

20.01. Vaccine Vial Monitoring (VVM)

- There used to be a comprehensive description of VVM on the WHO website, but, alas, no longer



- We can resort to the [Wikipedia article on VVM](#)
- As of August 2023, WHO has published a [VVM infographic](#). In case that is also removed from the WHO web site, we have stored it here:

VVM infographic

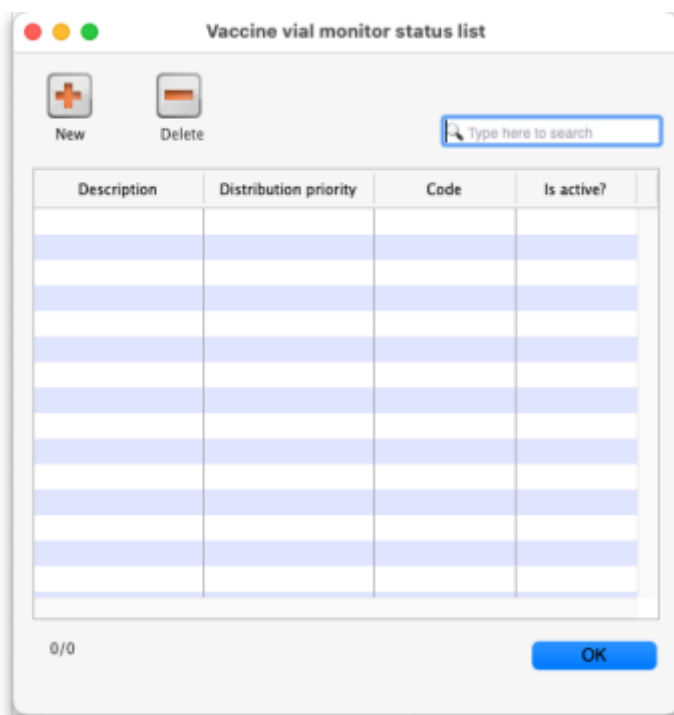
Configuration

There are a few configuration steps needed to use VVM (Vaccine Vial Monitoring) in your mSupply system.

Set up vaccine vial monitor (VVM) statuses

To configure VVM status options, you need to have permission in the system to edit vaccine vial monitoring statuses. See the [23.15. Managing users](#) page for details on how to set user permissions. You need to turn on the *View and edit vaccine vial monitor status* permission on the *Permissions (3)* tab.

You can access the vaccine vial monitor (VVM) status configuration window by choosing *Item > Vaccines > Show vaccine vial monitor status...* from the menus. This will open the VVM status window:

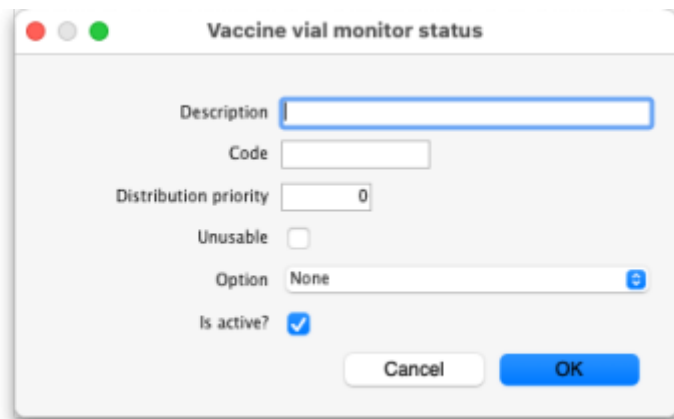


The window will show you a list of all the current vaccine vial monitor statuses that have been setup.

To edit one, simply double-click on it in the list. This will open the same window as when adding a new status (see below) but populated with the status's current settings, ready for you to edit them.

Adding a VVM status

Click the **New** button. This window opens:



The screenshot shows a dialog box titled "Vaccine vial monitor status". It contains the following fields and controls:

- Description: A text input field.
- Code: A text input field.
- Distribution priority: A text input field containing the value "0".
- Unusable: A checkbox that is currently unchecked.
- Option: A dropdown menu showing "None".
- Is active?: A checkbox that is checked.
- Buttons: "Cancel" and "OK" buttons at the bottom right.

- **Description:** the name of the status and how it will be referred to throughout mSupply.
- **Code:** a short code used to refer to the status.
- **Level:** the numerical level the status belongs to.
- **Is active?:** checked by default. If this is checked then the status will be available for selecting in mSupply mobile.

