

JTimeTracker

Release 0.3.10 Manual

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JTimeTracker: Release 0.3.10 Manual

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Chapter 1. Introduction

A little inaccuracy sometimes saves tons of explanation.
-- Saki (Hector Hugh Munro, 1870 - 1916)

This chapter provides you with a general understanding of the concepts that JTimeTracker is based on.

1.1. Overview

JTimeTracker (<http://sourceforge.net/projects/jtimetracker>) is an application that

- tracks the time you spent on various projects and tasks (or whatever work item hierarchy you prefer instead, “project” and “task” are just examples);
- helps you evaluate the tracked efforts (by summarizing, filtering, exporting to Microsoft Excel™, etc.)

Opposed to other tools, JTimeTracker does not work like a “stopwatch” to measure the time spent on various activities. Instead, JTimeTracker pops up in regular intervals and asks you what you are currently doing and for how long you did it (default: since it last asked you). In my opinion, this approach requires less overhead and is less error-prone than starting and stopping a stopwatch for every task switch during the day.

Some of the features of JTimeTracker

- Tracks an arbitrary/editable set of properties per logbook entry.
- Can export the whole logbook to a Microsoft Excel™ file.
- Can summarize logbook entries per day, month, year or template (e.g., project) and export the results to Microsoft Excel™
- Can create bar charts from summaries, print the charts and export them to a *.png file

Hosting

JTimeTracker is hosted by Sourceforge [<http://sourceforge.net>]. Thank you!

1.1.1. How It Works

JTimeTracker maintains a logbook in which each entry represents something you have done for a few minutes.

Basic concepts

Logbook entry A combination of a timepoint and several attributes of various types and values, saved every time you decide to create such an entry.

Example 1.1. Sample Logbook Entry Content

A simple logbook entry contains information like “Worked on MyProjectNumber2 for 15 minutes at July 15th, 2002, around 10:00 a.m.”. Usually, a logbook entry contains more detail settings than just project, date and duration.

Template The description of a single kind of logbook entries. The template describes which data a logbook entry can contain. JTimeTracker enforces the use of templates, it is impossible to create logbook entries that do not conform to a template. You can create as many templates as you wish.

Example 1.2. Sample Template Content

Project names are good candidates for logbook entry template names. Usually, projects are subdivided into tasks or milestones, so tasks or milestones make good settings inside a log entry for a project. Another setting inside a project template might be e.g. a workflow, having possible values like “meeting”, “planning”, “test”, etc.

Periodically, JTimeTracker asks you to specify data for a logbook entry that tracks your activities since you were last asked. You probably don't want to type in too much additional information per entry, especially if the same information is repeated for several entries in a row, during the day. This is why entries are created from templates, so that you only need to modify the data that should not be set to default values.

JTimeTracker remembers the last values you specified, for your convenience. You can also reuse any old logbook entry values to fill in a template (see Copying Entry Values [12]).

1.2. Installation and Deinstallation

1.2.1. Prerequisites

To be able to install JTimeTracker on your computer, you must have installed one of the following:

- *either* Java 2 Runtime Environment, SE, Version 1.4.0 (or higher)
- *or* Java 2 Platform, Standard Edition Software Development Kit (JDK), Version 1.4.0 or higher.

You can download one of these from <http://java.sun.com/j2se/1.4/download.html> [<http://java.sun.com/j2se/1.4/download.html>].

1.2.2. Installation

After downloading of the JTimeTracker installer, take the following steps.

Read Deinstallation Notes

Before installing a newer release of JTimeTracker over an older one, make sure you've read the deinstallation instructions (see Section 1.2.3, “Deinstallation” [3]) - otherwise, you might lose old data.

Procedure 1.1. Using the * .exe installer for Microsoft Windows™ systems

1. Execute the installer by double-clicking on it and follow the instructions.
2. Depending on the options you choose, the installer creates shortcuts to start the application.

Procedure 1.2. Using the generic *.tar.gz or *.zip archives

1. Uncompress the archive into a directory of your choice. We'll call this *installdir*.
2. Make sure the **javaw** is available on the `PATH` of your system: You should be able to execute **javaw** on the command line without receiving an error message.
3. Depending on your operating system, you should now be able to execute *installdir/run.bat* or *installdir/run.sh*. In the case of *run.sh*, you might have to modify this file to suit your computer.

1.2.3. Deinstallation

During Deinstallation, you will probably want to preserve your old logfiles and configuration files that were created in *installdir*.

On Microsoft Windows™ systems, if you have used the *.exe installer, the deinstallation feature does not remove these files. You should move (*not just copy*) the complete directories *installdir/config* and *installdir/logs* directories to a safe place for later reuse. *After this*, delete *installdir* manually.

On non-Microsoft Windows™ systems, you should move (*not just copy*) the complete directories *installdir/config* and *installdir/logs* directories to a safe place for later reuse. *After this*, delete *installdir* manually.

Reusing old configuration and log files

Release 0.3.9 does not support reusing configuration and log files from older releases.

You can no longer copy the old contents of the *installdir/logs* into the same subdirectory of a fresh, new installation. Release 0.3.9 will not recognize old-style contents of the `\logs\timerlog.xml` file, it will not be able to produce statistics or export log entries at all.

With respect to *installdir/config/configuration.xml* things are a bit different. You should compare the new structure to your configuration file from an older release. The biggest change in release 0.3.9 is that the values of settings are not stored any longer as value attributes but inside value tags.

In any case, you must replace the old contents inside the `basic` and `ui` tags by the contents of the same tag in the new configuration file. You will loose some of your preference settings, but since there are not so many of them, you can start JTimeTracker and edit the values on the Options panel (see Section 2.2.5, "Options Panel" [15]).

