The KOMA-pagestyle-package*

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This is scrpage.sty. This obsolete package is part of the KOMA-script-bundle. It defines an user interface for pagestyle-definition. It's something like fancyheadings but not the same. You may use scrpage or fancyhdr. You may use scrpage with standard classes, too. Note: Package scrpage was replaced by package scrpage2 and that was replaced by scrlayer-scrpage. The manual for package scrlayer-scrpage is part of the KOMA-Script guide.

Contents

1	Intro	oduction 2
	1.1	Interface for all users
	1.2	Interface for experts
	1.3	Configuration file
	1.4	Example
2	lmpl	ementation 5
	2.1	Options
	2.2	Some Initialisation
	2.3	Predefinitions
	2.4	Expert-Pagestyle-Definition-Interface
	2.5	User-Pagestyle-Definition-Interface
	2.6	Width of head and foot
	2.7	Fonts
	2.8	Extended multilanguage formats
	2.9	Configurationfile
	0.10	En J

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1 Introduction

There is a simple user-interface and a expert-interface. Using the user-interface you can define a lot of different pagestyles. But there are combinations, you cannot define. Using the expert-interface you can do allmost all you may ever want. To do more, you should learn more about defining macros yourself.

1.1 Interface for all users

\headfont

This font is used to write page heads and foots. You may change it using \renewcommand, e.g. \renewcommand\headfont{\normalfont\slshape}.

\footfont

This ${\rm different}$ font foots is used towritepage page heads. You may change itusing \renewcommand, e.g. \renewcommand\footfont{\normalfont\slshape}.

\headmark

Using twoside-option this is \leftmark at left/even pages and \rightmark at right/odd pages. Using oneside-option there are only right pages, so it is \rightmark.

\pnumfont

This font is used to write pagenumbers at \pagemark. You may change it using \renewcommand (see \headfont).

\pagemark

This is the number of the actual page written with \pnumfont.

\deftripstyle \deftripstyle* The command $\deftripstyle\{\langle name\rangle\}[\langle olw\rangle][\langle ilw\rangle]\{\langle headleft\rangle\}\{\langle headmiddle\rangle\}\{\langle headright\rangle\}\{\langle footleft\rangle\}\{\langle footmiddle\rangle\}\{\langle footright\rangle\}\}$ defines a new pagestyle. You can activate this pagestyle using **\pagestyle** or **\thispagestyle**. Without optional argument this defines a page like this:

$\lceil headright \rceil$	head middle	$headleft_{\perp \perp} headleft$	head middle	- $ -$
1				l I
İ		i i		İ
1		11		1
				1
İ		ii		İ
1	1 6	11	.14	1
	left page		right page	1
İ		i i		İ
1		11		1
				1
İ		i i		İ
		11		1
	e			ا ا
footright _	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$footleft \ \ footleft$	footmiddle	$_footright$

Using one optional argument $[\langle ilw \rangle]$ (means inner line width) you get a separationline between head and text and between text and foot like this (ilw=0.5pt):

head right	head middle	headleft $headleft$	head middle	head right
I				1
I				1
I				1
I I				1
 	left page		right page	1
I				1
I				1
I				1
 	f , 111		f , 111	- <u> </u>
footright	footmiddle	footleft $footleft$	footmiddle	footright

Using both optional arguments $[\langle olw \rangle]$ (means outer line width) and $[\langle ilw \rangle]$ you get a separationline between head and text and between text and foot and a line above head and below foot like this (olw=2pt, ilw=0.5pt):

head right	head middle	headleft $headleft$	head middle	head right
 		11		
 	left page	11	right page	
 	ieit page	11	rigiit page	
! 		11		
' 		11		
' 		11		
footright	footmiddle	<u>footleft</u> <u>footleft</u>	footmiddle	footright

You can define new pagestyles and you can redefine existing pagestyles. If you redefine an active pagestyle, this doesn't change the actual shown pagestyle. To activate you have to use always a \pagestyle- or \thispagestyle-command.

