

# Smart Submission Dataset Viewer

## Installation Instructions

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As the "Smart Submission Dataset Viewer" software comes as a Java application, it is very easy to install on any modern computer, be it either a Windows, Linux or McIntosh computer.

### Requirements:

You will need a modern personal computer (so not a server) on which Java (at least version 8) is installed. This is the case on most modern computers. If Java is not installed, you can download it from <http://www.oracle.com/technetwork/java/javase/downloads/jre9-downloads-3848532.html> (and follow the instructions there). Further, screen resolution of at least 1200x800 pixel is recommended. As very large files can consume a considerable amount of memory (although we optimized memory usage considerably), RAM of at least 4GB is recommended. If you encounter problems with memory, you can always decide to load less files at the same time, or to apply filtering (e.g. on "—CAT") when starting loading files.

### Installing the "Smart Dataset-XML" software – Step 1

Just copy the zip-file that you downloaded from <https://sourceforge.net/projects/smart-submission-dataset-viewer/files/> to a directory of your choice. Unzip the file into a directory of your choice. It is recommended that the directory path does not contain any blanks.

You should now see something like (here for Windows):

| Name                                | Änderungsdatum   | Typ  |
|-------------------------------------|------------------|------|
| cache                               | 20.05.2014 19:12 | Date |
| icons                               | 30.11.2018 19:58 | Date |
| logs                                | 15.12.2018 10:59 | Date |
| Smart_Submission_Dataset_Viewer_lib | 15.12.2018 10:26 | Date |
| temp                                | 20.05.2014 19:12 | Date |
| TestFiles                           | 30.11.2018 19:58 | Date |
| TestFiles_special                   | 30.11.2018 19:58 | Date |
| Validation_Rules_XQuery             | 30.11.2018 19:59 | Date |
| check-java.bat                      | 22.03.2015 10:12 | Win  |
| License.txt                         | 15.12.2018 10:11 | Text |
| properties.dat                      | 25.01.2015 09:36 | DAT  |
| README.txt                          | 15.12.2018 10:42 | Text |
| Smart_Submission_Dataset_Viewer.bat | 15.12.2018 10:28 | Win  |
| Smart_Submission_Dataset_Viewer.jar | 15.12.2018 10:26 | Exec |

## Installation: Step 2

### Windows:

In the distribution, you will find a file "Smart\_Submission\_Dataset\_Viewer.**bat**". If you open it using a simple text editor (Notepad or Notepad++ recommended), you will find:

```
1 rem set JAVA_HOME=c:\jdk1.8.0
2 rem set path=.;%JAVA_HOME%\bin;.
3
4 java -Xms256M -Xmx1200M -cp .\Smart_Submission_Dataset_Viewer.jar com.xml4pharma.smartsubmissiondatasetviewer.gui.GUI
5
6
7
```

In this file, the first two lines have been commented out: both start with "rem" ("remark"). In most cases, when Java has been installed correctly, you can leave this "as is" (also see further).

The external libraries used can all be found in the directory "Smart\_Submission\_Dataset\_Viewer\_lib"

If you want to build the software yourself from the source code, please contact us, so that we can tell you where exactly you can find all these libraries (they all come from "open source" projects). In the near future, we will also provide a Maven "pom.xml" to retrieve all libraries automatically.

The last line is an important one, as contains the "starting instruction". The "-Xms256M" and "-Xmx1200M" parameters mean that the software should start with a minimum of 256MB memory usage ("heap size"), and is allowed to "claim" up to 1200MB.

Depending on your operating system and available RAM, you may want to change the "-Xmx1200M" parameter. For example, if you have 8GB RAM available, and your operating system allows this, you may want to set the maximum allowed amount of memory to be claimed to about 4GB, by using "-Xmx4000M". It is however advised to not claim more than 50-60% of the physically available amount of RAM (your OS also needs some...).

### Linux:

TODO

## Starting the software – Step 3

On Windows, starting the software is done by double-clicking the file "Smart\_Dataset-XML\_Viewer.**bat**"

On Linux/Mac, use the similar "Smart\_Dataset-XML\_Viewer.**sh**" ("Shell" file).

## Troubleshooting

In case the software does not start, first double-click "check-java.bat". This will tell you whether you have the correct version of Java installed.

Another reason is often that you tried to "claim" too much memory. The best is to then set "-Xmx" to a low value e.g. "-Xmx512M", start the software, and then increase the value for the parameter until just below the point where it fails to start.

In such cases, it is always a good idea to start the software from within the console, on Windows e.g. using Windows Powershell, like:

```
Windows PowerShell (x86)
Windows PowerShell
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PS C:\Users\Jozef> cd ../../
PS C:\> cd .\Smart_Submission_Dataset_Viewer\
PS C:\Smart_Submission_Dataset_Viewer> .\Smart_Submission_Dataset_Viewer.bat
```

In case of "startup failure" diagnostic messages will then appear in the console window.

In case the operating system has trouble finding the Java distribution, you will see a message "Java cannot be found", or similar in your own language (should nowadays not happen anymore), then uncomment the first two lines in the ".bat" file like:

```
set JAVA_HOME=c:\jdk1.8.0
set path=.;%JAVA_HOME%\bin;.

java -Xms256M -Xmx1200M -cp .\Smart_Submission_Dataset_Viewer.jar com.xml4pharma.sn
```

With the first line pointing to the directory where you have the Java distribution. This can be a "JDK" (Java Development Kit) or a "JRE" (Java Runtime Environment). If the path to the distribution contains blanks, then put the path in double quotes.

Still problems installing or starting the software? Please send a mail to:

[Jozef.Aerts@XML4Pharma.com](mailto:Jozef.Aerts@XML4Pharma.com)

## Limitations

We sometimes get questions about running the software in a Citrix environment. We haven't tested this and cannot guarantee correct functioning. If you did try, please let us know your experiences.