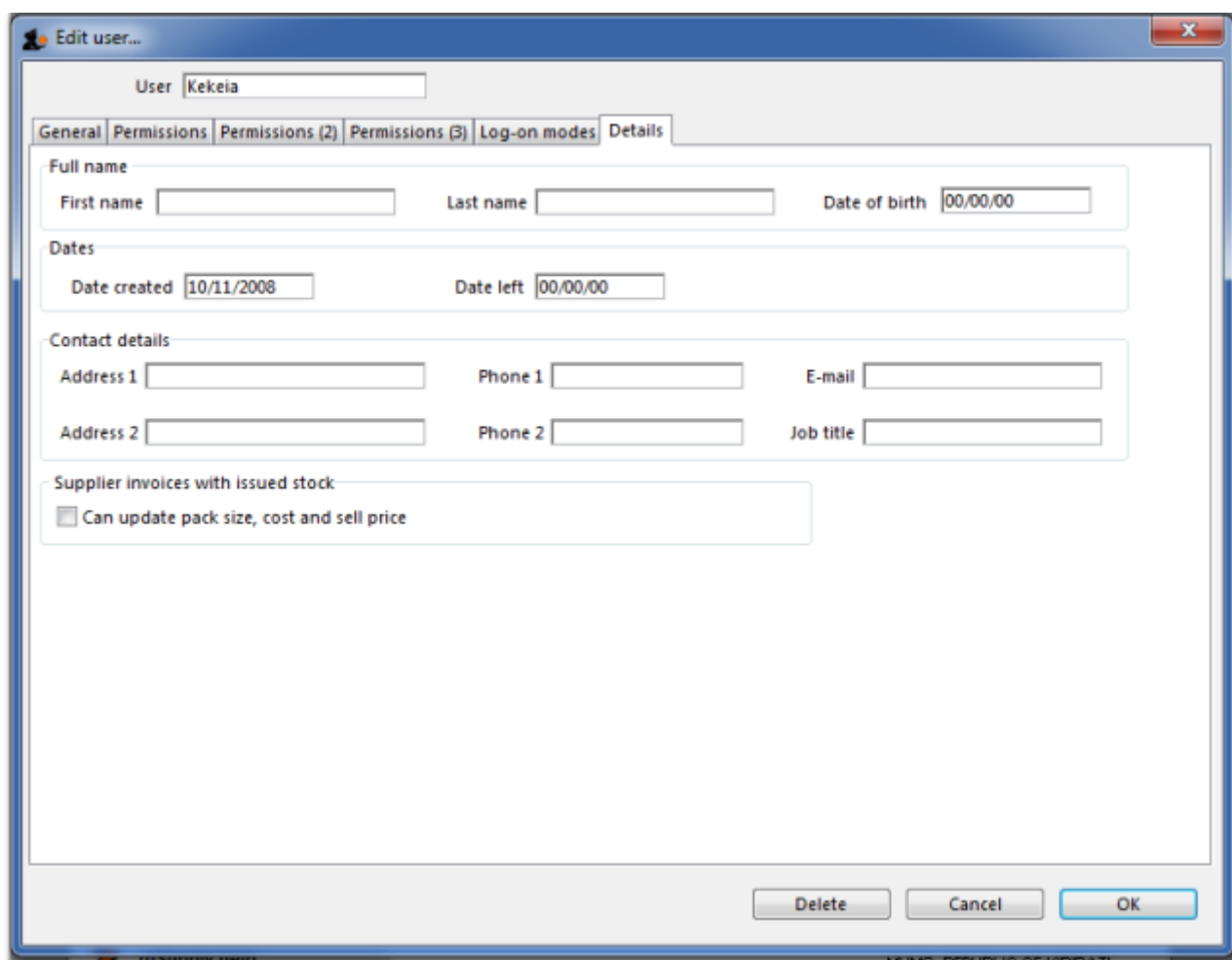
Permission	Details
<b>Permissions Tab</b>	
Add/edit users	To prevent you being locked out of your datafile permanently, mSupply will not allow you to turn off this preference for the first 2 users which already exist when you open mSupply for the first time. You should always treat these users as admin users.
<b>Permissions (2) Tab</b>	
Change transportation dates on finalised invoice	If checked, the user can edit the <b>Order written date, Order received date, Expected arrival date, Actual arrival date</b> and <b>Ship date</b> fields on the <i>Transport details</i> tab of finalised customer invoices
Edit user fields on finalised invoices	The user fields are the 4 custom transaction fields that can be enabled in the preferences - see <a href="#">Invoices Preferences</a> for details. If this is enabled the user can edit the contents of these fields on transactions that have already been finalised
Change invoice category on finalised invoice	If checked the user can edit the transaction category of invoices (customer, supplier and inventory adjustments)
Transfer goods between stores	If checked the user can create a customer invoice with a store as the customer (i.e create a stock transfer)
Finalise stock transfers	If checked the user can finalise a customer invoice where the customer is another store (i.e. a stock transfer)
Return stock from supplier invoices	If checked a <i>Return selected lines</i> button will appear for the user on finalised supplier invoices, allowing them to return the goods on the invoice. See the <a href="#">9.01. Returning goods</a> section for details
<b>Permissions (3) Tab</b>	
Edit stocktake dates	If checked the user can edit the <i>Stock take date</i> field at the top of a stocktake and the confirmed date of inventory adjustments created from the stocktake (see <a href="#">Creating a new stocktake</a> ) for details
