

# **Release notes PxWeb 2023 v1**



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## What is new in PxWeb 2023 v1?

Here are some of the new features in PxWeb 2023 v1:

- DCAT-AP improvements
- CSV2 and CSV3
- More JSON-stat2 metadata
- Set CNMM Root node
- Data retrieval URL for PxWebApi 2.0
- Bug fixes and improvements

This document is a description of the features and bug fixes introduced with PxWeb 2023 v1.

A number of bug fixes and improvements has been made. The (#xxx) numbers represents the related issues that has been reported on Github:

<https://github.com/statisticssweden/PxWeb/issues>

An online demo of PxWeb 2023 v1 can be found at:

<http://pxwebdemo.scb.se/>

More information about PxWeb can be found at:

<https://www.scb.se/en/px-web/>

## DCAT-AP file export improvements

DCAT-AP is a file format used by Data portals to import metadata about data tables and datasets. For more information, see:

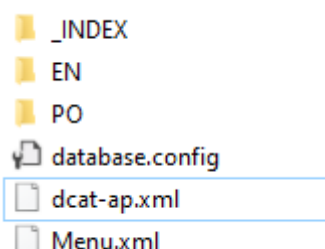
<https://joinup.ec.europa.eu/collection/semic-support-centre/solution/dcat-application-profile-data-portals-europe/about>

The possibility to export a PxWeb database as a DCAT-AP file was introduced in PxWeb 2022 v1. A number of improvements for the DCAT-AP file export has been made in PxWeb 2023 v1.

### Per PX database

In PxWeb 2023 v1 it is possible to make the DCAT-AP export per PX database.

When you run the export tool the `dcat-ap.xml` file is created in the folder of the selected database:



Also the DCAT-AP settings have moved from the `setting.config` file to the `database.config` file. In this way the settings entered in the export tool is saved per PX database.

### Output

The output from the file export has been improved to better align to the DCAT-AP standard. The following improvements has been made:

#### Per language

The DCAT-AP file exported from PxWeb contains a number of texts describing the data tables. In PxWeb 2023 v1 these texts are per language that the PxWeb database supports.

#### Table id

Table id (or MATRIX) is used as the identifier for datasets:

```
<dcat:Dataset
rdf:about="https://baseURI.com/dataset/tab002">
```

#### Map Publisher and Creator to URI:s

The exported DCAT-AP file contains information about the Publisher and Creator of the data table. In PxWeb 2023 v1 it is possible to map the Publisher and Creator to a universal URIs (Uniform Resource Identifier). If this is configured the URIs for the mapped organizations will be used in the DCAT-AP file as the value for the Publisher and Creator.

Publisher is a DCAT-AP setting in the PxWeb Administration tool. Creator is taken from the SOURCE keyword in the PX-files.

It is good practice to map your sources to existing organizations otherwise a new organization will be generated.

The mapping is made in the file Organizations.json.

Example:

The value of the keyword SOURCE in the PX file is "Statistics Sweden":

```
SOURCE="Statistics Sweden"
```

In the file Organisationz.json "Statistics Sweden" has been mapped to the URI of Statistics Sweden:

```
"Statistics Sweden" :  
"http://id.kb.se/organisations/SE2021000837"
```

When the DCAT-AP export is made the URI will be used for the creator of the table:

```
<dcterms:creator  
rdf:Resource="http://id.kb.se/organisations/SE2021000837"  
>
```

### Landing page base URL

The landing page now also works for PX databases.

### Export tool

The DCAT-AP export tool has been improved in the Administration tool.