You can change the standard pagestyle headings to. If you want to change pagestyle myheadings, you should use the star-version of the command:

1.2 Interface for experts

\defpagestyle

Command $\defpagestyle{\langle name \rangle} {\langle head\text{-}definition \rangle} {\langle foot\text{-}definition \rangle}$ defines a new pagestyle name. head-definition defines the head at the new pagestyle. It contains five parts:

```
(toplinelength, toplinewidth)
\{\langle evenpagehead \rangle\}\{\langle oddpagehead \rangle\}\{\langle onesidepagehead \rangle\}
(headseplinelength, headseplinewidth)
```

These five parts have to be **one** argument! So you should put them together in group-braces ("{" and "}").

foot-definition analogous defines the foot at the new pagestyle.

\newpagestyle

Command $\ensuremath{\mbox{newpagestyle}}{\langle name\rangle}{\langle head\text{-}definition\rangle}{\langle foot\text{-}definition\rangle}{}$ defines a real new pagestyle. If there's already a pagestyle named name, you'll get an error. Otherwise it's the same like $\ensuremath{\mbox{defpagestyle}}$.

\renewpagestyle

Command \renewpagestyle{ $\langle name \rangle$ }{ $\langle head\text{-}definition \rangle$ }{ $\langle foot\text{-}definition \rangle$ } redefines a old pagestyle. If there isn't a pagestyle named name, you'll get an error. Otherwise it's the same like \defpagestyle.

\providepagestyle

Command $\providepagestyle{\langle name \rangle}{\langle head\text{-}definition \rangle}{\langle foot\text{-}definition \rangle}$ defines a new pagestyle, if it is realy new. If there is already a pagestyle named name, it does nothing (but writing an info to the log file). Otherwise it's the same like $\ensuremath{\mbox{-}defpagestyle}$.

You may use the user-interface-macros \pagemark and \headmark, too.

1.3 Configuration file

There's a configuration file scrpage.cfg, included at the end of scrpage.sty, if it exists. There you can define your own default pagestyles using all the commands above.

1.4 Example

The pagestyles of this documentation was defined using:

```
\renewpagestyle{headings}{(\textwidth,1pt)%
                 {\headmark\hfill}{\hfill\headmark}{\hfill\headmark\hfill}%
                 (\textwidth,.4pt)}%
                {(\textwidth,.4pt)%
                 {\pagemark\hfill%
                 Copyright \copyright\ Markus Kohm, 1994--2002}%
                 {Package \texttt{scrpage}\hfill\pagemark}%
                 {\rlap{Package \texttt{scrpage}}\hfill%
                  Copyright \copyright \ Markus Kohm, 1994--2002 \hfill%
                  \llap\pagemark}%
                 (\textwidth,1pt)}
\renewpagestyle{plain}{(\textwidth,1pt)%
                        {\tilde{\lambda}}_{\tilde{\lambda}}_{\tilde{\lambda}}
                        (\textwidth, .4pt)}%
                       {(\textwidth,.4pt)%
                        {\pagemark\hfill}%
                        {\hfill\pagemark}%
                        {\hfill\pagemark\hfill}%
                        (\textwidth,1pt)}
\pagestyle{headings} % activate new version
```

2 Implementation

1 (*scrpage)

2.1 Options

headinclude headexclude footinclude footexclude

scrpage knows some options. They are similar to the KOMA-script-classes. To work with and without the KOMA-script-classes their definitions are not quite simple.

```
2 \DeclareOption{headinclude}{%
4 }
5 \DeclareOption{headexclude}{%
   \PassOptionsToPackage{headexclude}{typearea}%
6
7 }
8 \DeclareOption{footinclude}{%
   \PassOptionsToPackage{footinclude}{typearea}%
10 }
11 \DeclareOption{footexclude}{%
   \PassOptionsToPackage{footexclude}{typearea}%
13 }
```

We do so, because we want so set headinglude, footinglude by default at old version (see below)!

