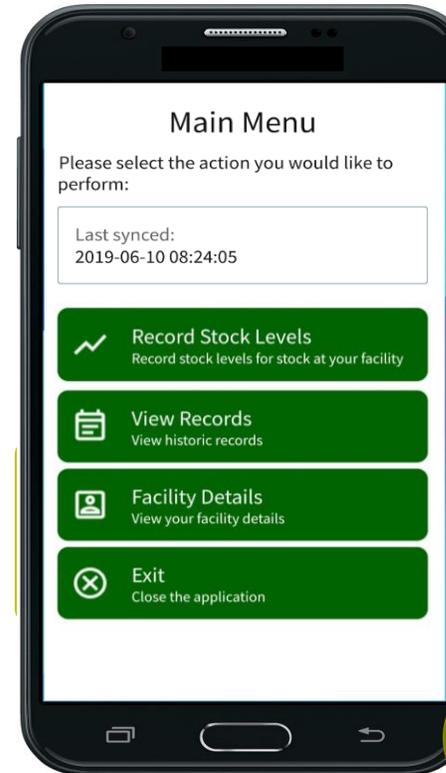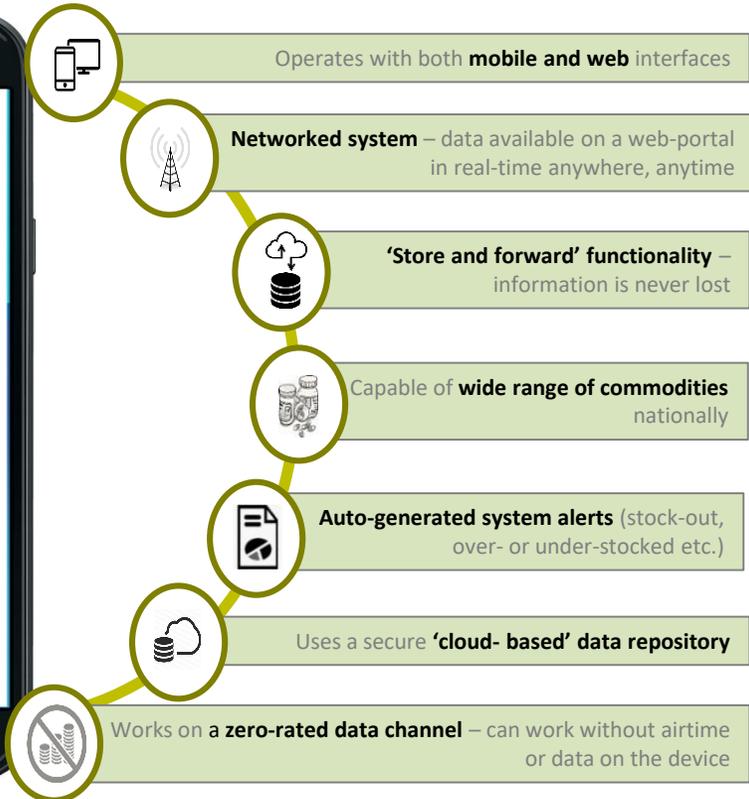# Stock Visibility System (SVS)

Introduction to SVS

What is SVS?

- A **mobile application** (SVS App) + **web management portal** (SVS Web) used to monitor availability of medicines and other health commodities (including PPE)

- Used at over **3,000 primary health care clinics** and over **300 hospitals** in South Africa since 2015

- Used widely to support the **prevention and resolution** of medicine and health commodity **stock outs**

- In 2020, SVS was deployed to public sector hospitals to monitor **PPE availability**

Platform for monitoring the availability of and

Key features of SVS

Operates with both **mobile and web** interfaces

Networked system – data available on a web-portal in real-time anywhere, anytime

'Store and forward' functionality – information is never lost

Capable of **wide range of commodities** nationally

Auto-generated system alerts (stock-out, over- or under-stocked etc.)

