

The **a4wolke** bundle*

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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 \*template>
2 \documentclass{a4wolke}
3 \usepackage[scaled=0.92]{helvet}
4 \meta{ title           = Document title
5       , number         = MS:X-1.1
6       , workpackage     = WP:X-1
7       , version         = 0.1
8       , organisation    = Partner
9       , dissemination   = CO
10      , contractdate    = dd/mm/yyyy
11      , delivery        = dd/mm/yyyy
12      , status          = template
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** v1.0, dated 2013/09/12.

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 \end{document}
36 \end{template}
```

3 Implementation

3.1 Class options and dependencies

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

```
37 (*class)
38 \ProcessOptions\relax
39 \LoadClass{scrartcl}
40 \RequirePackage{scrpage2}
41 \RequirePackage{graphicx}
42 \RequirePackage{xkeyval}
43 \RequirePackage{datatool}
44 \DTLnewdb{editor}%
45 \DTLaddcolumn{editor}{name}%
46 \DTLaddcolumn{editor}{affil}%
47 \DTLnewdb{contrib}%
48 \DTLaddcolumn{contrib}{name}%
49 \DTLaddcolumn{contrib}{affil}%
50 \DTLnewdb{review}%
51 \DTLaddcolumn{review}{name}%
52 \DTLaddcolumn{review}{affil}%
53 \DTLnewdb{revision}%
54 \DTLaddcolumn{revision}{number}%
55 \DTLaddcolumn{revision}{date}%
56 \DTLaddcolumn{revision}{author}%
```

```

57 \DTLaddcolumn{revision}{affil}%
58 \DTLaddcolumn{revision}{change}%
59 \RequirePackage{colortbl}
60 \RequirePackage{tabularx}
61 \RequirePackage{xcolor}
62 \RequirePackage{lastpage}
63 \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)

```

64 \definecolor{cloudblueframe}{rgb}{0.176,0.667,0.882}%
65 \definecolor{cloudbluefill}{rgb}{0.706,0.812,0.882}%
66 \definecolor{cloudgreyfoot}{rgb}{0.651,0.651,0.651}%
67 \arrayrulecolor{cloudblueframe}%
68 \renewcommand\arraystretch{1.1}%
69 \clearscrheadings%
70 \renewcommand*{\headfont}{\normalfont\smallskip}
71 \renewcommand*{\footfont}{\normalfont\scriptsize\color{cloudgreyfoot}}
72 \setheadsepline{0.5pt}[\color{cloudblueframe}\hrulefill]
73 \lohead{\wol@meta@title}%
74 \lehead{\wol@meta@title}%
75 \lefoot{FP7-ICT-2011-8-317550-A4CLOUD}%
76 \lofoot{FP7-ICT-2011-8-317550-A4CLOUD}%
77 \refoot{Page~\textbf{\thepage}~of~\textbf{\pageref{LastPage}}}%
78 \rofoot{Page~\textbf{\thepage}~of~\textbf{\pageref{LastPage}}}%
79 \pagestyle{scrheadings}%
80 \defpagestyle{titlepage}{%
81   {}{}{\includegraphics[scale=0.6]{A4cloud}\hfill\medskip}%
82 }{%
83   {}{}{\parbox[b]{0.75\textwidth}{\scriptsize\color{cloudgreyfoot}%
84     A4Cloud\\%
85     \underline{www.a4cloud.eu}\\%
86     Accountability For Cloud and Other Future Internet Services\\[\baselineskip]%
87     FP7-ICT-2011-8-317550-A4CLOUD%
88   }\hfill%
89   \parbox[b]{3cm}{\raggedleft\includegraphics[width=28mm]{seventh_framework_programme}}}%
90 }%
91 }

```

3.3 Front matter

`\meta` {*<meta data>*} defines the document's meta data.

```

92 \define@cmdkeys[wol]{meta}{wol@meta@}%
93 { title
94   , number
95   , workpackage
96   , version