Set the default options.

14 \ExecuteOptions{headinclude,footinclude}

But you may set other Options:

15 \ProcessOptions\relax

2.2 Some Initialisation

For easier handling of the differences between article-, report- and bookclasses we define some more switches.

\if@chapter First distinguish between article and others.

```
16 \newif\if@chapter
```

17 \begingroup\expandafter\expandafter\expandafter\endgroup

18 \expandafter\ifx\csname chapter\endcsname\relax

19 \@chapterfalse

20 \else

\@chaptertrue 21

22 \fi

\if@mainmatter

Next distinguish between matter- and nomatter-classes.

```
23 \def\@tempa{\newif\if@mainmatter\@mainmattertrue}
```

24 \begingroup\expandafter\expandafter\expandafter\endgroup

25 \expandafter\ifx\csname mainmatter\endcsname\relax

26 \else

\let\@tempa\relax 27

```
28 \fi
29 \@tempa
```

2.3 Predefinitions

There are some commands, you can use at pagestyle-definition.

This macro is \rightmark or \leftmark. But outside pagestyle-definition \headmark it's nothing.

30 \let\headmark\relax

This macro is the number of the page at the pagenumber font: \pagemark

31 \DeclareRobustCommand\pagemark{{\pnumfont\thepage}}

2.4 Expert-Pagestyle-Definition-Interface

The pagestyle-definition-interface for experts is not as easy as the simple interface we'll define later. But it's more flexible. We'll later use it to define the pagestyle-definition-interface for users.

\defpagestyle First we define the simple definition-interface. There's no test, if the pagestyle's defined twice.

First there has to be the definition of head and foot.

32 \def\defpagestyle{%

We have to decide, whether it is a my-version or not:

