**.Stat RESTful Web Service Cheat Sheet**

This cheat sheet is a quick reference description of the syntax and parameters for the .Stat RESTful API. It is adapted from the cheat sheet for the full [SDMX RESTful API](https://github.com/sdmx-twg/sdmx-rest/blob/master/v2_1/ws/rest/docs/rest_cheat_sheet.pdf?raw=true)​​ with examples added for the .Stat context and the unsupported elements removed.

**Legend: Mandatory path parameter / Optional path parameter / Query string parameter (all optional)**

**Structural metadata queries:** [http[s]://.Stat space WS/resource**/agencyID/resourceID/version?queryStringParameters**](https://ws-entry-point/resource/agencyID/resourceID/version/itemID?queryStringParameters)

Each a .Stat space has a different web service entry point which should- replace **http[s]://.Stat space WS/resource** in the above syntax.

More options are available in the [full SDMX REST API standard](https://github.com/sdmx-twg/sdmx-rest/blob/master/v2_1/ws/rest/docs/rest_cheat_sheet.pdf?raw=true) but are not present or have not been fully tested in the .Stat web service, and do not appear here.

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| --- | --- | --- |
| Parameter | Description | Default |
| resource | The type of artefact to be returned. Values: datastructure, categoryscheme, conceptscheme, codelist, hierarchicalcodelist, agencyscheme, dataflow, categorisation, contentconstraint, actualconstraint, allowedconstraint, structure |  |
| agencyID | Agency maintaining the artefact (e.g.: OECD) | all |
| resourceID | Artefact ID (e.g.: CL\_FREQ) | all |
| version | Arterfact version (e.g.: 1.0 or latest) | latest |
| detail | Desired amount of information. Values: allstubs, referencestubs, referencepartial, full | full |
| references | References to be returned with the artefact. Values: none, all, any type of resource | none |

**Examples of structural metadata queries**

These examples use an entry point of <http://nsi-staging-oecd.redpelicans.com/> This may be swapped out for your target space.

|  |  |
| --- | --- |
| Use case | Example querystring |
| All data structures, all versions | [http://nsi-staging-oecd.redpelicans.com/rest/datastructure/all](http://nsi-design-oecd.redpelicans.com/rest/datastructure/all)/all/all |
| A data structure and its references | <http://nsi-staging-oecd.redpelicans.com/rest/datastructure/OECD.CFE/DSD_TOURISM_TRIPS/5.0?references=all> |
| Full Dataflow with concept schemes, codelists, categorisations and constraints | <http://nsi-staging-oecd.redpelicans.com/rest/dataflow/OECD.CFE/DF_DOMESTIC_TOURISM/5.0?references=all> |
| Full Dataflow with partial concept schemes, codelists, categorisations and content constraints | <http://nsi-staging-oecd.redpelicans.com/rest/dataflow/OECD.CFE/DF_DOMESTIC_TOURISM/5.0?references=all&detail=referencepartial> |
| Latest versions of all Codelists | <http://nsi-staging-oecd.redpelicans.com/rest/codelist/all/all/latest> |
| Latest versions of all codelists returned as stubs | <http://nsi-staging-oecd.redpelicans.com/rest/codelist/all/all/latest?detail=allstubs> |
| A Concept Scheme | <http://nsi-staging-oecd.redpelicans.com/rest/conceptscheme/OECD.CFE/CS_TOURISM/latest> |
| All category schemes (there is usually one), latest version | [http://nsi-staging-oecd.redpelicans.com/rest/categoryscheme/all](http://nsi-design-oecd.redpelicans.com/rest/categoryscheme/all)/all/latest |
| All agency schemes | [http://nsi-staging-oecd.redpelicans.com/rest/agencyscheme/all](http://nsi-design-oecd.redpelicans.com/rest/agencyscheme/all)/all/all |

**Data queries: http[s]://ws-entry-point/resource/flowRef/key?queryStringParameters**

Each a .Stat space has a different web service entry point which should replace <https://ws-entry-point> in the above syntax.

