# pharmrep – A LATEX package for Medical Reports ¡BJ an MS: Package Titel muss noch harmonisiert werden s.a. Manual-Part;\*

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### Abstract

The class pharmrep provides a set of tools for authors of submission-relevant documents in a consistent way. The package has an extended set of configuration options to make it possible to .....

pharmrep helps users to write standardised scientific pdf documents in professional layout that have to be sent (electronically) to authorities. The class setups a layout (page layout, fonts etc.) and different properties of the resulting output file (bookmarks, hyperlinks, tagging, fast web view etc.) to match given requirements. In addition a template can be used as a starting point for new documents.

# 1 Installation

TODO:text for installation needs to be included here include general description about the package here.

# 1.1 Specific Packages included into PharmRep

The PharmRep ¡BJ an MS: Gross-/Kleinschreibung; package includes a number of other packages that facilitate editing scientific texts and guarantee a level of harmonization throughout the complete submission-relevant documentation.

### 1.1.1 siunitx - A Comprehensive (SI) Units Package

package siunitx

"Physical quantities have both numbers and units, and each physical quantity should be expressed as the product of a number and a unit. Typesetting physical quantities requires care to ensure that the combined mathematical meaning of the number-unit combination is clear. In particular, the SI units system (International System of Units) lays down a consistent set of units with rules on how these are to be used. However, different countries and publishers have differing conventions on the exact appearance of numbers (and units). The 'siunitx' package provides a set of tools for authors to typeset quantities in a consistent way. The package has an extended set of configuration options which make it possible to follow varying typographic conventions with the same input syntax. The package includes automated processing of numbers and units, and the ability to control tabular alignment of numbers."

In addition, numbers are automatically formatted. Example: TODO:description of siunitx and examples

<sup>\*</sup>This file describes version v2.0, last revised 2016/04/12.

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### 1.1.2 hyperxmp – Creating PDF 1b Format

¡Hier kurze Beschreibung zum Package einfgen;.

# 2 Dealing with Typical Problems by using PharmRep

One typical problem that may occur when using Latex respectively the PharmRep package may occur, when the PDF that was successfully compiled remains opened when further editing the tex-file. With the PDF opened, the compilation process cannot be performed and the following error message appears: PharmRepStyle.tex: Fehler; Zeile 30: I can't write on file 'PharmRepManual23.pdf'. Once the PDF is closed, compilation can be performed without any problems.

# 3 User Feedback and Reporting Bugs

Feedback on PharmRep is always welcome and will help us in improving the package and correct any problems. is there an 'official' chanel for reporting problems?

# 4 Thanks

We would like to express our particular thanks to Martin Sievers, who supported the development of the PharmRep with valuable input and tested the beta version, including identifying any incorrect output, bad documentation and spelling mistakes in the documentation. His specific focus was the support in solutions on how to create PDF/A-1b compatible files with the PharmRep package. ¡BJ an MS: Da Du, Martin, jetzt als Autor dabei ist, koennte dieses Kapitel geloescht werden, oder?;

# 5 zu behebende Probleme

- Einbindung von externen Grafiken bzw. Tabellen macht Probleme, siehe Test-Page.pdf (in der Praxis: Einbindung von Plots, HPLC-Chromatogrammen, etc.)
- Excel2Latex bei umfangreichen Tabellen mit Text ber mehrere Zeilen ergibt Probleme

