

23.02. DHIS2 LMIS integration

DHIS2 is an open source data warehouse that can be used to store, aggregate and display health data. It has also been modified to be used as a simple stock reporting tool at small health facilities. mSupply can interact with this functionality to receive the stock on hand reports and then create replenishment orders for the facilities based on that information. This page describes the setup that must be carried out in mSupply.

Setup

Items

To send item details to DHIS2, mSupply has to know the identity of each of its items in DHIS2. There are two options for doing this:

1. Use the item's universal code. See the [4.01.01 Items - General tab](#) section for details on setting this.
2. Use the DHIS2 UID or the DHIS2 code. Choose which one you want to use then enter those values in an item's custom field 1, 2, 3 or 6 (the 3 text custom fields).

The final step in setting up items is to tell mSupply which ones to send data to DHIS2 for. Do this by checking the **Include in DHIS2 data push** checkbox on an item's details window - see the [4.01.01 Items - General tab](#) section for details on setting this.

Stores

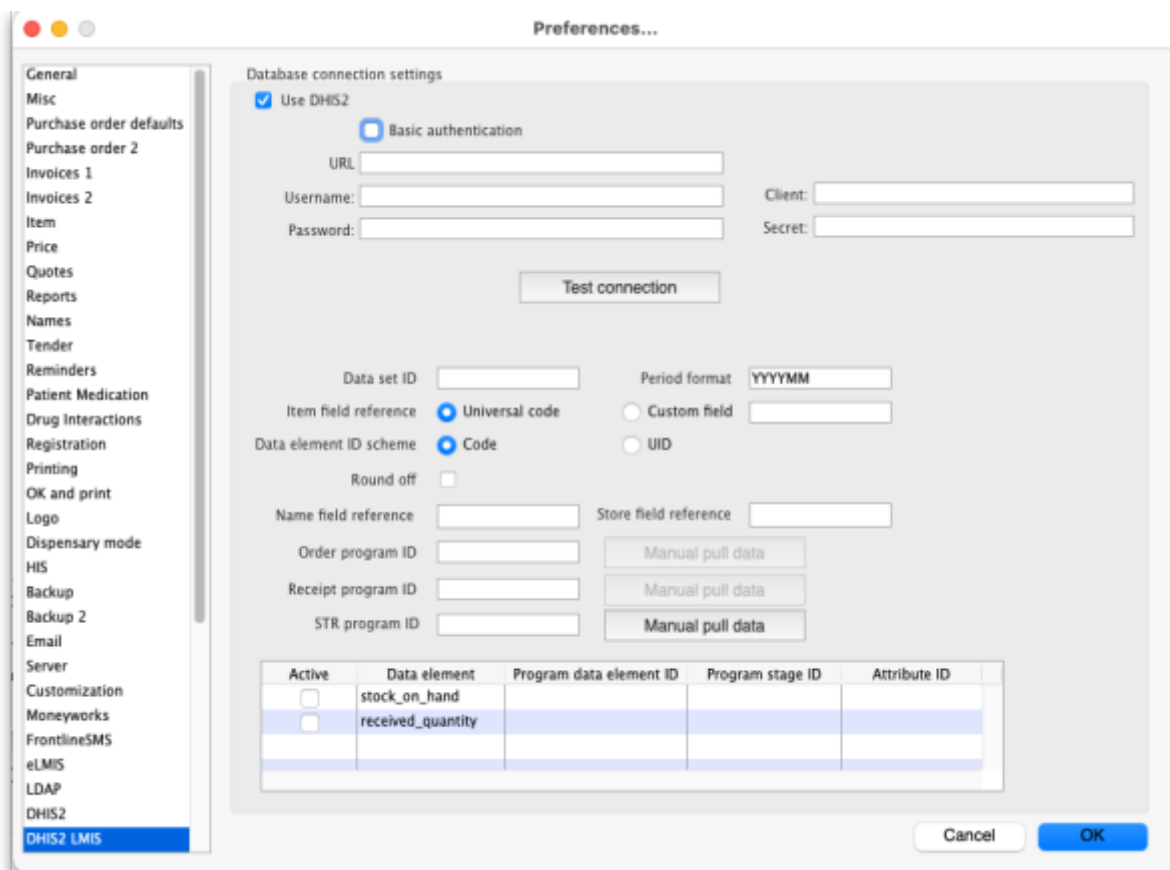
Stores in mSupply correspond to org units in DHIS2. mSupply needs to know the Org unit reference for each of the stores that data needs to be sent to DHIS2 for.

