Supply Chain Documentation

Release 1.0

sci devs

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This is documentation for the hierarchy of the drugs supply chain that is not captured in DHIS2 for purposes of analysis and report generation.

There is a downloadable PDF version of this documentation, a *mobile friendly EPUB version* and a *downloadable HTML version*.

Table of contents

1.1 Overview

The purpose of this project is to establish an hierarchy of the drugs supply chain that is not captured in DHIS2 for purposes of analysis and report generation.

As things stand, the Kenya instance of DHIS2 only establishes a hierarchy based on the countries administrative units which while important, does not capture the supply chain hierarchy.

The drug supply hierarchy needs to place facilities in their correct order clearly showing the reporting chain ie what facilities report to what and what facilities are children so to speak of what facilities.

1.1.1 Facility types

For ART-related medicines, the health facilities are categorized into five (5) types:

- 1. Central stores
- 2. Central store dispensing points
- 3. Satellite stores
- 4. Stand alone sites
- 5. Sub-County stores (formerly the district stores)

For Nutrition & HIV commodities, the health facilities are categorized into four (4) types:

- 1. Central sites
- 2. Central site Dispensing points
- 3. Satellite sites
- 4. Standalone sites

1.1.2 The reporting hierachy

The Standalone sites, Sub-county Stores and the Central sites form the **ORDERING POINTS**. These Ordering points are supplied by the national/central level stores, e.g. KEMSA. An Ordering point is defined as a designated Central site, Standalone site or a Sub-county store that orders ARV and OI commodities from the allocated commodity pipeline, e.g. KEMSA, NHPplus. Usually these are higher level facilities, e.g. hospitals.

A **Central site** is defined as a facility that provides ART/Nutrition services and also supplies lower level sites (Satellite sites) with ART-related medicines & nutrition commodities.

As an Ordering point, Central sites own (in the reporting hierarchy) the Central site Dispensing points and the Satellite sites.

A **Central site Dispensing point** is the Central site itself reporting for its own commodity stock and usage (without that of the Satellite sites), as a service delivery point.

Satellite sites are health facilities that report to the Central stores, i.e. that are health facilities providing ART/Nutrition & HIV services, that are supplied with commodities by a Central site or Sub-county store.

Usually these are lower level health facilities, e.g. health centres, dispensaries.

A **Sub-county store** is defined as a facility that DOES NOT provide ART/Nutrition & HIV services but supplies lower level sites (Satellite sites) with ART-related medicines and Nutrition & HIV commodities.

A **Standalone site**, as the name suggests, do not have any affiliation in the reporting hierarchy, i.e. they are facilities that provide ART/Nutrition & HIV services but DO NOT supply any lower level sites (Satellite sites).

Existing facilities (Level 4) are used as stores for the purpose of drug dispensing.

These facilities are captures in DHIS2 as Level 4 Organization Units and thus no hierarchy exists between them.

The purpose of this project is to establish that hierarchy.

Note:

- NASCOP maintains the list of approved Central, Satellite and Standalone sites, and Sub-County stores.
- Each Central site and Sub-county store has a defined list of Satellite sites.
- No Satellite site should report or receive stocks from more than one (1) Central site or Sub-county store.

1.2 Approach

The project is developed as a DHIS2 Data Aggregation WebApp that would run on an independent instance and maintain its own local database, but have the ability to read and write to DHIS2.

1.2.1 The web API and the database

The Web API is used to a great deal as a source of data for the backborne database used. The API allows us to query for all organization units and sort them into Counties (Level 2), SubCounties (Level 3) and facilities (Level 4). This data is then used to populate the respective tables in the database.

Once all this data is inserted into the database, the process of establishing which facilities lie under which category begins. This is left to the discretion of the user who is prompted to supply facilities under each category from the list we have.

The purpose of incorporating the existing DHIS2 hierarchy of counties and sub- counties is to aid the user in the search and selection process by providing a mechanism in which they can drill down to a smaller number of facilities as opposed to being presented with all the facilities at once e.g

- the user should be able to generate a combined report (MoH730A or MoH729A) for the Sub-county store and its Satellite sites.
- the user should also be able to group Standalone sites by county or sub-county (or Central sites or Sub-county stores).

Once the Central stores, dispensing points, satellite sites and stand alone sites are established and inserted into the database, DHIS2 Web API is queried for analytics based on the hierarchy established and the results displayed.

