

Stock Status Monitoring Tool(UserGuide)

version 1.0

UoN

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DHIS2 Stock status monitoring project documentation

This documentation is for the malaria stock status monitoring purposes of analysis and report generation.

MSH/HCSM is a key member of the Malaria drug management subcommittee, which is involved in the stockstatus monitoring of Malaria commodities both at the National and County levels.

On a monthly basis, the Malaria Control Unit, drug management committee meets to review the stock status of malaria commodities in the country, by analyzing data from various sources including:

1. Facility and County Level Stock Data from DHIS.
2. National Level Stock Status data from the Supply Chain Agencies (KEMSA).
3. Pipeline information based on incoming shipments per funding agency.

This data is aggregated and analyzed for the different malaria commodities and a 2 pager report generated that indicates to management, the months stock status and pipeline monitoring of Malaria commodities.

There is a [downloadable PDF version](#) of this documentation, a [mobile friendly EPUB version](#) and a [downloadable HTML version](#).

Table of contents

Overview

The purpose of this project is to create a tool that manages malaria stock by analyzing data from various sources for the purposes of analysis and report generation.

The Stock Status Management tool analyzes data from various sources including:

1. Facility and County Level Stock Data from DHIS.
2. National Level Stock Status data from the Supply Chain Agencies (KEMSA)
3. Pipeline information based on incoming shipments per funding agency

This data is aggregated and analyzed for the different malaria commodities and a report generated that indicates to management, the months stock status and pipeline status of malaria commodities.

This tool is meant to amend and enhance the current 2 pager tool used by MCU to accomodate additional requirements including representation of Central and county level data for malaria commodities, and to color code the different pending shipments based on the timelines for delivery.

Approach

The project is developed as a DHIS2 Web APP.

The web API and the database

We have developed the malaria stock status management tool as a web application. Data required comes from the following sources:

1. DHIS web API
2. Data entered into the tool by Central SOH

Thanks to the DHIS web API we are able to query for the data required in order for our tool to function as required. The API allows us to query for:

- Counties (their name, id and parent id)
- County Level drugs
- Central Level drugs

Data setup by the tool

- Sub-counties (their name, id, parent id)
- Mapping
- Facilities

This data is then used to populate the respective tables in the database for report generation.

Data setup by the tool

Master Data Setup

- **Funding agencies** - allows setup of various funding agencies that provide malaria commodities. This tool is dynamic in nature therefore allows continuous addition of funding sources as and when required.

The following details of the funding agencies are captured:

1. Funding agency e.g GoK, UNITAD, PMI etc..
2. Comment about the funding agency

- **Supply Chain Agencies**- allows setup of supply chain agencies that receive and issue malaria commodities. The tool allows for continuous addition of funding sources when required.

The following information about Supply chain agencies is captured:

1. Supply Chain agency e.g KEMSA
2. Comment about the supply chain agencies
3. Contact person
4. Contact phone

- **List of Malaria Zones** -The tool allows for the setup of malaria zones.

The following information about malaria zones is captured:

1. Zone e.g Zone 1 : Endermic
2. Comment about the malaria zone

- **List of counties** - The tool allows for the setup of counties information.

The following information about counties is captured:

1. Name of county e.g Muranga
2. Comment about the county
3. Zone e.g Epidermic

- **Malaria commodities data** -The tool allows setting up of Malaria commodities being tracked (AL 6s, AL 12s, AL 18s, AL24s, RDTs, Artesunate injection). The tool has easy capability of adding malaria commodities. The list of commodities generated is used in subsequent data capture sections.

The following information is captured:

1. Commodity name
2. Unit of measure
3. Name of funding agency - It is picked from the list of funding sources

- **Commodity level Data** -This tool allows for the following information to be defined:

1. Forecast period(number of years that the forecast covers)
2. Forecast start date
3. Forecast Monthly consumption for each commodity(obtained from the quantification report). This is entered for every month across the forecast period.

Information captured by the tool

1. **Central level Data** - Central level stock on hand (SOH). This information reflects the status of stock at central level and is received from KEMSA on a monthly basis. Once captured, this information is used to generate various required outputs. The central level stock on hand data is captured for each malaria commodity. Information on pending stocks as received from the supply chain agencies JSI Deliver and KEMSA is captured at this stage.
2. **Facility level data** - The tool allows for the capture of facility Level stock on hand for ACTs and RDTs. This information is obtained from DHIS2 and is keyed in.
3. **County level data** - The tool allows for the capture of county Level stock on hand for ACTs and RDTs. This information is obtained from DHIS2 and is keyed in. the tool should however has provision to retrieve this data from DHIS directly.

Processes

Procceses involved

After the capture of the monthly transaction data, the tool calculates the MOS data for facility, county and central levels

For the output below:

- The aggregated adjusted consumption is obtained by getting the sum of the adjusted consumption in B above across all the zones.
- The aggregated stock on hand is obtained by getting the sum of the aggregated stock on hand in step B above across all the zones.
- The months of stock is calculated as: $MOS = (\text{Stock on Hand}) / (\text{Average Monthly consumption})$.

Outputs

Key outputs

The tool is able to aggregate the Central level stock on hand and the pending stocks as per the funding agent in a table format for quick reference. This should be aggregated automatically.

The tool is able to list the incoming shipments information based on the expected/pending stocks information captured for the month.

The tool is able to aggregate the incoming shipments data from the pending stocks information captured and output an aggregate total per commodity information.

The tool is able to give a breakdown of the supporting agencies totals by commodity in the format below:

Graphical reports generated

The tool generates a graphical representation of:

- Central level stock on hand and Pending stocks in Months of stocks.
- Aggregated Facility level stock on hand
- Individual county level stock on hand
- Central level stocks and incoming shipments
- Aggregated facility MOS
- County level SOH
- Pending stocks color coded based on the delivery dates

Development tools

Below is a description of the development tools and technologies used to develop the malaria stock status monitoring tool.

MySQL database

- A MySQL database is used to store data.
- However, another database like PostgreSQL can also be used.
- The choice of the database was purely due to the rapid turn around time.

PHP and Apache2 for the server side

- The scripting language PHP and web server Apache2 were used for the server side logic.
- CodeIgniter PHP framework was used to develop the system.

HTML5, Bootstrap and JavaScript for user interface

Since this is a Web application, the interface is coded in HTML5 with Bootstrap framework incorporated to provide a better user experience. JavaScript is also used to make the interface responsive and event/data driven. JavaScript is also used for client side validation.

Project structure

The malaria stock status monitoring tool contains three parts:

1. Assets
2. Client
3. Database
4. System

Each part is crucial for this project.

Assets

These are the resources needed in this project.

It contains:

- CSS
- Bootstrap
- PHP - CodeIgniter framework
- JavaScript

Client

- This is the presentation and user interface logic.
- It contains scripts that will display on the browser. The client side is linked to the server side so that the user can make use of the server side logic.

Database

This is the database logic. It contains scripts for database authentication and connection creation as well as those for inserting, fetching and updating items on the database.

System

- This is the system environment variables. It contains parameters that need to be set for the system to run once deployed.
- They include the database authentication and connection creation.
- Edit the config (config.php) file to reflect your local environment.
- The project's landing page is at: <http://msh.urandu.com/>. It is the login page.

User guide

Introduction

MSH/HCSM is a key member of the Malaria drug management subcommittee, which is involved in the stockstatus monitoring of Malaria commodities both at the National and County levels.