Uses a secure **'cloud- based' data repository**

Works on **a zero-rated data channel** – can work without airtime or data on the device

⚠️ **Only sites which will be storing the Covid-19 vaccine will need to use this instance of SVS.**

Main Menu
Please select the action you would like to perform:

Last synced:
2019-06-10 08:24:05

Record Stock Levels
Record stock levels for stock at your facility

View Records
View historic records

Facility Details
View your facility details

Exit
Close the application

health
Department:
Health
REPUBLIC OF SOUTH AFRICA

NATIONAL DEVELOPMENT PLAN
2030

Phila
Inspired to live

Introduction to SVS

Nota Bene:

This mobile app and web-portal **are completely separate from the version currently being used** to monitor availability of essential medicines and related commodities at public Primary Health Care (PHC) clinics and hospitals

covid19vaccinesza.app
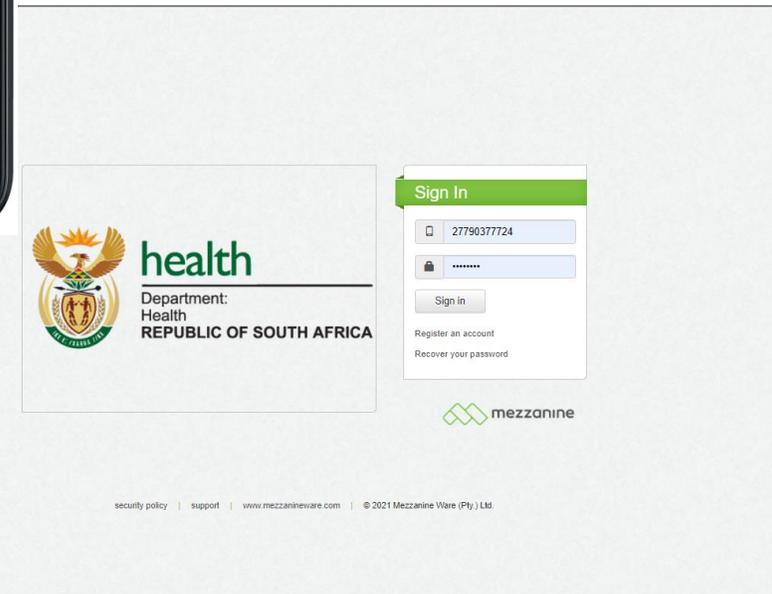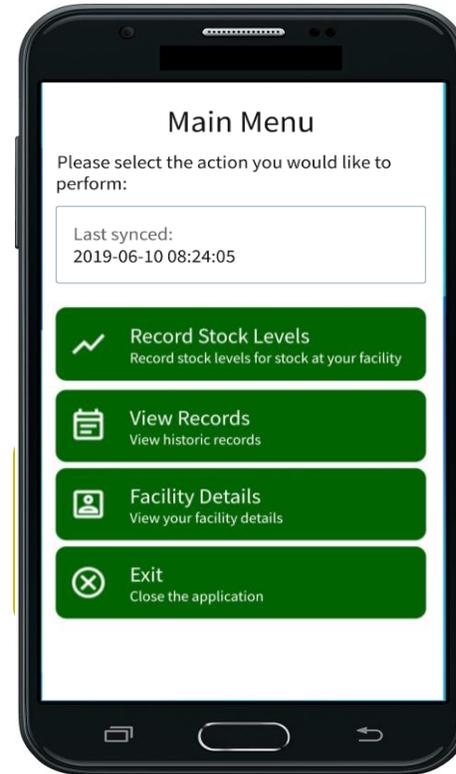
Why SVS in the Covid-19 Vaccines Supply Chain?

- Ensure **access** to the relevant vaccine and ancillary item **availability data** to inform decision-making

- Enable **rapid turnaround time** in the data analytics and planning process

- **Ease of reporting**

- **Data standardisation**

- Ensure **optimised and equitable distribution** of vaccine and ancillary items

System Overview

SVS Site Enrollment

How to start using the application

You can use one of two methods to capture data:

1. **Mobile App Version:** Download an app to your **Android phone**, and capture on mobile. The app works offline then syncs the data across. If you have a Vodacom SIM it works without mobile data or airtime. If using any other network, the mobile device will require a small amount of data bundles or access to WiFi to work.