Edit store details	If checked the user can edit the <a href="#">store details and preferences</a> , including using the <a href="#">bulk store preferences editor</a> .
Edit visibility in stores	If checked the user can edit the visibility of names and items in different stores. If it is unchecked they can't - either in the <i>Store</i> tab of a name or item's details window or the <i>Visibility</i> tab of a store's details window (in fact, the <i>Visibility</i> tab won't even be visible for them)
Add/import customer budgets	If this is checked the user can <a href="#">import</a> or <a href="#">add</a> budgets for a customer, if unchecked they cannot
View and edit temperature breach configurations	If checked, the user can view and edit temperature breach configurations in the vaccine/cold chain module. See the <a href="#">20.01. Vaccine Vial Monitoring (VVM)</a> page for details.
View and edit vaccine vial monitor status	If checked, the user can view and edit the statuses that vaccine vial monitors have. See the <a href="#">20.01. Vaccine Vial Monitoring (VVM)</a> page for details.
View sensor details	If checked the user can view temperature sensor details. See the <a href="#">20.03. Cold Chain App Notifications</a> page for details.
Edit sensor location	If checked the user can edit the warehouse location attached to a sensor. See the <a href="#">20.03. Cold Chain App Notifications</a> page for details.
Edit/delete customer budgets	If this is checked the user can <a href="#">edit</a> or <a href="#">delete</a> budgets for a customer, if unchecked they cannot
Create customer invoices from requisitions	If this is checked the user can create customer invoice from the <i>Create customer invoice</i> button on requisitions. You can use this in conjunction with the <i>Create customer invoices</i> permission on the <b>Permissions (2)</b> tab to force all distribution to be carried out from requisitions.