On a monthly basis, the Malaria Control Unit, drug management committee meets to review the stock status of malaria commodities in the country, by analyzing data from various sources including:

1. Facility and County Level Stock Data from DHIS.
2. National Level Stock Status data from the Supply Chain Agencies (Central SOH).
3. Pipeline information based on pending shipments per funding agency.

This data is aggregated and analyzed for the different malaria commodities and a 2 pager report generated that indicates to management, the months stock status and pipeline monitoring of Malaria commodities.

Getting started

Purpose of this project is to create a stock status management tool that analyzes data from various sources for purposes of analysis and report generation.

The sources include:

1. Facility and County Level Stock Data from DHIS.
2. National Level Stock Status data from the Supply Chain Agencies (Central SOH).
3. Pipeline information based on pending shipments per funding agency.

System requirements

Chrome/Chromium browser is recommended for the application. This is because of the javascript used in the application wil be able to load faster.

Note

Login roles to the stock status management tool are also required inorder to access the application and its functionality.

Authentication is the process by which clients send login credentials over the HTTP to a web server. The request is associated with a specific user, while **authorization** determines if the user has permission to perform the requested operation.

Session Authentication

Logging in

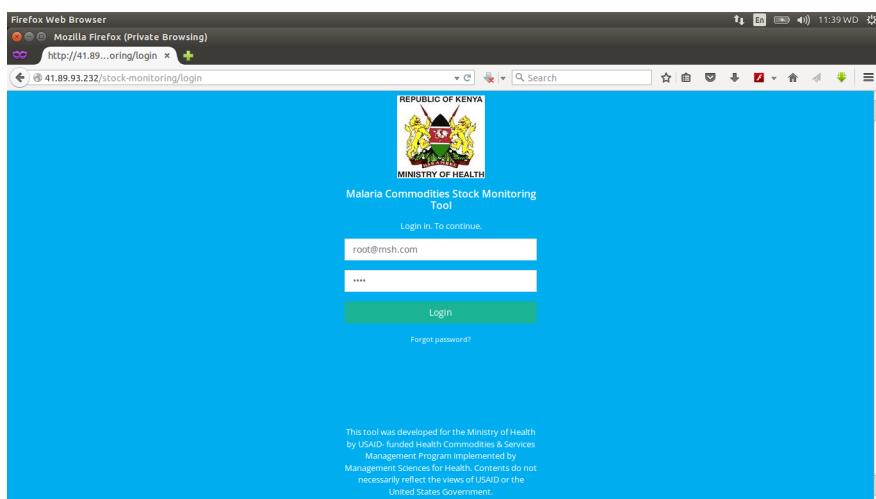
For the functionality of the system to be accessed, a user has to login to the application. The users of the system have to provide the *username* and *password*.

```
{  
    "username": "username",  
    "password": "password"  
}
```

Note

A successful login will lead you to using the application.

Here is a screenshot of the application login as seen by any given user:

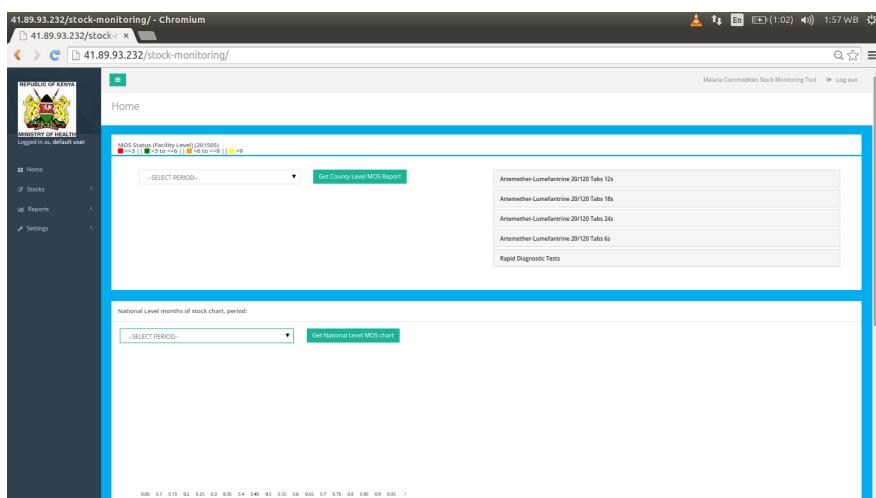


After successful login, the home page is loaded.

Note

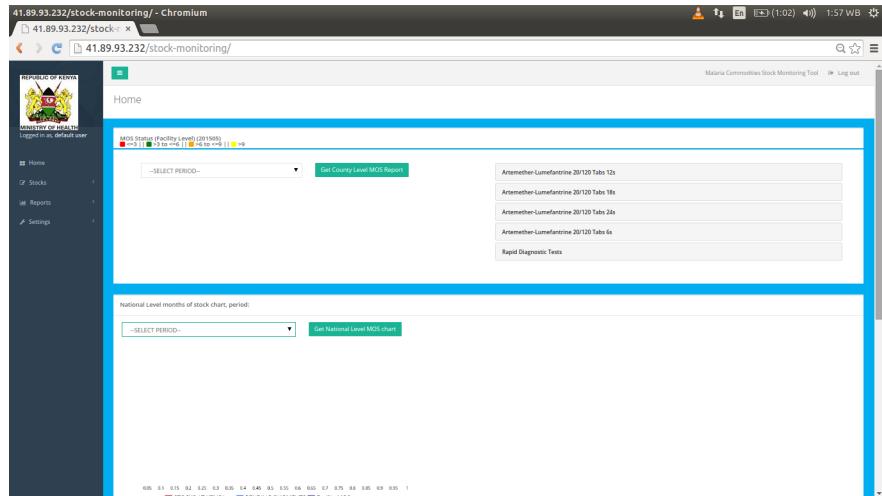
You do not have to login to DHIS2 to use the application.

Here is the screenshot of application layout as viewed by the admin:



User guide

Here is the screenshot of application layout as viewed by the read only user:



Logging out

Note

A given user can logout after using the tool by clicking the logout button located in the header. After logging out, the user is redirected to the login page.

Permissions

Login roles

There are various user roles according to the user who is logged in:

1. **Data Entry Users** who can only enter data into the system and view reports.
2. **General County** Who can only view county reports.
3. **General National** Who can only view national and county reports.
4. **The Admin** who has all access of the functionality of the system. These include:
 - Creation and management of users
 - Updating data that is used to generate reports

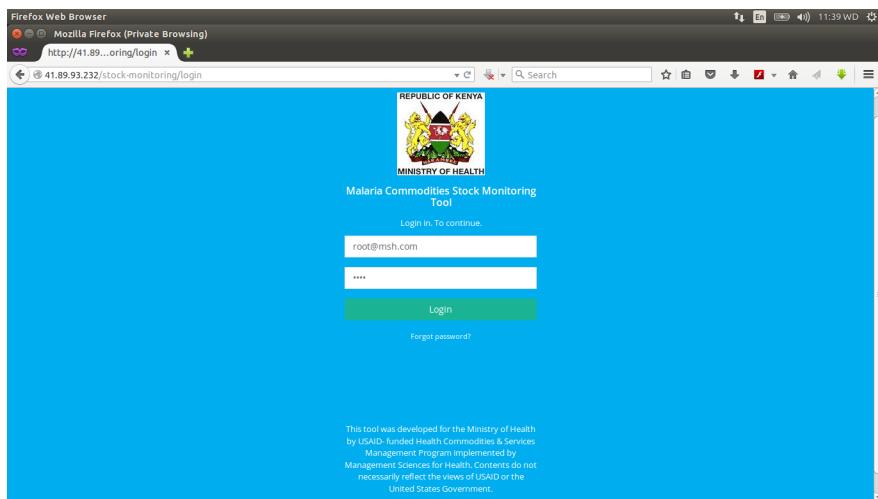
User management

The admin has all privillages and permissions to manage users. The admin has privillages to add new users and edit the existing ones.

