

User guide: Setting Up Integrated Ushauri and ART Referral Data Exchange in KenyaEMR

Last update: 27th July 2023

Purpose	Configure and use ART Referral service in different site typologies
Objective	To enable a user to configure ART Referral service in different types of facility scenarios
Target audience	HIS Focal person, HIS System Admin
Requirements	Active internet, Functional KenyaEMR instance, Functional ART Referral and Ushauri apps, OpenHIM end point

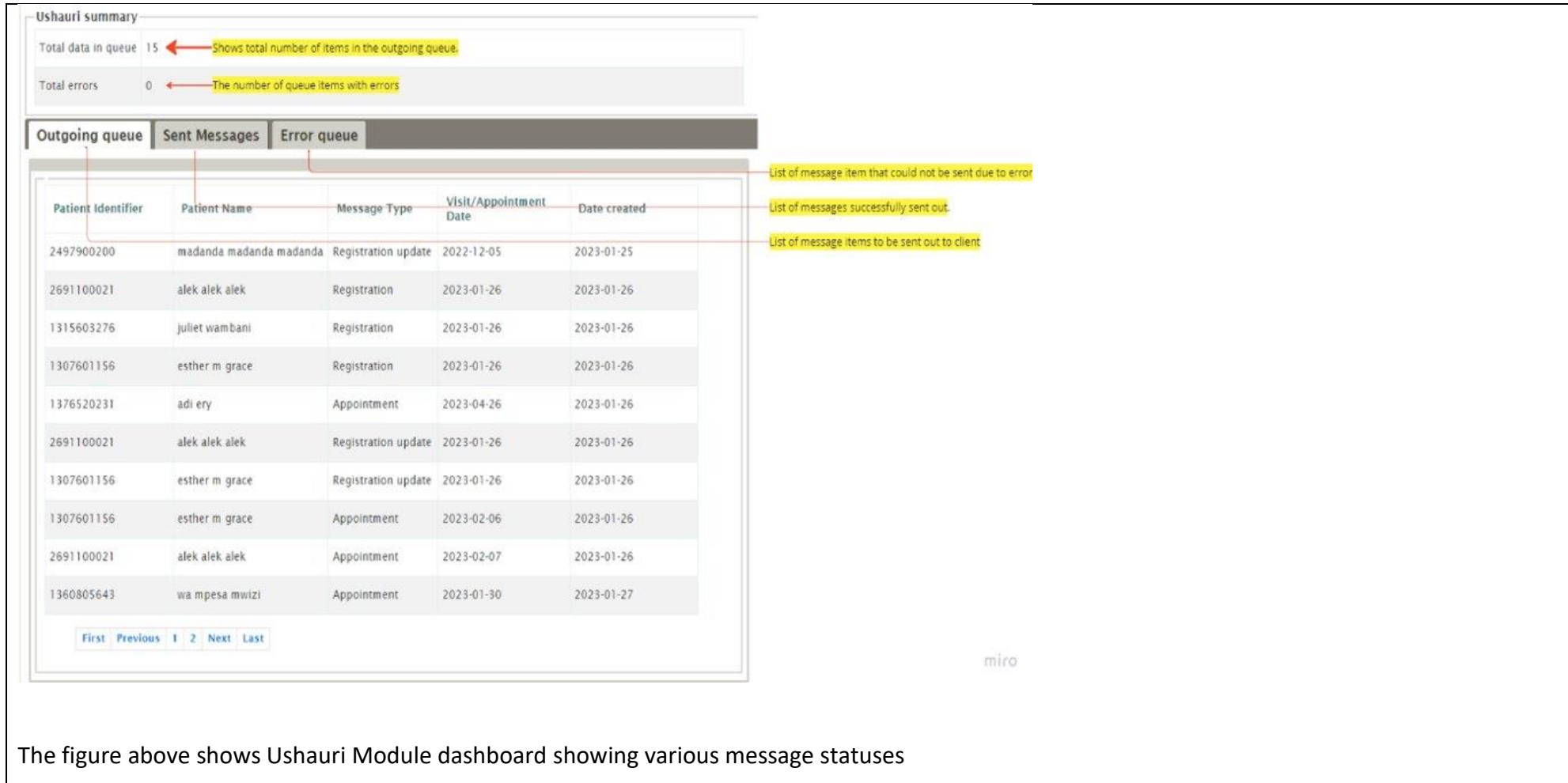
Introduction:

KenyaEMR is continuously enhanced to exchange data with existing mHealth application via a dedicated data exchange mediator know as Open Health Information Mediator (OpenHIM). This mediator is currently configured as a single cloud instance that facilitated all the data sharing transactions from every facility implementing ART Referral or Ushauri Applications and KenyaEMR. This user manual provides essential information on how to configure ART Directory and setup different facility typologies to achieve the integration.