1.3 Project structure

The project contains three parts: api, assets, client, db.

Each part forms an important part of this project.

1.3.1 api

These are PHP5_CURL scripts that interact with the DHIS2 API. Data querying from DHIS2 API and some level of processing is done here.

1.3.2 Assets

These are the resources needed in this project. It contains the JavaScript, CSS, Bootstrap, Font-Awesome scripts.

1.3.3 Client

This is the presentation and user interface logic.

It contains scripts that will display on the browser.

1.3.4 db

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.

1.3.5 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 projects landing page is index.php which is located at its root. It is the login page.

1.4 User guide

1.4.1 Introduction

Managing supply chains in support of HIV/AIDS services is a formidable challenge, especially in developing countries. Expanding programs for HIV/AIDS, TB and malaria require strong and supportive laboratory services that depend on the availability of the required commodities to perform critical tests, with most tests requiring multiple

commodities to be available simultaneously. A correctly designed and run distribution system should keep the commodities in good condition, rationalize storage points, use transport as efficiently as possible, reduce theft and fraud and provide information for forecasting needs. This requires a good management of the system along with a simple but well-designed information system in place. The purpose of this project is to establish an hierarchy of the drugs supply chain that is not captured in DHIS2 for purposes of analysis and report generation.

As things stand, the Kenya instance of DHIS2 only establishes a hierarchy based on the country's administrative units (national, county, sub-county, facility), which while important, does not capture the supply chain hierarchy for ART-related medicines & nutrition commodities.

This supply hierarchy needs to place facilities in their correct order matching the flow of both data/information and health commodities; hence clearly showing the reporting chain i.e. what facilities report to which others, and what facilities report to the national/central level (NASCOP), hence instituting a parent-child relationship.

1.4.2 Getting started

The purpose of this project is to establish the current hierarchy of the ART-related medicines and Nutrition & HIV commodities supply chain, which is not captured in DHIS2, for purposes of analysis and report generation.

System requirements

Chrome browser is recommended for the application. This is because of the javascript that is used in the app. Its able to load faster in chrome.

Login roles to DHIS2 are also required inorder to access the application.

Logging in

You have to login to DHIS2 first:

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Kenya Health Information System Welcome to the Kenya Health Information System				
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	Sign in			
	Username			
	Password			
	Sign in			
	Forgot password?			
Powered by DHIS 2 Report ANY System Problem to the Service Desk			[Change lang	uage] 🌲

Note: Please note that you must have signed up in DHIS2.



Secondly, you must login to the application itself. Here is the login page:

A successful login will lead you to using the application.

Permissions

Login roles

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

- 1. Users who can read data only i.e generating and viewing reports. They dont have permissions to edit anything in the application.
- 2. Users who can do both read and write. These users have the permission to generate reports and also post back to DHIS2.
- 3. The Admin who has all the permissions in the application. These include:
 - Creation and management of programmes.
 - Creation and management of users.
 - Updating of basically everything in the application.

1.4.3 Launching the web application

This application is launched as a stand alone app, because it is not incorporated in DHIS2.

However, it pulls data from DHIS2.

In order to launch the app, you need to type the url

This will direct you to the login page where you can login.

1.4.4 Application layout

Header

The header of the application can be seen on the login page as 'Supply Pipeline Hierarchy Tool'. Below the header is a short welcome message "Welcome to the Kenya Health Information Systems" and a Logo.

Side bar

At the leftside bar, there is a list of links.

These links appear differently according to the user who is logged in.

The Admin can view:

Users

Here, the admin can create and manage different types of users.

- Go to the users tab at the leftside bar of the app.
- Click on 'create' to create a new user. Fill in details in the form that appears on the page and save.

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- You can also add a new user from DHIS2 by clicking on 'add form DHIS2' in the dropdown list.
- To edit the roles of a user, click on the 'edit' in the dropdown. In the window that appears, click on edit at the each user in order to edit.
- You can also click on the 'administration' to deactivate an account or update the details of a user.

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Programs

Here, you can create and manage programs.

- 1. Click on the programs tab on the leftside bar, on the dropdown that appears, click on the 'create' to create a new program.
- 2. On the window that appears, fill in the details of the program you want to create i.e the program name and the datasets for the program.

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You can also click on the 'edit' in the dropdown to change the details of a program or 'administration' to delete a certain program.

