IT-department

Instructions for installing and configuring PxWin

This document describes how you install and configure PxWin.

Installation

Unzip PX-Win.zip to folder on your computer or on an application

server. After installing PxWin you can configure the software for

your particular needs.

Configuration

There are a number of settings that can be configured for PxWin.

Settings can be made in the following files:

PCAxis.Desktop.exe.config

Settings for PxWin is edited in the PCAxis.Desktop.exe.config file

which is located in the folder where PxWin is installed.

The file contains the following settings:

Language- and aggregation files

The location of language- and aggregation files are edited in the

following section:

```
<pcaxis>
    <paxiom>
        <localization filespath=".\Resources\Languages" basefile="pxlang"/>
        <grouping filespath=".\Resources\Aggregations"/>
    </paxiom>
</pcaxis>
```

- "localization filespath" is the folder where you have placed

  the PxWin language files (for example pxlang.xml)

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- "grouping filespath" is the folder where you have placed your aggregation files (.vs and .agg)

Application settings

The application settings are located in the appSettings section of the file:

```
<appSettings>
…
</appSettings>
```

The following application settings are available:

dbconfigFile - Configuration file for CNMM databases

If you want to open tables from CNMM databases in PxWin you need to specify the path to the CNMM database configuration file (SqlDb.config) in the dbconfigFile setting. For example:

```
<add key="dbconfigFile" value="\\program\PX-Win\Resources\DbConfig\SqlDb.Config"/>
```

----

databasesConfigFile – Configuration file for predefined databases

If you want to use predefined databases in PxWin you need to specify the path to the configuration file for these databases in the databasesConfigFile setting. For example:

```
<add key="databasesConfigFile" value="\\program\PX-Win\Resources\DbConfig\databases.config"/>
```

For more information about predefined databases see section *databases.config* below.

----

defaultLanguage – The default language in PXWin

This setting specifies which language that will be selected by default when PxWin is started. If for example Swedish shall be the default language:

```
<add key="defaultLanguage" value="sv"/>
```

----

batchApplicationPath – Path to the PX-Batch program

If you want to create .BAT files for use with the PX-Batch program

you need to specify the path to the PX-Batch program in the

batchApplicationPath setting. For example:

```
<add key="batchApplicationPath" value="\\program\PCAxis\PCAxis.Batch.exe"/>
```

----

maxCells – Maximum number of cells

It is possible to limit the number of cells that can be selected for a

table in the maxCells setting. For example:

```
<add key="maxCells" value="10000000"/>
```

MaxCellsInMemory – Maximum number of cells to be held in memory

By default PxWin stores the table data in memory. If you make a very large selection for a table this can lead to that a lot of memory will be allocated on the computer to hold that table, which can be a problem.

It is possible to limit the number of cells that will be held for a table in memory in the *MaxCellsInMemory* setting. For example:

```
<add key="MaxCellsInMemory" value="2000000"/>
```

In the example the data table will be held in memory on the computer if the data table contains no more than 2000000 cells. If the table selection is larger than 2000000 cells the table data will be stored in a temporary file on computer instead.

If the *MaxCellsInMemory* setting is not defined, table data will always be stored in memory.

Note: Performance will be much lower when table data is stored in a temporary file compared to when it is stored in memory.

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databaseMenuCacheEnabled – If database menus shall be cached or not

Instead of loading the database menu every time the database is accessed in PxWin it is possible to cache the database menus.

If database menu cache is switched on the data If database menu cache is switched on the database menus will be saved to cache files on the client machine under the user´s profile.

To switch on database menu cache the *databaseMenuCacheEnabled* shall be set to True:

```
<add key="databaseMenuCacheEnabled" value="True"/>
```

To switch the cache off, set the value to False.

----

databaseMenuCacheRefreshInterval – Interval for automatic refresh of database menu cache files (in hours)

If database menu cache is switched on, this setting defines the interval for when a cache files shall be automatically refreshed. The interval is defined in number of hours from when the cache file was first created. For example:

<add key="databaseMenuCacheRefreshInterval" value="48"/>

----

globalFilter – Folder for shared filter files

In PxWin you can create filter files which makes it easier to select values for your variables. These filter files are private in that sense that they are stored locally on the computer under the user profile. With the globalFilter setting you may also define a folder for shared filters that may be used by anyone. For example:

```
<add key="globalFilter" value="\\program\PX-
Win\Resources\sharedFilters"/>
```
----
strictAggregationCheck – If strict check shall be made for aggregations

This setting is the same setting that exists in PX-Web.