the Registration module.

- The “Hospital Info System” is another special store used for mSupply's built-in Hospital Information system. See [here](#) for more details. Checking this box will allow the user to login to the HIS module.
- “Supervisor - All stores” stores is a special mode to allow users to view information in and run reports over multiple stores. See [here](#) for more information.

## Details tab



The screenshot shows the 'Edit user...' dialog box with the 'Details' tab selected. The 'User' field at the top contains the text 'Kekeia'. Below this are several tabs: 'General', 'Permissions', 'Permissions (2)', 'Permissions (3)', 'Log-on modes', and 'Details'. The 'Details' tab contains the following fields:

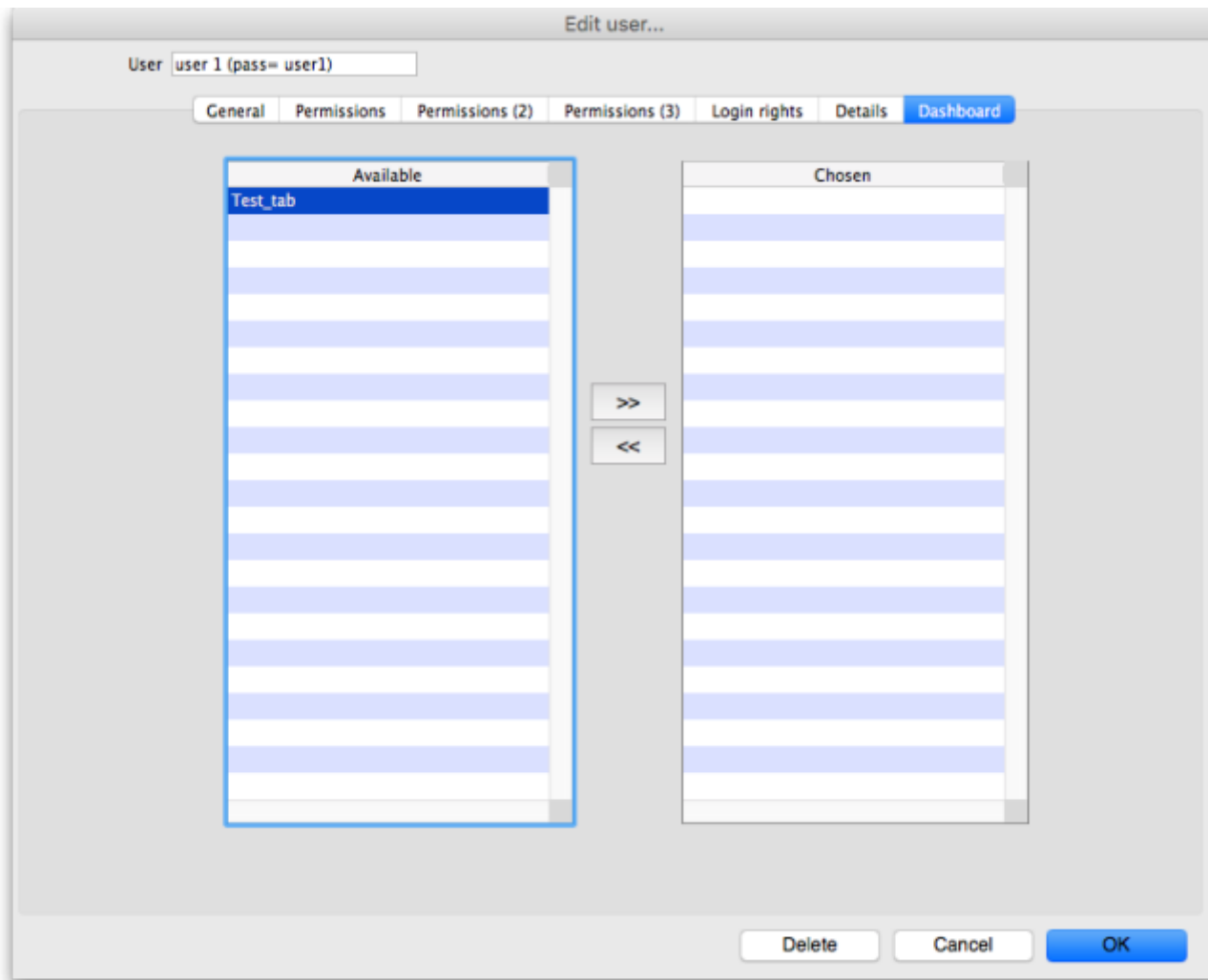
- Full name:** 'First name' and 'Last name' text boxes, and 'Date of birth' with a date picker showing '00/00/00'.
- Dates:** 'Date created' with a date picker showing '10/11/2008', and 'Date left' with a date picker showing '00/00/00'.
- Contact details:** 'Address 1', 'Address 2', 'Phone 1', 'Phone 2', 'E-mail', and 'Job title' text boxes.
- Supplier invoices with issued stock:** A checkbox labeled 'Can update pack size, cost and sell price' which is currently unchecked.

