

# The **a4wolke** bundle\*

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## 1 Introduction

The **a4wolke** bundle provides L<sup>A</sup>T<sub>E</sub>X 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 }
```

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\*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  $\text{\LaTeX}$  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 `scrartcl` 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   {}{}{%
82     \IfFileExists{A4cloud.pdf}%
83       {\includegraphics[scale=0.6]{A4cloud}}%
84       {[logo] mail stefan.berthold@kau.se for the logo image file}%
85     \hfill\medskip%
86   }%
87 }{%
88   {}{}{\parbox[b]{0.75\textwidth}{\scriptsize\color{cloudgreyfoot}%
89     A4Cloud\\%
90     \underline{www.a4cloud.eu}\\%
91     Accountability For Cloud and Other Future Internet Services\\[\baselineskip]%
92     FP7-ICT-2011-8-317550-A4CLOUD%
93   }\hfill%
94   \parbox[b]{3cm}{\raggedleft%
95     \IfFileExists{seventh_framework_programme.jpg}%
96       {\includegraphics[width=28mm]{seventh_framework_programme}}%
97       {[logo] mail stefan.berthold@kau.se for the logo image file}}%
98   }%
99 }

```

### 3.3 Front matter

`\meta` `{⟨meta data⟩}` defines the document's meta data.

```
100 \define@cmdkeys[wol]{meta}[wol@meta@]%
101 { title
102   , number
103   , workpackage
104   , version
105   , organisation
106   , dissemination
107   , contractdate
108   , delivery
109   , status
110 }
111 \newcommand\meta[1]{\setkeys[wol]{meta}{#1}}
```

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

```
112 \let\wol@maketitle=\maketitle
```

`\maketitle` creates the title page.

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

`\wol@tableofcontents` preserves the original definition of the table of contents.

```
139 \let\wol@tableofcontents=\tableofcontents
```

`\tableofcontents` prints the table of contents and finishes the page.

```
140 \renewcommand\tableofcontents{\wol@tableofcontents\clearpage}
```

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

```

141 \define@key[wol]{editor}{name}{%
142   \DTLnewdbentry{editor}{name}{#1}}
143 \define@key[wol]{editor}{affiliation}{%
144   \DTLnewdbentry{editor}{affil}{#1}}
145 \newcommand\editor[1]{%
146   \DTLnewrow{editor}%
147   \setkeys[wol]{editor}{#1}%
148 }
```

`\listofeditors` creates the list of editors.

```

149 \newcommand\listofeditors{%
150   \noindent%
151   \begin{tabularx}{\textwidth}{|X|}%
152     \rowcolor{cloudblueframe}
153     Editor\\hline%
154     \DTLforeach*{editor}%
155       {\name=name, \affil=affil}%
156       {\DTLiffirstrow{\name{} (\affil)}{, \name{} (\affil)}}%
157     \\hline%
158   \end{tabularx}\par%
159 }
```

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

```

160 \define@key[wol]{contrib}{name}{%
161   \DTLnewdbentry{contrib}{name}{#1}}
162 \define@key[wol]{contrib}{affiliation}{%
163   \DTLnewdbentry{contrib}{affil}{#1}}
164 \newcommand\contributor[1]{%
165   \DTLnewrow{contrib}%
166   \setkeys[wol]{contrib}{#1}%
167 }
```

`\listofcontributors` creates the list of contributors.

```

168 \newcommand\listofcontributors{%
169   \noindent%
170   \begin{tabularx}{\textwidth}{|X|}%
171     \rowcolor{cloudblueframe}
172     Contributors\\hline%
173     \DTLforeach*{contrib}%
174       {\name=name, \affil=affil}%
175       {\DTLiffirstrow{\name{} (\affil)}{, \name{} (\affil)}}%
176     \\hline%
177   \end{tabularx}\par%
178 }
```

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

```

179 \define@key[wol]{review}{name}{%
180   \DTLnewdbentry{review}{name}{#1}}
181 \define@key[wol]{review}{affiliation}{%
182   \DTLnewdbentry{review}{affil}{#1}}
183 \newcommand\reviewer[1]{%
```

```

184 \DTLnewrow{review}%
185 \setkeys[wol]{review}{#1}%
186 }

```

`\listofreviewers` creates the list to reviewers.

```

187 \newcommand\listofreviewers{%
188 \noindent%
189 \begin{tabularx}{\textwidth}{|X|}%
190 \rowcolor{cloudblueframe}
191 Reviewers\\hline%
192 \DTLforeach*{review}%
193 {\name=name, \affil=affil}%
194 {\DTLiffirstrow{\name{}} (\affil)}{, \name{}} (\affil)}}%
195 \\hline%
196 \end{tabularx}\par%
197 }

```

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

```

198 \define@key[wol]{revision}{number}{%
199 \DTLnewdbentry{revision}{number}{#1}}
200 \define@key[wol]{revision}{date}{%
201 \DTLnewdbentry{revision}{date}{#1}}
202 \define@key[wol]{revision}{author}{%
203 \DTLnewdbentry{revision}{author}{#1}}
204 \define@key[wol]{revision}{affiliation}{%
205 \DTLnewdbentry{revision}{affil}{#1}}
206 \define@key[wol]{revision}{change}{%
207 \DTLnewdbentry{revision}{change}{#1}}
208 \newcommand\revision[1]{%
209 \DTLnewrow{revision}%
210 \setkeys[wol]{revision}{#1}%
211 }

```

`\tableofrevisions` creates the table of revisions.

```

212 \newcommand\tableofrevisions{%
213 \noindent%
214 \begin{tabularx}{\textwidth}{|l|l|p{4cm}|X|}%
215 \rowcolor{cloudblueframe}
216 Version & Date & Author & Change Description%
217 \DTLforeach*{revision}%
218 {\num=number, \dat=date, \auth=author, \affil=affil, \change=change}%
219 {\\\hline\DTLifoddrow{\rowcolor{white}}{\rowcolor{cloudbluefill}}}%
220 \num & \dat & \auth{} (\affil) & \change}%
221 \\hline%
222 \end{tabularx}\par%
223 }

```

### 3.4 Main matter

`a4table`

```

224 \newenvironment{a4table}{}{}
225 \end{class}

```