Classify

Here you can classify facilities according to the hierarchy, either as sub-county stores, central stores, satellite sites or stand alone sites.

- 1. Click on the classify tab on the leftside bar, on the dropdown that appears, select either sub-county stores, central sites, satellite sites or stand alones.
- 2. Once you click 'sub-county stores', a new window will be loaded containing a form where you will;
 - Select the program you want to classify and submit.
 - Select the sub-county stores that the program will be attributed to and submit.
- 3. When you select the 'central site' from the dropdown;
 - select the program you want to classify and submit.
 - Below that, select the central store you want the program to be attributed to and then submit.
- 4. When you select the 'satellite site' from the dropdown;

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	8Th Street Clinic A To Z Quality Health Family Health Services			
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	AAR Eldoret AAR Health Care				
	AAR Healthcare Limited (Karen)				
	AAR mountain mall				

• Here, you can either classify the satellite as a sub-county store satellite or a central site satellite. Just click on any of the links according to the classification you want.

For example, if you select the sub-county store satellite link,

- Select the program you want to classify and click submit.
- Below it, select the sub-county store (the parent to the satellite site) and submit.
- Below that, select the satellite sites that will have the sub-county store selected above as their parent and then submit.

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The same procedure applies when you select the central site satellite link.

In the dropdown, when you click on 'Stand Alones', you will just follow the same procedure for classification.

Note: This establishes a hierarchy of the supply chain for report generation.

Updates

There is need to query DHIS2 for newly updated organization units, facilities and datasets.

- 1. click on the 'updates' link in the leftside bar of the application.
- 2. From the dropdown that appears below the link, select either counties, sub-counties, facilities or datasets inorder to update them respectively.

Administration

Here, the admin can delete a supply hierarchy from the system.

He/She can also restore deleted data since its not deleted permanently.

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Reports

This link is used to query for various reports including program reports, supply hierarchy reports and dataset reports

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

The user with the role 'Read' can only view the reports link on the leftside bar.

Here is the app layout as viewed by the 'Read' user:

The user with the Write access view the Reports link on the leftside bar and can also post back to DHIS2.

Here is the app layout as viewed by the 'Write' user:

1.4.5 Tasks

Assigning a dataset to organization units

This is done in the DHIS2 test site.

- 1. In DHIS2 apps, select the data sets app.
- 2. Type the name of the dataset you want to assign at the top and click on the filter button.
- 3. The dataset will be filtered and displayed on the screen.

Click on it, you will see a drop down appear.

- 4. Select the first option, (assign to organisation units).
- 5. Select the org units you want to assign the dataset to and then click on the save button at the bottom of the page.

Supply Chain Hierarchy Tool Review • Kelvin Wahome ACCESS: ADMN © (update profile) • 0 SUPPLY CHAIN HIERARCHY [?? Read the User Guide • Users Supply Chain Hierarchy Tool Supply Chain Hierarchy Tool • Users Supply Chain Hierarchy Tool Supply Chain Hierarchy • Users Supply Chain File Supply Chain File • Classify Supply Chain File Supply Chain File • Classify Classify This menu allows the user to creater or and rasigning them roles, users can be created by entering ther details and login credentials or by pulling existing DHIS2 users or click on CREATE E toot or click on CREATE E button or click on CREATE E button or click on CREATE E toot or click	^ 9	⋒	♠	9	=	=
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REPORTS	Reports Posting Back Data This system provides several reports both from its This system allows for posting back of data to	
Programs	internal database and from DHIS2. Use REPORTS respective DHIS2 datasets. From REPORTS to generate such kind of reports. Programs report generate a dataset report queries on which the	
Supply Hierarchy	shows a breakdown of created programs. Supply changes to be written back appear. User the POST hierarchy reports shows the hierarchy classified button to write back data to that specific dataset.	
Data Set Report	under each program. Dataset Report queries DHIS2 for specific dataset reports according to the program supply pipeline hierarchy. Follow the prompts. This button appears once the report has fully loaded. You may need to supply your DHIS2 once prompts.	

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Note: Please note that you must be logged into DHIS2

Accessing the data entry form

- 1. To access the data entry window, click on the apps tab at the top bar. A drop down will appear listing all the apps in DHIS2.
- 2. Select the Data Entry option.
- 3. Locate the organisation unit you want to register data for in the tree menu to the left. Expand and close the branches by clicking on the +/- symbols. You can also search for the orgunit at the green symbol above the tree, but you need to type the full name inorder to match the orgunit.
- 4. Select a dataset from the drop down list of datasets which are available for the orgunit which you have selected.
- 5. Select the period you want to register data for. The available periods are determined by period type of the dataset. You can also jump a year back or forward by clicking the tabs: Prev year and Next year respectively.
- 6. By now you should be able to see the data entry form.