According to the documentation of aggregation files (.agg) these files are supposed to contain information about which valueset they belong to.

In detail this means that the [Aggreg] section of the aggregation file shall contain the following line:

Valueset = The name of the valueset it belongs to.

When aggregations are loaded in PxWin this condition is checked. If no valueset is specified in the aggregation file the aggregations within the file are not added to the system.

In older versions of PX-Web this condition was not checked and many users of PX-Web have created aggregation files that do not specify which valueset they belong to. For backward compatibility this setting has been introduced.

If this setting is set to Yes: The valueset check will be performed

If this setting is set to No: The valueset check will not be performed

<add key="strictAggregationCheck" value="True"/>

Databases.config

It is possible to configure a number of predefined databases which will be displayed in the "Open table" dialog.

If you want to use predefined databases in PxWin do like this:

1. Using a text editor (like Notepad) create a file called *databases.config* and save it on your computer or on a server
2. In the PCAxis.Destop.exe.config file: Specify the path to databases.config in the *databasesConfigFile* setting
3. Edit the databases.config file with information about your databases (see instructions for this below)

This is an example of how the databases.config file might look like:

```xml
<?xml version="1.0" encoding="utf-8" ?>
<databases>
  <database id="mypxdb" type="PX" name="My PX database">
    <params>
      <path>\\scb\program\\PX-Win\Resources\Databases\A_Folkhalsodata</path>
    </params>
  </database>
  <database id="ssd" type="CNMM" name="SSD"></database>
  <database id="ssdprod" type="CNMM" name="SSD PROD">
    <params>
      <authorizationMethod> PX.Ssd.Security.SsdProductionWindowsAuthorization, PX.Ssd</authorizationMethod>
    </params>
  </database>
  <database id="fi_api" type="PXAPI" name="Finland API">
    <params>
      <baseUrl>http://pxnet2.stat.fi/PXWeb/api/v1/{0}/StatFin</baseUrl>
      <SupportedLanguages>fi,sv,en</SupportedLanguages>
    </params>
  </database>
</databases>
```

Note the xml-header in the file:

`<?xml version="1.0" encoding="utf-8" ?>`

If you have special characters in the names of your databases you may need to change the specified encoding in the header. If you for example have a database name containing the "å" character the xml header shall look like this:

`<?xml version="1.0" encoding="ISO-8859-1" ?>`

General

All databases must have:

- Unique id
- Type (PX, CNMM or PXAPI)
- Name

Predefined PX-file database

The *path* parameter holds the path to the database. The folder defined by the *path* parameter is supposed to contain the file *Menu.xml* that is created in the Administration tool of PX-Web.

Predefined CNMM database

The id of the database is supposed to be the same id that is defined for the database in the *SqlDb.config* file.

Database with access control

The *authorizationMethod* parameter defines the dll (PX.Ssd.dll in the example) and the class (PX.Ssd.Security.SsdProductionAuthorization in the example) within the dll that performs the access control. The class that performs the access control shall implement the *PX.Security.IAuthorization* interface.

Predefined PxApi database

PxApi databases need to have two parameters specified:
baseUrl
This is the root URL to the PX-API database. The baseUrl parameter must contain a placeholder {0} for where the language-part of the URL is located. For example:

<baseUrl>http://pxnet2.stat.fi/PXWeb/api/v1/{0}/StatFin</baseUrl>

supportedLanguages This is a comma-separated list of languages that are supported by the PX-API database. For example if Finish, Swedish and English is supported:

<SupportedLanguages>fi,sv,en</SupportedLanguages>

PCAxis.Batch.exe.config

This file contains configurations for the Batch program. The settings are very similar to the settings for PxWin. See the PCAxis.Desktop.exe.config section above for description of these settings.

Special considerations

The PCAxis.Batch.exe program has dependencies to PxWin and needs to be installed in the same folder as PCAxis.Desktop.exe.

Plugins

PxWin can be extended by the use of plugins. To use a plugin, copy the plugin dll:s to the plugins folder of PxWin. After the dll:s have been added the plugin functionality can be used from inside PX-Win.

Aggregation tool

This is a plugin for PxWin which you can use to create and edit aggregation files (.vs and .agg).

