Data Import Wizard

HISP Uganda

Version 2

Contents

1. Data Import Wizard

> Systems integration is the art of turning complexity into simplicity, creating elegant solutions that solve real-world problems
>
> — Elon Musk

1.1 What is the data import wizard?

The Data Import Wizard is a custom DHIS2 application that helps you to; as the name suggests, import data into your DHIS2 instance, from various sources. The sources you can import data from include:

- Excel Spreadsheets
- CSV files
- JSON files
- API Endpoints (Other systems or DHIS2 instances)
- Go.Data

The most recent version of the data import wizard (v2) has been improved to support the integration of DHIS2 with Go.Data, but with bi-directional data import capabilities.

1.2 How the Data Import Wizard works.

At the moment, we can import event data, aggregate data and organisation units. There are pages within the application that correspond to the kind of data you want to import, that is; **Tracker**, **Aggregate**, **Organisation** and **Schedule**.

- **Tracker** - Import data into tracker or event program.
- **Aggregate** - Import aggregate data.
- **Organisation** - Import organisation units.
- **Schedule** - Schedule data import using saved mapping.

1.3 Components

The data import wizard is comprised of the following tools and components.

#	Tool/Component	Description	Repository
1	Data Import Wizard Core	The core Data Import Wizard custom DHIS2 application	data-import-wizard-v2
2	Data Import Wizard Utils	Reusable utilities for both the core and scheduler for the Data Import Wizard	data-import-wizard-utils
3	Schedule	The scheduler for importing data using mappings generated by the Data Import Wizard custom application	data-import-wizard-scheduler

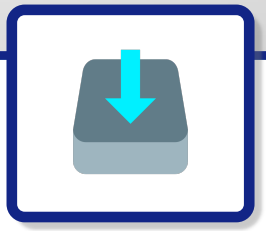
Table 1.1: Import Wizard components

1.4 Data Import Steps

For each type of import, you go through the following steps to accomplish the import process.

1. Add source system configuration
2. Define your destination (could be DHIS2 or other system)
3. Define a mapping for your metadata. What objects need to be mapped in both systems
4. Utilize generated mapping to import the data.

2. Installation



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— x

At the moment, the data import wizard can be built from two repositories (core and utils). It also works along side a scheduler that processes data to import based on generated mappings.

1. data-import-wizard-utils - the utilities library that is also used by the data import wizard scheduler
2. data-import-wizard-v2 - the core application
3. data-import-wizard-scheduler- the scheduler application.

2.1 Recommended Prerequisites

1. Nodejs v18.16.0
2. Yarn

2.2 Clone and build the utils repository

```
git clone https://github.com/HISP-Uganda/data-import-wizard-utils.git

cd data-import-wizard-utils

yarn install

yarn build

yarn link
```

```

# move 1 step out of the current directory
cd ..
```

2.3 Clone and build the core repository

```
git clone https://github.com/HISP-Uganda/data-import-wizard-v2.git

cd data-import-wizard-v2

yarn install

yarn link "data-import-wizard-utils"

yarn build
```

Builds the app for production to the **build** folder.
It correctly bundles React in production mode and optimizes the build for the best performance.

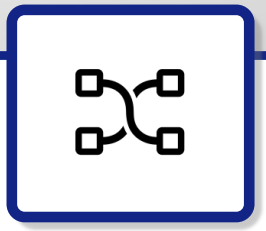
The build is minified and the filenames include the hashes.

A deployable **.zip** file can be found in **build/bundle!**

2.4 Launching the data import wizard.

2.5 Building and runing the scheduler

3. Tracker Data Import



> True integration happens when technology becomes an enabler, seamlessly supporting and enhancing the work of individuals and organizations.
>
> — Tim Cook

The **Tracker** page walks you through steps that help you to import data from a source (Excel, CSV, JSON, API or Go.Data) to a DHIS2 program events data. We can also use the same page to configure importing from a DHIS2 program's events data to Go.Data.

The steps involved in the mapping and import process depend on whether DHIS2 is the source or destination system.

3.1 When DHIS2 is the destination system

This section illustrates the steps involved in mapping and exchanging data in a DHIS2 tracker or event program.

3.1.1 Saved Mapping

Step 1 - Use existing mapping or create a new one

This step lists the previously created mappings that you can choose from to start the data import. You can also create a new mapping by clicking the Create New Mapping button at the bottom right corner of the page.