Finally, you can copy the templates you created in the past, from the old configuration file into the new one. Pay attention whether all data types of the old `items` are still supported.

1.3. Release Notes And Change History

I'd be happy to find feature requests (to submit one, go here: http://sourceforge.net/tracker/?func=add&group_id=57032&atid=482708 [http://sourceforge.net/tracker/?func=add&group_id=57032&atid=482708])

1.3.1. Release 0.3.10

Bugfixing release, no other changes, no features added.

Note

This release is downward compatible with Release 0.3.9 *only*, but not with earlier releases (see Reusing old configuration and log files [3]).

Users of Microsoft Windows™ should uninstall the prior Release 0.3.9 (all settings and data will be preserved). Afterwards, release 0.3.10 can be safely installed into the old installation directory.

Users of other operating systems should backup their existing `config` and `logs` subdirectories that are found in their Release 0.3.9 installation directory. Afterwards, copy the new Release 0.3.10 to an installation directory of your choice and overwrite the `config` and `logs` inside with the backed up versions.

New Features

Pending Feature Requests

- | | |
|--------------------------------------|---|
| [706758] Template Tutorial in Manual | A tutorial (including screenshots) to demonstrate how to use JTimeTracker properly: define and use templates, evaluate results. |
| [764417] Editable Logs | The log should be editable to assist in recording entries. Suggested implementation by the requester: to be able to edit begin time, end time, and duration of entries. |

Changes

Fixed Bugs

- | | |
|---|--|
| [1020476] Enumeration type on template editor panel | Changing the type of items on the template editor panel failed. |
| Errors while copying from logbook to templates | Copying from logbook to template failed under certain circumstances. |

1.3.2. Release 0.3.9

Polishing release. This is the last release before the 0.4 rewrite. I've decided not to include the pending features (see below), since they'll be much easier to implement after a partial rewrite. Release 0.3.9 will be branched and I'll fix all reported bugs; however, new features and a tutorial will only be added to the upcoming release 0.4.

The main change in release 0.4 will be support for templates consisting of templates. This will help users in designing reusable template components rather than having to copy from a generic template where changes to that generic template are not propagated to the copies, as things are handled now.

New Features

- | | |
|--|--|
| [839431] Launch without additional command line window | No more additional command line window that is present in the Microsoft Windows™ task bar after launching the application. |
|--|--|

Pending Feature Requests

[706758] Template Tutorial in Manual	A tutorial (including screenshots) to demonstrate how to use JTimeTracker properly: define and use templates, evaluate results.
[764417] Editable Logs	The log should be editable to assist in recording entries. Suggested implementation by the requester: to be able to edit begin time, end time, and duration of entries.

Changes

(internal) Setting values now enclosed in tags	Values of settings are now stored inside of tags instead of attributes. This breaks the backward compatibility (see Reusing old configuration and log files [3]), you will have more manual work if you upgrade to 0.3.9 from earlier releases.
(internal) Upgrade to dom4j 1.5 beta 1	Upgrade to dom4j 1.5 beta 1 to fix dom4j 1.4 base URI resolution bug (see Section B.1.3, “dom4j, Release 1.4” [18]).
(internal) Changed internal bus	Replaced Observable-based internal bus by WerXBus-RC2. (see Section B.1.1, “WerXBus-RC2” [18]).

Fixed Bugs

[803681] HTML manual menu item does not work	After the switch to JavaHelp, there is no more HTML version of the help. The installer for Microsoft Windows™ was still creating an erroneous link in the JTimeTracker Program group.
--	---

1.3.3. Release 0.3.7

Added a new help system based on JavaHelp.

New Features

New help system	Added a new help system based on JavaHelp™. This gives users a way to browse and search (full-text) the online help.
French Localization	A french localization has been added. The locale to be used can be selected on the Options panel (see Section 2.2.5, “Options Panel” [?]).
[752290] Retain Window Size	The position and the size of the main window are now saved and restored. Values are stored as percentages, so that changing the screen resolution doesn't place the window out of screen borders.

Pending Feature Requests

[706758] Template Tutorial in Manual	A tutorial (including screenshots) to demonstrate how to use JTimeTracker properly: define and use templates, evaluate results.
--------------------------------------	---

Changes

(internal) Switched to JFreeChart, Release 0.9.8, and JCommon, Release 0.8.0	Switched to Release 0.9.8 of JFreeChart, which includes JCommon, Release 0.8.0 (see Section B.1.5, “JFreeChart, Release 0.9.8, including JCommon, Release 0.8.0” [18]).
(internal) Switched to Log4J, Release 1.2.8	Switched to release 1.2.8 of Log4J. (see Section B.1.2, “Log4J, Release 1.2.8” [18]).
(internal) Switched to Saxon, Release 6.5.2	Had to switch to Saxon 6.5.2, since release 7.3.1 does not support chunking of DocBook XML files, which is necessary for creating JavaHelp.

1.3.4. Release 0.3.5

Bugfixes and internal changes and cleanup, not more functionality compared to the predecessor. There have been considerable Look & Feel improvements as well as i18n add-ons.

New Features

New Look & Feel Options	Integrated Metouia (see Section B.1.9, “Metouia Look & Feel, Release 1.0 beta” [19]) and SkinLF (see Section B.1.10, “SkinLF Look & Feel, Release 1.2.3” [19]) Look & Feel options. SkinLF supports themepacks (aka skins), which can be selected in a separate setting.
Localizations	Localizations have been added for Hungarian (hu, still incomplete), Portuguese (pt), Serbian (sr) and Turkish (tr). The locale to be used can be selected on the Options panel (see Section 2.2.5, “Options Panel” [15]).