- \@ifstar
- {\@defpagestyle[-]}% 34
- {\@defpagestyle[+]}}

\@defpagestyle

Now the we can define the head and the foot. Before version 2.5 we have distinguished one- and two-side definitions while loading the package and have had all the definitions of \@mkboth, \chaptermark, \sectionmark, and \subsectionmark at the definition of the page style. This was a lot of code:

```
36 \setminus if@twoside
    \def\@defpagestyle[#1]#2#3#4{\%}
37
       \expandafter\def\csname ps@#2\endcsname{%
38
39
         \def\@tempa{+}%
         \def\@tempb{#1}%
40
41
         \ifx\@tempa\@tempb
           \let\@mkboth\markboth
42
           \if@chapter
43
             \def\chaptermark###1{%
44
               \markboth {\ifnum \c@secnumdepth >\m@ne%
45
                 \if@mainmatter\chaptermarkformat\fi\fi ####1}{%
46
47
                 \ifnum \c@secnumdepth >\m@ne%
                 \if@mainmatter\chaptermarkformat\fi\fi ####1}}%
48
```

```
49
             \def\sectionmark###1{%
               \markright {\ifnum \c@secnumdepth >\z@%
50
                 \sectionmarkformat\fi ####1}}%
51
52
          \else
             \def\sectionmark###1{%
53
               \markboth {\ifnum \c@secnumdepth >\z@%
54
                 \if@mainmatter\sectionmarkformat\fi\fi ####1}{%
55
                 \ifnum \c@secnumdepth >\z@%
56
                 \if@mainmatter\sectionmarkformat\fi\fi ####1}}%
57
             \def\subsectionmark####1{%
58
               \markright {\ifnum \c@secnumdepth >\@ne%
59
60
                 \subsectionmarkformat\fi ####1}}%
61
          \fi
62
        \else
          \let\@mkboth\@gobbletwo
63
          \if@chapter
64
             \def\chaptermark###1{}%
65
66
           \else
             \def\subsectionmark###1{}%
67
68
           \fi
           \def\sectionmark####1{}%
69
        \fi
70
71
        \def@twosidehead#3
72
        \def@twosidefoot#4
73
    }
74
75 \else
76
    \def\@defpagestyle[#1]#2#3#4{%
      \expandafter\def\csname ps@#2\endcsname{%
77
        \def\@tempa{+}%
78
        \def\@tempb{#1}%
79
80
        \ifx\@tempa\@tempb
81
           \let\@mkboth\markboth
          \if@chapter
82
             \def\chaptermark###1{%
83
               \markright {\ifnum \c@secnumdepth >\m@ne%
84
                 \if@mainmatter\chaptermarkformat\fi\fi ####1}}%
85
             \def\sectionmark####1{}%
86
87
          \else
             \def\sectionmark####1{%
88
               \markright{\ifnum \c@secnumdepth >\z@%
89
                 \if@mainmatter\sectionmarkformat\fi\fi ####1}}%
90
91
             \def\subsectionmark###1{}%
          \fi
92
        \else
93
          \let\@mkboth\@gobbletwo
94
95
          \if@chapter
             \def\chaptermark###1{}%
96
97
           \else
```

```
98
                                                                                                                              \def\subsectionmark###1{}%
                                                                            99
                                                                                                                      \def\sectionmark####1{}%
                                                                         100
                                                                                                              \fi
                                                                         101
                                                                                                              \def@onesidehead#3
                                                                         102
                                                                                                              \def@onesidefoot#4
                                                                         103
                                                                         104
                                                                                             }
                                                                         105
                                                                         106 \fi
   \def@twosidehead
\def\@evenhead{\let\headmark\leftmark%
                                                                                                      \hss\hskip\@evenheadshift\vbox{\hsize=\@headwidth\relax%
                                                                         109
                                                                                                              \footnote{1}{\#2}{\c Oheadwidth}%
                                                                         110
                                                                                                              \vskip#2
                                                                         111
                                                                                                              \vskip\baselineskip
                                                                         112
                                                                                                              \hb@xt@\@headwidth{{%
                                                                         113
                                                                                                                               \headfont\strut #3}}%
                                                                         114
                                                                         115
                                                                                                              \footnote{$1$}{$7}{\c headwidth}%
                                                                                             }\hskip\@oddheadshift\hss}%
                                                                         116
                                                                                             \def\@oddhead{\let\headmark\rightmark
                                                                         117
                                                                                                      \hss\hskip\@oddheadshift\vbox{\hsize=\@headwidth\relax
                                                                         118
                                                                                                              \footnote{1}{\#2}{\coloredge} \
                                                                         119
                                                                         120
                                                                                                              \vskip#2%
                                                                                                              \vskip\baselineskip
                                                                         121
                                                                                                              \hb@xt@\@headwidth{{%
                                                                         199
                                                                         123
                                                                                                                              \headfont\strut #4}}%
                                                                                                              \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \footnote{$1$} \foo
                                                                         124
                                                                         125
                                                                                             }\hskip\@evenheadshift\hss}%
                                                                         126 }
                                                                         127 % \end{macro}
                                                                         128 % \end{macro}
                                                                         129 % \begin{macro}{\def@onesidehead}
                                                                                                      \changes{v1.3}{2001/03/30}{Use of \cmd\changesdidth instead of \changes{v1.3}{2001/03/30}{Use of \cmd\changesdidth instead of \changes{v1.3}{2001/03/30}{Use of \cmd\changesdidth instead of \changes{v1.3}{2001/03/30}{Use of \cmd\changesdidth instead of \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth instead \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changesdidth \changes
                                                                         130 %
                                                                         131 %
                                                                                                              \cs{textwidth}}
                                                                         132 % \begin{macro}{\def@@onesidehead}
                                                                         133 % \begin{macro}{\def@@@onesidehead}
                                                                         134 % Next the onesided head:
                                                                         135 %
                                                                                                         \begin{macrocode}