Click on the **OK** button to save your changes or the **Cancel** button to cancel them.

Priority of VVM Status

When issuing stock, this will be prioritised based on Level 1 to 4 on mSupply. Level 1 will be prioritised first, then level 2 and so forth. You have the flexibility to customize your VVM stages to determine which should be prioritized first.

In this example, we can see that Stage 2 has first level priority for being issued:



The screenshot shows the same dialog box as above, but with the following changes:

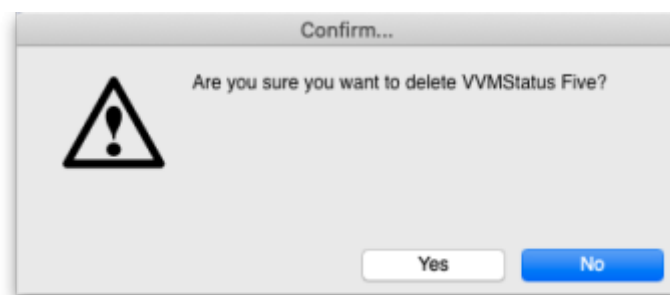
- Description: "Stage 2"
- Code: "Stage 2"
- Level: "1"
- Is active?: Checked.

Deleting a VVM status

You can only delete a status that you have just created. Once this list of VVM statuses has been closed, you cannot delete the status any more. If there is one that you wish to delete but can't then edit it and uncheck its **Is active** checkbox (as described above). That will effectively delete it because it will no longer be selectable in any mSupply mobile functionality (but it will mean the status is still available for historical records).

If the status you want to delete is newly created:

1. Select the status you want to delete by clicking on it in the list
2. Click on the **Delete** button
3. The window below will appear asking you to confirm the deletion. Click **Yes** to confirm.



Tell mSupply which items are vaccines

Tell mSupply which items are vaccines by checking the **Is a vaccine** checkbox and entering the number of doses per vial in the **Doses** field on the *General* tab of the item's details window. See the [4.01.01. Items - General tab](#) page for details.

Turn on preferences

Finally, you need to turn on some preferences so that VVM status is exposed in the mSupply interface:

- The *Able to specify VVM status when receiving items* store preference to be able to enter the VVM status for a vaccine when it is received. See the [26.07. Virtual stores](#) page for details.
- The *Sort available batches by VVM status rather than Expiry* store preference if you want the VVM status of the stock to be included when deciding what order to offer stock for selection. See the [26.07. Virtual stores](#) page for details.

Using VVM status

Enter the VVM status of vaccines when they are received

When the *Able to specify VVM status when receiving items* store preference is turned on (see above) you can enter the VVM status of vaccines when they are received into a store on a supplier invoice. See the [7.01. Supplier invoices](#) page for details.

Update the VVM status of vaccines when you check them

When you check the status of the VVM labels for a batch, you can enter the details of the current VVM status into the stock line details window.

You can get to this window two ways:

1. On the *Item* tab of the Navigator, click on the *Stock* icon then double-click on the line of stock you are interested in.
2. Search for items, double click on an item to open its details window, click on the *Stock* tab to show the item's current stock and then double-click on the stock line you are interested in.

Whichever way you choose, this window will open:

Item stock line details...

Item code bcgvac10 Item name BCG Vaccine

General Ledger Status Reference documents Log

Quantity according to stock

Total Quantity 2000 Available 2000

Cost price 2.3 Hold Volume per pack 0 m3

Sell price 2.3 Location None Weight per pack 0 kg

Expiry date 31/08/2026 Pack size 10 Vial

Batch ABCD1234 Quan per inner 1 Initial quantity 0

Supplier ACME Pharma Inners per Outer 1

Donor None Change donor

Note

Custom stock fields

Cancel OK

Click on the Status tab:

been entered.

If you enter a VVM status that means the stock is unusable, we recommend that you also check the **Hold** checkbox on the *General* tab (shown above) so that the stock is not issued.

Check the VVM status of stock when issuing

When the *Able to specify VVM status when receiving items* store preference is turned on (see the [Turn on preferences](#) section above) you will be able to see the current VVM status of vaccine stock and issue in packs or doses when issuing a vaccine item. See the [8.01. Issuing goods to a customer \(customer invoices\)](#) page for details.

Previous: [20. Cold Chain Equipment](#) | | Next: [20.02. Configure VVM for a Mobile store](#)

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