Aggregation of tracker data values

Tracker Capture

Data Entry

Name	Program name	Last updated	Aggregation
TB_AGG - Laboratory confirmed MDR-TB cases (excl			
TB_AGG - Laboratory-confirmed RR-TB or MDR-TB ca			
TB_AGG - New and relapse TB cases - 0-4 years fema			
TB_AGG - New and relapse TB cases - 0-4 years male			
TB_AGG - New and relapse TB cases - 15-24 years fe			
TB_AGG - New and relapse TB cases - 15-24 years m			
TB_AGG - New and relapse TB cases - 25-34 years fe			
TB_AGG - New and relapse TB cases - 25-34 years m			
TB_AGG - New and relapse TB cases - 35-44 years fe			
TB_AGG - New and relapse TB cases - 35-44 years m			
TB_AGG - New and relapse TB cases - 45-54 years fe			
TB_AGG - New and relapse TB cases - 45-54 years m			
TB_AGG - New and relapse TB cases - 5-14 years fem			
TB_AGG - New and relapse TB cases - 5-14 years ma			

All tuberculosis cases registered

	Previous anti-TB treatment status		
	New	Relapse	Previously treated (excludi
Pulmonary TB cases, bacteriologically confirmed	5	1	1
Pulmonary TB cases, clinically diagnosed	5	3	1
Extrapulmonary TB cases, bacteriologically confirmed or clinically diagnosed	5	3	7

All new and relapse cases (bacteriologically confirmed or clinically diagnosed) by age group an

	Age (years)						
	0-4	5-14	15-24	25-34	35-44	45-54	55-64
Male	11	4	0	7	35	39	31
Female	43	9	1	0	0	31	34

Laboratory diagnostic activity

Patients with presumtive TB undergoing bacteriological examination	2
Patient with presumptive TB with positive bacteriological examination results	3