The Aggregation tool consists of two files:

- PXWin.AggregationTool.dll

- INIFileParser.dll

If you would like to use the aggregation tool in PxWin copy the dll:s of the aggregation tool to the *plugins* folder of PxWin:
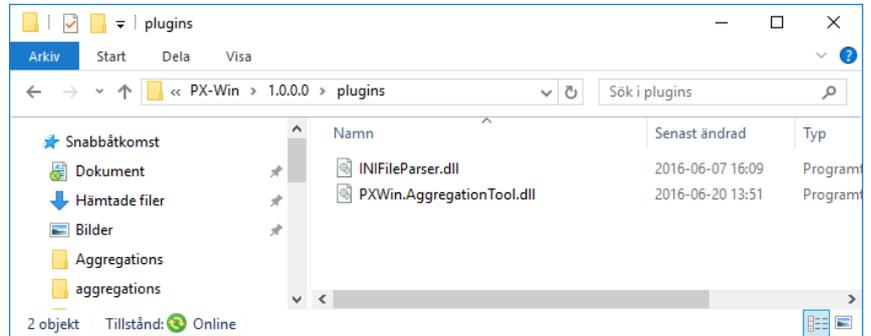
Notice!

Some users have experienced problems with the Aggregation tool don´t appearing in the Tools menu of PxWin after they have downloaded the Aggregation tool zip-file from the PxWin web page. If you get this problem verify that the zip-file is not blocked before you unzip it. You unblock the file by right-clicking the zip-file, select Properties and then click Unblock:
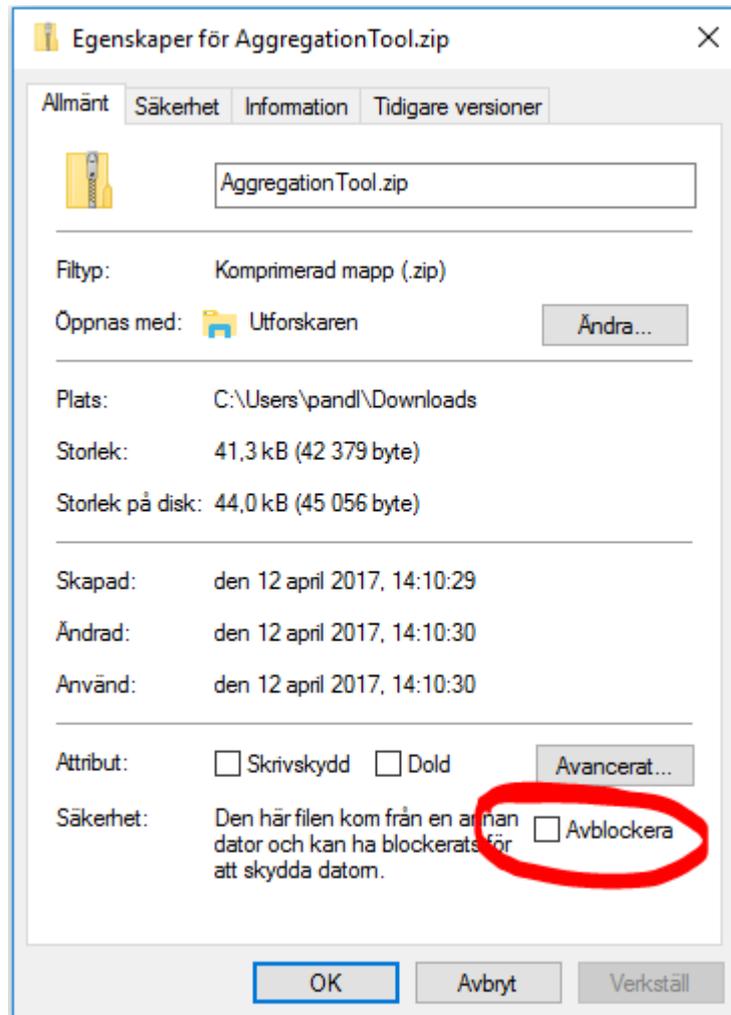
If the Aggregation tool still don´t appear in the Tools menu of PxWin and you run your PX-Win program from a network share it might be a .Net security issue. If the network share is not fully trusted it will fail to load the Aggregation tool.

Api Client

With the the Api Client it possible to connect to any server running the PxApi. You can browse the databases, select variables and values, display data on screen and work with the data inside PxWin in the exact same way as you work with your local databases. The only difference is that everything is made though calls to the PxApi.

The Api Client consists of two files:

- PX.Api.Client.dll
- Newtonsoft.Json.dll

To make use of the API functionality, download these two files and copy them to the plugins folder of PxWin.