2. **Desktop Web Version:** Download a **desktop application** to your **Windows device**, and capture stock levels on your computer - it must have network connectivity e.g. WiFi Dongle, fibre etc.

Although any device can be used for the mobile app version, the mobile process is zero-rated **only** when using the Vodacom network. The use of different network providers may attract a service fee.

health
Department: Health
REPUBLIC OF SOUTH AFRICA

NATIONAL DEVELOPMENT PLAN
2030

Phila
Inspired to live

To note for new sites…

- Only **ONE person** per facility can **enroll the device**, using either Mobile OR desktop.

- Thereafter, anyone trained and knowledgeable can submit data.

This is to ensure only one source of data emanating from each facility/site.

health
Department:
Health
REPUBLIC OF SOUTH AFRICA

NATIONAL
DEVELOPMENT
PLAN
2030

Phila
Inspired to live

SVS - Mobile Overview

How to start using the application (Existing and new mobile devices)

Each vaccination and distribution site will receive an SMS that contains the Enrollment link and enrollment code specific to the facility/site. It will work on most Android devices:

- **Step 1** – Click on the link in the SMS, it will install the APK on your phone, or download using the short link: http://bit.ly/ndohvaccines

- **Step 2** – Locate the SVS Covid-19 application

- **Step 3** - Open the application, and when it asks for your enrollment code, enter the one provided to you in the SMS

- **Step 4** – Enroll, login and check that the application reflects your facility (see next slides)

SVS - Desktop Application

Web Enrollment Requirements

1. All sites will need to have access to a **computer** (laptop or desktop) and **internet connectivity**;

2. Each site will need a **designated person** (name and contact details) responsible for enrolling the device the first time; and

3. An **email** with the enrollment link and enrollment code will be sent to the site's designated person.
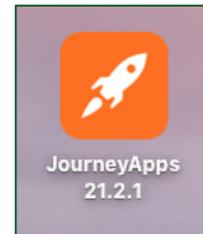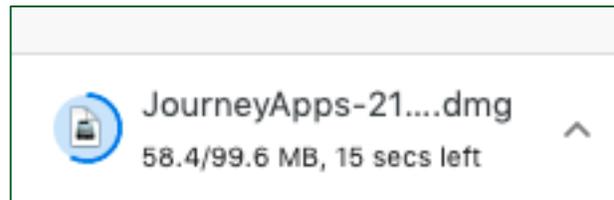
Uploading the Desktop Application