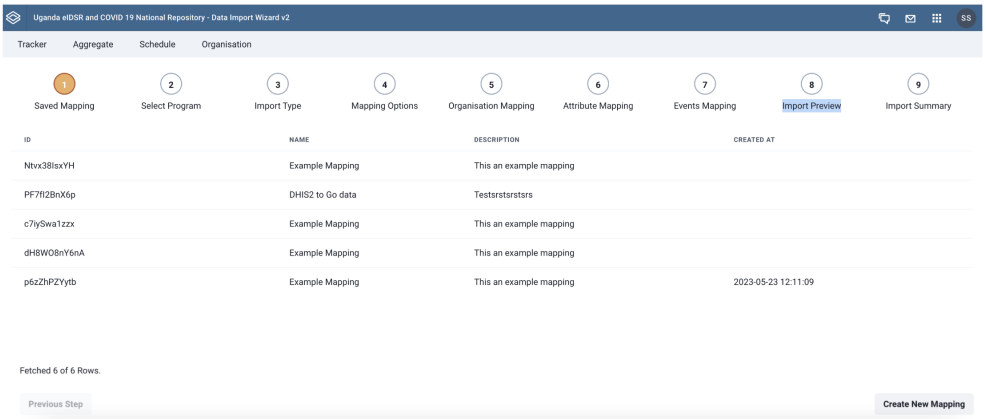


Figure 3.1: *Saved Mappings*

3.1.2 Select Program

Step 2 - *Select DHIS2 program to map metadata*

Once you choose to create a new mapping, you then have to select a DHIS2 events program whose related metadata you want to map with. In this step, a list of available DHIS2 programs is provided. Select the desired program to proceed to the next step.

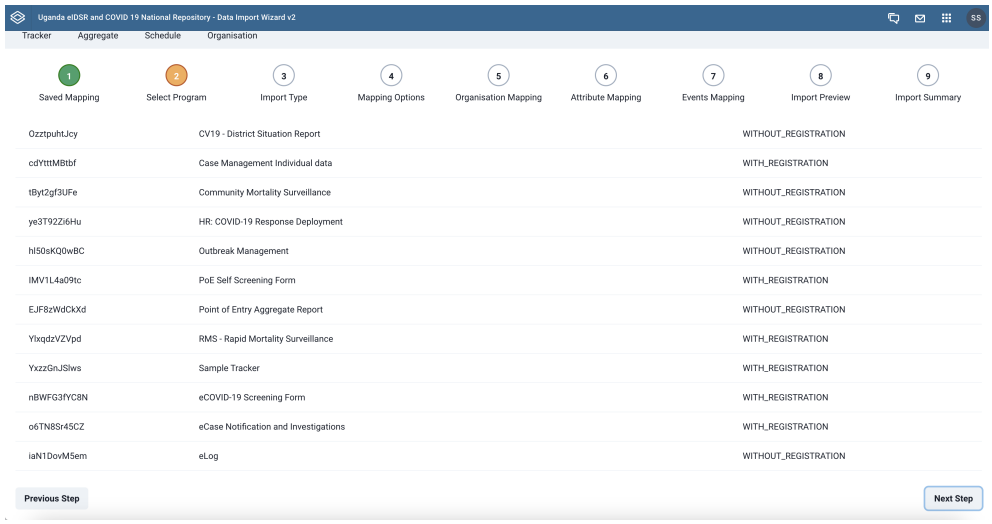


Figure 3.2: *Select Program*

3.1.3 Import Type

Step 3 *-Specify import sorce and related configurations*

Once a program has been selected, you provide details for where you intend to import data from. in this step, we specify the *name*, *description* of the mapping, *import source* (Go.Data, Excel, CSV, JSON or API), *source authentication credentials*, and the *active outbreak* if the source is Go.DATA. Click the **Save** button at the bottom center of the page to save the provided details.

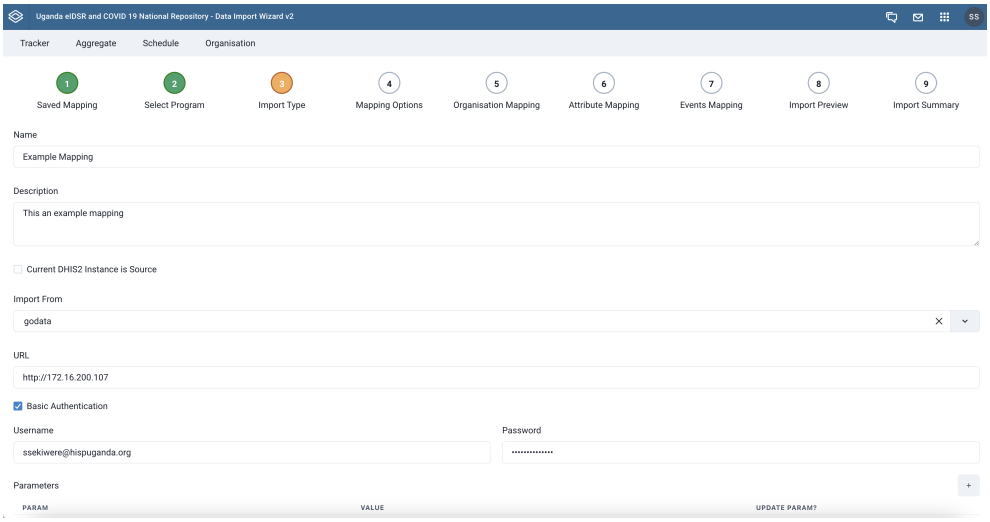
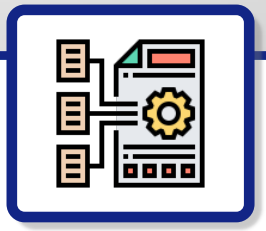


Figure 3.3: *Import source configuration*

```
\begin{example}
This is the content of example environment.
\end{example}
```

3.2 When Go.Data is the destination system

4. Aggregate Data Import



> Without clear and well-documented APIs, systems integration becomes complex and challenging.
>
> — Samuel Sekiwere

Your Content

5. Schedule

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Your Content