Pending Feature Requests

[706758] Template Tutorial in Manual	A tutorial (including screenshots) to demonstrate how to use JTimeTracker properly: define and use templates, evaluate results.
--------------------------------------	---

Fixed Bugs

[673125] Identical Template Names Lockup	It is now impossible to rename a template in case another template already exists under the same name. Copies of a template have a timestamp in their name, so that right from the start the name is unique.
--	--

Changes

Future Releases: .gz Archives Replaced by .bz2	Future Releases will contain .bz2 archives instead of .gz archives, because the compression ratio is considerably better, saving me upload time and saving you download time.
--	---

Release 1.2.7	Switched to a release 1.2.7 of Log4J. (see Section B.1.2, “Log4J, Release 1.2.8” [18]).
(internal) Switched to Saxon, Release 7.3.1	Had to switch to Saxon for XSLT processing, since Xalan as included in JDK 1.4 is too buggy and crashes during rendering of the Docbook sources. To avoid online DTD lookup, the documentation is copied to a temporary file and the DOCTYPE inside is rewritten to point to a local file. As soon as Ant supports xmlcatalog also for Saxon, this work-around will be removed. I do not plan (DTTSTTCPB) to configure and use Sun's packages that were made for the purpose of local catalogs for arbitrary parsers.

1.3.5. Release 0.3.1

Bugfixes, but not much more functionality compared to the predecessor

New Features

Immediate Look & Feel change	Changing the Look & Feel setting is now immediately reflected in the GUI.
------------------------------	---

Pending Feature Requests

No pending feature requests	There are no pending feature requests.
-----------------------------	--

Fixed Bugs

Setting rename	Changing the name of a setting in the Template Editor panel had no lasting effect, the change was not saved.
Template Name in Logbook Export to Excel	The name of the template was not exported.

Pending Bugs

No pending bugs	There are no pending bugs.
-----------------	----------------------------

1.3.6. Release 0.3.0

A reworked alpha release that finally provides a visual template editor. This release is the first alpha release.

Automated Upgrade

Release 0.4 will provide an upgrade feature for existing configurations.

New Features

[588598] Visual template editor A visual editor for templates (add/change/remove templates and template items)

Pending Feature Requests

No pending feature requests There are no pending feature requests.

Fixed Bugs

Multithreading Bugs Numerous multithreading bugs were eliminated; internal notification handling was changed from ActionListener style to Observer/Observable style to facilitate thread safety.

Timing Bug A timing bug resulted in incorrect logging of work periods. The Last log option was erroneously set to the time when the physical logging occurred.

Pending Bugs

No pending bugs There are no pending bugs.

1.3.7. Release 0.2.5

New Features

[587982] Logbook (delete or copy entries) Logbook entries can now be deleted in the Logbook panel (see Section 2.2.2, “Logbook Panel” [12]). The contents of a panel can now be copied to the template it was created from, thus allowing the user to reuse data from the most recent logbook entries.

Pending Feature Requests

[588598] Visual template editor A visual editor for templates (add/change/remove templates and template items)

Fixed Bugs

[589535] Excel export of bar chart: deadlock On the Evaluation panel (see Section 2.2.3, “Evaluation Panel” [?]), clicking the Export button no longer causes a deadlock inside the application.

[590083] DocBook DTD license missing The DocBook DTD license was missing in the documentation, although the DTD was included in the full release.

Pending Bugs

No pending bugs

There are no pending bugs.

1.3.8. Release 0.2.3

A pre-alpha release that is fully functional. This release comes close to the content of the upcoming alpha release.

No Automated Upgrade

There is no upgrade feature yet, so please do not use this release yet to track important data.

New Features

[585758] Logbook for last x entries

Displays a configurable number of most recent Logbook entries (see Section 2.2.2, “Logbook Panel” [12]).

Pending Feature Requests

No pending feature requests

There are no pending feature requests.

Pending Bugs

No pending bugs

There are no pending bugs.

1.3.9. Release 0.1.20

A pre-alpha release that is functional. Documentation (manual & javadocs) is a bare minimum. This release is meant for testing the release process and for giving interested users something to play with.

No Automated Upgrade

There is no upgrade feature yet, so please do not use this release yet to track important data.

Pending Feature Requests

No pending feature requests

There are no pending feature requests.

Pending Bugs

No pending bugs

There are no pending bugs.

Chapter 2. Usage

This chapter provides you with easy to follow procedures how to get the best out of JTimeTracker.

2.1. Quickstart

If you can't wait to use it, this section is for you.

Procedure 2.1. JTimeTracker For The Impatient

1. Start JTimeTracker using the `run.bat` or `run.sh` script, respectively. Under Microsoft Windows, you can also use the shortcuts created by the installer or double-click the JTimeTracker jar file, provided you have not associated the extension `*.jar` with file compression utilities.
2. Go to the Templates Editor panel. Adapt the `template` elements to your needs, but observe the following rules:
 - You cannot remove or rename the template called “default”.
 - From templates, you cannot remove or rename the settings that are named “Duration” or “Autolog”.
3. Switch to the Options panel. For the popup interval, enter a value that suits your needs. For many purposes, 15 minutes is a reasonable choice: every 15 minutes, you will be asked what you've been doing.
4. Switch to the Templates panel and have a look at the Autolog setting for each template. If you want a log entry created from a template even during your absence, activate the Autolog switch of the template.

A good choice for many purposes is to deactivate Autolog for all templates except “default”: as a result, the “default” template will be used in your absence, when you are not able to create a log entry manually.

Another choice is to activate Autolog for all templates that describe phone calls, meetings or other occasions when it is not possible to press keys on your computer keyboard.