You will **click on the enrollment link provided via email** or WhatsApp, then select 'Enroll on Desktop':
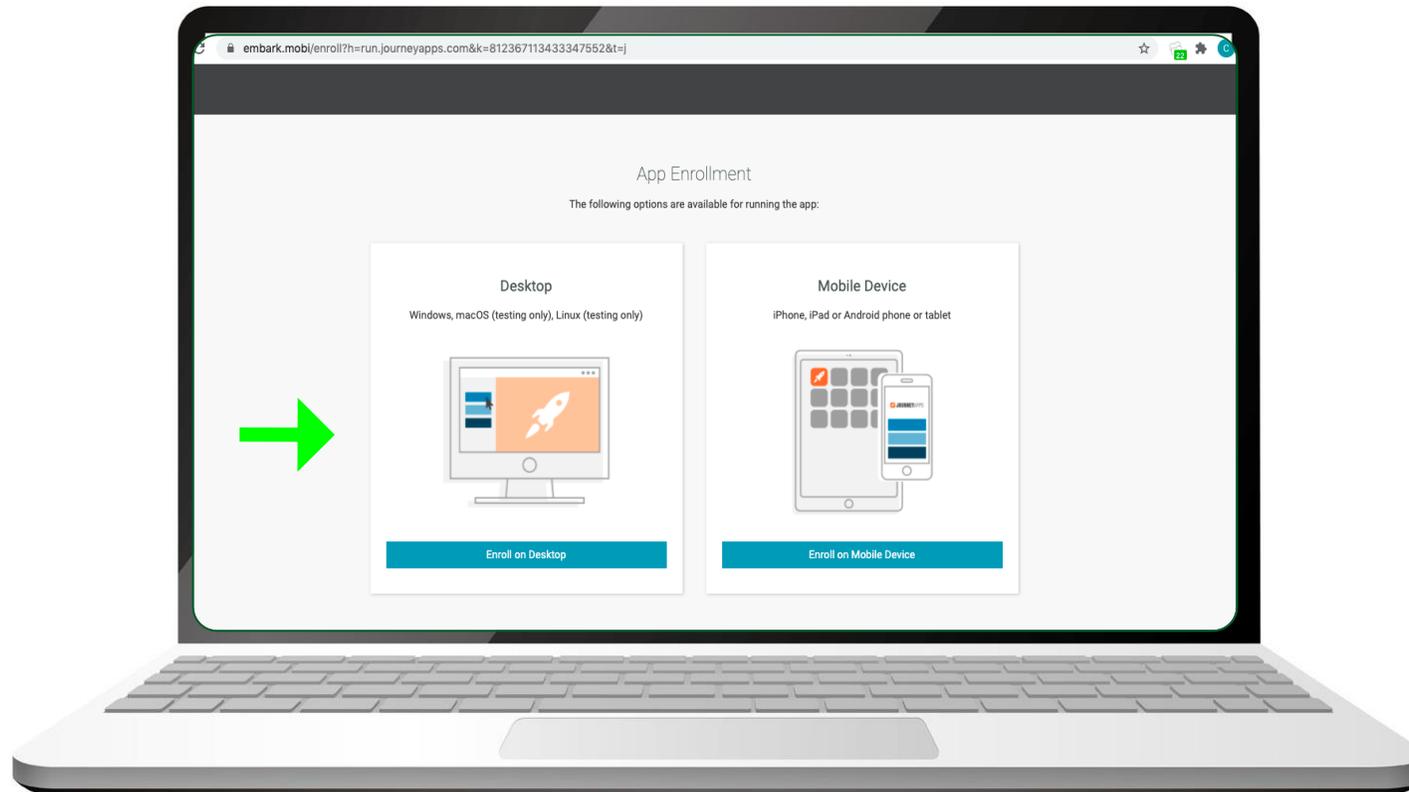
Uploading the Desktop Application

- The Journey Apps container will download to your PC, then you can install it via the installation wizard or however you usually install an application:

- Once installed, you can click on the '**Launch**' link on the same screen.

SVS Covid-19 Data Capturing Fields

Reporting Definitions

Current Stock Level – Vial count in the main storage location (cold room/ fridge) at close of business daily;

Expiry Date – date up to which a medicine will retain the strength and other properties as stated on the label;

Stock Received – Vial count delivered since the last daily update;

Stock Lost – Vial count of any wastage due to breakage, expiry, and pilferage etc.;

Stock Issued – Vial count issued out of the main storage location (cold room/ fridge) for the day; and

Stock transferred – Vial count sent to another vaccination/ distribution centre.

SVS Covid-19 Reporting Schedule

How to Update Stock Levels

The **Covid-19 vaccine** reporting cycle is **daily, close of business**.

Stock updates for both the vaccine and ancillary items must include:

- Current stock levels;
- Stock Expiry date;
- **Stock Received**;
- **Stock Lost**;
- **Stock Issued**; and
- **Stock Transferred.**

> **Ancillary Items Reporting:**
>
> **Weekly reporting** for ancillary stock levels along with current medicines and/or PPE reporting cycles.

N.B.: To ensure data quality <u>ALL</u> fields must be updated as is relevant at close of business daily.

