OpenHMIS Inventory Module - Admin Pages

Inventory Administration Pages

Inventory Role Creation

The inventory role creation page allow administrators to add and remove inventory privileges to existing roles as well as create new roles with those same privileges.

The current set of inventory-related privileges is:

- Manage Inventory Items
- View Inventory Items
- Purge Inventory Items
- Manage Inventory Stockrooms
- View Inventory Stockrooms
- Purge Inventory Stockrooms
- Manage Inventory Metadata
- View Inventory Metadata
- Purge Inventory Metadata
- Manage Inventory Operations
- View Inventory Operations
- Edit Patient Identifiers
- View Administration Functions
- View Concepts
- View Locations
- View Navigation Menu
- View Users
- View Roles

Manage Items

Items, in the inventory module, are the products and service that can be purchased by patients or used by an institution. An item defines the details about the product or service including the name, department, price, and whether the item is a physical object (ie, can be tracked within stockrooms) and has an expiration.

Manage Items

Search

Department: [Any ⇕]   Item Identifier or Name: [   ]   [Search]

Current Items

Name	Department	Codes	Default Price
1/2 Darrows + Dex. 1 Litre	Pharmacy	3010	86.00 (test)
1/2 Darrows + Dex. 500ml	Pharmacy	3020	60.00
Abacavir (ABC) / Lamivudine (3TC) / Efavirenz (EFV) Combination	Pharmacy	ABC/3TC/EFV	0.00 (AIDSRelief)
Abacavir (ABC) / Lamivudine (3TC) / Nevirapine (NVP) Combination	Pharmacy	ABC/3TC/NVP	0.00 (AIDSRelief)
Abacavir (ABC) / Lamivudine (3TC) Combination	Pharmacy	ABC/3TC	0.00 (AIDSRelief)

Showing 1 to 5 of 760 entries   [First | Previous | 1 | 2 | 3 | 4 | 5 | Next | Last]

Show [5 ⇕] entries ☐ Show retired

Add Item

The Manage Items page shows the list of currently defined items in an alphabetical list. The top search area can be used to find specific items by name or item code. Clicking on an item in the list will display the item details:

Edit Item

Name	Ciprofloxacin 500mg Tab
Department	Pharmacy ⬍
Has Expiration	☑
Default Expiration Period	90 ⬍
Concept	Enter concept name
Has Physical Inventory	☑
Codes	✕ ST2012099
	Add
Prices	✕ 8.00
	Add
Default Price	8.00 ⬍

Item Stock

Stockroom	Quantity
Main Stockroom	125
Pharmacy	125

Showing 1 to 2 of 2 entries
Show 5 ⬍ entries

Update Item   Cancel

Retire Item

Reason [   ]
Retire

Purge Item

Purge

The item detail section allows users to change the item information. Items can have multiple codes and prices which can be added by clicking the associated Add button or removed by clicking the 'X' button next to the code or price to remove. If the item has physical inventory a list showing the current item stock is displayed. User can also retire and purge the item from the detail view; though it should be noted that items which have been referenced in a Cashier module bill or by item stock cannot be purged.

Clicking on the **Add Item** link displays an empty item detail section and allows for the creation of new items.

Manage Departments

Departments group items into cost centers and each item is required to have an associated department.

Manage Departments

Search

Department Name: [   ] [Search]

Current Departments

Name	Description
Emergency	
eye clinic	
General	
Lab	
revenue	other revenues

Showing 1 to 5 of 11 entries
Show [5 ⇕] entries ☐ Show retired

[First] [Previous] [1] [2] [3] [Next] [Last]

Add Department

Clicking on a department displays the department details:

Edit Department

Name   [Emergency]

Description   [   ]

[Update Department] [Cancel]

Retire Department

Reason [   ]
[Retire]

Purge Department
[Purge]

The administration pages in the OpenHMIS modules use a common UI and so this detail section should look familiar. Note that departments which are referenced by items cannot be purged.

Manage Institutions

Institutions are external entities where item stock can be distributed. The manage institutions pages allows administrators to add, remove, and edit institutions.

Manage Institutions

Search

Institution Name: [   ] [Search]

Current Institutions

Name	Description
The Jackson Collective	South of West

Showing 1 of 1 entry
Show [5 ▾] entries ☐ Show retired

Add Institution

Clicking on an Institution will display the institution details:

Edit Institution

Name   [The Jackson Collective]

Description   [South of West]

[Update Institution] [Cancel]

Retire Institution

Reason [   ]
[Retire]

Purge Institution
[Purge]

Manage Stockrooms

Stockrooms are the locations where item stock is stored. The Manage Stockrooms pages allows administrators to add, edit, and view stockroom details.

Manage Stockrooms

Search

Location: [Any ▾]   Stockroom Name: [   ] [Search]

Current Stockrooms

Name	Location
Main Stockroom	
Pharmacy	Child

Showing 1 to 2 of 2 entries
Show [5 ▾] entries ☐ Show retired

Add Stockroom

Clicking on a stockroom will display the stockroom details section which is composed of 4 tabs. By default, the Details tab is selected which displays the general stockroom information:

Details	Items	Operations	Transactions

Name   Main Stockroom

Location   – Not Defined –

[Update Stockroom] [Cancel]

Retire Stockroom

Reason [   ]

[Retire]

Purge Stockroom

[Purge]

ⓘ   If all of your locations are not displayed when adding/editing a stockroom, you can increase the REST parameter for maximum results to greater than your number of locations using the global property, 'webservices.rest.maxResultsAbsolute'.