Launching the Application

The stock status application is launched as a stand alone application since it is not incorporated in DHIS2. However, the application pulls data from DHIS2.

For the application to be launched, this [link](#) has to be typed in the browser. The link redirects the user to the login page.



Application Layout

This is the layout of the application:

The Admin View

Header

The header of the application has no menu. It has a title: *Malaria Commodities Stock Monitoring Tool*. It also has the log out icon that enables a user to log out of the system.

Side bar

The side bar of the application has an array of links as seen in the menu. The admin of the system can be able to view the following:

Home

This link redirects to the Homepage of the application. The dashboard is the home page of the system.

Stocks

This link allows the admin to view a report on the malaria stock. It includes:

1. Planned procurements
2. Pending shipments
3. Received stock
4. Update stock

Reports

This link is used to query various reports from the system. The reports include:

1. Central Level MOS
2. Forecast Data MOS
3. Facility Level MOS
4. National Level MOS
5. County Level MOS
6. Forecast Variance Tracker

7. Stocks
8. Pending Shipments Report
9. Total Pending Commodities per agencies
10. Individual Shipments

Settings

This link enables the admin to manage the following:

1. Funding agencies
2. Supply chain agencies
3. Commodities
4. Zones
5. Counties
6. Forecasts
7. Manage MOS color codes
8. Manage Users

Stocks

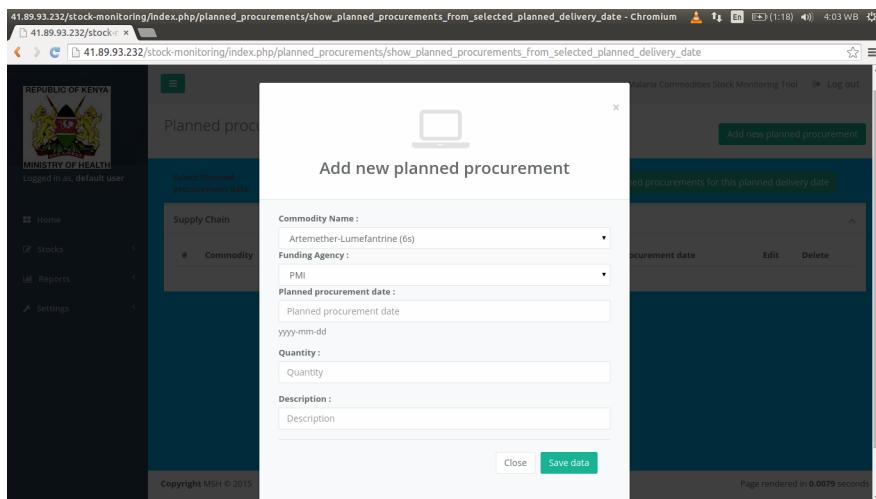
Planned procurements

As the admin, you select the planned procurement date from the drop down and then the report is generated.

The screenshot shows a web-based application interface for managing stock procurements. The top navigation bar includes the URL '41.89.93.232/stock-monitoring/index.php/planned_procurements/show_planned_procurements_from_selected_planned_delivery_date - Chromium' and the time '4:04 WB'. The main header says 'Planned procurements'. On the left, there's a sidebar with the 'REPUBLIC OF KENYA MINISTRY OF HEALTH' logo and a 'default user' message. Below the logo are links for 'Home', 'Stocks' (which is currently selected), 'Reports', and 'Settings'. The main content area has a section titled 'Supply Chain' with a table. The table has columns: '#', 'Commodity', 'Unit of measure', 'Funding agency', 'Quantity', 'Planned procurement date', 'Edit', and 'Delete'. Above the table, there's a dropdown menu labeled 'Select Planned procurement date' with the placeholder '—SELECT PLANNED PROCUREMENT DATE—' and a button 'Get planned procurements for this planned delivery date'. At the bottom of the page, it says 'Copyright MSH © 2015' and 'Page rendered in 0.0079 seconds'.

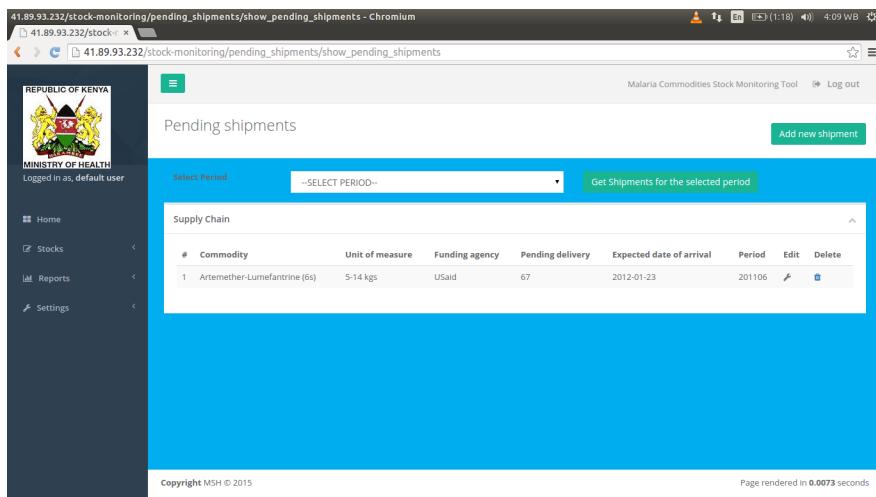
You can also add a new planned procurement by clicking the button "add a new planned procurement":

User guide

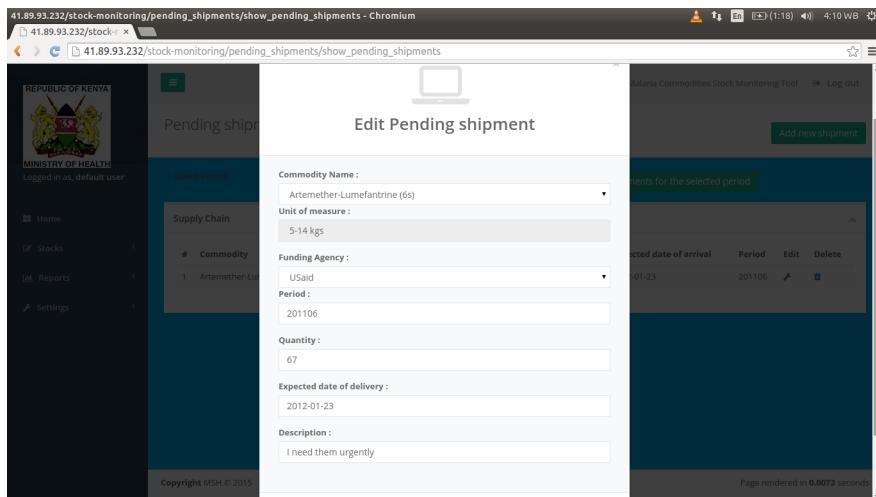


Pending shipments

This loads the panel for managing the pending shipments. As the admin, you click an item from the pending stock list given for editing or deleting.