**The last update stock levels for the week will reflect your week closing balance.**

health
Department:
Health
REPUBLIC OF SOUTH AFRICA

NATIONAL
DEVELOPMENT
PLAN
2030

Phila
Inspired to live

SVS Overall Reporting Schedule

	Stock Items	Reporting Frequency	Data Fields Captured
SVS Medicines (ndohsvs.app) NDoH SVS	- Essential Medicines	- Weekly (Friday close of business)	- Current Stock Level - Expiry date
	- PPE stock items	- Weekly (Friday close of business)	
SVS Covid-19 (covid1...za.app) SVS Covid-19	- Covid-19 vaccines	- **Daily (close of business)**	- Current Stock Level - Expiry Date - Stock Received - Stock Lost - Stock Issued - Stock transferred
	- Ancillary items	- Weekly (Friday close of business)	

Department: Health
REPUBLIC OF SOUTH AFRICA

2U3U

Inspired to live

Mobile and Desktop - Syncing to the SVS Web (Reporting)

- Check the **Main Menu** screen to see when you have last synced the SVS phone to the web.
- After you have selected the **sync button** (the circle with arrows in the top right corner) and it turns green, indicating the last successful sync.
- **Note:** For the mobile app, the sync does not require data or airtime if using a Vodacom SIM, only a mobile signal is required as the application is zero-rated on the Vodacom sim.

If you struggle to sync please see troubleshooting on next slide.
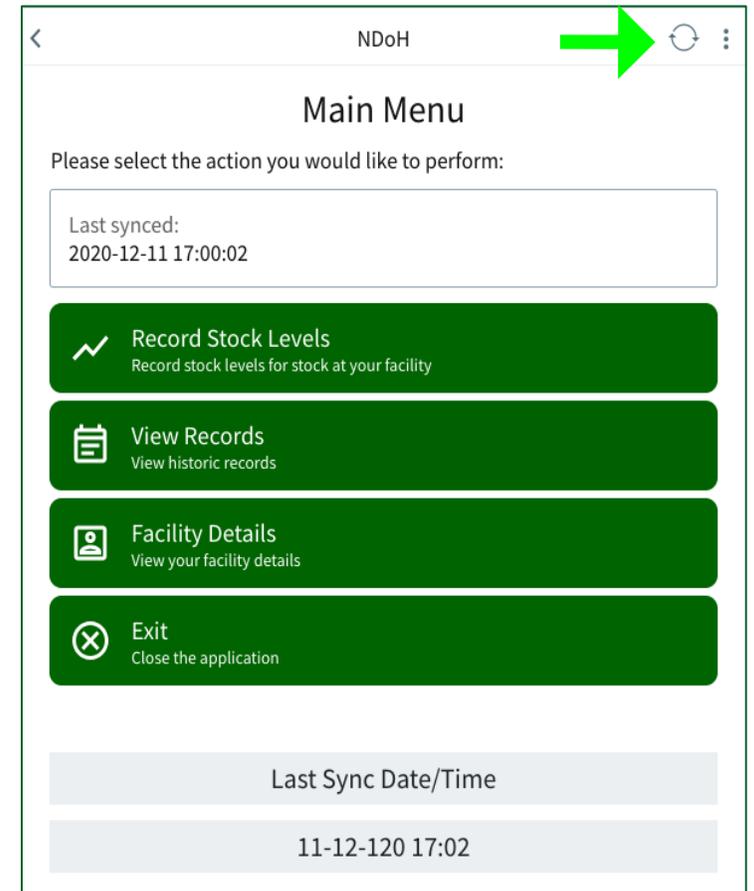
App Update - Mobile and Desktop

Every time you see the 'update app' banner, please update your application.

Sometimes it contains new features, or bug fixes, so it is important you are on the correct version.