At the bottom right of the dialog are three buttons: 'Delete', 'Cancel', and 'OK'.

Here some personal details including job title, address and email address of the user can be recorded. The job title will appear in the *Job title* column in the list of users and the email address is used when using email functionality or other special functions in mSupply.

Other than that, these fields are for reference only, providing a handy place to record information about your system users.

## Dashboard tab



On this tab you set which dashboard tabs will appear on the dashboard when the user logs into it. Of course, you have to set up the dashboard tabs before you can assign them to a user's dashboard. See [Dashboard](#) for instructions on doing that.

Once the dashboard tabs have been setup, they will appear in the *Available* column of this tab. You can see the "Test\_tab" in the screenshot above. Anything in the *Chosen* column will be displayed on the user's dashboard. So, to make a dashboard tab appear on the user's dashboard, select it in the *Available* column and click on the >> icon to move the tab into the *Chosen* column. And to remove a dashboard tab from the user's dashboard, simply select it in the *Chosen* column and click on the << icon to move it back into the *Available* column.

## Create a new user

To create a new user do this:

1. Go to *File > Edit users...* and click on the **New user** button
2. Enter the user name
3. Assign a password
4. Enter the password again in the *Confirm password* text box
5. Go to the permissions tabs and set up permissions (3 tabs) **OR** select which group the user is to belong to using the *Is a member of* drop down list on the General tab (you must do one of these because you'll have noticed that when you create a new user they have absolutely no

permissions at all!)

6. Go to the Login rights tab and set the stores the user can login to.
7. Click **OK** when you're done.
8. The user should now be able to log in.
9. After the user logs in, they may want to [change their password](#).

## Delete a user or group

To delete a user do this:

