Preparing FP7 EU Proposals and Reports in \LaTeX\ with \texttt{euproposal.cls}

Michael Kohlhase
Computer Science, Jacobs University Bremen
\url{http://kwarc.info/kohlhase}

January 13, 2013

Abstract

The \texttt{euproposal} class supports many of the specific elements of a Framework 7 Proposal. It is optimized towards collaborative projects. The package comes with an extensive example (a fake EU proposal) that shows all elements in action.

Contents

1 Introduction 2

2 The User Interface 2
  2.1 Package Options ............................................. 2
  2.2 Proposal Metadata and Title page .......................... 2
  2.3 Work Packages and Work Areas .............................. 3
  2.4 Reporting Infrastructure ................................. 3

3 Limitations and Enhancements 3

4 The Implementation 4
  4.1 Package Options and Format Initialization ..................... 4
  4.2 Proposal Metadata and Title Page .......................... 4
  4.3 Work Packages, Work Areas, and Deliverables ............... 6
  4.4 Risks .................................................. 6
  4.5 Risks .................................................. 7
  4.6 Relevant Papers ........................................ 7
1 Introduction

Writing grant proposals is a collaborative effort that requires the integration of contributions from many individuals. The use of an ASCII-based format like \LaTeX allows to coordinate the process via a source code control system like Subversion, allowing the proposal writing team to concentrate on the contents rather than the mechanics of wrangling with text fragments and revisions.

The euproposal class extends the proposal class \cite{Koh12a} and supports many of the specific elements of Part B of a Framework 7 Proposal. The package documentation is still preliminary, fragmented and incomplete and only dwells on the particulars of DFG proposals, so we treat \cite{Koh12a} as a prerequisite. Please consult the example proposal propB.tex, which comes with the package and shows the usage of the class in action. It is intended as a template for your proposal, but please bear in mind that the EU guidelines may change from call to call, if in doubt, please consult the FP7 guide for proposers.\footnote{EdNote: say something about the proposers guide.}

The eureporting class supports most of the specific elements of the project reports to the EC. The example report dfg/report.tex is intended as a template for your final report\footnote{EdNote: say something about reporting}.

The euproposal and eureporting classes and the eupdata package are distributed under the terms of the LaTeX Project Public License from CTAN archives in directory macros/latex/base/lppl.txt. Either version 1.0 or, at your option, any later version. The CTAN archive always contains the latest stable version, the development version can be found at \url{https://svn.kwarc.info/repos/kwarc/doc/macros/euproposal} For bug reports please use the sTeX trac at \url{https://trac.kwarc.info/sTeX/} with component euproposal.

2 The User Interface

In this section we will describe the functionality offered by the euproposal class along the lines of the macros and environments the class provides. Much of the functionality can better be understood by studying the functional example proposal.tex (and its dependents) that comes with the euproposal package in conjunction with the proposer’s EU proposer’s guidelines (we have included it as *** for convenience into the package distribution).\footnote{EdNote: MK@MK do that and talk about reporting as well.}

2.1 Package Options

As usual in \LaTeX, the package is loaded by \textbackslash documentclass[⟨options⟩]{euproposal}, where [⟨options⟩] is optional and gives a comma separated list of options specified in \cite{Koh12a}.

2.2 Proposal Metadata and Title page

The metadata of the proposal is specified in the proposal environment, which also generates the title page and the first section of the proposal as well as the last pages of the proposal with the signatures, enclosures, and references. The proposal environment should contain all the mandatory parts of the proposal text. The proposal environment uses the following EU-specific keys to specify metadata.

- \texttt{callname} specifies the call the proposal addresses. It is usually a string of the form ICT Call 1, callid is the corresponding identifier, usually a string of the form FP7-??-??-200?-?. An overview over open calls can be found at \url{http://cordis.europa.eu/fp7/dc/index.cfm} \footnote{EdNote: MK@MK: the outcomeid should key should be a list key, I am not implementing this right now, since it}

- The \texttt{challenge}, \texttt{objective}, and \texttt{outcome} keys specifies the specific parts in the call this proposal addresses. These are specified in the “call fiche” that can be obtained from the URL above. All of these have an identifier, which can be specified via the \texttt{challengeid}, \texttt{objectiveid} and \texttt{outcomeid} keys.\footnote{EdNote: MK@MK: the outcomeid should key should be a list key, I am not implementing this right now, since it}
topicsaddressed • topicsaddressed allows to enter free-form text instead of specifying the challenge*, objective*, and outcome* keys.

coordinator • The coordinator key gives the identifier of the proposal coordinator. The euproposal package uses the workaddress package for representation of personal metadata, see [Koh12b] for details.

iconrowheight • If given, the iconrowheight key instructs the euproposal class to make a line with the logos of the participants at the bottom of the title page, and specify their heights; 1.5cm is often a good value.