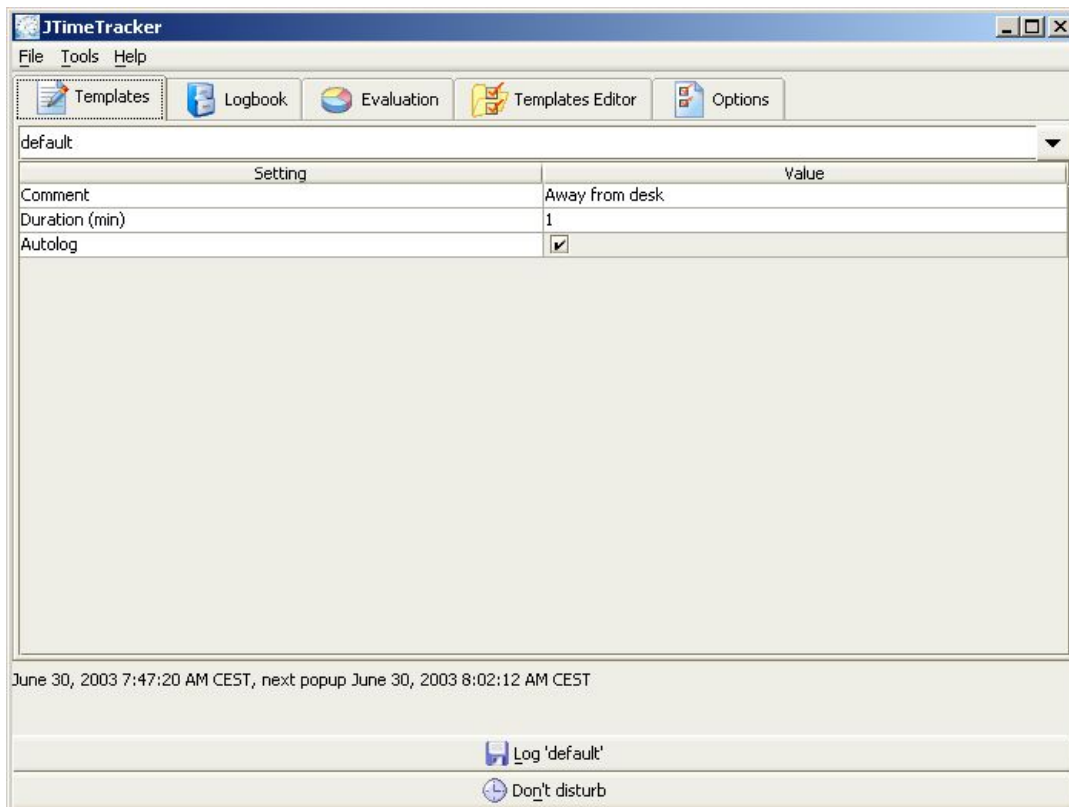
5. Whenever JTimeTracker pops up, on the Templates panel, select a template for the entry to be created. Modify the settings that have inappropriate default values and press the “Log this” button or use the log button shortcut.
6. When you want to see or make evaluations of the entries, try all options of the Tools menu or export the entries on the evaluation panel. The timespan for which entries are exported can be specified on the Options panel.

2.2. Panels

The user interface of JTimeTracker is mostly provided by tabbed panels, for easy and fast access.

2.2.1. Templates Panel

On the Templates panel, you can review and rename existing templates as well as enter values for all settings inside a template.

Figure 2.1. The Templates Panel

Note

The “default” template cannot be renamed.

Reuse Old Log Entries

You can fill template values from the content of old logbook entries. See the tip about Copying Entry Values [12] below.

All templates have two settings in common that cannot be removed:

Mandatory Template Settings

Duration (min)	The time that you spent on the work associated with this template, measured since the last log entry was created.
Autolog	<p>If set, then JTimeTracker will create a log entry from the contents of this template without your confirmation. This is suitable e.g. for a template that shall be logged when you are away from your desk or too busy to press any button.</p> <p>If <i>not</i> set, then JTimeTracker will check the Autolog setting of the “default” template to find out whether that should be logged. If this setting is disabled, too, then no entry will be created.</p>

Tip

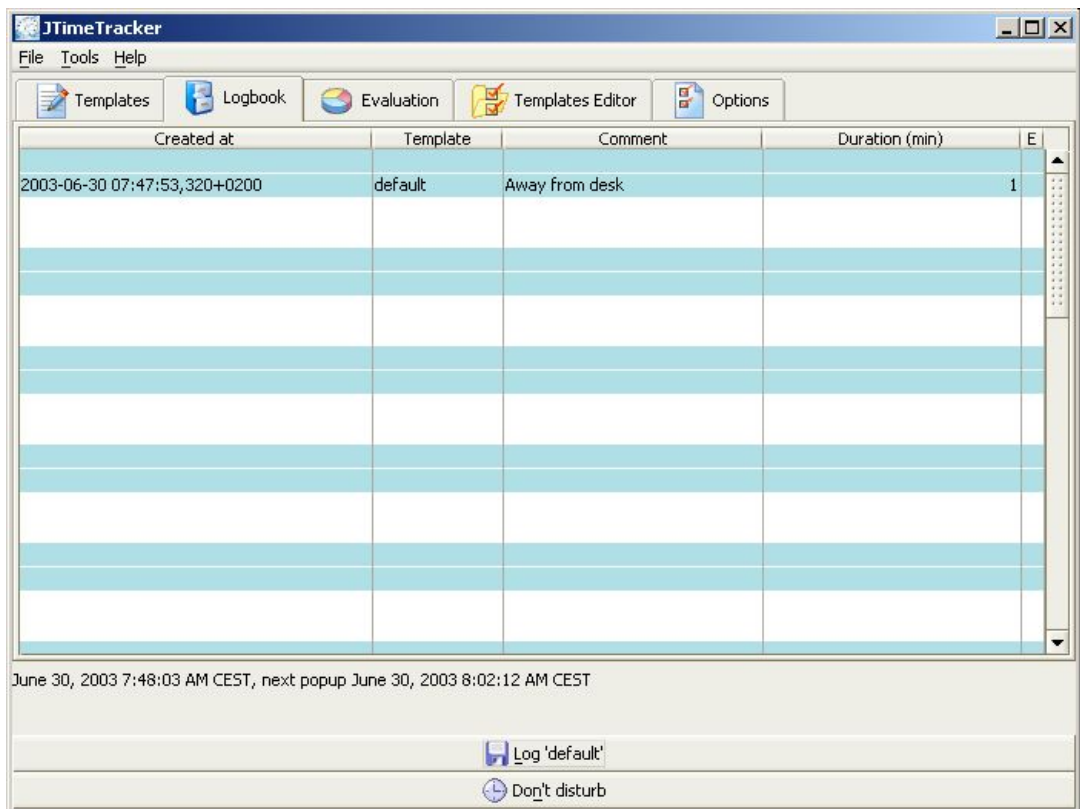
It is recommendable to reserve the “default” template for purposes like “away from desk”. This way, you can e.g. track how often you are kept from working during the day.