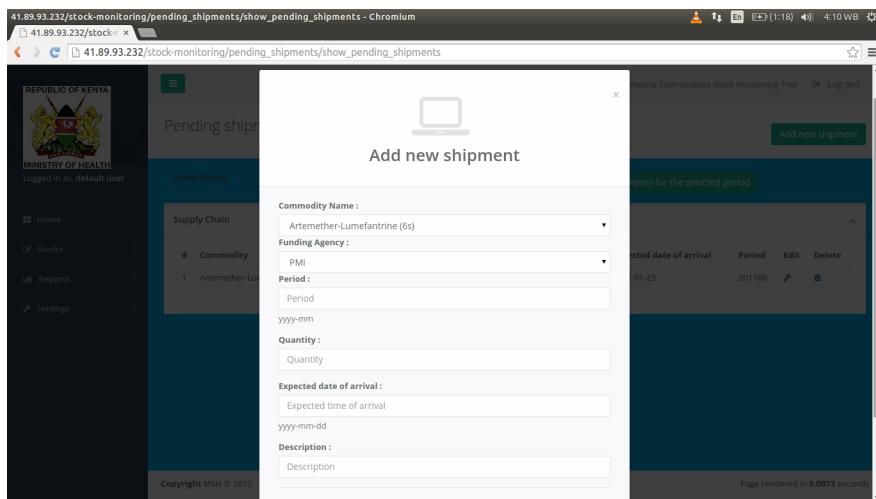


After choosing one of the pending stock, you can edit or delete it.



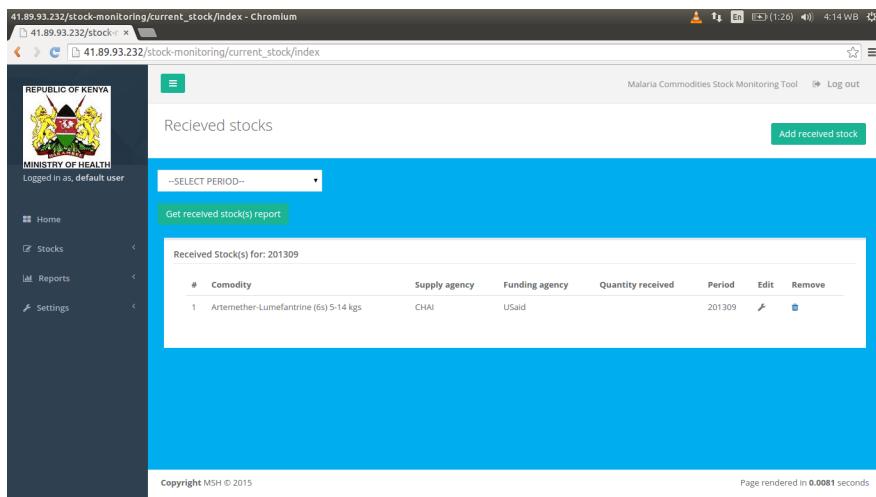
As the admin, you can also add a new transaction by clicking the button of adding a new transaction.

User guide

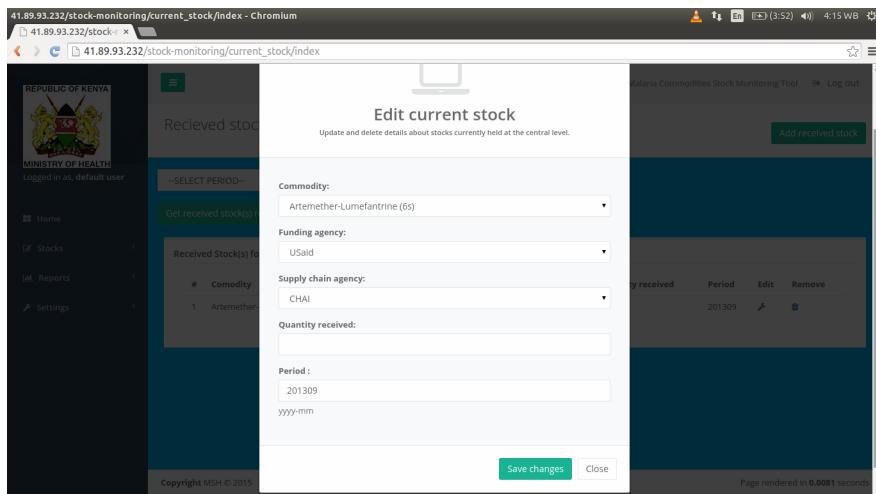


Received Stock

This loads the panel for managing the received stock. You click on an item from the received stock list given for editing or deleting.

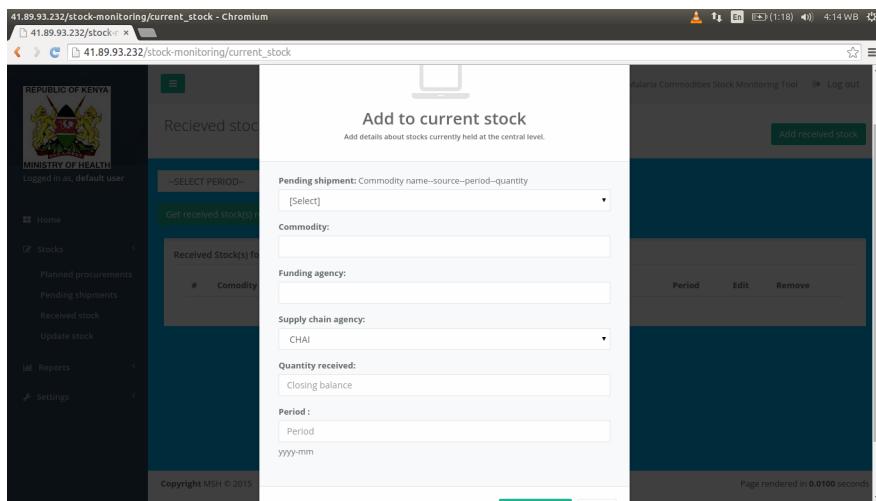


After choosing one of the current stock commodities, the admin can edit or delete it.



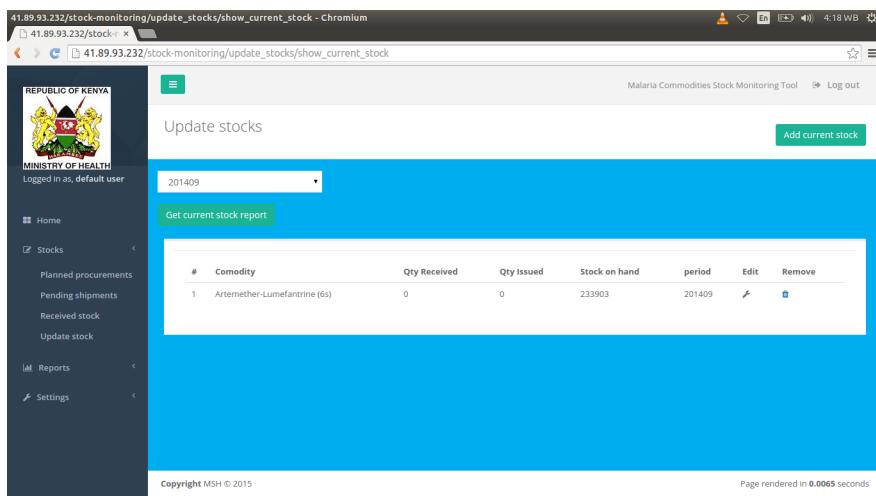
A user can also add a new record by clicking the button of adding a new record.