2.3 Work Packages and Work Areas

type The type key specifies the activity type of the work package: RTD = Research and technological development (including any activities to prepare for the dissemination and/or exploitation of project results, and coordination activities); DEM = Demonstration; MGT = Management of the consortium; OTHER = Other specific activities, if applicable in this call.

2.4 Reporting Infrastructure

The eureporting class gives an infrastructure for writing final reports of completed projects (see the file finalreport.tex in the package distribution). The report environment has functionality analogous to the proposal environment. It takes the same metadata keys — making it easy to generate by copy/paste from the proposal — but adds the keys key can be used to specify the reference key (something like KG 2428 47-11) given to the project by EU. Note that in the case of multiple proposers, you can use multiple instances of key to specify more than one reference key.

3 Limitations and Enhancements

The euproposal is relatively early in its development, and many enhancements are conceivable. We will list them here.

1. none reported yet.

If you have other enhancements to propose or feel you can alleviate some limitation, please feel free to contact the author.
4 The Implementation

In this section we describe the implementation of the functionality of the euproposal and eureporting classes and the eupdata package.

4.1 Package Options and Format Initialization

We first set up the options for the package.

```latex
⟨cls⟩\DeclareOption*{\PassOptionsToClass{\CurrentOption}{proposal}}
⟨reporting⟩\DeclareOption*{\PassOptionsToClass{\CurrentOption}{reporting}}
⟨cls | reporting⟩\ProcessOptions
```

Then we load the packages we make use of

```latex
⟨cls⟩\LoadClass[report,noRAM]{proposal}
⟨reporting⟩\LoadClass[report,noRAM]{reporting}
⟨∗cls | reporting⟩\RequirePackage{longtable}
\RequirePackage{eurosym}
\RequirePackage{wrapfig}
\RequirePackage{eupdata}
⟨/cls | reporting⟩
```

4.2 Proposal Metadata and Title Page

We extend the metadata keys from the proposal class.

```latex
⟨∗pdata⟩\define@key{prop@gen}{coordinator}{\def\prop@gen@coordinator{#1}\pdata@def{prop}{gen}{coordinator}{#1}}
\def\prop@gen@challenge{??}\def\prop@gen@challengeid{??}
\define@key{prop@gen}{challenge}{\def\prop@gen@challenge{#1}\pdata@def{prop}{gen}{challenge}{#1}}
\define@key{prop@gen}{challengeid}{\def\prop@gen@challengeid{#1}\pdata@def{prop}{gen}{challengeid}{#1}}
\def\prop@gen@objective{??}\def\prop@gen@objectiveid{??}
\define@key{prop@gen}{objective}{\def\prop@gen@objective{#1}\pdata@def{prop}{gen}{objective}{#1}}
\define@key{prop@gen}{objectiveid}{\def\prop@gen@objectiveid{#1}\pdata@def{prop}{gen}{objectiveid}{#1}}
\def\prop@gen@outcome{??}\def\prop@gen@outcomeid{??}
\define@key{prop@gen}{outcome}{\def\prop@gen@outcome{#1}\pdata@def{prop}{gen}{outcome}{#1}}
\define@key{prop@gen}{outcomeid}{\def\prop@gen@outcomeid{#1}\pdata@def{prop}{gen}{outcomeid}{#1}}
\define@key{prop@gen}{callname}{\def\prop@gen@call{#1}\pdata@def{prop}{gen}{callname}{#1}}
\define@key{prop@gen}{callid}{\def\prop@gen@call{#1}\pdata@def{prop}{gen}{callid}{#1}}
\define@key{prop@gen}{iconrowheight}{\def\prop@gen@iconrowheight{#1}}
\define@key{prop@gen}{topicsaddressed}{\def\prop@gen@topicsaddressed{#1}}
⟨/pdata⟩
```

and now the ones for the final report

```latex
⟨∗reporting⟩\define@key{prop@gen}{reportperiod}{\def\prop@gen@reportperiod{#1}}
\define@key{prop@gen}{key}{\@dmp{key=#1}\
\@ifundefined{prop@gen@keys}{\xdef\prop@gen@keys{#1}}{\xdef\prop@gen@keys{\prop@gen@keys,#1}}}
\define@key{prop@gen}{projpapers}{\def\prop@gen@projpapers{#1}}
⟨/reporting⟩
```

and the default values, these will be used, if the author does not specify something better.