dhis2

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Overview: Data import app

- **Data Import Wizard App by HISP Uganda**

  User friendly interface

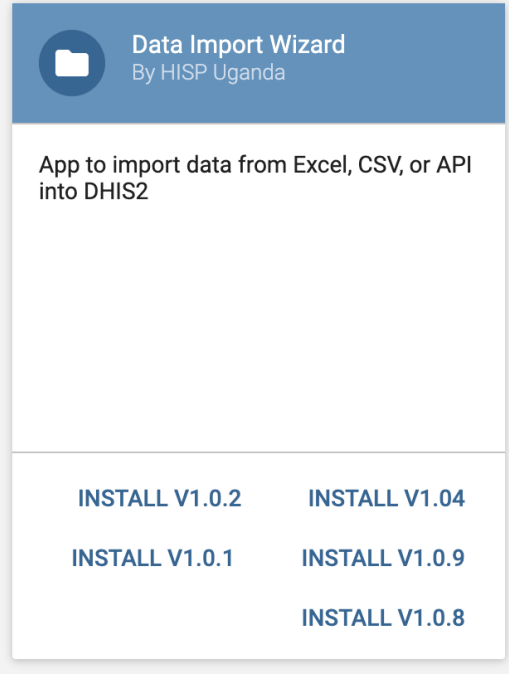
  Support of various import types

  Saved mappings

  Considerations: manual mapping process,

  Best suited for small-scale data sets

Data Import Wizard



Data Import Wizard

Install and start app on the aggregate instance

*Select **Aggregate** and create a **New Mapping***

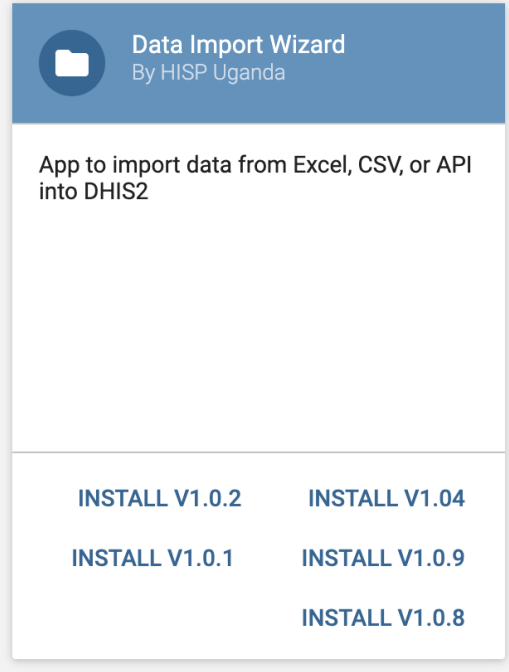
*Specify relevant **Data Set, Import type** and **periods***

*Enter login information for the **source instance***
*Map **Organisation Units** (done automatically if Org Units match)*

