

Motivation

- Better structure
- More stable identities for tables
- No limits on the amount of data cell that can be retrieved in one request
- More self descriptive
- HTTP GET requests for data retrievals



Better structure

Configuration

Metadata about the API

Database

Information about the structure of the database

Table

Metadata and data for all tables in the database



Better structure

```
apiVersion: "2.0",
languages: [{id: "sv",
       name: "Svenska",
       defaultLanguage: true},
       {id: "en",
       name: "English"}],
maxDataCells: 10000,
maxCalls: 30,
timeWindow: 10,
CORS: true,
dataFormats: ["px", "json-stat", "csv", "tsv"],
defaultDataFormat: "px",
streamingFormats: ["csv", "tsv"],
defaultStreamingFormat: "csv",
etc ...
```



More stable identities for tables

Language Path to table

http://api.scb.se/OV0104/v1/doris/sv/ssd/START/BE/BE0401/BE0401A/BefolkprognRevN

Base URL Database



More stable identities for tables

http://api.scb.se/api/v2/tables/TAB0001

MATRIX in PX file based and TableId in CNMM databases will be used as the identity for a table.



No limits...

- Stream the data
- But there is other type of limits
 - Only a couple of formats supported (CSV and TSV)
 - No aggregations
 - Harder to implement for PX-file databases so it might come later



A bit more self descriptive

```
id: "TAB0001",
text: "Tabell A",
updated: "2018-01-01T09:30:00"
links: [{
     rel="metadata",
     href: "http://my-site.com/api/v2/tables/TAB0001"},
     rel="data",
     href: "http://my-site.com/api/v2/tables/TAB0001/data"}]
```



HTTP GET requests...

http://api.scb.se/api/v2/tables/TAB0001/data?tid=2017,2018

Add the table query to the url as query parameters



HTTP GET requests...

YEAR=-(4),+(2),1999,*79,*3*,18*

- the last 4 time periods
- The first two time periods
- The year 1999
- All years ending with 79
- All years containing the number 3
- All years starting with 18



Restrictions

- Names of aggregation files must be unique
- Only one database
- VARIABLETYPE keyword must be formalized
- Initially only support for PX, JSON-STAT, CSV,TSV



Names of aggregation files must be unique

Since the name of the aggregation file is used as the identity of the filter it has to be unique.



Only one database

Almost everybody only have one database per PX-Web installation it makes sense to limit the number of databases to one which will make it easier for everyone



VARIABLETYPE keyword

- TIME
- CONTENT
- GEOGRAPHY
- OTHER/NORMAL



Initially only support for PX, JSON-STAT, CSV and TSV

- Open formats
- More resource efficient
- Do not require 3-rd party extensions



Thanks for listening