We need to redefine some of the internal counters and table of contents mechanisms to adapt to the fact that the proposal text is just Part B.

```latex
⟨∗cls⟩\def\thepart{\Alph{part}}
\setcounter{part}{2}
\def\thechapter{\thepart.\arabic{chapter}}
\def\numberline#1{\hb@xt@\@tempdima{#1\hfil} }
```
\newcommand\prop@sites@table{
def\@table{}
\let\tabularnewline\relax\let\hline\relax
\for\@I:=\prop@gen@sites\do{\def\@table{\@table\pdataref{site}\@I\{number\}}}
\def\@table{\@table\\nameuse{wa\{institution\}\@I\name}}
\def\@table{\@table\\nameuse{wa\{institution\}\@I\acronym}}
\def\@table{\@table\\nameuse{wa\{institution\}\@I\countryshort\}tabularnewline\hline}
\begin{tabular}{|l|p{8cm}|l|l|}
\hline
\# & Participant organisation name & Short name & Country\\
\hline
\@@table
\end{tabular}}

\renewenvironment{prop@proposal}{\thispagestyle{empty}\begin{center}
\Large \prop@gen@instrument\\
\[.2cm\]
\LARGE\textbf{\prop@gen@callname}\\
\[.4cm\]
\Large\textbf{\prop@gen@callid}\\
\[.3cm\]
\LARGE Acronym: \prop@gen@acronym\\
\[.2cm\]
\end{center}
\begin{large}
\begin{description}
\item[Work program topics addressed by \pn:] \prop@gen@topicsaddressed
\item[Challenge \prop@gen@challengeid]: \prop@gen@challenge,
\item[Objective \prop@gen@objectiveid]: \prop@gen@objective,
\item[Target outcome \prop@gen@outcomeid]) \prop@gen@outcome.
\prop@gen@topicsaddressed
\item[Coordinator:] \wa@ref{person}\prop@gen@coordinator{name}
\item[e-mail:] \wa@ref{person}\prop@gen@coordinator{email}
\item[tel/fax:] \wa@ref{person}\prop@gen@coordinator{worktelfax}
\end{description}
\end{large}
\vspace*{1em}
\begin{center}
\prop@sites@table
\@ifundefined{prop@gen@iconrowheight}{\}@\for\@site:=\prop@gen@sites\do{\wa@institution@logo[height=\prop@gen@iconrowheight]\@site\qquad}
\end{center}
\newpage
\setcounter{tocdepth}{2}\setcounter{part}{2}}

\newenvironment{sitedescription}[2][]{\def\@test{#1}\begin{wrapfigure}{r}{5.4cm}\vspace{-2.5ex}\egin{tabular}{|p{5cm}|\@test{#2}\fi\vspace{1mm}\end{tabular}}
\ifx\@test\@empty\wa@institution@logo[height=1.3cm]{#2}\else\wa@institution@logo[#1]{#2}\fi\vspace{1mm}}
4.3 Work Packages, Work Areas, and Deliverables

workpackage
103 \newmdenv[frametitle=Objectives]{wpobjectives}
104 \newmdenv[frametitle=Description]{wpdescription}

\wpheadertable
We redefine the macro that computes the default work package header table, since there are more
sites in a EU proposal
109 \newcounter{@sitespo}\newcounter{@sitespt}
110 \renewcommand\wpheadertable{\
111 \wp@sites@efforts@lines\
112 \setcounter{@sitespo}{\thewp@sites@num}\addtocounter{@sitespo}{1}\
113 \setcounter{@sitespt}{\thewp@sites@num}\addtocounter{@sitespt}{2}\
114 %\par\noindent\begin{tabular}{ll|*{\thewp@sites@num}{c|}c|}hline\par
115 \multicolumn{\the@sitespt}{|l|}{\textbf{\wp@mk@title{\wp@num}: \textsf{\pdata@target{wp}{\wp@id}{\pdataref{wp}\wp@id{title}}}}}\
116 \textbf{Start: }\pdataref{wp}\wp@id{start}&\multicolumn{\the@sitespo}{l|}{\textbf{Activity Type: }\pdataref{wp}\wp@id{type}}\
117 \multicolumn{1}{|l|}{\textbf{Contingency:} }\
118 \textbf{Contingency:} }
119 \par\noindent\ignorespaces}

wpdelivs
\%\surroundwithmdframed{wpdelivs}

4.4 Risks
risk
123 \newenvironment{risk}[3]
124 {\paragraph{Risk: #1}\hfill{\textbf{Probability}: #2, \textbf{Gravity}: #3}\par\noindent\ignorespaces}
125 }

riskcont
126 \newenvironment{riskcont}[3]
127 {\begin{risk}{#1}{#2}{#3}\textbf{Contingency:} \end{risk}}
128 {\end{risk}}

---

\textbf{EdNote: MK: boxing \texttt{compactdesc} does not seem to work any more}
4.5 Risks

In some EU proposals (e.g. FET), we need to identify risks and contingency and specify mitigation plans for them. In the euproposal we use two environments to mark them up.

\begin{risk}\langle title\rangle\langle prob\rangle\langle grav\rangle\end{risk} makes a paragraph no a rist \textit{(title)} with gravity \textit{(grav)} and probability \textit{(prob)}, where the body of the environment contains a description of the risk. The \textit{riskcont} is a variant, where \textit{(title)} names a risk and the body is a description of the contingency plan.

4.6 Relevant Papers

EdN\#eypubs

EdNote: MK: the baselinestretch manipulation does not work here, since prop@paperlist makes its own provisions. We should provide a way of manipulating sizes here.
References