To do this, add a "Dhis2Code" store custom field containing the Org unit reference to each store you want to send data to DHIS2 for. For all stores you don't want to send data to DHIS2 for, simply leave the "Dhis2Code" custom field empty.

For details on how to set store custom codes see the [26.07. Virtual stores](#) section.

mSupply preferences

Before you can send data to and retrieve data from a DHIS2 LMIS instance, you need to tell mSupply where the data has to go and come from. To do that, go to *File > Preferences* and click on the *DHIS2 LMIS* tab to get to this window:



- **Use DHIS2 checkbox:** If checked then the DHIS2 interface is turned on and data is sent to and pulled from DHIS2. If it is unchecked then the interface is turned off and no data is shared with DHIS2. Turning it off also disables data entry in the other fields on this page.
- **Basic authentication checkbox:** If checked then mSupply will use basic authentication in the call headers when sending data to DHIS2. If it is unchecked then mSupply will use authentication in the body of the calls. This setting should match the way the DHIS2 instance has been configured.
- **URL:** The URL of the DHIS2 database including the port if any.
- **Username:** The username mSupply will use to access the DHIS2 database.
- **Password:** The password mSupply will use to access the DHIS2 database.
- **Client:** Only visible and used if **Basic authentication** is checked. The client name mSupply must use to access the database.
- **Secret:** Only visible and used if **Basic authentication** is checked. The secret that is used for mSupply to access the DHIS2 database. No need to enter this if none was provided.
- **Test connection button:** Click this to test the connection to the DHIS2 server. You will be shown a message that tells you whether mSupply was able to connect to the DHIS2 server with the credentials you have provided.
- **Data set ID:** Enter the ID of the dataset in DHIS2 that you want to push the data to.
- **Period format:** Enter the format to send the period information to DHIS2. Something like "YYYYMM", where YYYY represents the year, MM represents the month and DD represents the day.
- **Item field reference:** Required for "Using category option combo" and "Push only 1 data element" setup. This tells mSupply where the DHIS2 item reference is stored in mSupply. If *Universal code* is selected then the code shown in the **Universal code** field of an item's details page is used (see the [4.01.01. Items - General tab](#) page for details). If *Custom field* is selected then the DHIS2 item reference is taken from the item custom field whose name is entered in the accompanying text field (which should contain one of "user_field_1", "user_field_2",

“user_field_3” and “user_field_6” (see the [4.01.01. Items - General tab](#) page for details of these custom fields).

- **Data element ID scheme:** This tells mSupply what kind of DHIS2 item identifiers are stored in mSupply (in the place defined by the **Item field reference** section above), item codes or UIDs.
- **Round off checkbox:** If checked then mSupply will round numerical data values to the nearest whole number as some DHIS2 setups only accept integers.
- **Name field reference textbox:**
- **Store field reference textbox:**
- **Order program ID textbox:** . **Manual pull data** button.
- **Receipt program ID textbox:** . **Manual pull data** button.
- **STR program ID textbox:** . **Manual pull data** button.
- **Data elements table** In this table, select the data elements that you want to pull for each mSupply item.
 - **Active column:** Check the checkbox for each data element you want to pull for an item. Click on the checkbox to toggle it on and off.
 - **Data element column:** Read only, the name of the element the settings in this line are for.
 - **Program data element ID column:** .
 - **Program stage ID column:** .
 - **Attribute ID column:** .



If this page already has settings entered and they have been used to successfully connect to the DHIS2 database then a “Last successful connection: *date & time*” message will show next to the **Test connection** button.

After entering the values you should click on the **Test connection** button to save the credentials and check that mSupply can now access the DHIS2 database. If the connection is successful you will see a green “Connection successful” message next to the button.

If the connection is not successful you will see a red “Authentication failed” message next to the button. Check your settings, edit them as necessary and try again. The connection problem may not be the credentials, it could be something else like the settings for firewalls between mSupply and the DHIS2 database.

Once configured, a scheduler will run and regularly pull data from and send data to the DHIS2 LMIS instance. If there are any errors these will be saved in the log (see the [25.19. The system log](#) page for details).

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