                                                                         136 \det \det (\#1, \#2) \#3\#4\#5 (\#6, \#7) {\%}
                                                                         137
                                                                                             \def\@evenhead{}%
                                                                                             \def\@oddhead{\let\headmark\rightmark
                                                                         138
                                                                                                      \hss\hskip\@oddheadshift\vbox{\hsize=\@headwidth\relax
                                                                         139
                                                                         140
                                                                                                              \footnote{1}{\#2}{\coloredge} \
                                                                         141
                                                                                                              \vskip#2%
                                                                                                              \vskip\baselineskip
                                                                         142
                                                                                                              \hb@xt@\@headwidth{{%
                                                                         143
                                                                                                                               \headfont\strut #5}}%
                                                                         144
```

```
\footnote{$1$}{$47}{\Omega}
                                                                             145
                                                                             146
                                                                                                 }\hskip\@evenheadshift\hss}%
                                                                             147 }
       \def@twosidefoot Next the twosided foot:
   \label{lem:condition} $$ \def@twosidefoot(\#1,\#2)\#3\#4\#5(\#6,\#7)_{\%} $$
\def@@@twosidefoot 149
                                                                                                  \def\@evenfoot{\let\headmark\leftmark
                                                                             150
                                                                                                          \hss\hskip\@evenfootshift\vbox{\hsize=\@footwidth\relax
                                                                             151
                                                                                                                  \topfoot@rule{#1}{#2}\hb@xt@\@footwidth{{%
                                                                             152
                                                                                                                                   \headfont\footfont\strut #3}}%
                                                                                                                  \botfoot@rule{#6}{#7}}\hskip\@oddfootshift\hss}%
                                                                             153
                                                                                                  \def\@oddfoot{\let\headmark\rightmark
                                                                             154
                                                                                                           \hss\hskip\@oddfootshift\vbox{\hsize=\@footwidth\relax
                                                                             155
                                                                                                                  \topfoot@rule{#1}{#2}\hb@xt@\@footwidth{{%
                                                                             156
                                                                                                                                   \headfont\footfont\strut #4}}%
                                                                             157
                                                                                                                  \botfoot@rule{#6}{#7}}\hskip\@evenfootshift\hss}%
                                                                             158
                                                                             159 }
       \def@onesidefoot
   \label{lem:consider} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end{area} $$ \end
\def@@@onesidefoot 161
                                                                                                  \def\@evenfoot{}%
                                                                             162
                                                                                                  \def\@oddfoot{\let\headmark\rightmark
                                                                                                           \hss\hskip\@oddfootshift\vbox{\hsize=\@footwidth\relax
                                                                             163
                                                                                                                  \topfoot@rule{#1}{#2}\hb@xt@\@footwidth{{%
                                                                             164
                                                                             165
                                                                                                                                   \headfont\footfont\strut #5}}
                                                                                                                  \botfoot@rule{#6}{#7}}\hskip\@evenfootshift\hss}%
                                                                             166
                                                                             167 }
                                                                                          We now define the rules used at head and foot.
                    \topfoot@rule
                                                                             168 \newcommand\topfoot@rule[2]{%
                                                                                                  \verb|\del{condition}| \textbf{Qtempdima} baselineskip | \textbf{Qtempdima} by -. 7 | \textbf{normalbaselineskip}| \textbf{Qtempdima} | \textbf{Qtempdima} | \textbf{Qtempdima}| \textbf{Qtempdima} | \textbf{Qtempdima}| \textbf{Qtempdima} | \textbf{Qtempdima}| \textbf{Qtempdima} | \textbf{Qtempdima}| \textbf{Qtempdima} | \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima} | \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}| \textbf{Qtempdima}
                                                                             169
                                                                                                  \advance\@tempdima by -#2
                                                                             170
                                                                                                  171
                                                                                                 \vskip-\@tempdima}
                                                                             172
                    \botfoot@rule
                                                                             173 \newcommand\botfoot@rule[2]{%
                                                                                                  \@tempdima-\baselineskip\advance\@tempdima by .3\normalbaselineskip
                                                                             174
                                                                                                  \advance\@tempdima by #2
                                                                             175
                                                                                                  \vskip\@tempdima\hf@rule{#1}{#2}{\@footwidth}%
                                                                             176
                                                                             177 }
                                        \hf@rule
                                                                             178 \newcommand\hf@rule[3]{%
                                                                                                 \setlength{\@tempdimb}{#1}%
                                                                             180
                                                                                                 \setlength{\@tempdimb}{.5\@tempdimb}%
                                                                                                  \hb@xt@#3{%
                                                                             181
```

```
182
       \hfill%
       \llap{\vrule\@depth#2\@height\z@\@width\@tempdimb}%
183
       \rlap{\vrule\@depth#2\@height\z@\@width\@tempdimb}%
184
       \hfill%
185
     }%
186
187 }
   Using these definitions, we can define the testing macros.
First the simple star/starless-selection:
```

