

ProMessenger 3

PROM NEWSLETTER

ProM
process mining workbench

APRIL 2016



DID YOU KNOW...



Reduce startup time
Improved mapping from transitions labels to activities
Save final markings in PNML
Button to clear cache
Remember last used visualizer
Import multiple files of the same type
Improved multi-threading

... that many staff members of our group meet occasionally for a so-called **ProM Pizza Night**?

Many nice features, see the list to the left, have been developed by our **ProM Pizza Knights** during these ProM Pizza Nights.

The structure of a ProM Pizza Night is simple. First we eat pizza (possibly over some beers), then we develop and implement useful features in ProM that we wouldn't develop or implement otherwise, as it is not directly related to the research we're doing.

In case you want to contribute in some way to these ProM Pizza Night, please contact the organizer, **Xixi Lu**. See <https://svn.win.tue.nl/trac/prom/wiki/Pizza> for details.



PROM LITE

ProM end-user release

► P2



RAPID-PROM

Enabling process mining workflows

► P3



DOWNLOADS

► P4

Eric Verbeek EDITOR

Welcome to the third ProMessenger, the newsletter on ProM. This newsletter focuses on the two new releases of ProM:



1. ProM Lite, an end-use release containing (a) the most-used plug-ins and an (b) auto-update feature (P2),
2. RapidProM 3.0, a comprehensive collection of ProM plug-ins in a bundle that can be installed and used in the well-known RapidMiner tool (P3).

This newsletter furthermore contains information on the changes as a result of the latest ProM Pizza Night, and on some changes that are relevant to a ProM developer.

Enjoy this newsletter!

HELP US WITH THIS NEWSLETTER BY PROVIDING US WITH INPUT

Please send your input for the following newsletter to me before **July 1, 2016**.

Eric Verbeek,
WWW.PROMTOOLS.ORG

PROM LITE



ON FEBRUARY 10, 2016, PROM LITE HAS BEEN RELEASED.

In contrast to the other releases of ProM we have seen so far, ProM Lite is an end-user release. The other releases were more targeted towards researchers, as these releases did not change (no updates possible). As a result, researchers could use these releases to refer to in their publications, and to claim results. The ProM lite release is more targeted towards end-users, and updates

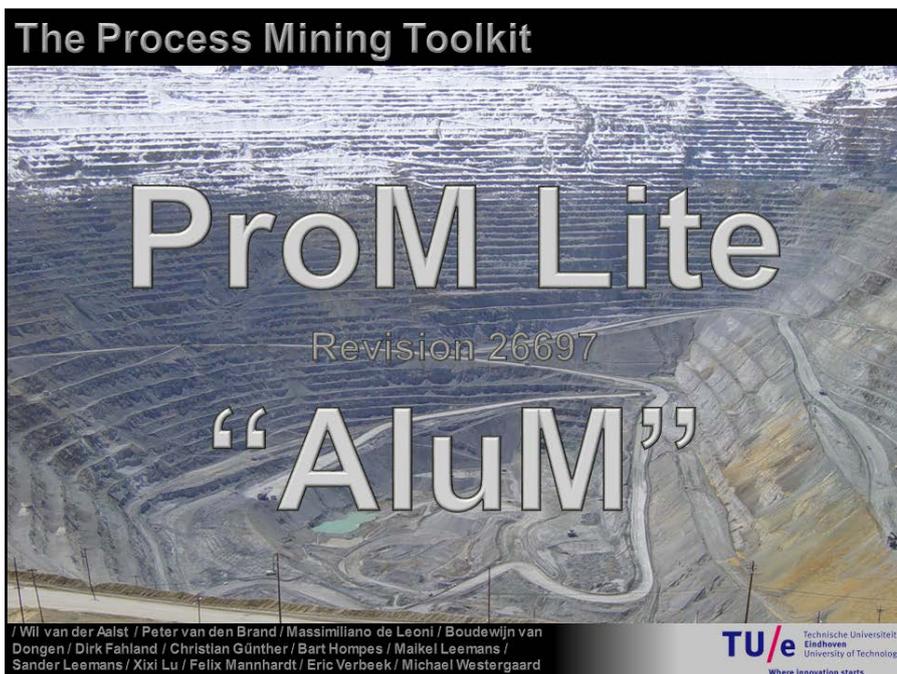
to the packages included in the release are possible. Please note that as a result, this release is a moving target which should not be used to refer to in publications.