The app is zero-rated on the Vodacom network so these updates will not take any data, they just need network signal. If you are on another SIM Card/ network, you will need data bundles or WiFi in order to sync.
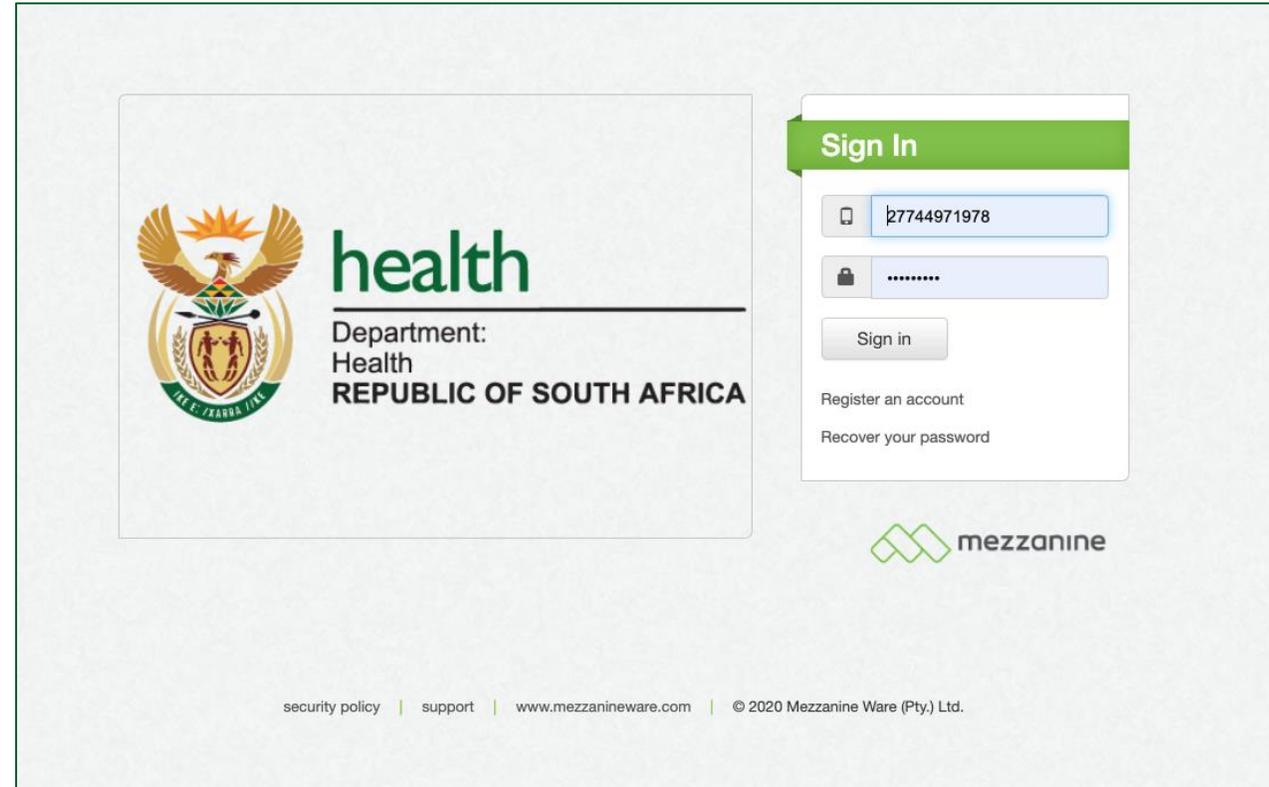
On the desktop you need network connection.
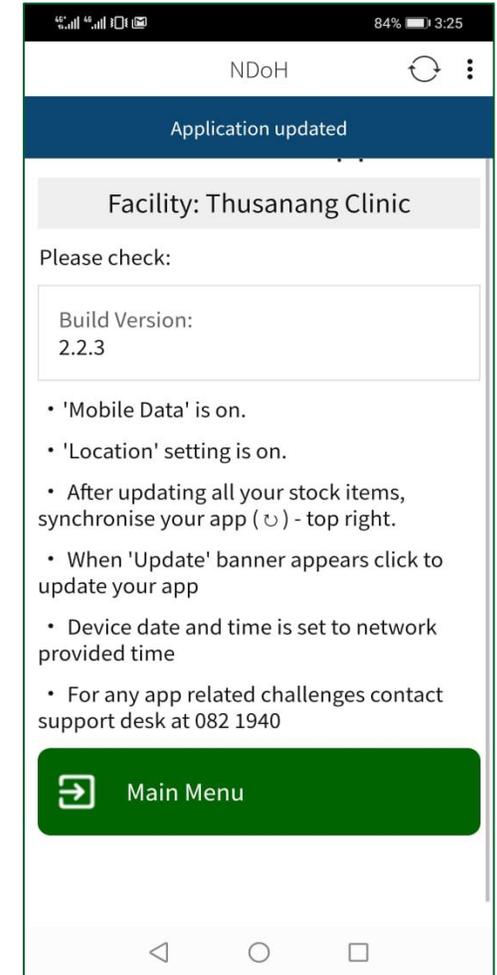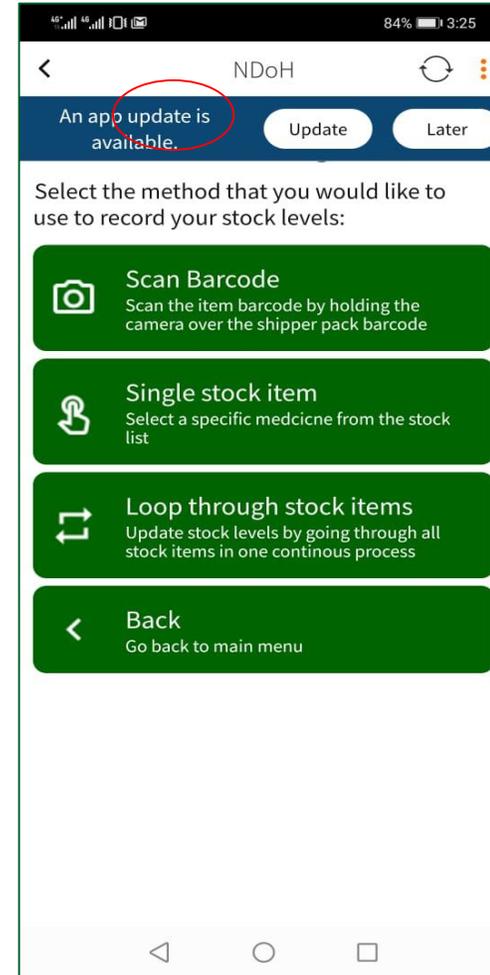
SVS - Web Overview