User guide

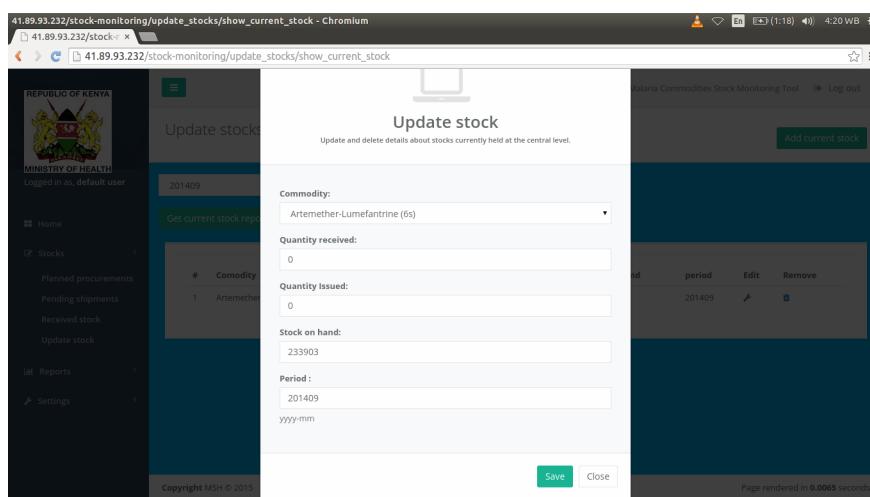


Update Stock

A panel for updating the current stocks. This panel enables you to view a list of the current stock.



1. You can select an item for editing or deleting from the system:



2. You can also add stock to the system:

User guide

Update stocks

201409

Add current stock

#	Commodity	Qty Received	Qty Issued	Stock on hand	period	Edit	Remove
1	Artemether-Lumefantrine (6s)	0	0	233903	201409		

Copyright MSH © 2015

Page rendered in 0.0065 seconds

Reports

Reports of the system are generated here.

Central level MOS Report(DHIS2)

It shows a report on the central level MOS from DHIS2. It reports on the following:

1. Commodity name
2. Adjusted Facility AMC
3. Central Stock on Hand KEMSA
4. Pending Shipments
5. Central Level MOS
6. Pending Shipments MOS

Central Level MOS

--SELECT PERIOD--

Get Central Level MOS Report

Commodity Name	Adjusted Facility AMC	Central Stock on Hand KEMSA	Pending Shipments	Central Level MOS	Pending Shipments MOS
Artemether-Lumefantrine 20/120 Tabs 6s	2321342		0	201309	0

Central Level months of stock chart

Facility Level MOS

A report on facility level MOS. It reports on the following:

1. Commodity name
2. Adjusted Facility AMC
3. Stock on Hand
4. Facility Level Month of Stock(MOS)

User guide

The screenshot shows a web-based reporting system for stock monitoring. The top navigation bar includes the URL '41.89.93.232/stock-monitoring/reports/facility_mos - Chromium' and the time '4:38 WB'. The main content area is titled 'Facility Level MOS' and contains a table with four columns: Commodity Name, Adjusted Facility AMC, Stock on Hand, and Facility Level Month of Stock(mos). The table lists several items, including Artemether-Lumefantrine 20/120 Tabs 12s, Artemether-Lumefantrine 20/120 Tabs 6s, Artemether-Lumefantrine 20/120 Tabs 18s, Artemether-Lumefantrine 20/120 Tabs 24s, and Rapid Diagnostic Tests. Below the table is a chart titled 'Aggregated Facility months of stock chart' showing the distribution of stock across different commodity categories.

National Level MOS

A report on national level MOS. It reports on the following:

1. Commodity name
2. Adjusted Facility AMC
3. Stock on Hand
4. Central Stock on Hand KEMSA
5. Pending Shipments
6. Facility Stock on Hand
7. Central Level MOS
8. Pending Shipments MOS
9. Facility Level MOS
10. National Level MOS

The screenshot shows the 'National Level MOS' report interface. The top navigation bar includes the URL '41.89.93.232/stock-monitoring/reports/national_mos - Chromium' and the time '4:40 WB'. The main content area is titled 'National Level MOS' and contains a table with nine columns: Commodity Name, Adjusted Facility AMC, Central Stock on Hand KEMSA, Pending Shipments, Facility Stock on Hand, Central Level MOS, Pending Shipments MOS, Facility Level MOS, and National Level MOS. Below the table is a chart titled 'Central Level months of stock chart'.

County level MOS Report(DHIS2)

It generates a report on the county level MOS. It reports on:

1. Commodity name
2. Aggregated Adjusted Consumption Totals
3. Aggregated Stock on Hand Totals

User guide

4. County level MOS

Commodity Name	Adjusted County AMC	Stock on Hand	County Level Month of Stock(mos)
Artemether-Lumefantrine 20120 Tabs 12s	895.4	1514.0	1.7
Artemether-Lumefantrine 20120 Tabs 24s	4072.2	585.0	1.4
Artemether-Lumefantrine 20120 Tabs 18s	418.9	1178.0	2.8
Artemether-Lumefantrine 20120 Tabs 6s	541	2048.0	3.8
Rapid Diagnostic Tests	2377.1	1146.0	0.5

Forecast Data MOS

A report on central level MOS using forecast data. It reports on the following:

1. Commodity name
2. Forecast Monthly Consumption
3. Stock on Hand
4. Forecast Month of Stock(mos)

Commodity Name	Forecast Monthly Consumption	Stock on Hand	Forecast Month of Stock(mos)
----------------	------------------------------	---------------	------------------------------

Forecast Commodities Data MOS for period: 201412

Forecast Variance Tracker

A report that tracks the forecast variance at a particular time.

User guide

The screenshot shows a web browser window titled "41.89.93.232/stock-monitoring/reports/variance_tracker - Chromium". The URL in the address bar is "41.89.93.232/stock-monitoring/reports/variance_tracker". The page header includes the "Malaria Commodities Stock Monitoring Tool" and a "Log out" link. On the left, there is a sidebar with the "REPUBLIC OF KENYA" logo and "MINISTRY OF HEALTH" text, followed by a user status message "Logged in as: default user". Below this are navigation links for "Home", "Stocks", "Reports", and "Settings". The main content area is titled "Forecast Variance Tracker" and contains a dropdown menu set to "201503" and a green button labeled "Get Forecast Variance". At the bottom of the page, it says "Copyright MSH © 2015" and "Page rendered in 0.0062 seconds".