SENARIO 1: EXISTING USHAURI SITE

If a site is already using integrated Ushauri (Where KenyaEMR is able to successfully exchange data), then that site does not need to do anything in order to use ART Referral since all the needed patient list is already synchronized.

To start using the ART referral services, ensure the facility phone contact is duly registered for the service. [Refer to this user guide on how to proceed.](#)



SCENARIO 2: NEW ART Referral SITE (Uses Ushauri Module in KenyaEMR)

Description: The site does not have integrated Ushauri setup to exchange data with KenyaEMR but would like to use ART Referral App.

In the event that a facility would like to use ADT referral services, but does not have an integrated Ushauri setup in its KenyaEMR instance, the facility **MUST** configure their instance as follows:

- i. Configure Ushauri for data exchange with KenyaEMR by setting up Ushauri module in KenyaEMR.
- ii. Set the IL end point to OpenHIM
- iii. Backdate the synchronization start date to the earliest date of the appointments and enrolments you would like to upload to ART Directory
- iv. Configure the Ushauri Data exchange scheduler by setting up appropriate data sync interval (i.e. every 1hours or more)

Ushauri module configurations.

- Proceed to advanced settings under Legacy Admin UI page.
- Search for the following properties and set them as shown below (*This applies to KenyaEMR v 18.5.0 and above*)

Property name	Value	Comment
<code>kenyaemrIL.endpoint.usshauri.push</code>	<code>https://openhimapi.kenyahmis.org/rest/api/IL/registration</code>	Should point to the central OpenHIM end point
<code>appointmentTask.lastFetchDateAndTime</code>	(date/time) in the following format (YYYY/MM/DD/HH/mm/ss) – <i>year/month/day/hour/minute/sec.</i> For example: 20230207180059	Specifies how far back the synch should go for appointments. No spaces allowed
<code>enrolmentTask.lastFetchDateAndTime</code>	(date/time) in the following format (YYYY/MM/DD/HH/mm/ss) – <i>year/month/day/hour/minute/sec.</i> For example: 20230207180059	Specifies how far back the synch should go for enrolments. No spaces allowed

Example: The figure below illustrates a sample datetime set for enrolment task. The date/time has been set to 30th March 2023 at 0957hrs and 59 seconds.

```
enrolmentTask.lastFetchDateAndTime | 20230330095759
The last date and time that the last fetch was done for enrollment task
```

Setting up the scheduler for Data Exchange.

- Go to the scheduler (under the Legacy Admin UI Page)
- Enable the following scheduler and set it to appropriate intervals.

```
Push messages to Ushauri server
org.openmrs.module.kenyaemrIL.UshauriDirectPushTask
```