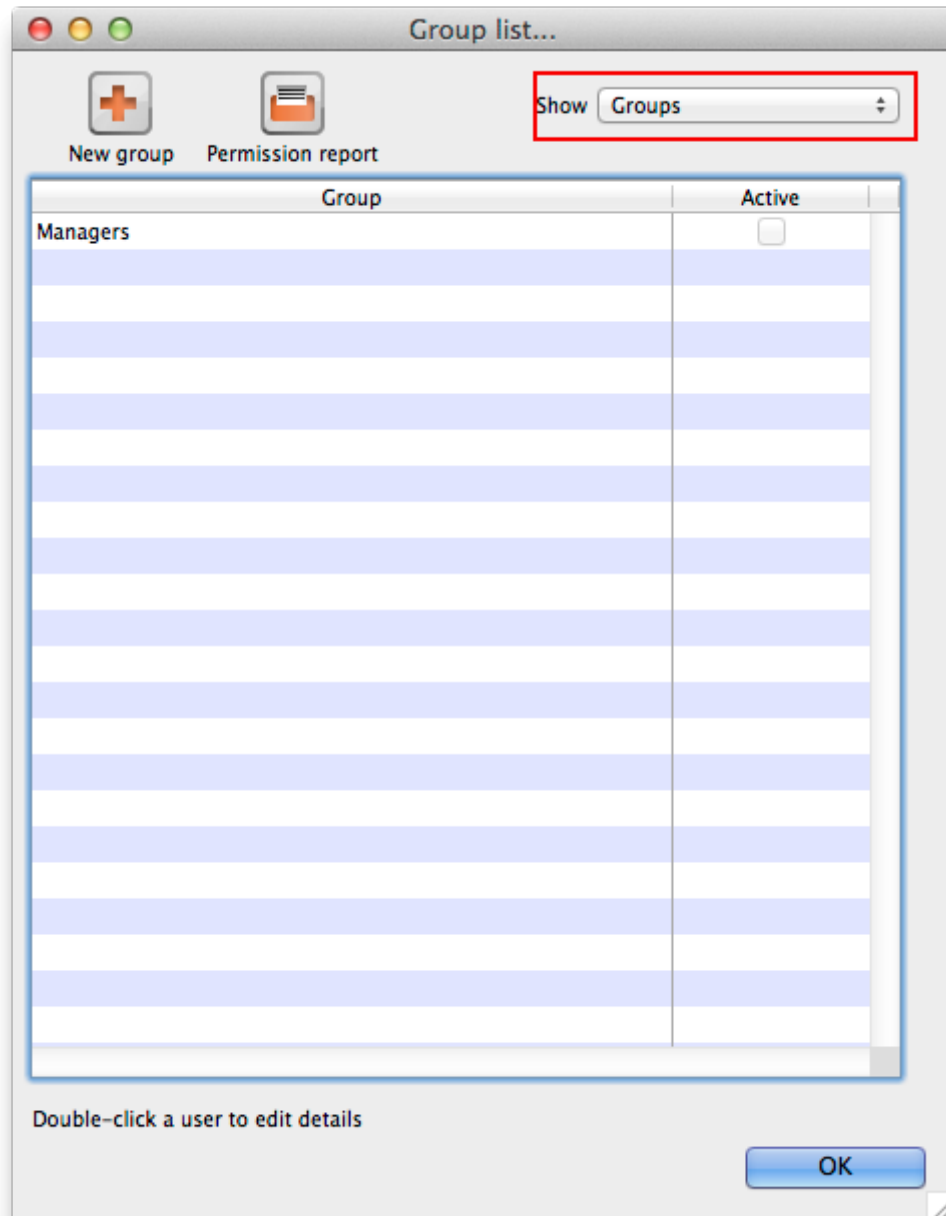
1. Go to *File > Edit users...*
2. Double-click the name of the user or group you want to delete in the list
3. Click on the *Delete* button on the bottom of the edit user window that opens

Note that you won't be able to delete a group that has users belonging to it. If you really want to delete the group, remove all users from the group first by editing their *Is a member of* fields.

## Managing and using groups

### Adding a group

Show the list of groups by opening the “Edit user” window and then choosing “Groups” from the “Show” Drop-down menu



To add a group, click the **Add Group** button. You will be shown a window where you add the group name. You then set permissions for the group in the same way as you set permissions for a user (above):

Note that you will only be able to set checkboxes which can have different settings in different stores. Anything that is not a checkbox and or any checkbox that applies across all stores cannot be set in a group's permissions (another way of saying this is that they cannot be controlled by a group). These items will all be disabled when creating or editing a group and are editable in the individual users' permissions only.

## Editing a group

First, show the list of groups by opening the “Edit user” window and then choosing “Groups” from the “Show” Drop-down menu





The screenshot shows the 'Edit user...' dialog box with the 'General' tab active. The 'User' field is 'user1'. The 'Is a member of' dropdown is set to 'None' and is highlighted with a red box. Other fields include Password, Confirm Password, Active (checked), Can be responsible officer (unchecked), User Initials, Language (English), and LDAP settings. A Signature box is on the right. At the bottom are Delete, Cancel, and OK buttons.

4. Click on the OK button to save you changes.

## User license categories

A menu item on the Special menu of the navigator gives access to a form to view and edit user license categories, including the number of users belonging to them that can be logged in at any one time. A DDL on the user input form allows a user to be assigned to a category and a new permission covers the ability to edit these license categories and membership of them. Finally, a check on the OK button of the login form will check that there are less than the maximum users belonging to the license category the user belongs to already logged in.

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