

## INSTRUCTIONS FOR USING THE STATISTICAL DATABASE API

The statistical database allows querying data and data cube structure descriptions by API in two formats: SDMX (XML) and SDMX (JSON).

[SDMX – Statistical Data and Metadata eXchange](#)

### Differences of XML and JSON APIs besides the output format

- In data query results, XML API returns data cube dimension values as codes, while JSON API returns dimension values also as text in the language specified in HTTP Accept-Language header.
- In structure query results, XML API returns the textual values of data cube dimensions in all translated languages (Estonian and English), while JSON API returns the textual values of dimensions in one language, which is specified in HTTP Accept-Language header.
- JSON API enables specifying as an optional query parameter the time as of which the added or changed data appear in the query result. XML output does not have this option.

### Creating queries by API

When the table with the desired data is displayed, choose between the options SDMX (JSON) or SDMX (XML) in the Export menu above the table.

In the opened window, it is possible to adjust the format of the query result and copy the data and structure query addresses.

### Structure query example

Structure data of data cube [VK12](#).

<http://andmebaas.stat.ee/restsdmx/sdmx.ashx/GetDataStructure/VK12> (XML)

<http://andmebaas.stat.ee/sdmx-json/metadata/VK12> (JSON)

### Data query example

All data of data cube [VK12](#).

<http://andmebaas.stat.ee/restsdmx/sdmx.ashx/GetData/VK12> (XML)

<http://andmebaas.stat.ee/sdmx-json/data/VK12> (JSON)

**NB!** It should be taken into account that the maximum number of observation values in the API query result is 1,000,000. This means that in the case of some data cubes it is not possible to obtain the information included in the cube by one query. In this case, the query should be narrowed by choosing the relevant cube dimension values.

Data of data cube [VK12](#) which correspond to the dimension value selection presented below.

- 1. Indicator**  
Commodity value (TRD\_VAL),  
Commodity value change compared with previous period (TRD\_VAL\_PREV)
- 2. Flow**  
Balance (BAL)
- 3. Country**  
Total (TOTAL)
- 4. Frequency**  
Annual (A)
- 5. Reference period**  
2013–2017

[http://andmebaas.stat.ee/restsdx/sdmx.ashx/GetData/VK12/TRD\\_VAL+TRD\\_VAL\\_PREV.BAL.TOTAL.A/all?startTime=2013&endTime=2017](http://andmebaas.stat.ee/restsdx/sdmx.ashx/GetData/VK12/TRD_VAL+TRD_VAL_PREV.BAL.TOTAL.A/all?startTime=2013&endTime=2017) (XML)

[http://andmebaas.stat.ee/sdmx-json/data/VK12/TRD\\_VAL+TRD\\_VAL\\_PREV.BAL.TOTAL.A/all?startTime=2013&endTime=2017](http://andmebaas.stat.ee/sdmx-json/data/VK12/TRD_VAL+TRD_VAL_PREV.BAL.TOTAL.A/all?startTime=2013&endTime=2017) (JSON)

If data is needed for all values of some dimensions, the respective area can be left empty in the URL.

[http://andmebaas.stat.ee/restsdx/sdmx.ashx/GetData/VK12/TRD\\_VAL+TRD\\_VAL\\_PREV..TOTAL.A/all?startTime=2013&endTime=2017](http://andmebaas.stat.ee/restsdx/sdmx.ashx/GetData/VK12/TRD_VAL+TRD_VAL_PREV..TOTAL.A/all?startTime=2013&endTime=2017) (XML)

[http://andmebaas.stat.ee/sdmx-json/data/VK12/TRD\\_VAL+TRD\\_VAL\\_PREV..TOTAL.A/all?startTime=2013&endTime=2017](http://andmebaas.stat.ee/sdmx-json/data/VK12/TRD_VAL+TRD_VAL_PREV..TOTAL.A/all?startTime=2013&endTime=2017) (JSON)

This query is similar to the previous one, but the values of the second dimension (Flow) are not specified in the query. Therefore, the results include data for all values of this dimension.

In case of JSON output, for requesting data that were added to or changed in a data cube as of a specific time an optional query parameter `updatedAfter` can be used in format YYYY-MM-DD or YYYY-MM-DD%20hh:mm.

[http://andmebaas.stat.ee/sdmx-json/data/VK12/TRD\\_VAL+TRD\\_VAL\\_PREV.BAL.TOTAL.A/all?startTime=2013&endTime=2017&updatedAfter=2018-04-01](http://andmebaas.stat.ee/sdmx-json/data/VK12/TRD_VAL+TRD_VAL_PREV.BAL.TOTAL.A/all?startTime=2013&endTime=2017&updatedAfter=2018-04-01)

**NB!** All queries always return the latest data, i.e. if any values have changed, the prior values cannot be queried by API.

## Detailed instructions

[XML API](#)  
[JSON API](#)