Another difference is that ProM Lite does not contain the most recent research prototypes. Only the established algorithms are available to the user. As such, ProM Lite

offers a restricted (but stable) set of functionalities. We think that ProM Lite is the ideal tool to use in, for example, education that includes process mining.

ProM Lite can be downloaded free of charge from www.promtools.org. This page also includes useful links to details about the release, like which plug-ins are available.

We hope you will like this new ProM release! In case of questions and/or comments, feel free to contact us.



Due to ProM Lite, some changes have been made to the framework. One noteworthy change is that the **userAccessible** field of the **@Visualizer** annotation should now not be set to false, as setting it to false results in your visualizer not being usable in ProM. Either remove the field from the annotation, or set it to true.

ProM Lite	Import/Export	Views	Miner	Analysis/Filter
Alignment		Event log, Petri net		Conformance, Performance
BPMN	BPMN 2.0	BPMN, Inductive	BPMN	
Fuzzy		Animation, Instance, Model	Fuzzy	
Event log	CSV, MXML(.GZ), XES(.GZ)	(Data) alignment, Dotted chart, Episode, Log, Social network	Episode, social network	Event attribute, Fitness, Replay, Simple heuristics, Trace attribute
(Data) Petri net	PNML	(Data) alignment, (Data) Petri net	Alpha, (Hybrid) ILP, Inductive	Behaviorial, Replay, Structural, Woflan
Process tree	PTML	BPMN, Process tree	Inductive	Replay
Transition system	TSML	Animation, Transition system	Transition system	

RAPIDPROM

ENABLING PROCESS MINING WORKFLOWS.

The RapidProM extension for RapidMiner provides Process Mining Capabilities to Analytic Workflow Tools.

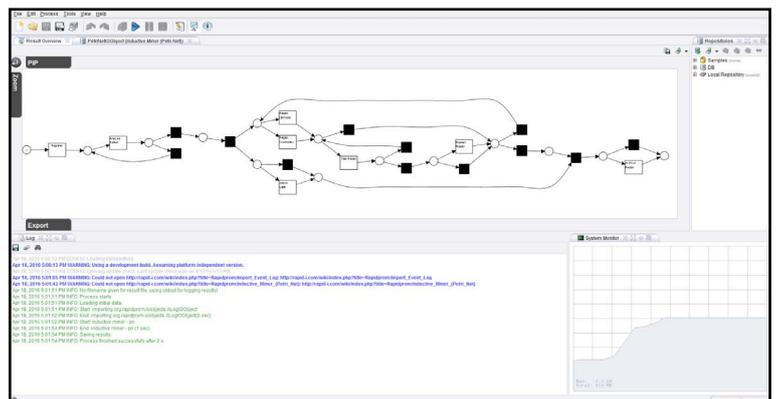
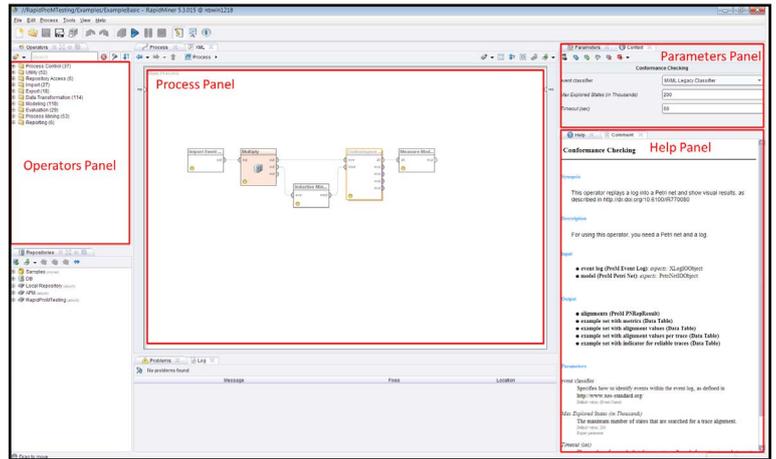
Prepare your data in a transparent way by including all the data processing steps explicitly in the workflow.

Create your experiments using the provided ProM process mining operators and combine them with traditional Data Mining operations.

Execute complex and large process mining experiments with a single click.

Share your experiments with your colleagues and reviewers for transparent experiment replayability!

You can find the RapidProM extension in the RapidMiner Marketplace or at www.rapid-prom.org



ADDITIONAL READING MATERIAL:

Bolt, A., de Leoni, M., van der Aalst, W.M.P.: Scientific workflows for process mining: building blocks, scenarios, and implementation. International Journal on Software Tools for Technology Transfer (2015). To appear.

