

The **a4wolke** bundle*

Stefan Berthold
stefan.berthold@kau.se

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1 Introduction

The **a4wolke** bundle provides L^AT_EX classes for creating documents with a layout similar to the one used in the A4Cloud project. The latest version can be obtained from

<http://github.com/ZjMNZHgG5jMXw/a4wolke> .

2 Usage

This template can be found in `a4template.tex`. The document declaration starts with defining the meta data.

```
1 \documentclass{a4wolke}
2 \usepackage[scaled=0.92]{helvet}
3 \meta{ title           = Document title
4   , number            = MS:X-1.1
5   , workpackage       = WP:X-1
6   , version           = 0.1
7   , organisation      = Partner
8   , dissemination     = CO
9   , contractdate      = dd/mm/yyyy
10  , delivery           = dd/mm/yyyy
11  , status             = template
12 }
13 }
```

An editor can be declared by using the macro `\editor`. More editors can be added by repeatedly declaring one editor.

```
14 \editor{ name          = editor's name
15   , affiliation        = editor's affiliation
16 }
```

A contributor can be declared by using the macro `\contributor`. More contributors can be added by repeatedly declaring one contributor.

```
17 \contributor{ name      = author's name
18   , affiliation         = author's affiliation
19 }
```

*This document corresponds to **a4wolke** v1.1, dated 2013/09/17.

A reviewer can be declared by using the macro `\reviewer`. More reviewers can be added by repeatedly declaring one reviewer.

```
20 \reviewer{ name          = reviewer's name
21           , affiliation = reviewer's affiliation
22           }
```

A revision can be declared by using the macro `\revision`. More revisions can be added by repeatedly declaring one revision.

```
23 \revision{ number      = 0.1
24           , date       = dd/mm/yyyy
25           , author     = author
26           , affiliation = affiliation
27           , change     = change description.
28 }
```

The document body starts with inserting the lists and tables of contributors, reviewers, revisions, and contents.

```
29 \begin{document}
30 \maketitle
31 \section*{Executive Summary}
32 \clearpage
33 \tableofcontents
```

The rest of the document may be written as any other L^AT_EX article.

```
34 \section{Introduction}
35 \begin{table}
36   \centering
37   \begin{a4tabular}{|r|l|}
38     fun & run \\
39     run & fun \\
40     fun & run \\ \hline
41   \end{a4tabular}
42   \caption{fun & run.}
43 \end{table}
44 \end{document}
45 \end{template}
```

3 Implementation

3.1 Class options and dependencies

Class options are neither parsed nor passed to the underlying `scrartcl` class. All macros are derived from the standard `scrartcl` class.

```
46 (*class)
47 \ProcessOptions\relax
48 \LoadClass{scrartcl}
49 \RequirePackage{scrpage2}
50 \RequirePackage{graphicx}
51 \RequirePackage{xkeyval}
52 \RequirePackage{datatool}
53 \DTLnewdb{editor}%
54 \DTLaddcolumn{editor}{name}%
55 \DTLaddcolumn{editor}{affil}%
56 \DTLnewdb{contrib}%
```

```

57 \DTLaddcolumn{contrib}{name}%
58 \DTLaddcolumn{contrib}{affil}%
59 \DTLnewdb{review}%
60 \DTLaddcolumn{review}{name}%
61 \DTLaddcolumn{review}{affil}%
62 \DTLnewdb{revision}%
63 \DTLaddcolumn{revision}{number}%
64 \DTLaddcolumn{revision}{date}%
65 \DTLaddcolumn{revision}{author}%
66 \DTLaddcolumn{revision}{affil}%
67 \DTLaddcolumn{revision}{change}%
68 \RequirePackage{colortbl}
69 \RequirePackage{tabularx}
70 \RequirePackage[table]{xcolor}
71 \RequirePackage{lastpage}
72 \renewcommand\familydefault\sfdefault

