Mentimeter

DHIS2 with OpenAPI

coming in DHIS 2.40

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Who talks to DHIS2?

- → Web Apps
- → Integrations Apps
- → Mobile Apps
- → 3rd Party Libs

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Data values

This section is about sending and reading data values.

```
/api/dataValueSets
```

Sending data values

To send data values you can make a POST request to the following resource.

```
POST /api/dataValueSets
```

A common use-case for system integration is the need to send a set of data values from a third-party system into DHIS. In this example, we will use the DHIS2 demo on `http://play.dhis2.org/demo` as basis. We assume that we have collected case-based data using a simple software client running on mobile phones for the *Mortality <5 years* data set in the community of *Ngelehun CHC* (in *Badjia* chiefdom, *Bo* district) for the month of January 2014. We have now aggregated our data into a statistical report and want to send that data to the DHIS2 instance. The base URL to the demo API is `http://play.dhis2.org/demo/api`. The following links are relative to the base URL.

The resource which is most appropriate for our purpose of sending data values is the `/api/dataValueSets` resource. A data value set represents a set of data values which have a relationship, usually from being captured off the same data entry form. The format looks like this:

```
<dataValueSet xmlns="http://dhis2.org/schema/dxf/2.0" dataSet="dataSetID"
  completeDate="date" period="period" orgUnit="orgUnitID" attributeOptionCombo="aocID">
  <dataValue dataElement="dataElementID"
    categoryOptionCombo="cocID" value="1" comment="comment1"/>
  <dataValue dataElement="dataElementID"
    categoryOptionCombo="cocID" value="2" comment="comment2"/>
  <dataValue dataElement="dataElementID"
    categoryOptionCombo="cocID" value="3" comment="comment3"/>
</dataValueSet>
```

JSON is supported in this format:

```
{
    "dataSet": "dataSetID",
    "completeDate": "date",
    "period": "period",
    "orgUnit": "orgUnitID",
```