# 6 Implementation

```
1 (*class)
 2 \RequirePackage{kvoptions}
 3 \SetupKeyvalOptions {
      family = pharmrep,%
      prefix = pharmrep@,%
 5
      setkeys = \kvsetkeys,%
 6
 7 }
 9 \DeclareStringOption[utf8]{inputenc}
10 \DeclareStringOption[sRGB_IEC61966-2-1_black_scaled.icc]{colorprofile}
11 \DeclareBoolOption[true] {pdfa}
12 \DeclareBoolOption[false]{letter}
13 \DeclareVoidOption{US}{\pharmrep@lettertrue}
14 \ProcessKeyvalOptions*\relax
15 \PassOptionsToPackage{\pharmrep@inputenc}{inputenc}
16 \RequirePackage{etoolbox}
For pdf 1.4 output and xml metadata
17 \RequirePackage{pdf14}
18 \input glyphtounicode.tex
19 \input glyphtounicode-cmr.tex
```

```
20 \pdfgentounicode=1
 21 \pdfobjcompresslevel=0
 22 \pdfinclusioncopyfonts=1
Load KOMA document class scrartcl with required options
23 \ifpharmrep@letter
      \PassOptionsToPackage{paper=letter,pagesize}{typearea}
24
25 \fi%
26 \LoadClass[parskip=half,fontsize=12bp,%
         bibliography=totoc,listof=totoc,%
         numbers=noendperiod]{scrartcl}
pdf 1b format
29 \RequirePackage{hyperxmp}
Input encoding
30 \RequirePackage{inputenc}
Font encoding
31 \RequirePackage[T1]{fontenc}
      \hyphenchar\font=\string"7F
Language definition, typesetting and hyphenation
33 \RequirePackage[english]{babel}
      \addto{\captionsenglish}{\renewcommand*{\contentsname}}{Table of Contents}}
      \addto{\extrasenglish}{\def\figureautorefname{figure}}
35
      \addto{\extrasenglish}{\def\tableautorefname{table}}
36
37
Font evtl. TeXGyre einbinden, z.B. ber eine Option
38 \RequirePackage{mathptmx} % times font
39 \RequirePackage{couriers} % monospace fonts
 40 \RequirePackage[scaled=0.91]{helvet}
                                            % for sans serif fonts (\textsf{...} or \sffamiliy)
 41 \RequirePackage{pifont}
                             % symbols
42 \RequirePackage{textcomp} % symbols
43 \ \texttt{\ensuremath{\texttt{RequirePackage\{\texttt{microtype}\}\%}} \ \texttt{microtypographic} \ \texttt{extensions}
44 \RequirePackage{xspace} % automatic spacing with own commands
Graphic extensions
 45 \RequirePackage{graphicx}
 46 \RequirePackage{grffile}
Color profile
 47 \RequirePackage[rgb] {xcolor}
 48 \ifpharmrep@pdfa
      \IfFileExists{\pharmrep@colorprofile}
49
          {\immediate\pdfobj stream attr{/N 3} file{\pharmrep@colorprofile}
50
          \pdfcatalog{%
51
         /OutputIntents [ <<
52
         /Type /OutputIntent
53
         /S/GTS_PDFA1
54
         /DestOutputProfile \the\pdflastobj\space 0 R
55
         /OutputConditionIdentifier (\pharmrep@colorprofile)
56
         /Info(\pharmrep@colorprofile)
57
         >> ]
58
         }}{\ClassError{pharmrep}{Color profile \pharmrep@colorprofile not found!}{Please check
59
60 \else
61
      \ClassInfo{pharmrep}{PDF/A support is disabled!}
62 \fi%
SI number formatting
 63 \RequirePackage{siunitx}
Page layout, header and footer
64 \RequirePackage{geometry}
       \geometry{textheight=600pt,head=50pt,left=60pt,right=60pt,includeheadfoot}
65
       \setlength{\footheight}{38pt}
67 \RequirePackage[section] {placeins}
68 \RequirePackage{lastpage}
 69 \RequirePackage{totcount}
```

```
\regtotcounter{figure}
70
      \regtotcounter{table}
71
72 \IfFileExists{scrlayer-scrpage.sty}
      {\RequirePackage[headsepline,footsepline]{scrlayer-scrpage}}%
73
      {\RequirePackage[headsepline,footsepline]{scrpage2}}%
74
      \setkomafont{pageheadfoot}{\small}
75
      \setkomafont{pagenumber}{\small}
76
      \clearscrheadfoot
77
       \ihead{\begin{minipage}[b][16mm]{0.48\textwidth}Applicant: \@Applicant\\Drug Product:
78
       \@DrugProduct\hspace{0pt}\end{minipage}}
79
       \ohead{\begin{minipage}[b][16mm]{0.48\textwidth}\raggedleft\@PharmRepTitle\hspace{0pt}\en
80
       \ifoot{\begin{minipage}[t][10mm]{0.3\textwidth}\vspace{0pt}\@eCTDno\end{minipage}}
81
       \cfoot{\begin{minipage}[t][10mm]{0.3\textwidth}\vspace{0pt}\centering\jobname{}\end{minip
82
       83
       \pagestyle{scrheadings}
84
Portrait- and Landscape-Format
85 \newcommand{\landscapeformat}{%
86
      \clearpage%
      \pdfpagewidth=\paperheight%
87
      \pdfpageheight=\paperwidth%
88
      \newgeometry{textwidth=600pt,left=50pt,top=60pt,bottom=60pt,includeheadfoot}}
90 \newcommand{\portraitformat}{%
      \clearpage%
91
92
      \pdfpagewidth=\paperwidth%
      \pdfpageheight=\paperheight%
93
      \restoregeometry}
Tables and figures
95 \renewcommand{\fps@table}{htbp}