The Items tab shows the current item stock stored in the stockroom:

Details	Items	Operations	Transactions

Item	Quantity
Anc Consultation Fee	1
asprin tabs - opd	50
Bromocriptine 2.5 - ST20120438	50
Ciprofloxacin 500mg Tab - ST2012099	125
Gloves Clean	-5

Showing 1 to 5 of 7 entries   First | Previous | 1 | 2 | Next | Last

Show 5 entries

The Operations tab shows the operations that have affected the stockroom:

Details	Items	Operations	Transactions

Date Created	Operation Type	Operation Number	
9/11/2014 3:11:27 PM	Adjustment	INV-00014	PENDING
9/4/2014 4:51:04 PM	Adjustment	INV-00011	COMPLETED
9/5/2014 4:21:21 PM	Adjustment	INV-00012	PENDING
9/4/2014 4:49:23 PM	Adjustment	INV-00010	PENDING
9/4/2014 4:31:58 PM	Adjustment	INV-00009	PENDING

Showing 1 to 5 of 46 entries   First | Previous | 1 | 2 | 3 | 4 | 5 | Next | Last

Show 5 entries

Lastly, the Transactions tab shows the individual transactions that have been performed against the stockroom:

Details	Items	Operations	Transactions

Date Created	Operation	Item	Batch Operation	Expiration	Quantity
9/11/2014 3:11:27 PM	INV-00014	Ciprofloxacin 500mg Tab - ST2012099			1
9/11/2014 3:11:27 PM	INV-00014	Anc Consultation Fee			1
9/5/2014 4:21:21 PM	INV-00012	Ciprofloxacin 500mg Tab - ST2012099			5
9/4/2014 4:51:04 PM	INV-00011	Ciprofloxacin 500mg Tab - ST2012099			25
9/4/2014 4:49:23 PM	INV-00010	Ciprofloxacin 500mg Tab - ST2012099			5

Showing 1 to 5 of 50 entries   First | Previous | 1 | 2 | 3 | 4 | 5 | Next | Last

Show 5 entries

Manage Operation Types

There are currently six supported operation types ([details here](#)) which cannot be added to. These operation types are intended to cover all the types of item stock actions that would need to be performed and can be extended with attributes to gather institution-specific information. Administrators can also edit some operation type information and can retire operation types that are not needed.

The Manage Operation Types page shows a list of the current operation types:

Clicking on an operation type will display the operation type details:

> ⓘ Note that the **Has Source**, **Has Destination**, **Has Recipient**, and **Available When Reserved** fields are not editable. This is because these fields denote how an operation will be processed as the operation status changes and is integral to the operation type. Administrators are able edit the name, description, user/role restriction and add custom attributes to enter when creating an operation of the specified operation type.

View Stock Operations

The View Stock Operations page allows administrators to view and process stock operations.

View Stock Operations

Clicking on a stock operation with display the stock operation details:

Operation Details

Date Created	9/11/2014 10:00:23 AM
Operation Number	INV-00013
Status	PENDING
Operation Type	Receipt
Destination Stockroom	Main Stockroom
Receipt From	solmething

Operation Items

Item	Quantity	Batch Operation	Expiration
Ciprofloxacin 500mg Tab - ST2012099	100	INV-00013	12/9/2014

Showing 1 of 1 entry
Show [5 ▾] entries

[Complete Operation] [Cancel Operation] [Close]

For Pending stock operation, if the current user has access to be able to process the stock operation (as defined by the User/Role configured in the Operation Type), then buttons to Complete and Cancel will be available. Clicking either button will update the operation status to the specified status and perform the expected action (once again, as defined by the Operation Type).

Generate Item Mappings

To provide the initial steps towards linking OpenMRS Orders to OpenHMIS Bills and/or Stock Operations, Items can now be linked to OpenMRS concepts /drugs. While administrators can manually go through each item and search for the associated concept, the Generate Item Mappings page will attempt to find the more obvious mappings based on the Item and Concept name. Clicking on the Generate Item Mappings link will start mapping process:

Generate Item Mappings

This may take a few mintues depending on the number of items without concepts and the number of concepts in the system. Once loaded, a list will display the mappings that were found:

Generate Item Mappings

Current Item <-> Concept Suggestions

Item	Concept	Concept accepted
		☐ **Select all**
Urine Dipstick In Anc	URINE DIPSTICK	☐
Family Planning - 1st Visit	FAMILY PLANNING	☐
Family Planning - Depo Onjection	FAMILY PLANNING	☐
Family Planning - Pills Per Cycle	FAMILY PLANNING	☐
Family Planning - Norplant Insertion	FAMILY PLANNING	☐

If the mapped concept is correct, users can check the checkbox for that item. If not, user can either try to find a better concept by typing in the concept textbox, selecting the preferred concept, and checking the checkbox, or simply leave the checkbox unchecked. Once users have reviewed the mappings and checked the ones they want to keep, they can click on the **Save Items** or **Save Items and Get Next** button

Atenolol 50mg	ATENOLOL	☐
Atropine Eye Drops	ATROPINE	☐

[Save Items] [Save Items and Get Next] [Cancel]

Clicking the **Save Items** button will save the checked mappings and take the user to the previous page (this is so that the mappings are not generated again). Clicking the **Save Items and Get Next** button will save the checked mappings and reload the list.