To rename a template, just change the template name in the template combo box. As soon as the caret leaves the combo box, the template will be renamed. Another way to rename a template is to change the name in the template tree of the template editor panel (see Section 2.2.4, “Template Editor Panel” [13]).

2.2.2. Logbook Panel

The Logbook panel lists the most recent log book entries. You can configure the number of entries to display as well as the number of columns to display on the Options panel.

Figure 2.2. The Logbook Panel



Since logbook entries are created from templates, the numbers as well as the names and types of columns per entry may differ. In case a column contains uniform data, the column title will reflect this. Otherwise, the column title just consists of a numbered field label and the diverse cell value names will be displayed directly above each cell value.

To delete an entry, select it, then right-click and choose the Delete selected entry menu item.

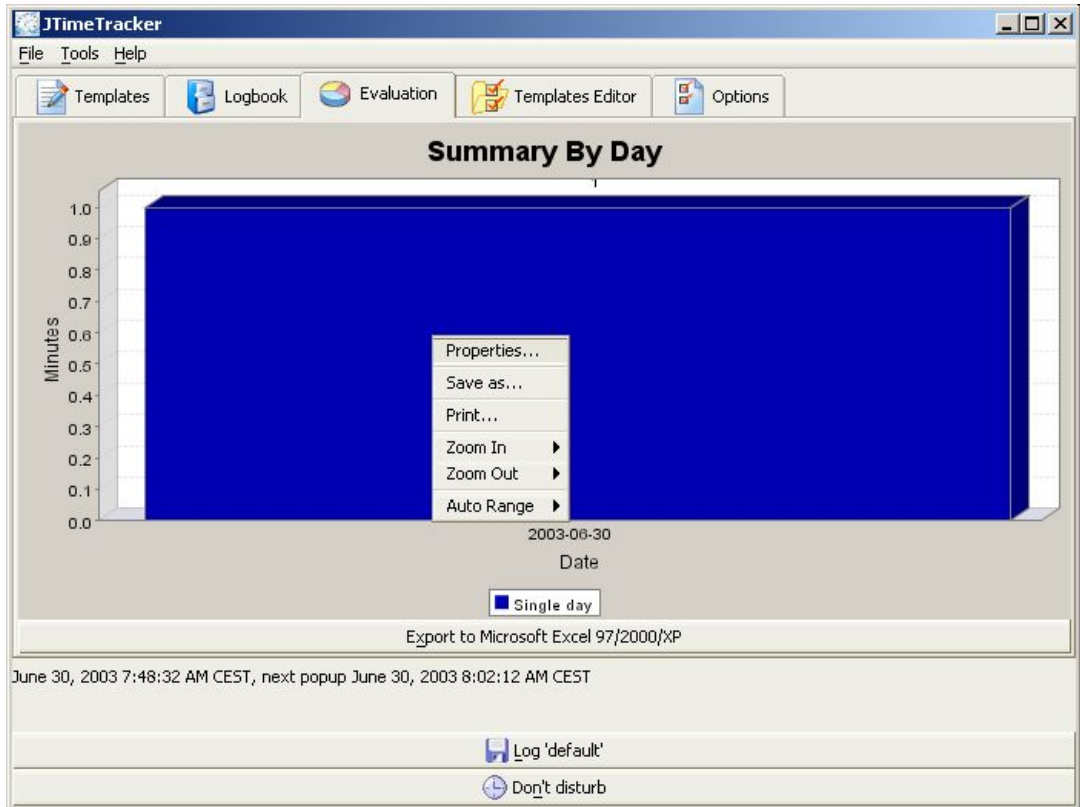
Copying Entry Values

You can create a new logbook entry from an old one. To do so, select the old entry in the Logbook panel, right-click and choose the Copy values to template menu item. In case the original template still exists, JTimeTracker will then copy all values from the logbook entry as current values into the template. If the template has changed, only the matching settings are copied.

2.2.3. Evaluation Panel

The evaluation panel shows bar charts that are created from summarized data. To trigger the creation of a bar chart, just select any of the Summarize items from the Tools menu.