\newpagestyle

```
188 \def\newpagestyle{%
```

We have to decide, whether it is a my-version or not:

```
189
     {\@newpagestyle[-]}%
190
     {\@newpagestyle[+]}}
191
```

There we have to distinguish, whether the pagestyle is already defined or \@newpagestyle not.

```
192 \def\@newpagestyle[#1]#2#3#4{%
```

\expandafter\ifx\csname ps@#2\endcsname\relax

Then we can use the already defined \@defpagestyle.

```
\@defpagestyle[#1]{#2}{#3}{#4}%
194
195
     \else
       \PackageError
196
197
         {scrpage}%
         {Your command was ignored}%
198
         {There is already a pagestyle named ''#1''.\MessageBreak%
199
200
          Use \protect\defpagestyle\space, \protect\renewpagestyle or
          \protect\providepagestyle.}%
201
     \fi
202
203 }
```

\renewpagestyle First the simple star/starless-selection:

```
204 \def\renewpagestyle{%
```

We have to decide, whether it is a my-version or not:

```
205
     \@ifstar
     {\@renewpagestyle[-]}%
206
     {\@renewpagestyle[+]}}
```

There we have to distinguish, whether the pagestyle is already defined or \@renewpagestyle

```
208 \def\@renewpagestyle[#1]#2#3#4{%
     \begingroup\expandafter\expandafter\expandafter\endgroup
209
     \expandafter\ifx\csname ps@#2\endcsname\relax
210
211
       \PackageError
212
         {scrpage}%
         {Your command was ignored}%
213
```

```
{There is no pagestyle named ''#1''.\MessageBreak%
                    214
                              Use \protect\defpagestyle, \protect\newpagestyle or
                    215
                              \protect\providepagestyle.}%
                    216
                         \else
                    217
                    Then we can use the already defined \@defpagestyle.
                           \@defpagestyle[#1]{#2}{#3}{#4}%
                    218
                         \fi
                    219
                    220 }
\providepagestyle First the simple star/starless-selection:
                    221 \def\providepagestyle{%
                    We have to decide, whether it is a my-version or not:
                    222
                         \@ifstar
                         {\@providepagestyle[-]}%
                    223
                    224
                         {\@providepagestyle[+]}}
\@providepagestyle
                    There we have to distinguish, whether the pagestyle is already defined or
                    not.
                    225 \def\@providepagestyle[#1]#2#3#4{%
                         \expandafter\ifx\csname ps@#2\endcsname\relax
                    Then we can use the already defined \@defpagestyle.
                           227
                    228
                         \else
                           \PackageInfo
                    229
                    230
                             {scrpage}%
                             {\protect\providepagestyle\protect{#1\protect} ignored.}%
                    231
                         \fi
                    232
                    233 }
                    2.5 User-Pagestyle-Definition-Interface
                    The pagestyle-definition-interface for users is much easier than the expert-
                    version. Using the expert-macros, the definition is easy, too.
     \deftripstyle
                    At version 1 we define the selection of star- or starless-version first:
                    234 \def\deftripstyle{%
                         \@ifstar
                    235
                    236
                         {\@deftripstyle[-]}%
                         {\@deftripstyle[+]}}
                    Next we check, if there is an optional argument:
    \@deftripstyle
```