|  |  |  |
| --- | --- | --- |
| Parameter | Description | Default |
| resource | data |  |
| flowRef | Dataflow reference in a format AGENCY,ID,VERSION (for example, OECD.CFE,DF\_DOMESTIC\_TOURISM,5.0) |  |
| key | Query coordinates of the data. The coordinates are the dimension values in the order that they appear in the data structure separated by a period, e.g: D.NOK.EUR.SP00.A. A dimension can be wildcarded by leaving it blank between the periods, e.g: D..EUR.SP00.A. The dimension can values can have multiple values (OR) by using + between the values, e.g:  D.NOK+RUB.EUR.SP00.A | all |
| startperiod | Start period (inclusive). ISO8601 (e.g. 2014-01) or SDMX reporting period (e.g. 2014-Q3) |  |
| endperiod | End period (inclusive). ISO8601 (e.g. 2014-01-01) or SDMX reporting period (e.g. 2014-W53) |  |
| dimensionAtObservation | The Id of the dimension attached at the observation level. Options are:   * TIME\_PERIOD: will return a timeseries view of the data. * AllDimensions: will return a flat view of the data, with no groupings. * ID of any other dimension: will return a cross-sectional view of the data | TIME\_PERIOD |
| detail | Desired amount of information to be returned. Only option is full – observations and attributes will be returned. | full |

**Examples of data queries**

These examples use an entry point of <http://nsi-staging-oecd.redpelicans.com>. This may be swapped out for your target space.

|  |  |
| --- | --- |
| Use case | Example querystring |
| All data for a Dataflow, time series view | [http://nsi-staging-oecd.redpelicans.com/rest/data/OECD.CFE,DF\_DOMESTIC\_TOURISM,5.0](http://nsi-staging-oecd.redpelicans.com/rest/data/OECD.CFE%2cDF_DOMESTIC_TOURISM%2c5.0) |
| All data for a partial key (Total Visitors measure), time series view | <http://nsi-staging-oecd.redpelicans.com/rest/data/OECD.CFE,DF_DOMESTIC_TOURISM,5.0/..TOTAL_VISITORS........> |
| All data for a partial key (Argentina, Total Visitors measure, Annual frequency), time series view | <http://nsi-staging-oecd.redpelicans.com/rest/data/OECD.CFE,DF_DOMESTIC_TOURISM,5.0/AR..TOTAL_VISITORS........A> |
| Annual data for period 2010-2020 in a flat view | <http://nsi-staging-oecd.redpelicans.com/rest/data/OECD.CFE,DF_DOMESTIC_TOURISM,5.0/.........A?startPeriod=2010&endPeriod=2020&dimensionAtObservation=AllDimensions> |

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| **Useful HTTP headers**   |  |  | | --- | --- | | Header | Description | | Accept | Select the desired format | | Accept-Language | ISO code of Language | | If-Modified-Since | Get the data only if something has changed | | Accept-Encoding | Compress the response | | Range | Used in data messages, returns N+1 first obervations.  Example: Range: values=0-10000 |   Feature not implemented  **Note:** If the Accept header is not used webservice itself will determine the format and this choice may change over time | **Period formats**   |  |  | | --- | --- | | Period | Format | | Daily/Business | YYYY-MM-DD | | Weekly | YYYY-W[01-53] | | Monthly | YYYY-MM | | Quarterly | YYYY-Q[1-4] | | Semi-annual | YYYY-S[1-2] | | Annual | YYYY |   Feature not implemented | **Response codes**   |  |  | | --- | --- | | Code | Description | | 200 | Ok | | 206 | Partial content | | 304 | No change since the timestamp supplied in the If-Modified-Since header | | 400 | Bad request due to syntax error | | 401 | Login needed | | 403 | Semantic error (Forbidden) | | 404 | Not found. No data corresponds to the query | | 406 | Invalid format (Not acceptable) | | 413 | Results too large | | 414 | URI too long | | 500 | Server error | | 501 | Not implemented | | 503 | Unavailable |   Feature not implemented |
| **Supported formats. “Parameter” in the tables below is used with the Accept HTTP header (see the Useful HTTP headers above)**  **Data**   |  |  | | --- | --- | | Format | Parameter | | SDMX-ML Generic Data | application/vnd.sdmx.genericdata+xml;version=2.1 or application/xml; version=2.1  or text/xml; version=2.1 | | SDMX-ML StructureSpecific Data | application/vnd.sdmx.structurespecificdata+xml;version=2.1 | | SDMX-JSON Data | application/vnd.sdmx.data+json;version=1.0 or application/vnd.sdmx.data+json;version=1.0.0-wd or  text/json or application/json | | SDMX-CSV Data | application/vnd.sdmx.data+csv  application/vnd.sdmx.data+csv;labels=id (returns only IDs)  application/vnd.sdmx.data+csv;file=true;labels=both (returns csv in a file with both IDs and labels) | | | |
| **Structure**   |  |  | | --- | --- | | Format | Parameter | | SDMX-ML Structure | application/vnd.sdmx.structure+xml;version=2.1 or application/xml;version=2.1 or text/xml;version=2.1 | | SDMX-JSON Structure | application/vnd.sdmx.structure+json;version=1.0 or application/vnd.sdmx.structure+json;version=1.0.0-wd or  text/json or application/json | | | |