Figure 2.3. The Evaluation Panel

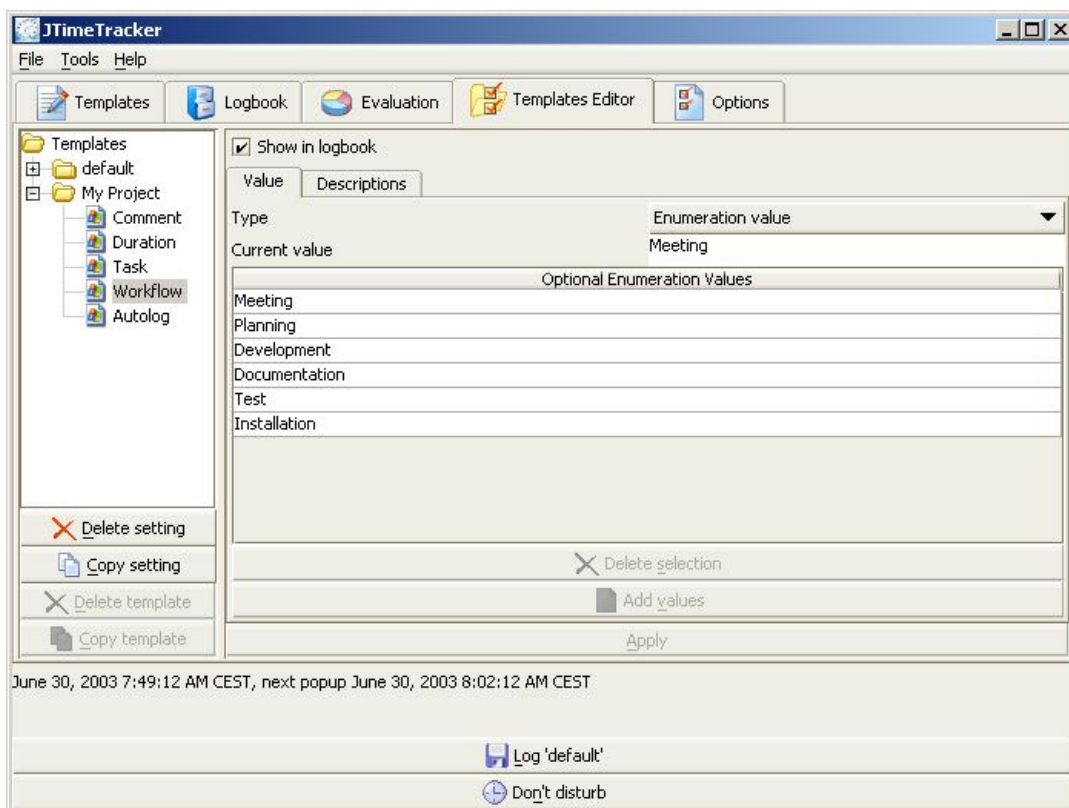


After a summary has been created, the data that is displayed can be exported to a Microsoft Excel™ file.

2.2.4. Template Editor Panel

The template editor panel serves to manipulate all templates that you can see on the templates panel (see Section 2.2.1, “Templates Panel” [10]). You can rename, copy (clone) and delete templates as well as every setting inside a template.

Figure 2.4. The Template Editor Panel



The template Editor consists of two views:

- on the left, you can see the template tree, showing a labeled folder symbol for each template and a labeled paper sheet symbol for each setting. Below the tree, you can find buttons for deleting and for copying templates and settings.
- on the right, you can see the settings editor; as soon as you select a setting's node in the template tree, the settings editor displays the setting's type, current value, optional values (for enumeration types) and the table for localized descriptions of the setting. At the top of the editor, you can select whether this setting shall be logged into the logbook.

As soon as you change anything, the button Apply becomes available. Press it to save your changes. In case you select a different node in the template tree while your changes are not yet saved, you will be asked whether you want to save your changes.

Note

There is one exception to this rule: template renaming is executed immediately. To undo this, you have to rename the template node manually.

2.2.4.1. Modifying the Template Tree

To modify the template tree, you have several options.

2.2.4.1.1. Renaming Templates and Settings

To rename a template or a setting inside a template, click twice on the corresponding node in the template tree to open the editing mode for the node label. To rename a template, you can also change the name in the template name combobox on the template panel (see Section 2.2.1, "Templates Panel" [10]).

Template renaming is executed immediately, whereas the renaming of a setting requires you to press the button Apply.

2.2.4.1.2. Deleting Templates and Settings

To delete a template or a setting inside a template, select the corresponding node in the template tree. Selecting a node sets the respective Delete *setting* button available. After you press the button, you will be asked to confirm the deletion.