The screenshot shows the 'PxWEB ADMINISTRATION' interface. The top navigation bar includes 'HOME', 'SETTINGS', 'TOOLS' (highlighted), 'FEATURES', and 'USERS'. Below this, a sub-navigation bar contains 'GENERATE DATABASE', 'LANGUAGE MANAGER', 'RESET', and 'DCAT' (highlighted). The main content area is titled 'DCAT' and contains a form for configuring database settings. The form is organized into two columns. The left column lists settings: Database type, Database, Base URI, Licence, Base API URL, Landing page base URL, Publisher, Language (with sub-sections for Swedish and English), Catalog Title, Catalog Description, and Status. The right column contains input fields for these settings. The 'Database type' is set to 'PX'. The 'Database' is set to 'Example'. The 'Base URI' is 'https://baseURI.com/'. The 'Licence' is 'http://creativecommons.org/publicdomain/zero/1.0/'. The 'Base API URL' is 'https://baseAPI.com/'. The 'Landing page base URL' is 'https://baseLandingPage.com/'. The 'Publisher' is 'SCB - test'. The 'Language' section has 'Swedish' selected, with 'Catalog title' and 'Catalog desc' fields. The 'English' section also has 'Catalog title' and 'Catalog desc' fields. The 'Status' field is 'Created 20231003 14:05'. A 'Generate' button is at the bottom right.

Setting	Value
Database type	PX
Database	Example
Base URI	https://baseURI.com/
Licence	http://creativecommons.org/publicdomain/zero/1.0/
Base API URL	https://baseAPI.com/
Landing page base URL	https://baseLandingPage.com/
Publisher	SCB - test
Language	Swedish
Catalog Title	Catalog title
Catalog Description	Catalog desc
Language	English
Catalog Title	Catalog title
Catalog Description	Catalog desc
Status	Created 20231003 14:05

Generate

Settings are stored per PX database.

Text fields per language has been added.

A status field has been added that shows when the DCAT-AP file was last created.

### **Admin API call**

The Administration API call for creation DCAT-AP files has also been updated to reflect these changes.

For more information, see <https://github.com/statisticssweden/DataportalXML>

## File formats

### CSV2 and CSV3 also in the user interface

In PxWeb 2022 v1 the file formats CSV2 and CSV3 was made available in the PxWebApi. In PxWeb 2023 v1 these file formats are also available from the PxWeb user interface.

### More metadata in JSON-stat2

A number of metadata has been added to the JSON-stat2 file format:

- Notes (on table-, variable- and valuelevel)
- Discontinued
- Contact
- Official-statistics
- Aggregallowed
- Language
- Matrix
- Subject-code

ContentsCode is always in the file, also when content has been eliminated.

The order of some of the metadata has been rearranged for better readability.

### JSON-stat updated date error (#387)

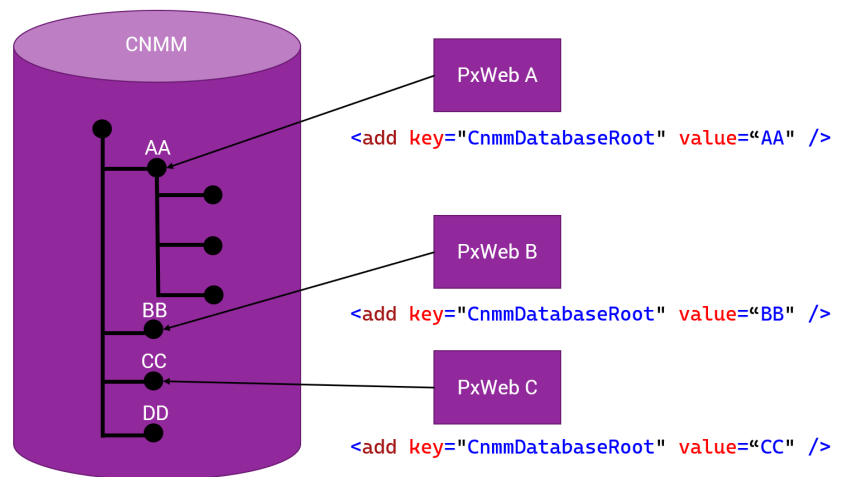
The bug where creation date was returned instead of the updated date in the JSON-stat file formats has been corrected.

## Set CNMM Root node

In PxWeb 2023 v1 it is possible to make multiple PxWeb sites share one CNMM database.

In the file `web.config` a new appsetting `CnmmDatabaseRoot` has been added. The value of this setting will be the absolute root node for that PxWeb web site, it will not be possible to access any node above this in the database node structure.