Web-portal: Logging In

Managers at District and Provincial level will be logging in to the web to monitor the performance on reporting (have sites reported) and stock availability (are any items out of stock) daily.

covid19vaccinesza.app

Web Dashboards Menu

Dashboards Menu

Dashboards

Search

	Order	Key
View	1	Average Stock-Out Duration (Number of days)
View	2	Facility Reporting
View	5	Geospatial StockOut Map
View	6	Stock Availability Report
View	7	Stock-Out Reasons Report
View	8	Low-stock and Over-stock Report
View	10	Facility Stock Updates
View	11	National Stock Updates Tableau Data

Page 1 of 1

User Profile

Dashboards Menu

System Reports

National Stock

Ideal Clinic Reports

Web Compliance Reports

Dashboards Menu - Facilities Reporting

Reporting: 100% of the Minimum Basket items assigned must be reported on weekly to qualify as 'Reporting', and will build further reports to show daily compliance.

Non-Reporting: If less than 100% of the Minimum Basket items assigned are reported on weekly, will qualify as Non Reporting.

Facility Reporting

		HierarchyLevel	National
		Current level	National
		Showing	Province
		Assigned Location	Undefined
		Last Calculated	2021-02-18 12:23:02

Search

		Province	Total Facility	Reporting Facility	Non Reporting Facility	Reporting Facility with a stock-out
View Lower Hierarchy >>	View Facility	Eastern Cape	2	100%	0%	0%
View Lower Hierarchy >>	View Facility	Free State	1	100%	0%	0%
View Lower Hierarchy >>	View Facility	Gauteng	3	100%	0%	0%
View Lower Hierarchy >>	View Facility	KwaZulu-Natal	2	100%	0%	0%
View Lower Hierarchy >>	View Facility	Limpopo	1	100%	0%	0%
View Lower Hierarchy >>	View Facility	Mpumalanga	1	100%	0%	0%
View Lower Hierarchy >>	View Facility	Northern Cape	0	0%	0%	0%
View Lower Hierarchy >>	View Facility	North West	2	100%	0%	0%
View Lower Hierarchy >>	View Facility	Test Province	3	100%	0%	0%
View Lower Hierarchy >>	View Facility	Western Cape	2	100%	0%	0%

Page 1 of 1

Sidebar Navigation
- User Profile
- Dashboards Menu
- Stock Status
- Facilities Reporting
- Stockout Report
- Ideal Clinic Reports
- Manage Users
- User Logs

health
Department:
Health
REPUBLIC OF SOUTH AFRICA

Web Dashboards Menu

Dashboards Menu

Dashboards

Search ⊗ +

		Order	Key
View		1	Average Stock-Out Duration (Number of days)
View		2	Facility Reporting
View		5	Geospatial StockOut Map
View		6	Stock Availability Report
View		7	Stock-Out Reasons Report
View		8	Low-stock and Over-stock Report
View		10	Facility Stock Updates
View		11	National Stock Updates Tableau Data

Page 1 of 1

User Profile

Dashboards Menu

System Reports

National Stock

Ideal Clinic Reports

helium.mezzanineware.com/web-client/app?appId=2024503f-f9b4-65c2-732f-234daaaeff78&roleName=Administrator

health
Department:
Health
REPUBLIC OF SOUTH AFRICA

Caeri Dunnell

User Profile

Dashboards Menu

System Reports

National Stock

More

Stock Updates

Back   Data Dictionary

Filter Sub-Districts On District

Sub-District

Filter Facilties Using District / Sub-District

Facility Name

Start Date Time   2021-01-01

End Date Time   2021-02-17

Filter Facility Stock Using Facility   Cancel   View All Stock Updates

Latest stock update per facility per stock between 2021-01-01 and 2021-02-17   Search

Update Date	Date Synced	Stock Category	Item Name	Inventory Code	VEN Status	Reported Date	Stock Level	Stock Received	Stock Lost	Stock Issued	First Stockout Date	Expiry Date	Stockout Reported to PDM Date	facility name
2021-02-17 15:15:07	2021-02-17 15:15:27	Vaccines	Johnson&Johnson Covid19 Vaccine Single Shot		V		1000	1600	2	598		2022-09-29		Test Site

Other Reports - for managing availability

Other Reports – Covid-19 Tableau Dashboard

To obtain access to the Covid-19 Tableau Dashboard and reports consult the NDoH SVS PM.

SVS Covid-19 Vaccine: Site Loading Process

MFL Process

- Facility Representative registers/edits site on the MFL
- Curator linked to the site reviews and approves registration/edits
- Approver reviews and approves registration/edits
- SAPC Reviews and edits details for all vaccination sites
- SAPC recommends approval of the Section 21 Permit
- NDoH Approver reviews SAPC recommendation and approves
- SAPC creates the permit – Update the MFL status

- Discrepancies flagged to be rectified
- Site details are published on the MFL (other systems can access the data)
- End

NDoH Supply/Demand Team Process

- Obtain vaccination/distribution site details (public and private)
- Clean and verify vaccination/distribution site details – Cross check with MFL (public and private)
- Publish cleaned and verified vaccination/distribution site details (public and private)
- End

SVS Covid-19 Process

- Obtain list of verified vaccination/distribution site details (public and private)
- Confirm site details as captured on MFL (public and private)
- Compare and confirm site details as captured on SVS Meds (public)
- Verify additional data fields (private)
- Site details match (Y/N)
  - N → Escalate to SVS province/ district champion to verify:
    > Mobile number
    > DHIS UID
    > General site details
  - Y → Load and Enroll site on SVS Covid-19 (public)
- C
- Provincial/ district champions verify and share site details
- End