238 \def\@deftripstyle[#1]#2{%

{\@@deftripstyle[#1]{#2}}% {\@@deftripstyle[#1]{#2}[\z@]}}

239 \@ifnextchar[%]

or perhaps two optional arguments:

\@@deftripstyle

```
242 \def\@@deftripstyle[#1]#2[#3]{%
```

Ok, now we have the problem, that there can be only 9 arguments. So we have to distinguish the star-versions by a macro:

```
243 \def\@tempa{#1}%

244 \@ifnextchar[%]

245 {\@@@deftripstyle#2[#3]}%

246 {\@@@deftripstyle#2[\z@][#3]}}
```

Now the main-definition:

\@@deftripstyle

```
247 \def\@@@deftripstyle#1[#2][#3]#4#5#6#7#8#9{%
      \def\@tempb{+}%
248
249
      \ifx\@tempa\@tempb
250
        \defpagestyle{#1}%
251
          \{(\ 0 \text{ headwidth, #2})\%
252
           {\left| \frac{\#6} \right| \#5} \left| \frac{\#4}}{
           {\rlap{#4}\hfill{#5}\hfill\llap{#6}}%
253
           {\rlap{#4}\hfill{#5}\hfill\llap{#6}}%
254
           (\@headwidth,#3)}%
255
          {(\@footwidth,#3)%
256
257
           {\rlap{#9}\hfill{#8}\hfill\llap{#7}}%
           {\rlap{#7}\hfill{#8}\hfill\llap{#9}}%
258
           {\rlap{#7}\hfill{#8}\hfill\llap{#9}}%
259
260
           (\0 footwidth, #2)}%
261
      \else
262
        \defpagestyle*{#1}%
          {(\@headwidth,#2)%
263
           {\rlap{#6}\hfill{#5}\hfill\llap{#4}}%
264
           {\left| \frac{\#4} \right| \#5} \left| \frac{\#6}}%
265
           {\left| \frac{\#4} \right| \#5} \left| \frac{\#6}}%
266
267
           (\0headwidth, #3)}%
268
          \{(\0 footwidth, #3)\%
           {\rlap{#9}\hfill{#8}\hfill\llap{#7}}%
269
           {\left| {rlap{#7} \right| {\#8} \right| {12p{#9}}}
270
           {\rlap{#7}\hfill{#8}\hfill\llap{#9}}%
271
272
           (\0 footwidth, #2)}%
273
      \fi
274 }
```

2.6 Width of head and foot

\setheadwidth \setfootwidth \set@hf@width \settowidthof \deftowidthof Until version 1.3, head and foot of a page had same width like the text block. Since version 1.3 this was changed. Now the head and foot have their own width and an optional shift relative to the text part of the page. This shift can be positive or negative. We set the width and shift with

one macro and save them at macros. The set macros have an optional argument: the shift.