```

3.2 Project design

Arial, 10 (normal)
 Arial, 8 (footer)
 RGB: 45, 170, 225 (frame, title page rulers)
 RGB: 180, 207, 225 (alternative filling)
 RGB: 166, 166, 166 (footer)

```

73 \definecolor{cloudblueframe}{rgb}{0.176,0.667,0.882}%
74 \definecolor{cloudbluefill}{rgb}{0.706,0.812,0.882}%
75 \definecolor{cloudgreyfoot}{rgb}{0.651,0.651,0.651}%
76 \arrayrulecolor{cloudblueframe}%
77 \renewcommand\arraystretch{1.1}%
78 \clearscrheadings%
79 \renewcommand*\headfont{\normalfont\smallskip}
80 \renewcommand*\footfont{\normalfont\scriptsize\color{cloudgreyfoot}}
81 \setheadsepline{0.5pt}[\color{cloudblueframe}\hrulefill]
82 \lohead{\wol@meta@title}%
83 \lehead{\wol@meta@title}%
84 \lefoot{FP7-ICT-2011-8-317550-A4CLOUD}%
85 \lofoot{FP7-ICT-2011-8-317550-A4CLOUD}%
86 \refoot{Page~\textbf{\thepage}~of~\textbf{\pageref{LastPage}}}%
87 \rofoot{Page~\textbf{\thepage}~of~\textbf{\pageref{LastPage}}}%
88 \pagestyle{scrheadings}%
89 \defpagestyle{titlepage}{%
90   {}{}{%
91     \IfFileExists{A4cloud.pdf}%
92       {\includegraphics[scale=0.6]{A4cloud}}%
93       {[logo] mail stefan.berthold@kau.se for the logo image file}%
94     \hfill\medskip%
95   }%
96 }{%
97   {}{}{\parbox[b]{0.75\textwidth}{\scriptsize\color{cloudgreyfoot}%
98     A4Cloud\\%
99     \underline{www.a4cloud.eu}\\%
100    Accountability For Cloud and Other Future Internet Services\\[\baselineskip]}%

```

```

101     FP7-ICT-2011-8-317550-A4CLOUD%
102 } \hfill%
103 \parbox[b]{3cm}{\raggedleft%
104   \IfFileExists{seventh_framework_programme.jpg}%
105     {\includegraphics[width=28mm]{seventh_framework_programme}}%
106     {[logo] mail stefan.berthold@kau.se for the logo image file}}%
107 }%
108 }

```

3.3 Front matter

`\meta` $\{\langle meta data \rangle\}$ defines the document's meta data.

```

109 \define@cmdkeys[wol]{meta}[wol@meta@]%
110 { title
111   , number
112   , workpackage
113   , version
114   , organisation
115   , dissemination
116   , contractdate
117   , delivery
118   , status
119 }
120 \newcommand\meta[1]{\setkeys[wol]{meta}{#1}}

```

`\wol@maketitle` preserves the original definition of the title page.

```

121 \let\wol@maketitle=\maketitle

```

`\maketitle` creates the title page.

```

122 \renewcommand\maketitle{\par\noindent%
123   \newlength{\wol@headheight}\setlength{\wol@headheight}{\headheight}%
124   \setlength{\headheight}{1.2in}%
125   \thispagestyle{titlepage}%
126   \huge\wol@meta@title\medskip\par\noindent\normalsize%
127   \color{cloudblueframe}\rule{\textwidth}{0.5pt}\color{black}\bigskip\par\noindent%
128   \bfseries Deliverable Number: \normalfont\wol@meta@number\smallskip\par\noindent%
129   \bfseries Work Package: \normalfont\wol@meta@workpackage\smallskip\par\noindent%
130   \bfseries Version: \normalfont\wol@meta@version\smallskip\par\noindent%
131   \bfseries Deliverable Lead Organisation: \normalfont\wol@meta@organisation\smallskip\par\noindent%
132   \bfseries Dissemination Level: \normalfont\wol@meta@dissemination\smallskip\par\noindent%
133   \bfseries Contractual Date of Delivery (release): \normalfont\wol@meta@contractdate\smallskip\par\noindent%
134   \bfseries Date of Delivery: \normalfont\wol@meta@delivery\smallskip\par\noindent%
135   \bfseries Status: \normalfont\wol@meta@status\smallskip\par\noindent%
136   \color{cloudblueframe}\rule{\textwidth}{0.5pt}\color{black}\bigskip\bigskip\par\noindent%
137   \listofeditors\bigskip\par\noindent%
138   \listofcontributors\bigskip\par\noindent%
139   \listofreviewers%
140   \clearpage%
141   \vspace*{\stretch{1}}%
142   \par\noindent\bfseries Revision table\normalfont\medskip\par\noindent%
143   \tableofrevisions%
144   \vspace*{\stretch{3}}%
145   \setlength{\headheight}{\wol@headheight}%