Entering data for satellite sites

1. Having selected the correct orgunit, dataset and period, Start entering data by clicking inside the first field and type in the value.

Move to the next field by clicking the tab button. You can also move back by clicking shift+tab.

A green field will indicate that the values are saved in the system.

2. If you type in an invalid value, you will get a pop-up that explains the problem and the field will be coloured yellow (not saved) until you have corrected the value.

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- 3. If you have defined a min/max range for the field (data element+organisation unit combination) a pop-up message will notify you when the value is out of range, and the value will remain unsaved until you have changed the value.
- 4. If a field is disabled (grey in color) it means that the field should not be filled. The cursor will automatically jump to the next open field.
- 5. You can view the data history window by doubleclicking on any input field. This shows you the last 12 values entered for the input field in a bar chart.

This window also shows the min and max range and allows for adjusting the range for the specific organisation unit and data element combination.

Collection of aggregated data for the satellite sites

- 1. In the app (Supply Pipeline Hierarchy Tool), on the leftside bar, click on the Reports tab. You will see a dropdown appear below the tab.
- 2. Click on the Datasets report, this will direct you to another page where you will have to select;
 - Type of program you want to get the report for.
 - The name of the dataset.
 - The reporting period for the report. If monthly, select the month for reporting.
 - The reporting orgunit.
- 3. Click on the Get report button at the bottom of the form.
- 4. This will get the aggregated data for the satellite sites which are under the central site you selected earlier.

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Update of central site data

- 1. Once the data has been aggregated in the report, you can update by posting it back to DHIS2.
- 2. This can be done by clicking on the post data button at the top of the form.

Sites Analytics

This functionality is basically for displaying the list of facilities by program and by type.

- 1. Inorder to access this functionality;
- 2. Go to the Reports link on the leftside bar of the application and click on it.
- 3. In the dropdown that appears, select the Sites Analytics option. A new window will be loaded.
- 4. In the form that appears on the page, select the program that you want to get the report on. For example, NASCOP- ART.
- 5. Select the type of report you want to get, for example, list of ordering points, distribution of ordering points by county, list of service points.
- 6. Select the Report Organization Unit to report on.
- 7. click on the get report button at the bottom of the form.

This will load for you the report which you want according to the detils you entered in the form.

Getting ART Reports

This functionality is for getting all types of reports that are limited to ART program in DHIS2.

In order to access this;

1. Go to Reports link on the leftside bar of the application and click on it.

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- 2. In the dropdown that appears, select ART Reports.
- 3. A new window will be loaded, fill in the details in the form that appears.
- 4. In the form, Select the type of report that you want to get.
- 5. Select the period for reporting(monthly) and then select the organization unit.
- 6. Then click on the Get report button at the bottom.

This will load for you the report according to the details which you entered in the form.

1.4.6 Other procedures

Get reports

Apart from generating aggregated data for satellite sites (dataset reports), one can also get reports on programs and supply chain hierarchy.

Generating a supply hierarchy report

- 1. From the leftside bar of the application, click on the reports link.
- 2. From the dropdown that appears below it, select Supply Hierarchy.
- 3. A window will loaded displaying a program and the various site classifications.

Generating a program report

- 1. From the leftside bar of the application, click on the reports link.
- 2. From the dropdown that appears below it, select 'Program'.

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3. A window will be loaded showing programs and the different types of sites which the progrm is assigned to(subcounty stores, central sites, satellite sites, and stand alone sites).

You will also be able to see the various datasets that are assigned to a certain program(s).

1.4.7 Trouble shooting

Restore of deleted data

One can retore deleted data by:

- 1. Click on the administration link on the leftside bar of the app.
- 2. A dropdown will appear, click on the first option i.e Supply Hierarchy inorder to delete a supply hierarchy.
- 3. Click on the second option inorder to restore deleted data.

A window will be loaded showing all the deleted data.

- 1. If you want to retrieve the data, click on the restore button at the end of the specific row.
- 2. If you want to delete permanently, click on the 'delete permanently' button at the end of the row.

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