

Release notes for PX-Web 2017 v1

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What is new in PX-Web 2017 v1?

The main focus of the PX-Web 2017 v1 version is stability, performance and bug fixes rather than to introduce new functionality.

This is what's new in PX-Web 2017 v1:

- Caching of saved queries
- Common cache functionality for API calls and saved queries
- Improved stability
- PX-file saved queries saved with .pxsq file extension
- Possible to select more than 2100 values for a variable when using a CNMM database
- Extended user handling
- Short URL for API calls containing only TABLE identifier
- "Maximum cells returned" setting for API calls
- New PX-Web logotype
- Ping functionality

Caching of saved queries

For performance reasons saved queries are now being cached in PX-Web. This means that when a saved query is being requested by a user it is also stored in the saved query cache. The next time the saved query is being requested it is taken from the cached instead of being loaded from the database. This is a much faster way getting the data which leads to better performance in PX-Web.

In the administration tool it is possible to switch caching of saved queries on and off. It also possible to configure for how long a saved query result will live in the saved query cache before it is removed.

The screenshot shows the 'PX-WEB ADMINISTRATION' interface. The top navigation bar includes 'Log out' and a language dropdown set to 'English'. Below this is a menu bar with 'HOME', 'SETTINGS', 'TOOLS', 'FEATURES', and 'USERS'. A secondary menu bar shows 'GENERAL', 'CHARTS', 'API', 'SAVED QUERY' (which is highlighted), 'SEARCH', and 'BACKGROUND WORKER PROCESS'. On the right of this bar is a 'Save' button. The main content area has a left sidebar with 'GENERAL' selected. The 'Saved Query settings' section contains three items: 'Storage type' with a dropdown menu showing 'File', 'Enable cache' with a dropdown menu showing 'Yes', and 'Cache time' with a text input field containing the number '3'. Each of these three items has a small blue help icon to its right.

Common cache functionality for API calls and saved queries

The caching functionality of the API has been rewritten to work in the same way as the saved query cache. This means that all PX-Web caches are handled in the same way. In earlier versions of PX-Web there was a setting for when the API cache should be automatically cleared at specified times every day. This setting has been moved and is now located under the Features → General settings:

The screenshot shows the 'PX-WEB ADMINISTRATION' interface. The top navigation bar includes 'Log out' and a language dropdown set to 'English'. Below this is a menu bar with 'HOME', 'SETTINGS', 'TOOLS', 'FEATURES' (which is highlighted), and 'USERS'. A secondary menu bar shows 'GENERAL', 'CHARTS', 'API', 'SAVED QUERY', 'SEARCH', and 'BACKGROUND WORKER PROCESS'. On the right of this bar is a 'Save' button. The main content area has a left sidebar with 'GENERAL' selected. The 'Feature' section, which has a blue help icon, contains a list of features with checkboxes: 'Charts', 'API', 'Saved Query', 'User friendly URL:s', 'User statistics', 'Search', and 'Background worker process'. All these checkboxes are checked. Below this is the 'Cache' section, which contains a 'Clear cache' label and a text input field containing '10:57'. A small blue help icon is to the right of the input field.

This new “Clear cache” setting will clear all the caches in PX-Web (API + Saved query).

Improved stability

At startup a lot of resources are loaded in PX-Web, configuration- and language files together with different setting. Under heavy load of the PX-Web application there has been problems with resources being locked during startup or restart leading to PX-Web not working as expected. This kind of problems should be resolved in the PX-Web 2017 v1 version.

PX-file saved queries saved with .pxsq file extension

In the start of 2017 PX-Win was released. PX-Win also has support for saving queries. When you save a query in PX-Win it is saved as a file with the .pxsq file extension. PX-Win and PX-Web share a lot of underlying components and one of these components handles saved queries. As a result of this saved queries in PX-Web will now also be saved with the .pxsq file format if you have configured PX-Web to store saved queries as files on the web server.

Possible to select more than 2100 values for a variable when using a CNMM database

In earlier versions of PX-Web it was not possible to select more than 2100 values for a variable if you had a CNMM database. In PX-Web 2017 v1 you can select as many (in theory...) values as you like for a variable.