By setting the `CnmmDatabaseRoot` for a number of PxWeb web sites you can make them share the same CNMM database without being able to access the data of any of the other PxWeb sites. This is illustrated in the picture below:





## Data retrieval URL for PxWebApi 2.0

A new API for PxWeb is currently being developed.

It is possible to configure PxWeb 2023 v1 to show an URL helper for PxWebApi 2.0.

In the Administration tool under Features -> API, two new settings have been added:

Enable API-V2 query link	Yes ▼	?
URL root API-V2	<a href="https://pxapi2-master-px.scb.se/api/v2/">https://pxapi2-master-px.scb.se/api/v2/</a>	

If you set "Enable API-V2 query link" to Yes, the PxWebApi 2.0 URL helper will be displayed under the table on the presentation page of PxWeb:

**Api-V2:**  
Send a GET request to the URL below to access this table.  
**URL:**  
[https://pxapi2-master-px.scb.se/api/v2/tables/BE0101D1/data?lang=en&valueCodes\[region\]=00,01,01](https://pxapi2-master-px.scb.se/api/v2/tables/BE0101D1/data?lang=en&valueCodes[region]=00,01,01)  
Copy

Note that you also need to set up a parallel web site for PxWebApi 2.0.

The second setting "URL root API-V2" defines where your PxWebApi 2.0 web site is located.

**NOTE:** PxWebApi 2.0 is still being developed and should be considered to have beta status. Changes to how the API works may come.

If you want to try out PxWebApi 2.0 you can to this at the demo sites at Statistics Sweden:

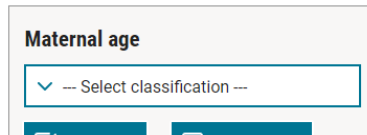
<https://pxapi2-master-px.scb.se/swagger/index.html>

<https://pxapi2-master-cnmm.scb.se/swagger/index.html>

## Other fixes and improvements

### Restore variable values. Also when "Valueset must be selected first" (#344)

After selecting aggregation or valueset on the page where you select variable and values it is now to restore the variable values by selecting "--- Select classification ---" option in the dropdown list.

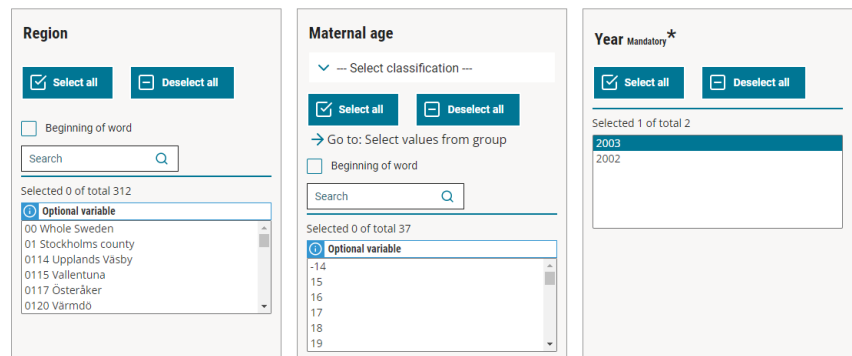


This functionality was introduced in PxWeb 2022 v1, however it did not work if you have made the selection configuration "Valueset must be selected first" in the administration tool.

In PxWeb 2023 v1 this functionality also works when the admin setting "Valueset must be selected first" is set to True.

### Compact view by default error #339

On the selection page where you select variables and values, the compact view where the variable selection boxas are displayed side by side, is now the default view. There was a bug in this behaviour that now has been fixed.



### Split time error (#201)

The bug where the Split time operation caused PxWeb to crash has been fixed.

### Grouping path (#455)

It is now possible to configure the grouping filepath with or without a leading slash or backslash.

## **Known issues**

There are some known issues regarding PxWeb. You can read about these issues on github:

<https://github.com/statisticssweden/PxWeb/issues>

This is also the place where you report PxWeb bugs and problems.