DHIS2 Integration with M-DIVE

This documentation walks through the usage of the DHIS2 API integration with M-DIVE. This integration is a prototype designed to help users transmit data from a DHIS2 instance directly into M-DIVE as part of the PMI Quarterly Report. Feedback on ways to improve this script and associated documentation are greatly appreciated.

DHIS2-Table Prior to API import

Step 1. Filtering Malaria Data Elements only

The use of the DHIS2- data dictionary tool to identify every country's specific malaria metadata can be accessed by using the DHIS2 login credentials (Username and Password) as provided by the National Malaria Control Programme (NMCP) or Ministry of Health department responsible for HMIS. These credentials can then be used to connect with R-shiny app interface to DHIS2 to download all the Malaria Data Elements and its metadata.

What's in your DHI	152? I	
	Background	Directions
Background and Directions Background and Directions Background Units Back Holaria-relevant Elements Back Holaria-back Formulas Back All Elements Back Reporting Roles Back Dana Quelly Back Estimates and Thends Contact	The purpose of this website is to help the user understand the contents and structure of data in DHIS2. Ultimately, we want to encourage data use and meaningful interpretation. To that end, we built sevenal helper tools that help identify and interpret key data signals. When completed, these tools will assist with: 1. Finding and selecting the correct data elements and indicators 2. Ensuring indicator formulas correct 3. Calculating the quality of data based on internal consistency and external validity "(provide reference), providing useful guidelines for interpreting data based on the apparent quality. 5. Estimating the trends in confirmed cases (and other indicators), and identifying when differences between regions are significant.	Use the menu at left to go through each tool. 1. Login Enter the DHS2 URL, username, and password. 2. Once logged in, click on either 'All Data Elements' tab, or 'Malaria-relevant Data Elements' to develop a draft data dictionary. 3. The 'Malaria-relevant Data Elements' form providers a data dictionary of likely malaria relevant data elements. Malaria-relevant data elements, Malaria-relevant data elements include those counting malaria cases; total attandeer, ANC attendees and IP3p delivier; stocks of RDI, ACT, and SP, and catchmeet population. You can refine the list by changing the terms to save how, on the 'search terms' tab. 4. Other tabs are under development Note: this section, and several of the tools, under development. The current state should be seen as a proof of concept before adding additional functionality.

Step 2. Creating DHIS Analytic Tables in DHIS2 (HMIS)

The downloaded NMCP data elements from the data dictionary tool will be subjected to review and mapping with PMI data elements for validation. After this validation by the NMCP and PMI country team, a Malaria specific table will then be created within DHIS2 using the same login credentials. The creation of this desired table can be done using the DHIS2 Table environment window as shown below.

Take note that the pivot table to be generated within DHIS2 must include three key attributes. *Data, Periods and Organisational Unit* as shown below.

Data			
Data elements			~
Malaria only			Y Totals Y
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September 2020 August 2020 July 2020 June 2020 May 2020		January 2020 February 2020 March 2020	

Data: This is where you will select all the relevant malaria data elements to the right side as shown above.

Period: This is where you will select the 3 months period to the right side as shown above.



Above is **Organisation Unit**: This is where you will select levels and you will see a drop down that allows you to click-on **District** (or LGA). Since that is the lowest level of HMIS data to be collected for PMI reporting.

Once you have utilized **Data**, **Periods and Organisational Unit**, then you will click **Update** to generate your pivot or analytics table as highlighted below:

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ments Totals		Period	Period Organisation unit / Data		Malaria treated at PHU with ACT < 24 hrs	Malaria treated at PHU with ACT < 24 brs	Malaria breated at PHU with ACT > 24 brs	Malaria breated at PHU with ACT > 24 brs	Malaria breated at PHU without ACT < 24 brs	Malaria treated at PHU without ACT < 24.hrs	Malaria treated at PHU without ACT > 24 hrs	Malaria treated at PHU without ACT > 24 hrs	Malaria treated in community with ACT <24 hrs f-	Malaria treated in community with ACT <24 hrs	Malaria breated in community with ACT >24 hrs 5-	Malaria treated in community with ACT >24 hrs
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Malaria treated at PHU with ACT < 24 hrs.			Bo	29	417	10 993	216	3 572	21	311	- 11	218	209	643	96	339
Malaria treated at PHU with ACT < 24 hrs			Bombali	5	269	1 867	187	1 578	65	551	113	533	54	204	30	206
744			Bonthe	28	38	509	16	275	26	165	26	151	4	107	1	98
Malaria treated at PHU with ACT > 24 hrs Fup			Kallahun	3	253	1 574	226	1 391	22	102	33	145	53	262	41	134
Malaria treated at PHU with ACT > 24 hrs. New			Kambia		268	1 033	232	1 191	80	190	136	456	36	67	17	71
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Step 3. Saving the Table for M-DIVE API import

Once the standard table has been created, it will be saved using the favorite icon on top. This table will now be permanently available for re-use in any future PMI Quarterly report. However it must be updated to capture the Month period every quarter. Below is a sample of the standard table saved.

300 Update + Favorites + Layout + Options + Download + Embed +														tote Ili	Chart =
Organisation unit	Period / Cata	Clinical Malaria	Confirmed uncomplicated mataria	Seve		Valaria Inferned Regnant Vormen	Pregnant women with clinical	Children under 5 years receiving	Confirmed uncomplicated mataria given ACT	Confirmed uncomplicated mataria given other	Fever	Fever lealed by Microscopy (for malaria	Fever tested by RDT	Malaria RDT tested positive	Malaria microscopy tested positive
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Step 4. Creating the API Call URL for MDIVE

The saved favorite will be opened every quarter in order to create the API url that will be used to connect within the MDIVE notebook script. The API url can be generated by going to Download[1], THEN moving down to Advanced:[2], THEN to JSON:[3] (under the Data value set). CLICK on the sub-section called "JSON" as highlighted in the diagram below;

← → C	ml?id=qfMh2ljOxvw												,
DHIS 2 Pivot Tables	* ANC: ANC 1st and 2n	d visits at faci	ities with	hierard	hy 1								
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		Aug 2020	2	221	242	10.04	1.048		264	113	633	1729	1 299
		report concer	4	411	192		1.040		699	112	264		12

After clicking JSON, the API URL window will open with several lines of data values below it; then we are ready for MDIVE API import. The API url window will be displayed as shown below in red highlight - copy only the URL.