```

```

146 \clearpage%
147 }

\wol@tableofcontents preserves the original definition of the table of contents.
148 \let\wol@tableofcontents=\tableofcontents

\tableofcontents prints the table of contents and finishes the page.
149 \renewcommand\tableofcontents{\wol@tableofcontents\clearpage}

\editor {<editor's information>} may be used multiple times and once for each editor.
150 \define@key[wol]{editor}{name}{%
151 \DTLnewdbentry{editor}{name}{#1}}
152 \define@key[wol]{editor}{affiliation}{%
153 \DTLnewdbentry{editor}{affil}{#1}}
154 \newcommand\editor[1]{%
155 \DTLnewrow{editor}%
156 \setkeys[wol]{editor}{#1}%
157 }

\listofeditors creates the list of editors.
158 \newcommand\listofeditors{%
159 \noindent%
160 \begin{tabularx}{\textwidth}{|X|}%
161 \rowcolor{cloudblueframe}
162 Editor\\ \hline%
163 \DTLforeach*{editor}%
164 {\name=name, \affil=affil}%
165 {\DTLiffirstrow{\name{} (\affil)}{, \name{} (\affil)}}%
166 \\ \hline%
167 \end{tabularx}\par%
168 }

\contributor {<contributor's information>} may be used multiple times and once for each contributor.
169 \define@key[wol]{contrib}{name}{%
170 \DTLnewdbentry{contrib}{name}{#1}}
171 \define@key[wol]{contrib}{affiliation}{%
172 \DTLnewdbentry{contrib}{affil}{#1}}
173 \newcommand\contributor[1]{%
174 \DTLnewrow{contrib}%
175 \setkeys[wol]{contrib}{#1}%
176 }

\listofcontributors creates the list of contributors.
177 \newcommand\listofcontributors{%
178 \noindent%
179 \begin{tabularx}{\textwidth}{|X|}%
180 \rowcolor{cloudblueframe}
181 Contributors\\ \hline%
182 \DTLforeach*{contrib}%
183 {\name=name, \affil=affil}%
184 {\DTLiffirstrow{\name{} (\affil)}{, \name{} (\affil)}}%
185 \\ \hline%
186 \end{tabularx}\par%
187 }

```

`\reviewer` $\{\langle review's information \rangle\}$ may be used multiple times and once for each reviewer.

```
188 \define@key[wol]{review}{name}{%
189   \DTLnewdbentry{review}{name}{#1}}
190 \define@key[wol]{review}{affiliation}{%
191   \DTLnewdbentry{review}{affil}{#1}}
192 \newcommand\reviewer[1]{%
193   \DTLnewrow{review}%
194   \setkeys[wol]{review}{#1}%
195 }
```

`\listofreviewers` creates the list to reviewers.

```
196 \newcommand\listofreviewers{%
197   \noindent%
198   \begin{tabularx}{\textwidth}{|X|}%
199     \rowcolor{cloudblueframe}
200     Reviewers\\hline%
201     \DTLforeach*{review}%
202       {\name=name, \affil=affil}%
203       {\DTLiffirstrow{\name{} (\affil)}{, \name{} (\affil)}}%
204     \\hline%
205   \end{tabularx}\par%
206 }
```

`\revision` $\{\langle revision information \rangle\}$ may be used multiple times and once for each revision.

```
207 \define@key[wol]{revision}{number}{%
208   \DTLnewdbentry{revision}{number}{#1}}
209 \define@key[wol]{revision}{date}{%
210   \DTLnewdbentry{revision}{date}{#1}}
211 \define@key[wol]{revision}{author}{%
212   \DTLnewdbentry{revision}{author}{#1}}
213 \define@key[wol]{revision}{affiliation}{%
214   \DTLnewdbentry{revision}{affil}{#1}}
215 \define@key[wol]{revision}{change}{%
216   \DTLnewdbentry{revision}{change}{#1}}
217 \newcommand\revision[1]{%
218   \DTLnewrow{revision}%
219   \setkeys[wol]{revision}{#1}%
220 }
```

`\tableofrevisions` creates the table of revisions.

```
221 \newcommand\tableofrevisions{%
222   \noindent%
223   \begin{tabularx}{\textwidth}{|l|l|p{4cm}|X|}%
224     \rowcolor{cloudblueframe}
225     Version & Date & Author & Change Description%
226     \DTLforeach*{revision}%
227       {\num=number, \dat=date, \auth=author, \affil=affil, \change=change}%
228       {\hline\DTLifoddrow{\rowcolor{white}}{\rowcolor{cloudbluefill}}}%
229       \num & \dat & \auth{} (\affil) & \change}%
230     \hline%
231   \end{tabularx}\par%
232 }
```

3.4 Main matter

```
a4tabular  {\langle column defs \rangle}
233 \newenvironment{a4tabular}[1]{%
234     \rowcolors{2}{cloudbluefill}{}%
235     \begin{tabular}{#1}%
236     \rowcolor{cloudblueframe}%
237     }%
238     {\end{tabular}}
239 \end{class}
```