Stocks

This shows a report on the individual available stock at a particular period. It reports on the following:

1. Commodity name
2. Unit
3. Central SOH
4. Total
5. Funding agency totals

The screenshot shows a web browser window titled "41.89.93.232/stock-monitoring/reports/stocks - Chromium". The URL in the address bar is "41.89.93.232/stock-monitoring/reports/stocks". The page header includes the "Malaria Commodities Stock Monitoring Tool" and a "Log out" link. The sidebar on the left is identical to the one in the previous screenshot. The main content area is titled "Stock report" and contains a dropdown menu set to "201407" and a green button labeled "Get stocks report". Below this, there are two tables: "Central level stocks and Pending shipments" and "Pending Shipments". The "Central level stocks and Pending shipments" table has columns for "Commodity", "Unit", "Central SOH", "Total", and "Source/Donor". The "Pending Shipments" table has columns for "Funding agency" and "Totals". Both tables show data for various funding agencies like PMI, USAID, Global Fund, UNICEF (PMI), Novartis (PMI), and Unicef.

Pending Shipments Report

It shows a report on the current pending shipment of commodities. It reports on the following:

1. Commodity name
2. Expected Stocks
3. Expected Shipments Totals

User guide

The screenshot shows the 'Commodities report' page of the Malaria Commodities Stock Monitoring Tool. The interface includes a left sidebar with navigation links like Home, Stocks, Reports, and Settings. The main content area displays a table for 'Expected Stocks' and 'Expected Shipments Totals' for commodity 'Artemether-Lumefantrine (65)'. The table has columns for 'commodity', 'Period: 201106', 'Expected Stocks', 'Expected Shipments', and 'Totals'. A note at the bottom right indicates the page was rendered in 0.0062 seconds.

Total Pending Commodities per source(Agency)

This shows total pending commodities per agency over a given period of time. It reports on:

1. Commodity name
2. Source(Source) Totals

The screenshot shows the 'Commodities per agency' report page. The left sidebar shows various reporting levels like Central level MOS, Facility level MOS, etc. The main content area displays two tables for 'Pending Stocks (65)' and 'Pending Shipments (65)'. Each table has columns for 'commodity', 'Period: 201106', 'Agency info', 'Funding agency', and 'Totals'. The first table shows totals for PMI, USaid, Global Fund, ICPA (PMS), Novartis (PMS), and Unaid. The second table shows similar data for the same agencies.

Individual shipments

This shows a report on the individual shipment of stock as per a given period. It shows the following details:

1. Commodity
2. Supporting agency
3. Quantity
4. E.T.A Details
5. Color code

User guide

The screenshot shows a web-based application interface for stock monitoring. At the top, there's a header bar with the URL '41.89.93.232/stock-monitoring/reports/individual_commodity - Chromium'. On the right side of the header are icons for volume, battery, signal strength, and time ('1:18'). The status bar at the bottom right shows '4:25 WB'. Below the header, the main content area has a title 'Individual pending commodities'. A dropdown menu shows '201106'. A green button labeled 'Get individual pending shipments report' is visible. Underneath, a table displays a single row of data: 'Artemether-Lumefantrine (65)' with 'Source' as 'Usaid', 'Quantity' as '67', 'E.T.A' as '2012-01-23', and a 'Color code' column containing a red square. The left sidebar includes a logo for 'REPUBLIC OF KENYA MINISTRY OF HEALTH' and navigation links for 'Home', 'Stocks', 'Reports', and 'Settings'. The footer contains 'Copyright MSH © 2015' and 'Page rendered in 0.0076 seconds'.

Settings

Funding Agencies

This loads the panel for managing the funding agencies. The admin clicks a funding agency from the list given for editing or deleting.

The screenshot shows a list of funding agencies. The header bar has the URL '41.89.93.232/stock-monitoring/funding_agency - Chromium' and the status bar shows '2:29 WB'. The main content area is titled 'Manage funding agencies' with a 'Add a funding agency' button. The left sidebar shows the Ministry of Health logo and navigation links. The central part lists six funding agencies with columns for '#', 'Funding Agency', 'Description', and 'Edit'. The data is as follows:

#	Funding Agency	Description	Edit
1	PMI	this is one of the main donors	
2	USAid	From the American people	
3	Global Fund	A partner of choice	
4	IPCA (PMI)	main donors	
5	Norvatas (PMI)	Another donor	
6	Ukaid	From the queen's people	

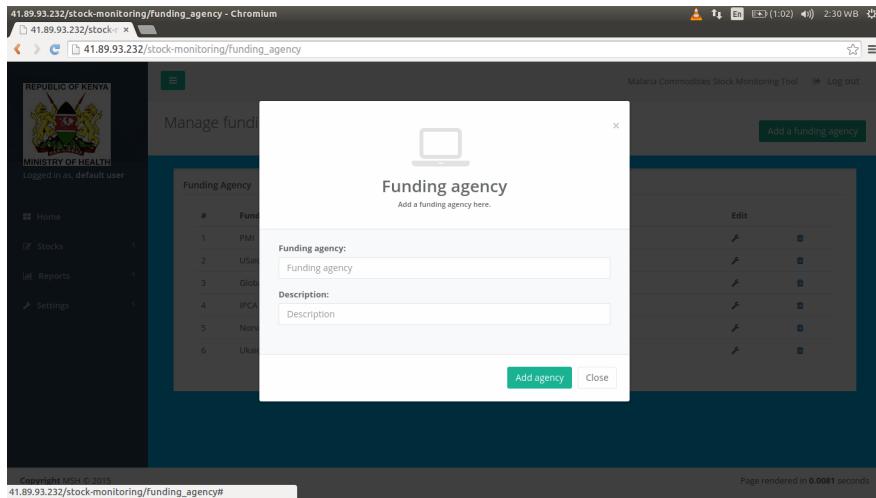
The footer shows 'Copyright MSH © 2015' and 'Page rendered in 0.0081 seconds'.

After choosing one of the agencies, the admin can edit or delete it.

The screenshot shows an 'Edit agency' dialog box overlaid on the main 'Manage funding agencies' page. The dialog has a title 'Edit agency' with a subtitle 'Update and delete details about a particular funding agency.' It contains two input fields: 'Commodity:' with 'PMI' and 'Description:' with 'this is one of the main donors'. At the bottom are 'Save changes' and 'Close' buttons. The background shows the list of funding agencies from the previous screenshot. The footer of the dialog says 'Page rendered in 0.0081 seconds'.

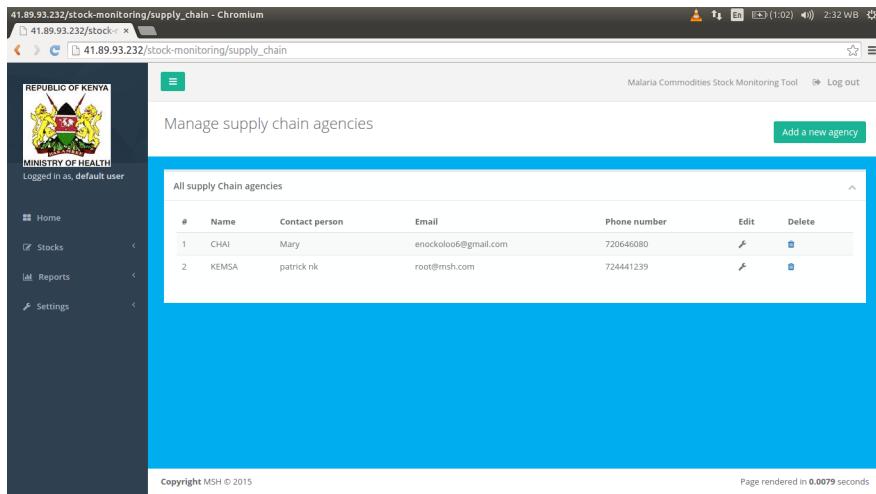
The admin can also add a funding by clicking the button of adding an agency.