0	https://dhis2.country.org/api/29/analytics/dataValueSet.xml?dimension=dicK9K1G000K4acHdtaLx63988.nrql7kywMLM:DyMy4NeDizz10YCEriaGQC:2FgiCO6nyAP;ouzURM9c1Fi/M1kG
	<pre>("dstaValues":[['dstallement": %8gsvCKjGdZ", "period": 2020064", "orgUnit": "thOfbpFcSO", "value": 1444.0", "storedBy": ['aggregated]", "created": 2020-10-01", "lastUpdated": 2020-10-01", "created": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "created": 2020-10-01", "created": 2020-10-01", "lastUpdated": 2020-10-01", "created": 2020-10-01", "lastUpdated": 2020-10-01", "created": 2020-10-01", "lastUpdated": 2020-10-01", "created": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "lastUpdated": 2020-10-01", "created": 2020-10-01", "lastUpdated": 2020-10-01", "created": 2020-1</pre>
	<pre>10-01", "comment":"[aggregated]"),("dataElement":"AFMSHDWHq3t","period":"202004","orgUnit":"qhqAx9STUXp","value":"668.0","stored6y":"[aggregated]","created":"2020-10- 01","lastUpdated":"2020-10-01","comment":[aggregated]"),["dataElement":"TQnDL4SStWT,"period":"202000","orgUnit":"bL4ooGhyM02,"value":"234-0","stored6y":"[aggregated]","cre 10-01","lastUpdated":"2020-10-01","comment":"[aggregated]"),["dataElement":"TQnDL4SStWT,"period":"202004","orgUnit":"bL4ooGhyM02,"value":"234-0","stored6y":"[aggregated]","cre 10-01","lastUpdated":"2020-10-01","comment":"[aggregated]",["dataElement":"vacAmBL05:","period":"202004","orgUnit":"bL4ooGhyM02,"value":"234-0","stored6y":"[aggregated]","cre [aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","comment":"[aggregated]","created":"202004","orgUnit":"Vth0fbpFcs0","value":"39.0","stored6y":"[aggregated]","created":"2020-10-01","comment":"[aggregated]","created":"2020-10-01","stored6y":"[aggregated]","created":"202004","orgUnit":"Vth0fbpFcs0","value":"39.0","stored6y":"[aggregated]","created":"2020-10-01","comment":"[aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","comment":"[aggregated]","created":"202004","orgUnit":"Vth0fbpFcs0","value":"39.0","stored6y":"[aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","comment":"[aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","comment":"[aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","comment":"[aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","comment":"[aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","lastUpdated":"2020-10-01","comment":"[aggregated]","created":"202004","orgUnit":"[aggregated]","created":"2020-10-01","lastUpdated":"2020-10-01","[aggregated]","created":"2020-10-01","[aggregated]","created":"202004","orgUnit":"[aggregated]","created":"2020-10-01","[aggregated]","created":"2020-10-01","[aggregated]","[aggregated]","[aggregated]","[aggregated]","[aggregated]","[aggregated]","[aggregated]","[aggregated]","[aggregated]","</pre>

The several lines of data values to be imported will appear below the API url address as shown above for the API import.

This completes all actions needed in DHIS in order to perform the API import in the MDIVE environment. Remember to use the PMI-MDIVEs specific log-in credentials and follow the next set of instruction below on "How to use the API import"

How to use the API import

Step 5. Adding a Custom Credential to M-DIVE

Before using the API import, the user must have created or know the name of the "DHIS2 analytic-table" desired to be transmitted from the DHIS2 instance to M-DIVE (see above documentation on how to create the DHIS2 analytic-table with malaria data elements using the Data Dictionary Tool).Once this is known/identified, the user must add their DHIS2 login information as a Custom Credential on M-DIVE. The login information is stored in this way, as a credential object, for security reasons. Only the user who added the custom credential has access to it by default.

To create a new stored credential, click on the "Admin" tab in the upper right-hand corner of M-DIVE, select "Credentials", and then click "Create Credential" to create a new credential object. For more information on creating credentials in M-DIVE, see additional documentation <u>here</u>.

REATE CREDENTIAL		
Name (Required)	Type (Required)	
	Select	-
Description		
Username (Required)	Password (Required)	
)
	Remote Host	
Belongs To	 Remoternost	

ancel	Save

After navigating to a "Create Credential" creation screen, users should enter the following information for the credential object:

- *Name*: this field will be the name of the credential in M-DIVE, and it can take on any value. A descriptive value (e.g. "Ghana DHIS2 Credential", "Benin DHIS2", etc.) is encouraged to help users distinguish their different credentials, but this will not affect the credential's use.
- Credential Type: users should select 'Custom' from the dropdown menu
- Username: users should enter their DHIS2 username as if they were logging in to the DHIS2 instance
- *Password:* users should enter their DHIS2 password as if they were logging into the DHIS2 instance
- Description: this field is optional, users can use it to help distinguish different credentials
- *Remote Host*: Leave this dropdown selector blank

Step 6. Accessing the DHIS2 API import

Within M-DIVE, using the bar at the top of the page, navigate to "Code" and then choose "More Script Templates" from the menu that appears.

