

# API SDMX 2.1 - data discovery

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These API operations support requests for catalogues of data and SDMX lists of structural metadata and data.

## SDMX 2.1 endpoint - SDMX lists of structural metadata and data

This is the REST request for retrieving the list of all structural metadata from the [SDMX 2.1 endpoint](#):

```
https://<api_base_uri>/sdmx/2.1/<resource>/<agencyID>/all?detail=<details>
```

where

| Parameter     | Description                                                                                                                                                                                                                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| api_base_uri  | See <a href="#">definition of api_base_uri</a>                                                                                                                                                                                                                                                                                     |
| resource      | Following resources are supported:<br>dataflow<br>datastructure<br>codelist<br>conceptscheme                                                                                                                                                                                                                                       |
| agencyID      | See <a href="#">definition of agencyID</a>                                                                                                                                                                                                                                                                                         |
| Optional      | Description                                                                                                                                                                                                                                                                                                                        |
| details       | Specify the scope:<br>full to return everything for each item (default). Requesting full scope can return very large responses. Potentially it may be preferable to request first a stub view, and then request individually (relevant) artefact(s) in sequence.<br>allstubs / referencestubs to return only the name of each item |
| completestubs | true to return the name, description and annotations of each item                                                                                                                                                                                                                                                                  |

as illustrated by

### Examples

Get only the names of **all dataflows**:

<https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/dataflow/ESTAT/all?detail=allstubs>

Get only the name of **a specified data structure**:

[https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/datastructure/ESTAT/ISOC\\_CI\\_ID\\_H?detail=referencestubs](https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/datastructure/ESTAT/ISOC_CI_ID_H?detail=referencestubs)

Get the name, descriptions and annotations for **a specified codelist**:

<https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/codelist/ESTAT/AIRPOL?detail=referencestubs&completestub=true>

Get the names, descriptions and annotations for **all concept schemes**:

<https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/conceptscheme/ESTAT/all?detail=allstubs&completestub=true>

## SDMX 2.1 endpoint - SDMX lists i.e. tree of data for classification purposes

SDMX provides a metamodel for describing data in any statistical domain:

- A **category scheme** is a container for categories, which can be organized in a tree hierarchy.
- **Categories** in SDMX are used to classify Dataflows;
  - Each of the dataflows can be connected to one or more categories, and
  - Any one category can be connected to zero or more dataflows.

This connection supports data discovery by organised topics, e.g. Economy and finance, Population and social conditions, Industry, trade and services etc.

- A **categorisation** links a category in a Category Scheme to any other Identifiable structure in SDMX. Typically in a dissemination environment a categorisation would link a Category to a Dataflow.

## SDMX 2.1 - REST - All Category Schemes - All categorisations

The request is the same as for retrieving the list of all structural metadata:

```
https://<api_base_uri>/sdmx/2.1/<resource>/<agencyID>/all
```

where

| Parameter    | Description                                                            |
|--------------|------------------------------------------------------------------------|
| api_base_uri | See <a href="#">definition of api_base_uri</a>                         |
| resource     | Following resources are supported:<br>categoryscheme<br>categorisation |
| agencyID     | See <a href="#">definition of agencyID</a>                             |

Note that there is no detail parameter for resources 'categoryscheme' and 'categorisation'.

#### Examples

Get **all categoryschemes**:

<https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/categoryscheme/ESTAT/all>

Get **all categorisations**:

<https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/categorisation/ESTAT/all>

## SDMX 2.1 - REST - Category Scheme - Categorisation

The request is the same as for retrieving other [structural metadata](#):

```
https://<api_base_uri>/sdmx/2.1/<resource>/<agencyID>/<resourceID>
```

where

| Parameter    | Description                                                                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| api_base_uri | See <a href="#">definition of api_base_uri</a>                                                                                                                     |
| resource     | Following resources are supported:<br>categoryscheme<br>categorisation                                                                                             |
| agencyID     | See <a href="#">definition of agencyID</a>                                                                                                                         |
| resourceID   | The identifier of the resource<br>The resourceID for a categorisation is a GUID.<br>This information is to be found by requesting the list of all categorisations. |

as illustrated by

#### Examples

Get categoryscheme for **AGRIC**:

<https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/categoryscheme/ESTAT/AGRIC>

Get a categorisation under **AGRIC**:

[https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/categorisation/ESTAT/APRO\\_MT\\_STRPIG\\_uuid\\_apro\\_mt\\_str](https://ec.europa.eu/eurostat/api/dissemination/sdmx/2.1/categorisation/ESTAT/APRO_MT_STRPIG_uuid_apro_mt_str)