Mans, R.S., van der Aalst, W.M.P., Verbeek, H.M.W.: Supporting process mining workflows with RapidProM. In: Proceedings of the BPM Demo Sessions 2014 Co-located with the 12th International Conference on Business Process Management (BPM). Volume 1295 of CEUR Workshop Proceedings., CEUR-WS.org (2014).

Bolt, A., de Leoni, M., van der Aalst, W.M.P., Gorissen, P.: Exploiting Process Cubes, Analytic Workflows and Process Mining for Business Process Reporting: A Case Study in Education. To appear in: International Symposium on Data-Driven Process Discovery and Analysis 2015.

PROM SUPPORT

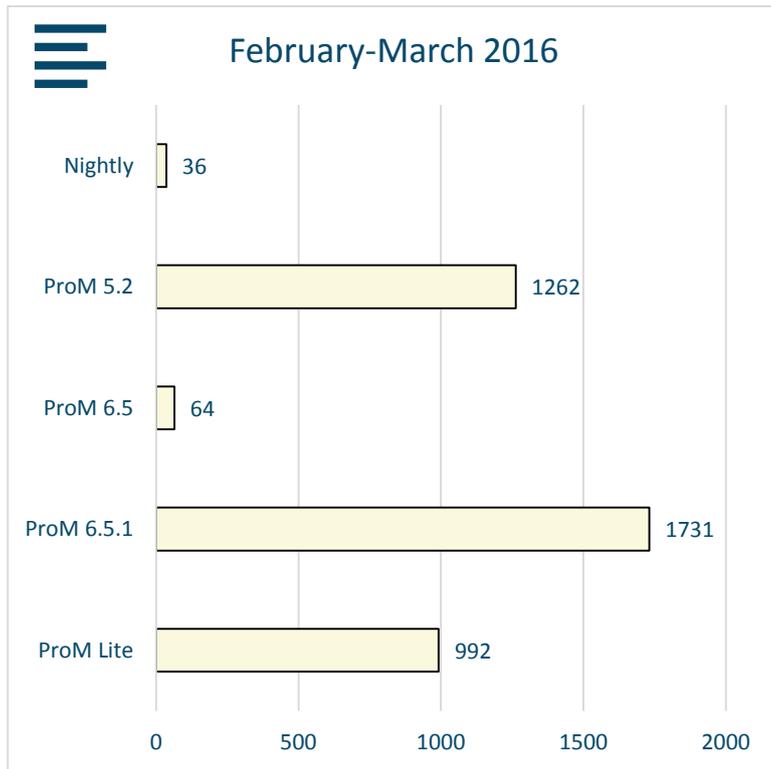
In case you experience problems with ProM, be it with a release or with a nightly build, please contact our support team. You can do so by visiting the ProM forum at <http://www.win.tue.nl/promforum> or by sending a mail to prom-users@listserver.tue.nl.

LED BY DIRK FAHLAND AND ERIC VERBEEK
WWW.WIN.TUE.NL/PROMFORUM, PROM-USERS@LISTSERVER.TUE.NL



If you contact us with a problem, please try to be specific. Please mention the version of ProM you are using and provide us with the necessary input to reproduce the problem, which includes the steps to take and the files to import.

PROM DOWNLOADS



PROM AND THIRD-PARTY LIBRARIES

In case you want to add a third-party library to your ProM package, it may help to do the following:

1. Go to Hudson (that is, visit ais-hudson.win.tue.nl:8080).
2. Select the **System** tab.
3. Select the **Console** of the **Libs** project.

This shows you a list of all third-party libraries already in use by the ProM framework or by one of the packages.

Instead of adding another (and possibly conflicting) copy of the library, you can then reuse the already-existing library.



PROMJGRAPH

The generic JGraph-based graph visualizer as used in ProM

The ProMJGraph and ProMJGraphVisualizer classes have been moved from the framework to the **Widgets** package. As a result, if your package uses these visualizers, you now need to make sure that your package depends on this Widgets package.



NEW FREEHEP LIBRARIES

The generic functionality as used in ProM to save graph visualizations to file (PDF, PNG, ...)

These libraries have been updated to version 2.4, and have also been moved from the framework to the **Widgets** package.



PROM DEVELOPMENT



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[HTTPS://SVN.WIN.TUE.NL/TRAC/PROM](https://svn.win.tue.nl/trac/prom), PROM-DEVELOPERS@LISTSERVER.TUE.NL

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