User guide

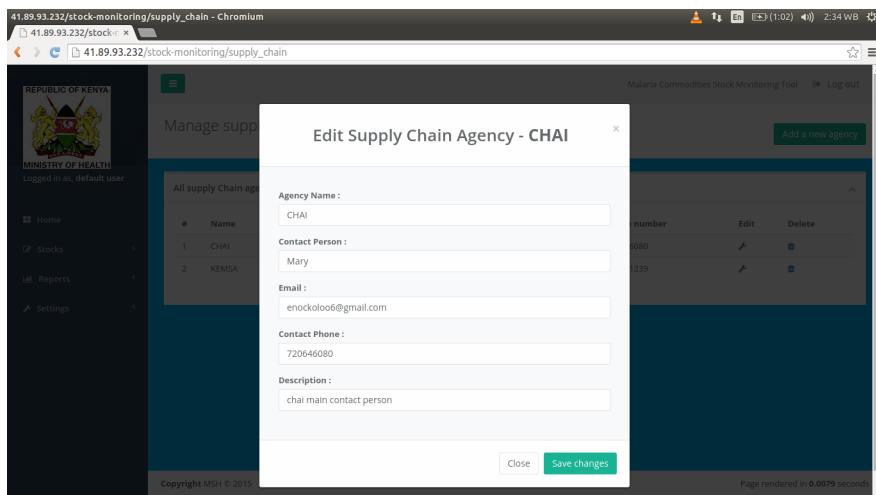


Supply chain agencies

This loads the panel for managing the supply chain agencies. The admin clicks a supply chain agency from the list given for editing or deleting.

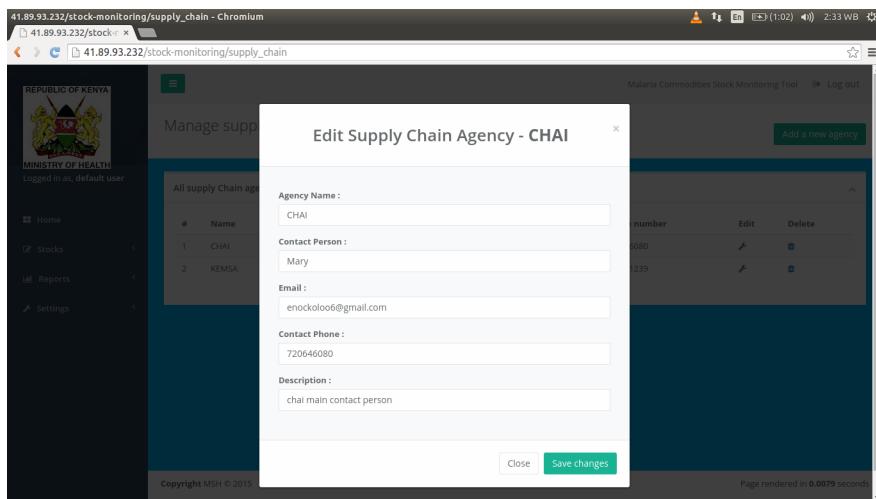


After choosing one of the supply chain agencies, the admin can edit or delete it.



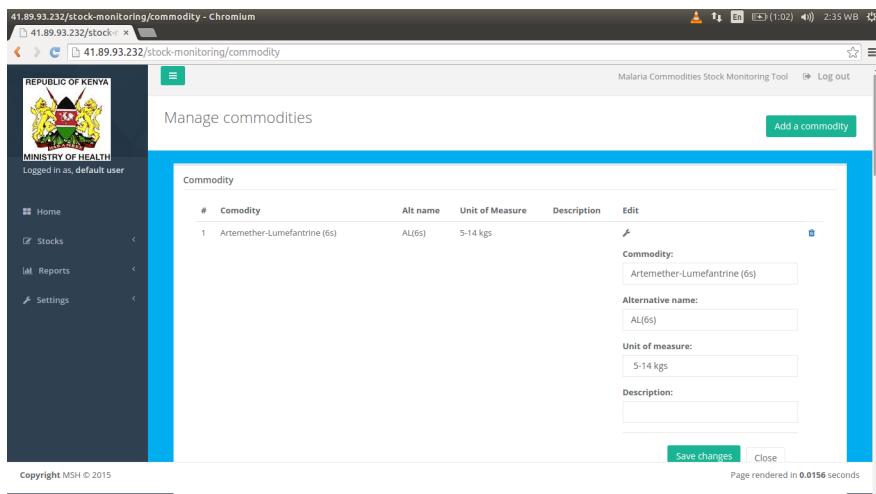
The admin can also add a supply chain agency by clicking the button of adding a supply chain agency.

User guide

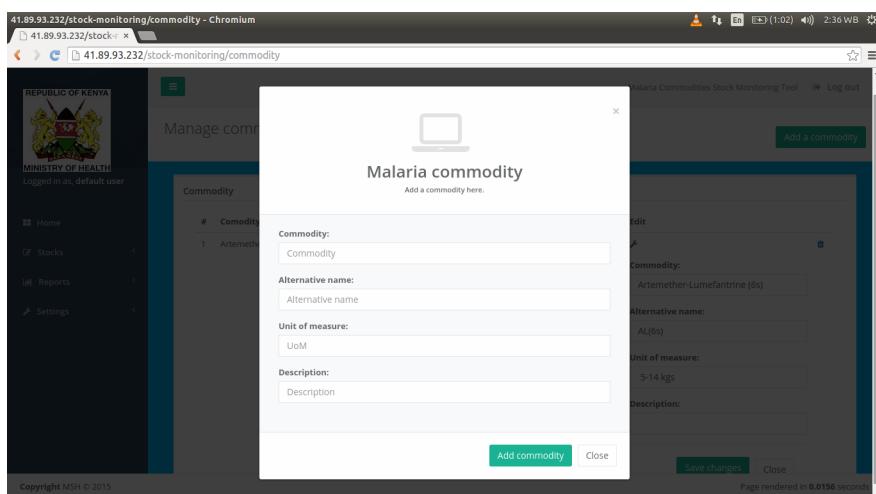


Commodities

This loads the panel for managing the individual commodities. The admin clicks a commodity from the list given for editing or deleting.



The admin can also add a commodity by clicking the button of adding a commodity.



Zones

User guide

The zones are managed here. The admin is able to view the already existing zones. There is an option for editing or editing the zones:

This screenshot shows the 'Manage commodities' page. On the left, there's a sidebar with the Kenyan Ministry of Health logo and navigation links for Home, Stocks, Reports, and Settings. The main area displays a table of commodities. One row is selected, showing details: Commodity (Artemether-Lumefantrine (6s)), Alt name (AL(6s)), Unit of Measure (5-14 kgs), and Description (empty). A modal dialog titled 'Edit' is open over the table, containing fields for Commodity, Alternative name, Unit of measure, and Description, all pre-filled with the same values as the table row. Buttons for 'Save changes' and 'Close' are at the bottom of the dialog.

Editing a zone:

This screenshot shows the 'Edit zone' dialog box. It has a header 'Edit zone' with a close button. Below it are two input fields: 'zone Name:' with the value 'Zone name' and 'Description:' with the value 'Zone description'. At the bottom are 'Close' and 'Submit' buttons. The background shows a list of zones in a table format, with the first few rows visible.