If correctly setup, KenyaEMR will start transmitting patient

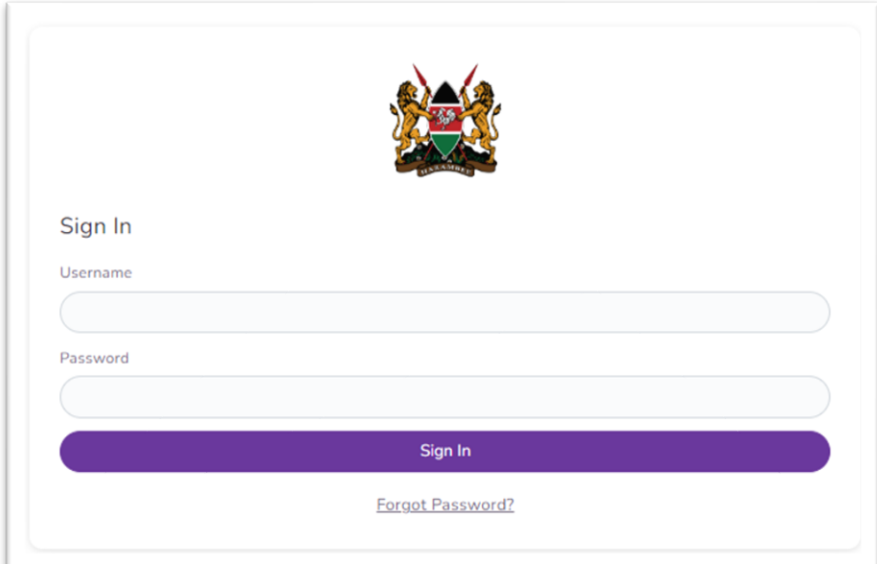
details

(Registration and Appointment details with Ushauri and ART directory. Proceed and use ART referral services as outlined in Scenario 1 above.

Description: This is a non-EMR facility that would like to use the ART Referral app for the very first time.

The following procedure outlines how a site can start using the ART Referral services without using the Integrated Ushauri module in KenyaEMR. This applies also for sites that do not already implement KenyaEMR. It is important that the facility uploads requisite patient information to ART Referral in order to utilize this service. Here is a summary of the process:

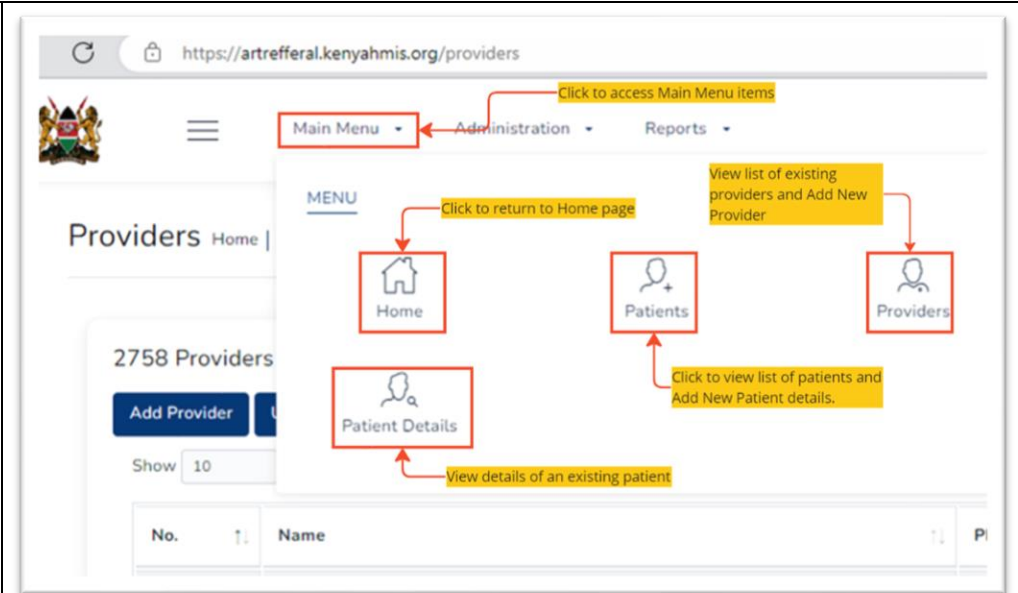
- i. Login into to ART Refferal web portal using this link:
<https://artreferral.kenyahmis.org/>
- ii. Obtain the correct login credentials from your supporting partner or your Palladium contact person. You can also contact the Palladium service desk on **0800 722 440** for further support.
- iii. On login, a dashboard will be loaded with statistics on the following:
 - Number of existing patients
 - Providers
 - Transfer in patients
 - Transfers out



Adding Providers:

- It is important to register providers (users) before they can access the service.
- Click the **Menu**
- On the sub-menu, click on the **Provider**. This will launch the page for adding providers.

The figure shown indicates different menu items and their functions.



You can add providers one after another (manually) or you can prepare a list for all the providers to add and upload using the predefined CSV file format.

Manual method

- Click on **Add Provider** Button and enter all the required information (i.e. First Name, Middle Name, Last Name, Phone Number and Workstation)
- Click **Submit** when done.