Extended user handling

In PX-Web 2017 v1 both the default user handling (used for logging into the administration tool) and the extended user handling has been rewritten. In technical terms, asp.net Membership is now always used.

The extended user handling (where you can create any number of users) has been extended with license. When a user is added the user account will be valid for one year. When the license expires the user will no longer be able to log into PX-Web or the administration tool. The license can be renewed so the user get access to PX-Web again.

PX-WEB ADMINISTRATION
Log out English ▼

[HOME](#) [SETTINGS](#) [TOOLS](#) [FEATURES](#) [USERS](#)

GENERAL

GENERAL

Username	Password	E-mail	Admin	Locked	Expires	License		
admin	****	name@company.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Never	0	Edit	Delete
Jan	****	j@b.se	<input type="checkbox"/>	<input type="checkbox"/>	2017-03-15	123	Edit	Delete
maria	****	scbmasv@scb.se	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2018-03-22	20180101	Edit	Delete
mariaadmin	****	mm@dd.se	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Never	111	Edit	Delete
micke	****	m@m.se	<input type="checkbox"/>	<input type="checkbox"/>	2018-03-15	0	Edit	Delete

Create new user

Username

Password

E-mail

License

☐ Admin

Short URL for API calls containing only TABLE identifier

In PX-Web 2017 v1 it is possible to make API calls where you only specify the table (together with language and database), you can omit the path to the table. An API call could look like this:

<http://www.mypxweb.com/api/v1/en/db/table>

When addressing a PX-file database, table can be either the px-file name or the MATRIX of the table.

When addressing a CNMM database, table is supposed to be the table id.

This syntax works for both retrieving table metadata and table data (GET and POST).

This functionality makes use of the search functionality in PX-Web and requires that you have created a search index for the database.

“Maximum cells returned” setting for API calls

A new API-setting has been added in the administration tool, “*Max cells returned*”.

This setting defines the maximum number of cells of data that can be retrieved through an API call (HTTP POST). This setting is not to be confused with the setting “*Max values returned*” which defines the maximum number of values per variable that can be retrieved when requesting metadata for a table (HTTP GET).

PX-WEB ADMINISTRATION
Log out English

HOME SETTINGS TOOLS FEATURES USERS
GENERAL CHARTS API SAVED QUERY SEARCH BACKGROUND WORKER PROCESS
Save

GENERAL
API settings

PX databases
fi sv en
A_Folkhalsodata ☐ ☒ ☒
Demo ☐ ☒ ☒
CNMM databases
fi sv en
ssd ☐ ☒ ☒
Route prefix
api/v1/
Max values returned
1000
Max cells returned
100000
Limiter requests
10
Limiter timespan
10
Enable CORS
Yes
Enable cache
Yes
Show API help
Yes

Save

New PX-Web logotype

The PX-Web logotype has been changed. The new logotype has the same look and feel as the PX-Win logotype.

Ping functionality

A ping page has been added to PX-Web that can be used for monitoring purposes. The page can be called to verify that the web site is responding. You reach the ping page by adding /ping in the URL of your PX-Web site:

<http://www.yourpxweb.com/ping>

The ping page displays the current version of PX-Web in XML-format:

```
<?xml version="1.0"?>
- <ping>
  <version>17.1.0</version>
</ping>
```

Bugs that have been fixed in PX-Web 2017 v1

- Fixed problems with files and resources being locked at application startup/restart
- Now possible to select any number of values for a variable when using a CNMM database
- Fixed problem showing the population pyramid
- Fixed problem with population pyramid legend
- Fixed problem with pie chart legend
- Fix problem with downloading file multiple time using HTTPS
- Fix problem in PX-Web when hitting Enter-button in search value field
- Fixed problem with setting API settings from Administration tool
- *Moved all API related settings in PX-Web from web.config to setting.config*
- *Fixed problem with JsonSerializer changing output file name*
- *Fixed bug regarding the keyword VARIABLE-TYPE when saving table as PX-file*
- *Verifies that chart width and height do not exceed max values*
- Ignore duplicate codes in valuesets
- *Keyword DOMAIN being case sensitive*