The admin can also add a new zone into the system. Here is the screen shot:

This screenshot shows the 'Add new zone' dialog box. It has a header 'Add new zone' with a close button. Below it are two input fields: 'zone Name:' with the value 'Arid/Seasonal' and 'Description:' with an empty field. At the bottom are 'Close' and 'Save changes' buttons. The background shows a list of zones in a table format, with the first few rows visible.

Counties

This loads the panel for viewing and updating counties. The admin clicks a specific county from the list given for updating the details about it.

User guide

The screenshot shows a web application interface titled 'Manage counties'. On the left, there is a sidebar with the 'REPUBLIC OF KENYA' logo and 'MINISTRY OF HEALTH' text. The main content area displays a table titled 'All counties' with 12 rows, each representing a county with its name and zone. The zones listed are: Baringo County (Low risk), Bomet County, Bungoma County, Busia County, Elgeyo-Marakwet County, Embu County, Garissa County, Homa Bay County, Isiolo County, Kajiado County, Kakamega County, and Kericho County.

#	County Name	Zone	Edit
1	Baringo County	Low risk	edit icon
2	Bomet County	edit icon	
3	Bungoma County	edit icon	
4	Busia County	edit icon	
5	Elgeyo-Marakwet County	edit icon	
6	Embu County	edit icon	
7	Garissa County	edit icon	
8	Homa Bay County	edit icon	
9	Isiolo County	edit icon	
10	Kajiado County	edit icon	
11	Kakamega County	edit icon	
12	Kericho County	edit icon	

After choosing one of the counties, the admin can edit the zone and/or the comment about it.

The screenshot shows a modal dialog titled 'Edit County' over a background of the 'Manage counties' page. The dialog contains fields for 'County Name' (set to 'Baringo County'), 'Zone' (set to '--SELECT ZONE--'), and 'Description'. At the bottom right of the dialog are 'Close' and 'Save changes' buttons.

Forecasts

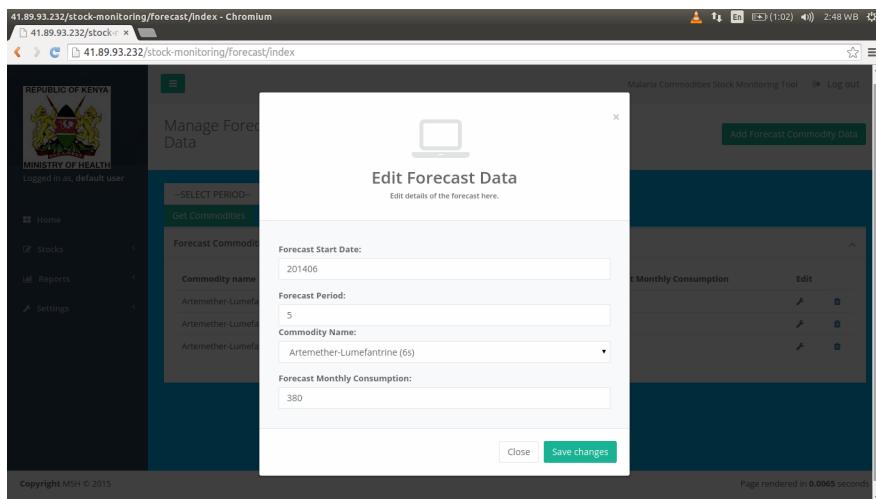
This loads the panel for managing forecast commodity data as per the selected period. The admin clicks an item from the list given for editing or deleting.

The screenshot shows a web application interface titled 'Manage Forecast Commodity Data'. On the left, there is a sidebar with the 'REPUBLIC OF KENYA' logo and 'MINISTRY OF HEALTH' text. The main content area displays a table titled 'Forecast Commodities Data for period: 201406' with three rows of data. Each row includes columns for Commodity Name, Forecast Start Date, Forecast Period, Forecast Monthly Consumption, and Edit/Delete icons.

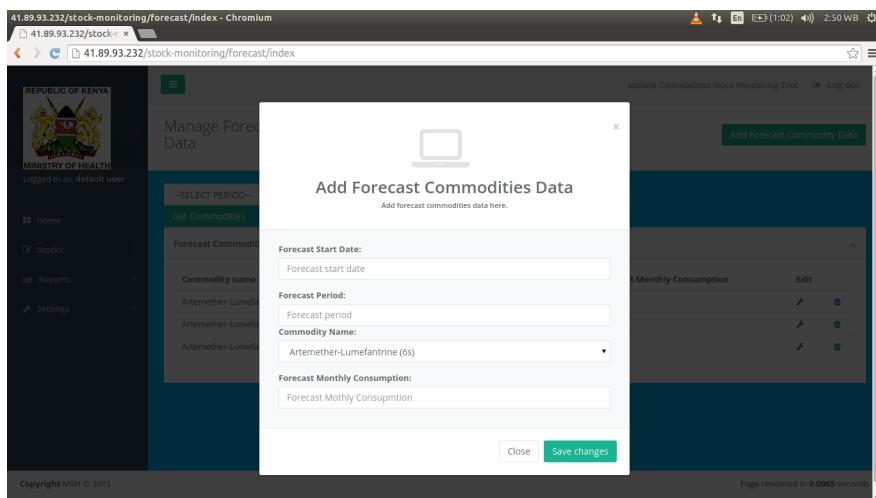
Commodity Name	Forecast Start Date	Forecast Period	Forecast Monthly Consumption	Edit
Artemether-Lumefantrine (6s)	201406	5	380	edit icon, delete icon
Artemether-Lumefantrine (12s)	201406	2	600	edit icon, delete icon
Artemether-Lumefantrine (18s)	201406	2	700	edit icon, delete icon

After choosing one of the commodities, the admin can edit or delete it.

User guide



A user can also add a static parameter by clicking the button of adding a static parameter.



Manage MOS color codes

This is the panel for management of the MOS color codes. The admin can view the list of the color codes that have been used in the system.

color code	color	Edit
1	red	Edit
2	green	Edit
3	orange	Edit
4	yellow	Edit

Manage Users

User guide

Here, the admin can view the list of the users registered in the system. The admin has the permissions of adding new users and updating their details.

The screenshot shows a web-based application interface for managing users. At the top, there's a header bar with the URL '41.89.93.232/stock-monitoring/users - Chromium' and a search bar. To the right of the search bar are icons for refresh, search, and a user profile. The main title 'Malaria Commodities Stock Monitoring Tool' is followed by a 'Log out' link. On the left, a sidebar features the Kenyan Ministry of Health logo and navigation links: Home, Stocks, Reports, Settings (which is currently selected), Funding agencies, Supply chain agencies, Commodities, Zones, Counties, Forecasts, Manage MOS color codes, and Manage Users. The main content area is titled 'Manage users' and contains a table with the heading 'All users'. The table lists three users: 'default user' (root@msh.com, ID number 29364156, phone 0722167368), 'user1' (user1@msh.com, ID number 25685324, phone 0722167368), and 'user2' (user2@msh.com, ID number 25685324, phone 0722167368). Each row has an 'Edit' link. At the bottom of the table, there are columns for Name, Email, ID number, and Phone number. The footer includes copyright information 'Copyright MSH © 2015' and a note 'Page rendered in 0.0061 seconds'.

Name	Email	ID number	Phone number
default user	root@msh.com	29364156	0722167368
user1	user1@msh.com	25685324	0722167368
user2	user2@msh.com	25685324	0722167368