		OATA	CODE	TOOLS	PUBLISH		
9))	Welcome to AC Author: Me AII	NOTEBOO Jupyter P Jupyter R	OKS ython 3		SCRIPTS SQL Python Javascript R Container	Model Training, v2.2 Model Prediction, v2.2 Multi from S/FTP to Civis Redshift Copy S3 Template SHAREBOT 9000 More Script Templates	oply Filters
	NAME					AUTHOR	

Using the pane which appears to the right, search for "DHIS2 API" in the search box.

	CODE TOOLS PUBLISH			
o Civis! Use Query	Select a Script Template			
	DHIS2 API			
1e 🗙 Clear All	Filter By: All Sort By: Relevance			
Attention J	NAME	TEMPLATE ID	UPDATED	
	DHIS2 API Extract	53881	7d ago	3

Next, click on the template titled "DHIS2 API Extract". This will create a new script using the template. The page should have a URL like

<u>https://platform.civisanalytics.com/spa/#/scripts/custom/XXXXXXX</u>. Here users will enter the relevant information for the DHIS2 API import.

This page will look something like this¹:

DHIS2 API Extract #110706374

This script was created from a template: DHIS2 API Extract

PDE PMI Data Engineering Robot Settings -

Last Updated 03/16/2021 2:19:02 PM	

History Run

This script will use the DHIS2 API to download requested data and make them available for processing in the Malaria Quarterly Report data pipeline. These data will be available as outputs of this script and optionally in a table of the user's choice. Metadata will be stored in dhis2_organisationunits and dhis2_variable_names tables in the staging schema associated with this user's group (e.g. country or PMI HQ). Data will automatically be made available for the PMI Malaria Quarterly Report. See the instructions in the help center for more information. [Ce script utiliseral'interface de programme d'application (API) DHIS2 afin de télécharger les données demandées et les rendra disponibles pour le système informatique du rapport trimestriel du paludisme. Les cript servira aussi à conserver les données dans une table de votre choix. Les métadonnées seront enregistrées dans les tables dhis2_organisationunits et dhis2_variable_names dans les chéma associé avec votre groupe (e.g. pays ou PMI HQ). Ce processus permettra automatiquement au rapport trimestriel du paludisme d'accéder les données. Veuillez référer au centre d'aide pour plus d'informations.

DHIS2 API Call Appel d'API DHIS2 *	
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Add Credential	
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The default name "DHIS2 API Extract #XXXXX" may be re-named for easier discovery of the script.

Step 7. Using the API import

The API import from DHIS2 to M-DIVE expects the user to input information into two required fields and two optional fields, which control what data should be accessed, where data should be stored, and what the user intends this data to contain.

<u>DHIS2 API Call</u>: This parameter is the raw API call (as a URL) which should be used to access the data. The script will attempt to use this to extract data from the specified DHIS2 system as a json or a csv, depending on the format specified in the URL.

<u>DHIS2 Credential:</u> This parameter expects a Custom Credential, a type of M-DIVE credential object, which has been added to this user's account. This credential should hold the username and password used to access the DHIS2 instance in question (see "Adding a Custom Credential to M-DIVE" above for more information on adding a credential). Select the name of the

¹ The page may look slightly different due to differences in versions of the M-DIVE frontend display, but this doesn't affect the the API import's usage

credential to use from the drop-down menu. Please note that these credentials will need to be kept up to date; if your credentials in DHIS2 change, please update your credentials stored in Platform as well.

<u>Destination Table Name:</u> This parameter allows the user to specify a location in M-DIVE's SQL database where a copy of the imported data can be made available for their personal use. If a table already exists at the location specified, it will be dropped and replaced with the new data. Suggested naming: schema_name.[data type]_[start quarter]_[end quarter], e.g. `laos_staging.hmis_2020q1_2020q2`.

<u>Comments:</u> This parameter is an open text box that allows the user to make a note about what information they intend for this data submission to contain.

Once these fields have been populated with the desired values, click "Run now" in the top right corner of the page to run the script. Note that the script will take a few minutes or more to finish, depending on the size of the dataset.

