SIMS Data Import Cheatsheets

SIMS data elements

- Almost all SIMS data elements begin with "SIMS", and are easily searched through the API

- https://www.datim.org/api/dataElements?filter=name:like:SIMS

- There are some exceptions, so consult the datasets for exact details of which data elements are present in each dataset

- https://www.datim.org/api/dataSets?filter=name:like:SIMS&fields=id,name,dataElements[id,name,numberType,optionSet]

Option sets

- Many SIMS data elements use the "SIMS value" option set.

- An option set is just a list of possible values

- https://www.datim.org/api/optionSets/NhBfT0hyniX?fields=id,name,options[id,name,code]

```xml
<optionSet name="SIMS Score" id="NhBfT0hyniX" xmlns="http://dhis2.org/schema/dxf/2.0">
    <options>
        <option code="1" name="Red" id="BgekJmXHjWi"/>
        <option code="2" name="Yellow" id="nIIUIooafD8"/>
        <option code="3" name="Light Green" id="ePLUjBRUsZV"/>
        <option code="4" name="Dark Green" id="aFKkgIDYaVR"/>
        <option code="0" name="Not Applicable" id="VSAAQjMhJBh"/>
    </options>
</optionSet>
```

Option sets

- When importing data into DATIM, you should use the "code" of the particular option (e.g. 1) not the name "Red"

- Consult specific option codes for details

    – https://www.datim.org/api/optionSets

    – https://www.datim.org/api/optionSets/wLqokKKCV6h?fields=id,displayName,options[name,code]

```xml
<optionSet id="wLqokKKCV6h" xmlns="http://dhis2.org/schema/dxf/2.0">
    <displayName>SIMS Entity Type</displayName>
    <options>
        <option code="MOHNAT" name="Ministry of Health - National Level"/>
        <option code="MOHSUBNAT" name="Ministry of Health - Subnational Level"/>
        <option code="NAC" name="National AIDS Coordinating Agency"/>
        <option code="MOF" name="Ministry of Finance"/>
        <option code="NGO" name="Non-Governmental Organization"/>
        <option code="NETWORK" name="Network"/>
        <option code="OTHER" name="Other"/>
    </options>
</optionSet>
```

Period format

- SIMS data is recorded on a monthly basis.
- The format of the "period" should be YYYYmm,
- YYYY stands for the year (e.g 2015)
- mm stands for the month (e.g. 02 for February)
- Be sure to include the zero for months prior to August

Organisation units / Sites

- SIMS Above site can only be entered at the OU level

- SIMS community can only be entered at the community level

- SIMS Facility can only be entered at facility level

- In version 2.21, invalid organisation units will be rejected

Data value types

- **Long text:** Restricted to 50,000 characters

- **True only:** Only accepts "true"

- **Boolean:** Only accepts "true" or "false"

- **Option sets:** Only accept <u>valid option codes</u>, typically numeric

- Dates: Only accepts valid dates (e.g 2015-05-10) or timestamps without time zones (e.g 2015-05-10 12:13:56)

Data value set templates

- DHIS2 can help you generate a template for import into DATIM

- Just substitute the UID of the dataset you need a template for

- https://www.datim.org/api/dataSets/M059pmNzZYE/dataValueSet.json

Changes in the API (2.21)

- Version 2.20

- https://www.datim.org/api/dataSets?filter=name:like:SIMS&fields=id,name,dataElements[id,name,numberType,optionSet]

- Version >2.20

- https://www.datim.org/api/dataSets?filter=name:like:SIMS&fields=id,name,dataElements[id,name,valueType,optionSet]

More resources

- DATIM Specific resources available through ZenDesk
  - SIMS Planner reports
  - DATIM Data Exchange Instructions and Code Lists
- DHIS2 Developer and user manual (https://www.dhis2.org/documentation)
- OpenHIE resources
- If you get stuck, ask the HelpDesk!

DATIM Validation scripts

- An R library for helping you (and us) to validate data externally of DATIM

- All you need to get started is a copy of R

- Supports multiple operating systems and is open-source

- https://github.com/jason-p-pickering/datim-validation

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