96 \renewcommand{\fps@figure}{htbp}
97 \RequirePackage[justification=RaggedRight,singlelinecheck=false,labelfont=bf,hypcap=false]{ca
98 \RequirePackage{rotating}
99 \RequirePackage{booktabs}
100 \RequirePackage{multirow}
101 \RequirePackage{ltablex}
Lists
102 \RequirePackage{enumitem}
103
      \setlist[1]{parsep=4pt}
Notes and comments
104 \RequirePackage[backgroundcolor=orange!40,%
105
       linecolor=black!20!orange,%
106
       textsize=footnotesize,%
       colorinlistoftodos]{todonotes}
107
      \reversemarginpar
108
      \setlength{\marginparwidth}{20mm}
109
110
111 \RequirePackage[babel]{csquotes}
Bibliography
112 \RequirePackage[backend=biber,%
      style=authoryear,%
113
      ]{biblatex}
114
115 \RequirePackage{xpatch}% author bold
      \xpretobibmacro{author}{\mkbibbold\bgroup}{}{}
116
      \xapptobibmacro{author}{\egroup}{}{}
117
      \xpretobibmacro{bbx:editor}{\mkbibbold\bgroup}{}{}
118
      \xapptobibmacro{bbx:editor}{\egroup}{}{}
119
      \renewcommand*{\labelnamepunct}{\mkbibbold{\addcolon\space}}
120
121 \AtEndPreamble{%
      \ifdefempty{\@BibFileName}{%
122
         \ClassError{pharmrep}{You have to provide a bib file!}{Please use the macro
123
         \string\BibFileName{<MYFILE.bib>} in the preamble}}%
124
         {\addbibresource{\@BibFileName}}%
125
126 }%
```

```
Internal and external links, pdf meta data
127 \RequirePackage[pdftex,pdfa]{hyperref}%
128
      \AtEndPreamble{%
129
      \hypersetup{%
                         = {\@PharmRepTitle},%
130
         pdftitle
         pdfauthor
                         = {\@Applicant},%
131
                         = {\@eCTDno},%
         pdfsubject
132
         pdfkeywords
                         = \{\}, \%
133
         pdflang
                         = en,%
134
                         = true,%
135
         bookmarks
         pdfdisplaydoctitle = true,%
136
137
         plainpages
                        = false,%
138
         hypertexnames = false,%
         pdfpagelabels = true,%
139
         hyperindex
                        = true,%
140
                        = true,%
         unicode
141
                        = \{en\}, %
         pdfmetalang
142
                        = UseOutlines,%
         pdfpagemode
143
         bookmarksopen = true,%
144
         bookmarksnumbered = true, %
145
         bookmarksopenlevel = 2,%
146
                            = true,%
         colorlinks
147
         allcolors
                            = blue,%
148
149
         breaklinks
                            = true,%
         linktoc
                             = all, %
150
151
152 \mbox{\locality} {\do\f\do\m}{}{}
      \setcounter{biburllcpenalty}{9000}%
153
154
      \setcounter{biburlucpenalty}{9000}%
Glossary
155 \RequirePackage[nopostdot,nonumberlist,toc]{glossaries}
      \setlength{\glspagelistwidth}{\linewidth}
157 \RequirePackage{glossary-list}
158
      \setglossarystyle{list}
      \makenoidxglossaries
159
160 %
          \renewcommand{\glsnamefont}[1]{\bfseries #1}
161 \setcounter{tocdepth}{4}
162 \setcounter{secnumdepth}{4}
163~\%\% \land \texttt{AtBeginDocument} \land \texttt{Abb.} \}
164 %%%\addto\extrasenglish{\def\tableautorefname{table}}}
165 %%%\renewcaptionname{english}{\figureautorefname}{figure}
166 %%%\renewcaptionname{english}{\tableautorefname}{tab}
167 \newcommand*{\@Applicant}{}
168 \newcommand*{\@DrugProduct}{}
169 \newcommand*{\@PharmRepTitle}{}
170 \newcommand*{\@eCTDno}{}
171 \newcommand*{\@BibFileName}{}
172 \verb|\newcommand*{\Applicant}[1]{\renewcommand*{\QApplicant}{\#1}}|
173 \newcommand*{\DrugProduct}[1]{\renewcommand*{\@DrugProduct}{#1}}
174 \newcommand*{\PharmRepTitle}[1]{\renewcommand*{\@PharmRepTitle}{#1}}
175 \newcommand*{\eCTDno}[1]{\renewcommand*{\@eCTDno}{#1}}
176 \newcommand*{\BibFileName}[1]{\renewcommand*{\@BibFileName}{#1}}
177 \AtBeginDocument{%
178
      \listoftodos % List of ToDo's if at least 1 \todo{xxx} is present in the document
179
      \clearpage
180
      \pdfbookmark[1]{\@PharmRepTitle}{Sec:Title}
181
      \section*{\@PharmRepTitle}
182
183
      \bigskip
184
      \tableofcontents
185
186
      \clearpage
```

```
\ifnum\totvalue{table}>0
187
           \listoftables
188
           \clearpage
189
       \fi%
190
       \ifnum\totvalue{figure}>0
\listoffigures
191
192
           \clearpage
193
194
195
       \cleardoubleemptypage
196 }%
197 \langle / class \rangle
```