

SFEE Tracker Workflow Extractor Tool

For what this tool is for?

Thank you very much for using the SourceForge Enterprise Edition (SFEE) Tracker Workflow Configuration Extractor Tool.

The SFEE Tracker Workflow Configuration Extractor Tool extracts the current workflow configuration of your SFEE trackers. The workflow configuration of a tracker defines its statuses, its allowed transitions between the statuses with their constraints (e. g. required fields and roles for a transition to happen) and its auto-assignment configuration. You can find the current workflow configuration of your trackers within the project admin tab in subsection “tracker settings”.

The extracted tracker workflow configuration will be stored within an XML file. If you send the information within this XML file (please zip it before) to CollabNet (panama@collab.net), it will be used to find out how and how often the various features currently available within SFEE’s tracker workflow engine are actually used (usage mining).

This evaluation of this data will lead to two improvements:

1. CollabNet will have a better understanding which features are actually used and can concentrate on improving the features that are mostly needed and try to find out what is wrong with the unused features.
2. CollabNet will have a better understanding which features to extend and improve and helps you to get an even better product in the next releases.

Preconditions to run the tool

In order to run this tool you need to have a Java Runtime Environment with at least version 5.0 installed on your computer (please visit <http://java.sun.com> if you still need this software).

Furthermore, your SFEE site(s) should be at least version 4.4 in order to work with the extractor tool.

Last but not least you need the credentials (username and password) of a user that has the typical roles within the project you like to query. If you are using a super user and this super user does not have any constraints on changing artifacts, the typical user have, the tool will work but not deliver the best results (e. g. the use of tracker workflow constraints will not be recorded properly).

You can chose to use different credentials for every single tracker, project or use one credential for the entire site.

Configuration of the tool

Once you have fulfilled the preconditions on running the tool, you may edit the file workflowextractorconfig.dat. Within this file you will find already pre-configured examples you

just have to activate and adapt to your specific site (URL, user name, password, project id, tracker id). In order to query the entire site, one single project or one single tracker, you just have to remove one leading '#' character within workflowextractorconfig.dat to activate the wished scenario.

You may start by trying out the extractor tool with just querying one single tracker. The id of one tracker is always displayed in front of its title (e. g. "tracker1001 : Defects Summary", the tracker id here is "tracker1001").

You do not need to specify the project id of a tracker as long you know the tracker id. If you look at the output of the extractor tool, the corresponding project id will be displayed as well so that you now can try to extract the workflow configuration of all trackers within this project and later on of the whole site or even multiple sites.

In order to get the best results, you should rather activate/add multiple entries within the configuration file using different credentials that fit the roles of the "ordinary user" of a project instead of using just one entry (whole SFEE site) with a super user that is not restricted at all (so CollabNet cannot evaluate the use of the transition restriction features for ordinary project members).

Running the tool

If you are working under Linux or a Unix, please switch into the directory, this README file is located in and run the following command on a shell:

```
sh startworkflowextractorunixlinux.sh
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If you are working under a Windows operating system, please open a command line, switch into the directory, this README file is located and type the following command:

```
startworkflowextractorwindows.bat
```

Depending on the number of trackers that should be queried (see workflowextractorconfig.dat), the tool may need a lot of time to deliver its results but you are frequently notified what the tool is currently doing. Once the tool has finished its work the result can be examined within the file workflowoutput.xml. This file is overridden every time you start the tool again, so if you like to run it for different configurations, make sure that you make a copy before.

If the tool does not start but gives an error about a missing java class or that it cannot find java at all, please make sure that java (at least version 5.0) is in your current path or that you adjust the start scripts to point directly to your java environment.

If you encounter any exceptions this usually indicates that the settings within workflowextractorconfig.dat are not correct (invalid URL, invalid credentials, invalid projects or tracker ids). If you get exceptions talking about insufficient permissions for some trackers, the data for the trackers, the supplied credentials were sufficient, will still be stored within the file workflowoutput.xml.

If you encounter problems you cannot solve, please just send the error messages of the tool to CollabNet.

Sending the results

Once you have finished running the tool for all trackers that are representative for the work in your company (so try to use "real" user credentials whenever possible), you may send the (zipped) output file(s) to CollabNet (panama@collab.net). Doing so, there is a high chance that your results will help to improve the tracker workflow functionalities in future releases.

License Statement

As you have probably noticed, the Java source code of the extraction tool is included within the src directory. You will also find all files necessary to import this package as an eclipse project. Feel free to use and adopt the code for your own purposes.

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For detailed information about the license of this tool, see the LICENSE file.

Please also respect the licenses of the libraries used in order to use this tool (particularly openadaptor and the libraries it depends on, see the lib directory for details).

Time Effort, Security and Privacy

To use the SFEE Tracker Workflow Configuration Extractor Tool, you just have to adjust one single line within a configuration file to let the tool know about your SFEE site and the credentials it should use. After this, you just have to start the tool and it will automatically generate the XML output file you can then send to CollabNet so it does not need any further user input.

The tool will not need any administrative privileges on your site (the user used to login has to have the permission to read the tracker configuration of the trackers you want to be queried) and it will not trigger any operation that changes any data (it just performs read operations).

The tool will not automatically send its findings to CollabNet so that you can examine the result (the XML file) before you decide to send it via e-mail or not. The data will not contain any tracker item's data or passwords but only the configuration of the tracker itself.

The complete source code of the tool is available in the src folder, so you may check all the claims made in this section before running it.

The data extracted by this tool will only be used to improve CollabNet's products and will not be given to any third party. If you are still concerned about the sensitivity of the data (e. g. names of the tracker states and trackers), you may also use the builtin "anonymous" switch (see workflowextractorconfig.xml) of the program that will disguise the configuration details. Using the "anonymous" switch will still allow statistical evaluation of the data but most qualitative measurements (e. g. based on the actual names of the states) will not be possible any more. You may also choose to query the workflow configuration of just some trackers/projects but the whole SFEE site so that you can exactly specify which data should be delivered to CollabNet.

Last but not least, feel free to manually change/delete entries within the workflowoutput.xml file before you send it as a zip file to CollabNet (panama@collab.net).

Enjoy working with the SFEE Tracker Workflow Extractor Tool!