```

```

97   , organisation
98   , dissemination
99   , contractdate
100  , delivery
101  , status
102 }
103 \newcommand\meta[1]{\setkeys[wol]{meta}{#1}}

\wol@maketitle preserves the original definition of the title page.
104 \let\wol@maketitle=\maketitle

\maketitle creates the title page.
105 \renewcommand\maketitle{\par\noindent%
106   \newlength{\wol@headheight}\setlength{\wol@headheight}{\headheight}%
107   \setlength{\headheight}{1.2in}%
108   \thispagestyle{titlepage}%
109   \huge\wol@meta@title\medskip\par\noindent\normalsize%
110   \color{cloudbblueframe}\rule{\textwidth}{0.5pt}\color{black}\bigskip\par\noindent%
111   \bfseries Deliverable Number: \normalfont\wol@meta@number\smallskip\par\noindent%
112   \bfseries Work Package: \normalfont\wol@meta@workpackage\smallskip\par\noindent%
113   \bfseries Version: \normalfont\wol@meta@version\smallskip\par\noindent%
114   \bfseries Deliverable Lead Organisation: \normalfont\wol@meta@organisation\smallskip\par\noindent%
115   \bfseries Dissemination Level: \normalfont\wol@meta@dissemination\smallskip\par\noindent%
116   \bfseries Contractual Date of Delivery (release): \normalfont\wol@meta@contractdate\smallskip\par\noindent%
117   \bfseries Date of Delivery: \normalfont\wol@meta@delivery\smallskip\par\noindent%
118   \bfseries Status: \normalfont\wol@meta@status\smallskip\par\noindent%
119   \color{cloudbblueframe}\rule{\textwidth}{0.5pt}\color{black}\bigskip\bigskip\par\noindent%
120   \listofeditors\bigskip\par\noindent%
121   \listofcontributors\bigskip\par\noindent%
122   \listofreviewers%
123   \clearpage%
124   \vspace*{\stretch{1}}%
125   \par\noindent\bfseries Revision table\normalfont\medskip\par\noindent%
126   \tableofrevisions%
127   \vspace*{\stretch{3}}%
128   \setlength{\headheight}{\wol@headheight}%
129   \clearpage%
130 }

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

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

\editor {\langle editor's information \rangle} may be used multiple times and once for each editor.
133 \define@key[wol]{editor}{name}{%
134   \DTLnewdbentry{editor}{name}{#1}}
135 \define@key[wol]{editor}{affiliation}{%
136   \DTLnewdbentry{editor}{affil}{#1}}
137 \newcommand\editor[1]{%
138   \DTLnewrow{editor}%
139   \setkeys[wol]{editor}{#1}%
140 }

```

`\listofeditors` creates the list of editors.

```

141 \newcommand\listofeditors{%
142   \noindent%
143   \begin{tabularx}{\textwidth}{|X|}%
144     \rowcolor{cloudblueframe}
145     Editor\\hline%
146     \DTLforeach*{editor}%
147       {\name=name, \affil=affil}%
148       {\DTLiffirstrow{\name{} (\affil)}}{, \name{} (\affil)}}%
149     \\hline%
150   \end{tabularx}\par%
151 }
```

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

```

152 \define@key[wol]{contrib}{name}{%
153   \DTLnewdbentry{contrib}{name}{#1}}
154 \define@key[wol]{contrib}{affiliation}{%
155   \DTLnewdbentry{contrib}{affil}{#1}}
156 \newcommand\contributor[1]{%
157   \DTLnewrow{contrib}%
158   \setkeys[wol]{contrib}{#1}%
159 }
```

`\listofcontributors` creates the list of contributors.

```

160 \newcommand\listofcontributors{%
161   \noindent%
162   \begin{tabularx}{\textwidth}{|X|}%
163     \rowcolor{cloudblueframe}
164     Contributors\\hline%
165     \DTLforeach*{contrib}%
166       {\name=name, \affil=affil}%
167       {\DTLiffirstrow{\name{} (\affil)}}{, \name{} (\affil)}}%
168     \\hline%
169   \end{tabularx}\par%
170 }
```

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

```

171 \define@key[wol]{review}{name}{%
172   \DTLnewdbentry{review}{name}{#1}}
173 \define@key[wol]{review}{affiliation}{%
174   \DTLnewdbentry{review}{affil}{#1}}
175 \newcommand\reviewer[1]{%
176   \DTLnewrow{review}%
177   \setkeys[wol]{review}{#1}%
178 }
```

`\listofreviewers` creates the list to reviewers.

```

179 \newcommand\listofreviewers{%
180   \noindent%
181   \begin{tabularx}{\textwidth}{|X|}%
182     \rowcolor{cloudblueframe}
183     Reviewers\\hline%
```

```

184 \DTLforeach*{review}%
185   {\name=name, \affil=affil}%
186   {\DTLiffirstrow{\name{} (\affil)}{, \name{} (\affil)}}}%
187   \\hline%
188 \end{tabularx}\par%
189 }

```

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

```

190 \define@key[wol]{revision}{number}{%
191   \DTLnewdbentry{revision}{number}{#1}}
192 \define@key[wol]{revision}{date}{%
193   \DTLnewdbentry{revision}{date}{#1}}
194 \define@key[wol]{revision}{author}{%
195   \DTLnewdbentry{revision}{author}{#1}}
196 \define@key[wol]{revision}{affiliation}{%
197   \DTLnewdbentry{revision}{affil}{#1}}
198 \define@key[wol]{revision}{change}{%
199   \DTLnewdbentry{revision}{change}{#1}}
200 \newcommand\revision[1]{%
201   \DTLnewrow{revision}%
202   \setkeys[wol]{revision}{#1}%
203 }

```

`\tableofrevisions` creates the table of revisions.

```

204 \newcommand\tableofrevisions{%
205   \noindent%
206   \begin{tabularx}{\textwidth}{|l|l|p{4cm}|X|}%
207     \rowcolor{cloudblueframe}
208     Version & Date & Author & Change Description%
209     \DTLforeach*{revision}%
210       {\num=number, \dat=date, \auth=author, \affil=affil, \change=change}%
211       {\hline\DTLifoddrow{\rowcolor{white}}{\rowcolor{cloudbluefill}}}%
212       \num & \dat & \auth{} (\affil) & \change}%
213     \hline%
214   \end{tabularx}\par%
215 }

```

3.4 Main matter

`a4table`

```

216 \newenvironment{a4table}{}{}
217 \</class>

```