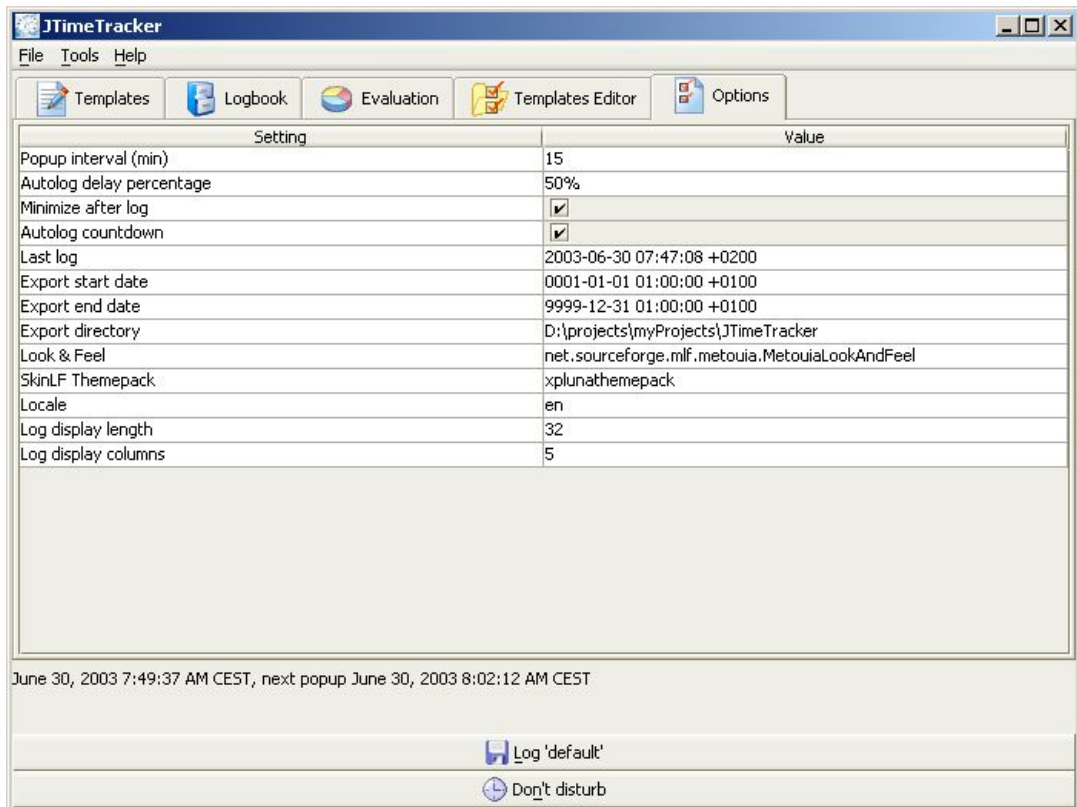
2.2.4.1.3. Copying Templates and Settings

To copy a template or a setting inside a template, select the corresponding node in the template tree. Selecting a node sets the respective Copy *setting* button available. After you press the button, a new node labeled Copy of *old setting name* will be inserted into the tree.

2.2.5. Options Panel

The Options panel is the central place to configure the overall behavior of JTimeTracker.

Figure 2.5. The Options Panel



Option Panel Settings

- | | |
|--------------------------|---|
| Popup interval (min) | The time period after which JTimeTracker asks you to manually log an entry. |
| Autolog delay percentage | The time that JTimeTracker waits before it assumes that you will not log an entry manually (e.g., because you are away from your desk). This time is measured in percent of the Popup interval (min) [] setting. Usually, 50% is a good choice. |
| Minimize after log | If set, JTimeTracker minimizes itself to icon state after an entry has |

	been logged.
Autolog countdown	If set, JTimeTracker displays a countdown of the seconds until an automatic logging will be triggered.
Last log	The date and time for which the last log entry was computed. This means the end of the last measured work period, not the time when the log entry was physically written. Used to determine the default value for the Duration fields of templates. This entry is updated automatically, but can also be modified manually.
Export start date	The start date for log entry exports. Only log entries that are younger will be exported.
Export end date	The end date for log entry exports. Only log entries that are older will be exported.
Export directory	The directory to which the last export file was written. Used as the default for the next export.
Look and Feel	The Look and Feel of the JTimeTracker GUI. Changes will take effect immediately, but full effect might require a restart of JTimeTracker.
SkinLF Themepack	The Themepack (aka skin) that is used when the SkinLF Look and Feel is selected. Changes will take effect immediately, but full effect might require a restart of JTimeTracker.
Locale	The locale to use for adapting the JTimeTracker user interface. Several localizations as well as the machine default are available here.
Log display length	The number of log entries shown in the Logbook panel (see Section 2.2.2, “Logbook Panel” [12]). Changing this setting takes effect immediately.
Log display columns	The number of columns shown in the Logbook panel (see Section 2.2.2, “Logbook Panel” [12]). Changing this setting takes effect immediately.

Appendix A. License

JTimeTracker consists entirely of OSI Certified Open Source Software. It is licensed under the terms of the Expatriate (MIT) License (see below), except for several third-party libraries and components that are licensed under the terms of various other Open Source licenses. For the complete list of third-party components used and their respective licenses, see Appendix B, *Third-Party Components* [18].

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Appendix B. Third-Party Components

JTimeTracker uses a number of third-party libraries and components, which are Open Source software, but licensed under licenses different from the one of JTimeTracker.

B.1. Components

B.1.1. WerXBus-RC2

WerXBus is used as the internal bus system for all components. It replaces the old Observable-based mechanism. More information about WerX is available under <http://sourceforge.net/projects/werx> [http://sourceforge.net/projects/werx] WerX is licensed under the terms of the GNU Lesser General Public Licence (LGPL), Version 2.1 (see Section B.2.3, “GNU Lesser General Public Licence (LGPL), Version 2.1” [21]).

B.1.2. Log4J, Release 1.2.8

Log4J is the logging library used to create timer and system log files. More information about Log4J is available under <http://jakarta.apache.org/log4j/index.html> [http://jakarta.apache.org/log4j/index.html] Log4J licensed is licensed under the terms of The Apache Software License, Version 1.1 (see Section B.2.1, “The Apache Software License, Version 1.1” [20]).

B.1.3. dom4j, Release 1.4

dom4j is used to parse XML files quickly and to extract information from XML files via XSLT. More information about dom4j is available under <http://sourceforge.net/projects/dom4j> [http://sourceforge.net/projects/dom4j] dom4j is licensed under the terms of a BSD style license (see Section B.2.2, “dom4j BSD style license” [21]).

B.1.4. POI, Release 1.5.1 Final

POI is the library used to create Excel files. More information about POI is available under <http://jakarta.apache.org/poi/index.html> [http://jakarta.apache.org/poi/index.html] POI licensed is licensed under the terms of The Apache Software License, Version 1.1 (see Section B.2.1, “The Apache Software License, Version 1.1” [20]).