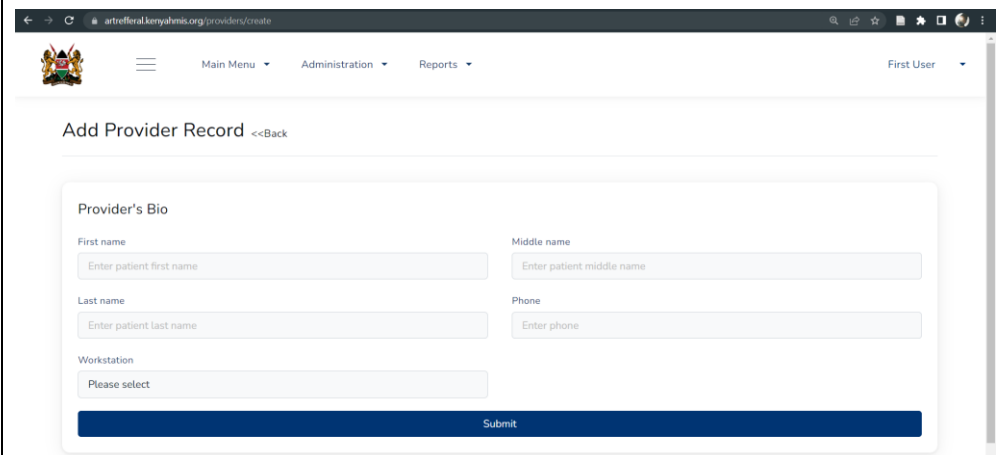
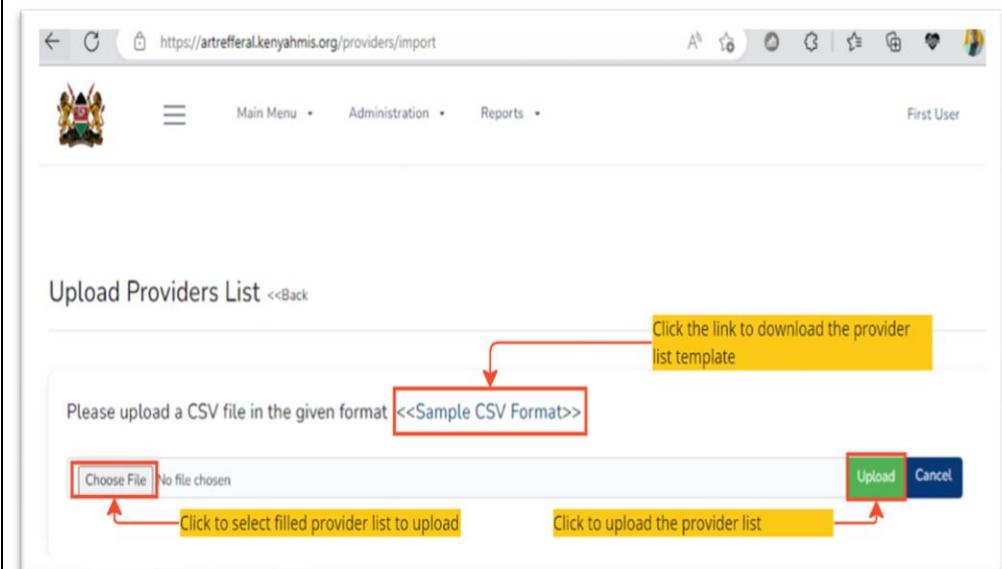
Upload provider list with CSV

- Click on the **Upload provider List**.
- Click on the **Sample CSV Format** link. This will download a preformatted CSV file.
- Fill the list with all your providers strictly following the columns as provided.
- Once done, return to the ART web portal and click **Upload Provider List**
- Click on the **Choose file** button.
- Locate the updated provider list (CSV file) and click- on the file name.
- Click **Upload**. Wait until the upload is complete.

Adding New patient to patient list

Similar to adding new provider, you can use the two methods to update the patient list in ART database.

NB: Follow the same procedure as above to add new patients to the ART Referral database. Go to Menu and Click Patient



1	firstname	middlename	lastname	phone_no	mfl_code
2	John	Kwanza	Doe	724091367	12345
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
12					

Here is a sample provider list template.

THE END