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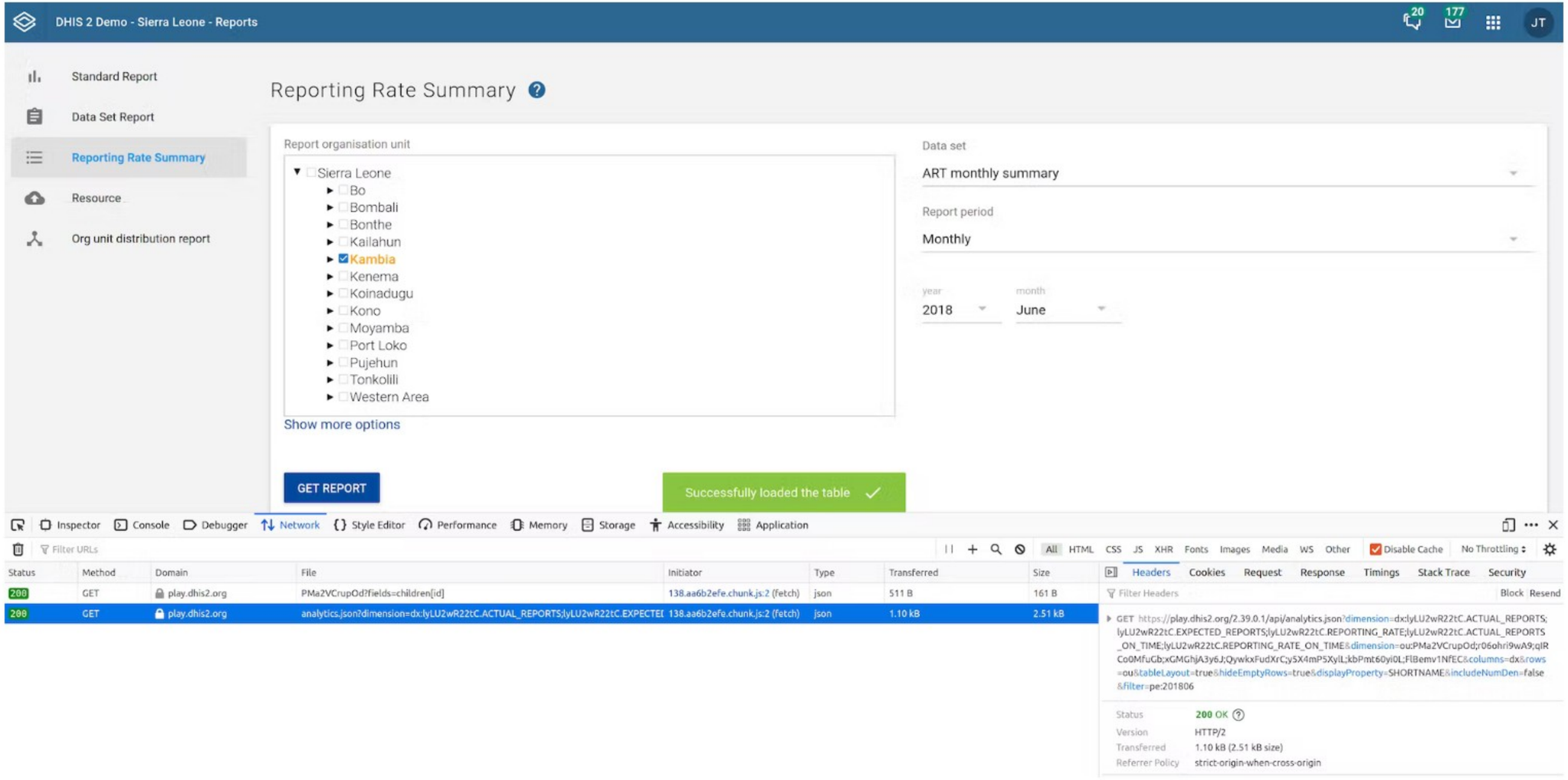
DHIS 2 Demo - Sierra Leone - Reports
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JT
Standard Report
Data Set Report
Reporting Rate Summary
Resource
Org unit distribution report
Reporting Rate Summary
Report organisation unit
Sierra Leone
Bo
Bombali
Bonthe
Kailahun
Kambia
Kenema
Koinadugu
Kono
Moyamba
Port Loko
Pujehun
Tonkolili
Western Area
Show more options
Data set
ART monthly summary
Report period
Monthly
year
2018
month
June
GET REPORT
Successfully loaded the table
Inspector
Console
Debugger
Network
Style Editor
Performance
Memory
Storage
Accessibility
Application
Filter URLs
All HTML CSS JS XHR Fonts Images Media WS Other
Disable Cache
No Throttling
Status Method Domain File Initiator Type Transferred Size
200 GET play.dhis2.org PMa2VCrupOd?fields=children[id] 138.aa6b2efe.chunk.js:2 (fetch) json 511 B 161 B
200 GET play.dhis2.org analytics.json?dimension=dx:lyLU2wR22tC.ACTUAL_REPORTS;lyLU2wR22tC.EXPECTE(138.aa6b2efe.chunk.js:2 (fetch) json 1.10 kB 2.51 kB
Headers
Cookies
Request
Response
Timings
Stack Trace
Security
Filter Headers
Block
Resend
GET https://play.dhis2.org/2.39.0.1/api/analytics.json?dimension=dx:lyLU2wR22tC.ACTUAL_REPORTS;lyLU2wR22tC.EXPECTED_REPORTS;lyLU2wR22tC.REPORTING_RATE;lyLU2wR22tC.ACTUAL_REPORTS_ON_TIME;lyLU2wR22tC.REPORTING_RATE_ON_TIME&dimension=ou:PMa2VCrupOd;r06ohri9wA9;qIRCo0MfuGb;xGMGhjA3y6J;QywkxFudXrC;y5X4mP5XylL;kbPmt60yi0L;FlBemv1NfEC&columns=dx&rows=ou&tableLayout=true&hideEmptyRows=true&displayProperty=SHORTNAME&includeNumDen=false&filter=pe:201806
Status 200 OK
Version HTTP/2
Transferred 1.10 kB (2.51 kB size)
Referrer Policy strict-origin-when-cross-origin

Why a Formal API Descriptor?

- → Documentation
- → Client SDKs
- → Governance
- → Exploration

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API Descriptor Languges

- RAML
- OpenAPI
- API Blueprint
- WADL
- etc...

OpenAPI

- Tooling
- Community
- Backed by industry leaders

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Stoplight

https://dhis2.stoplight.io/docs/dhis2/

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openapi.yaml

https://play.dhis2.org/dev/api/openapi/openapi.yaml

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Discussion