*Select relevant **program indicators***

*Map **data elements** and program **indicators***

*Proceed with **import of data***



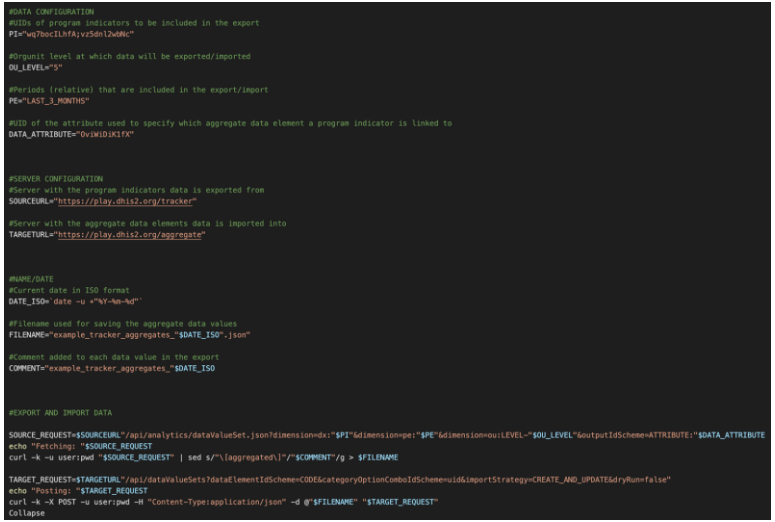
Overview: Tracker to aggregate script

Script

Shell executable script

Script requires initial set up

Automated periodic export of data to aggregate with eg. task scheduler

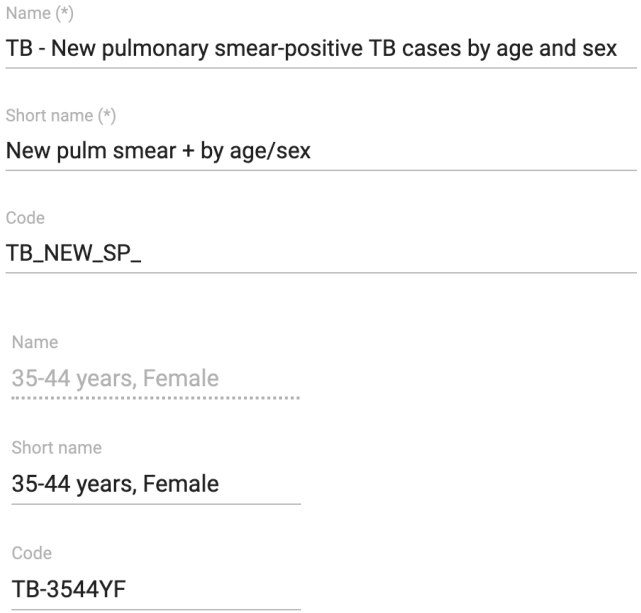


```
#DATA CONFIGURATION
#UIDs of program indicators to be included in the export
PI="wq7bocIlhfA;vz5dnl2wbNc"

#Orgunit level at which data will be exported/imported
OU_LEVEL="5"

#Periods (relative) that are included in the export/import
PE="LAST_3_MONTHS"

#UID of the attribute used to specify which aggregate data element a program indicator is linked to
DATA_ATTRIBUTE="OviWiDiK1fX"


#SERVER CONFIGURATION
#Server with the program indicators data is exported from
SOURCEURL="https://play.dhis2.org/tracker"

#Server with the aggregate data elements data is imported into
TARGETURL="https://play.dhis2.org/aggregate"


#NAME/DATE
#Current date in ISO format
DATE_ISO=`date -u +"%Y-%m-%d"`

#Filename used for saving the aggregate data values
FILENAME="example_tracker_aggregates_"$DATE_ISO".json"

#Comment added to each data value in the export
COMMENT="example_tracker_aggregates_"$DATE_ISO


#EXPORT AND IMPORT DATA

SOURCE_REQUEST=$SOURCEURL"/api/analytics/dataValueSet.json?dimension=dx:"$PI"&dimension=pe:"$PE"&dimension=ou:LEVEL-"$OU_LEVEL"&outputIdScheme=ATTRIBUTE:"$DATA_ATTRIBUTE
echo "Fetching: "$SOURCE_REQUEST
curl -k -u user:pwd "$SOURCE_REQUEST" | sed s/"\(aggregated\)"/"$COMMENT"/g > $FILENAME

TARGET_REQUEST=$TARGETURL"/api/dataValueSets?dataElementIdScheme=CODE&categoryOptionComboIdScheme=uid&importStrategy=CREATE_AND_UPDATE&dryRun=false"
echo "Posting: "$TARGET_REQUEST
curl -k -X POST -u user:pwd -H "Content-Type:application/json" -d @"$FILENAME" "$TARGET_REQUEST"
Collapse
```

Tracker to aggregate script

Mapping
Aggregate module:
Data elements and Category option combinations have to be coded

Tracker: Program indicators have to be mapped:
Custom Attribute: Data element for aggregate data export
Category option combination for aggregate data export



Tracker to aggregate script

```
#!/bin/bash
#DATA CONFIGURATION
#UIDs of program indicators to be included in the export
PI="wq7bocILhfA;vz5dnl2wbNc"
#Orgunit level at which data will be exported/imported
OU_LEVEL="5"

#Periods (relative) that are included in the export/import
PE="LAST_3_MONTHS"

#UID of the attribute used to specify which aggregate data element a program
indicator is linked to
DATA_ATTRIBUTE="OviWiDiK1fX"

#SERVER CONFIGURATION
#Server with the program indicators data is exported from
SOURCEURL="https://play.dhis2.org/tracker"

#Server with the aggregate data elements data is imported into
TARGETURL="https://play.dhis2.org/aggregate"

#NAME/DATE
#Current date in ISO format
DATE_ISO=`date -u +"%Y-%m-%d"`
```

```
#Filename used for saving the aggregate data values
FILENAME="example_tracker_aggregates_"$DATE_ISO".json"

#Comment added to each data value in the export
COMMENT="example_tracker_aggregates_"$DATE_ISO



#EXPORT AND IMPORT DATA

SOURCE_REQUEST=$SOURCEURL"/api/analytics/dataValueSet.json?dimension=dx:"$PI"&dimen
sion=pe:"$PE"&dimension=ou:LEVEL-
"$OU_LEVEL"&outputIdScheme=ATTRIBUTE:"$DATA_ATTRIBUTE
echo "Fetching: "$SOURCE_REQUEST
curl -k -u user:pwd "$SOURCE_REQUEST" | sed s/"\[aggregated\]"/"$COMMENT"/g >
$FILENAME

TARGET_REQUEST=$TARGETURL"/api/dataValueSets?dataElementIdScheme=CODE&categoryOptio
nComboIdScheme=uid&importStrategy=CREATE_AND_UPDATE&dryRun=false"
echo "Posting: "$TARGET_REQUEST
curl -k -X POST -u user:pwd -H "Content-Type:application/json" -d @"$FILENAME"
"$TARGET_REQUEST"
Collapse
```