DHIS2 API Extract #110706374			Last Updated 03/16/2021 2:19:02 PM •••
This script was created from a templa	te: DHIS2 API Extract		
PDE PMI Data Engineering Robot	Settings 🗸		e History Run
This script will use the DHIS2 API to the user's choice. Metadata will be s available for the PMI Malaria Quart les rendra disponibles pour le systèr dhis2_organisationunits et dhis Veuillez référer au centre d'aide pour	o download requested data and make them available for processin tored in dhis2_organisationunits and dhis2_variable_names erly Report. See the instructions in the help center for more infor ne informatique du rapport trimestried up adudisme. Le script ser 2_variable_names dans le schéma associé avec votre groupe (e.g r plus d'informations.	g in the Malaria Quarterly Report data pipeline. These data w tables in the staging schema associated with this user's group nation. J Ce script utilisera l'interface de programme d'applica vira aussi à conserver les données dans une table de votre ch pays ou PMI HQ). Ce processus permettra automatiquemen	III be available as outputs of this script and optionally in a table of (e.g. country or PMI HQ). Data will automatically be made tion (API) DHIS2 afin de télécharger les données demandées et ix, Les métadomées seront enregistrées dans les tables t au rapport trimestriel du paludisme d'accéder les données.
DHIS2 API Call Appel d'API DHIS2	2 *		
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DHIS2 Demo API		× 👻	
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Destination Table Name Nom de la	a table de destination		
scratch.test_dhis2_api_import			
Store your own copy of the data in this table. Su table. Nom proposé: nom_de_schéma.[type de d	ggested naming: schema_name.[data type]_[start quarter]_[end quarter], e.g. `laos_stagi onnées]_[premier trimestre]_[dernier trimestre] e.g., `laos_staging.hmis_2020q1_2020q	ng.hmis_2020q1_2020q2`. Enregistrer votre propre copie des données dans cette 2'	а В
Comments Commentaire			
Testing the DHIS2 API Integration			

How the API import works

The import script uses the API call specified in the <u>DHIS2 API Call</u> argument to extract the data from DHIS2. It stores this data in M-DIVE as a file, and it uploads the data to a table in M-DIVE's SQL database.

Based on the group membership of the person running the script (typically their country), this script also adds the file to a project in M-DIVE which holds all DHIS2 imports and grants the country team access on the table created.

The script in M-DIVE will store the files imported, together with the associated API calls against DHIS2, as outputs. These are accessible by clicking on "Run History" on the right side of the page.



Next, click the arrow to expand details about a run, and these items will be accessible under the "Outputs" section of each run for which they were ingested.

History

Past Runs > Run 03/15/2021 1:49:19 PM

▲ Outputs

- Scivis_dhis2api_202009_202012.csv
- 𝔅 validation_results_dhis2.json
- Scivis_dhis2_raw_data.csv
- Raw DHIS2 API Response_raw_api_response.txt
- DHIS2 "https://play.dhis2.org/2.35.1/api/:
- API dimension=dx:fbfJHSPpUQD;cYeuwXTCPkl
- Call: 2; ImspTQPwCqd&displayProperty=NAME"

{"API_CALL":"https://play.dhis2.
Arguments: dimension=dx:fbfJHSPpUQD;cYeuwX1
2;ImspTQPwCqd&displayProperty=NA

The files, stored as .csv's, are persisted in M-DIVE. They are available as the "Run History > Outputs" of the script and in the project [country name] Data Imports. For PMI HQ users, files will be available in the <u>PMI HQ Data Imports</u> project. The API call that was used to access that data is also stored in the script output for visibility and reproducibility. Data copied from DHIS2 using this script will automatically be made available to the M-DIVE Civis Team for potential inclusion in PMI's Malaria Quarterly Report.

Quarterly Import from DHIS2

M-DIVE users can use the same script to import DHIS2 data into M-DIVE on an automated schedule. The credential and the parameters in the script are stored securely in M-DIVE and do not need to be modified unless the DHIS2 credentials or other configurations change.