B.1.5. JFreeChart, Release 0.9.8, including JCommon, Release 0.8.0

JFreeChart is used to create chart evaluations of the logged data. More information about JFreeChart is available under <http://www.object-refinery.com/jfreechart> [http://www.object-refinery.com/jfreechart] JFreeChart and JCommon are licensed under the terms of the GNU Lesser General Public Licence (LGPL), Version 2.1 (see Section B.2.3, “GNU Lesser General Public Licence (LGPL), Version 2.1” [21]).

B.1.6. Janel, Release 1.0.2

Janel is a Java Native Launcher for Microsoft Windows™. More information about Janel is available under <http://sourceforge.net/projects/janel> [http://sourceforge.net/projects/janel] Janel is licensed under a MIT-style Licence (see Section B.2.4, “Janel MIT-style license” [29]).

B.1.7. clockface.inc

The macros in clockface.inc were used to render the splash screen image. More information about

clockface.inc is available under <http://www.donovansweb.com/~chaffe/clocks.html> [<http://www.donovansweb.com/~chaffe/clocks.html>] clockface.inc is Copyright © 2002 by Robert Chaffe and has been made available by him putting this nice statement into the file header: "Everybody is free to use these macros as they please." Thank you very much!

B.1.8. Kunststoff Look & Feel, Release 2.0.1

Kunststoff Look & Feel is used to give the JTimeTracker GUI a nicer appearance. More information about Kunststoff Look & Feel is available under <http://www.incors.org> [<http://www.incors.org>] Kunststoff Look & Feel is licensed under the terms of the GNU Lesser General Public Licence (LGPL), Version 2.1 (see Section B.2.3, "GNU Lesser General Public Licence (LGPL), Version 2.1" [21]).

B.1.9. Metouia Look & Feel, Release 1.0 beta

Metouia Look & Feel is used to give the JTimeTracker GUI a nicer appearance. More information about Metouia Look & Feel is available under <http://mlf.sourceforge.net> [<http://www.incors.org>] Metouia Look & Feel is licensed under the terms of the GNU Lesser General Public Licence (LGPL), Version 2.1 (see Section B.2.3, "GNU Lesser General Public Licence (LGPL), Version 2.1" [21]).

B.1.10. SkinLF Look & Feel, Release 1.2.3

SkinLF Look & Feel is used to give the JTimeTracker GUI a nicer appearance. In addition to standard Look & Feel libraries, SkinLF can use themepacks. More information about Skin Look & Feel is available under <http://www.L2FProd.com/software/skinlf/index.html> [<http://www.L2FProd.com/software/skinlf/index.html>] SkinLF Look & Feel is licensed under the terms of a license that is similar to the Expatriate (MIT) license. SkinLF makes use of libraries that are licensed under the terms of other Open Source licenses. For the complete list, see Section B.2.5, "SkinLF license" [29].

B.1.11. GlyphsPro collection of high colour 16x16 and 24x24 toolbar glyphs

GlyphsPro is used to populate the JTimeTracker GUI with nice icons, in combination with all Look & Feel options. More information about GlyphsPro is available under <http://www.glyfz.com> [<http://www.glyfz.com>]. The free release is not listed there anymore, but may still be found here: <http://icons4free.artshost.com> [<http://icons4free.artshost.com>]. Please follow the "XP Icons" links. GlyphsPro is licensed under the Section B.2.7, "GlyphsPro license" [31].

B.1.12. DocBook DTD, Release 4.1.2

The Docbook DTD is used to validate the XML file that contains the software documentation. More information about DocBook is available under <http://www.oasis-open.org/docbook/> [<http://www.oasis-open.org/docbook/>] The DocBook DTD is licensed under the terms of a proprietary, but Open-Source-style license (see Section B.2.6, "DocBook license" [31]).

B.1.13. Development-Only Third-Party Components

The following components are used at development time only, and therefore not included in the minimal distribution.

B.1.13.1. Saxon, Release 6.5.2

The Saxon XML parser is used to create the PDF and online documentations from XML sources. The inbuilt parser of JDK 1.4™ More information about Saxon is available under <http://saxon.sourceforge.net> [<http://saxon.sourceforge.net>] The Saxon XML parser is licensed under

the terms of the Mozilla Public License Version 1.0 (see Section B.2.8, “Mozilla Public License (MPL), Version 1.0” [32]), with the exception of the contained Aelfred parser, which is licensed under the proprietary AElfired License (see Section B.2.9, “AElfired license” [37]).

B.1.13.2. mtxls, Version 1.5

mtxls is used to trigger the runs of Saxon from within the Ant build tool. More information about mtxls is available under <http://mtxls.sourceforge.net> [<http://mtxls.sourceforge.net>]. More information about Ant is available under <http://ant.apache.org> [<http://ant.apache.org>]. The Saxon XML parser is licensed under the terms of The Apache Software License, Version 1.1 (see Section B.2.1, “The Apache Software License, Version 1.1” [20]).

B.1.13.3. Checkstyle, Version 3.0

Checkstyle is used to ensure that the Java sources of JTimeTracker conform to the coding standards of its author. More information about Checkstyle is available under <http://checkstyle.sourceforge.net> [<http://checkstyle.sourceforge.net>]. Checkstyle is licensed under the terms of the GNU Lesser General Public License (LGPL), Version 2.1 (see Section B.2.3, “GNU Lesser General Public License (LGPL), Version 2.1” [21]).

B.1.13.4. JUnit, Release 3.8.1

JUnit is used as the framework for JTimeTracker's unit tests. More information about JUnit is available under <http://junit.org> [<http://junit.org>]. JUnit is licensed under the terms of the Common Public License, Version 1.0 (see Section B.2.10, “Common Public License (CPL), Version 1.0” [38]).

B.2. Third-Party Licenses

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```

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