For definition of symbolic length values there is the macro \settowidthof. And to define a macro with this value, there is \deftowidthof.

```
275 \newcommand*{\settowidthof}[2]{%
     \edef\@tempa{#2}%
276
     \edef\@tempb{paper}\ifx\@tempa\@tempb
277
       \setlength{#1}{\paperwidth}%
278
     \else\edef\@tempb{text}\ifx\@tempa\@tempb
279
         \setlength{#1}{\textwidth}%
280
       \else\edef\@tempb{textwithmarginpar}\ifx\@tempa\@tempb
281
282
           \setlength{#1}{\textwidth}%
           \addtolength{#1}{\marginparwidth}%
283
           \addtolength{#1}{\marginparsep}%
284
285
         \else\edef\@tempb{head}\ifx\@tempa\@tempb
286
              \setlength{#1}{\@headwidth}%
           \else\edef\@tempb{foot}\ifx\@tempa\@tempb
287
                \setlength{#1}{\@footwidth}%
288
              \else\edef\@tempb{headtopline}\ifx\@tempa\@tempb
289
290
                  \setlength{#1}{\scr@headabove@linelength}%
                \else\edef\@tempb{headsepline}\ifx\@tempa\@tempb
291
292
                    \setlength{#1}{\scr@headbelow@linelength}%
                  \else\edef\@tempb{footsepline}\ifx\@tempa\@tempb
293
                      \setlength{#1}{\scr@footabove@linelength}%
294
                    \else\edef\@tempb{footbotline}\ifx\@tempa\@tempb
295
296
                        \setlength{#1}{\scr@footbelow@linelength}%
                      \else\edef\@tempb{page}\ifx\@tempa\@tempb
297
                          \setlength{#1}{\paperwidth}%
298
                          \begingroup\expandafter\expandafter\expandafter\endgroup
299
300
                          \expandafter\ifx\csname ta@bcor\endcsname\relax\else
301
                            \addtolength{#1}{-\ta@bcor}%
                          \fi
302
303
                        \else
                          \setlength{#1}{#2}%
304
305
                        \fi
                      \fi
306
                    \fi
307
                  \fi
308
309
                \fi
              \fi
310
311
           \fi
         \fi
312
       \fi
313
     \fi
314
315 }
316 \newcommand*{\deftowidthof}[2]{%
     \edef\@tempa{#2}\edef\@tempb{autohead}\ifx\@tempa\@tempb
317
       \expandafter\def\csname #1\endcsname{\@headwidth}%
318
```

```
\else\edef\@tempb{autofoot}\ifx\@tempa\@tempb
319
                       \expandafter\def\csname #1\endcsname{\@footwidth}%
320
                  \else
321
                       \settowidthof{\@tempdima}{#2}%
322
323
                       \expandafter\edef\csname #1\endcsname{\the\@tempdima}%
324
             \fi
325
326 }
327 \newcommand*{\setheadwidth}[2][\@empty]{%
             \st 0hf 0width {head} {#1} {#2} %
329 }
330 \newcommand*{\setfootwidth}[2][\@empty]{%
             \set@hf@width{foot}{#1}{#2}%
332 }
333 \newcommand*{\set@hf@width}[3]{%
             \settowidthof{\@tempdima}{#3}%
             \ifdim\@tempdima>\paperwidth
335
336
                  \PackageWarning
                       {scrpage}%
337
338
                       {You've set width of #1 to a value\MessageBreak
                            greater than width of page!\MessageBreak%
339
                            I'll reduce width of #1 to width of page}%
340
341
                  \setlength{\@tempdima}{\paperwidth}%
342
             \else
                  \left(\frac{z}{2}\right)
343
                         \PackageWarning
344
                              {scrpage}%
345
346
                              {You've set width of #1 to negative value!\MessageBreak%
347
                                   I'll set it to Opt}%
                         \setlength{\@tempdima}{\z@}%
348
                    \fi
349
350
             \fi
351
             \expandafter\edef\csname @#1width\endcsname{\the\@tempdima}%
             \ensuremath{\mbox{def}\ensuremann{\mbox{$\mathbb{4}$}}\%}
352
             \setlength{\@tempdima}{\textwidth}%
353
             \addtolength{\@tempdima}{-\csname @#1width\endcsname}%
354
355
             \ifx\@tempa\@empty
                  \if@twoside
356
357
                       \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ens
358
                       \verb|\colored]{.5@tempdimb}{.5@tempdima}||
359
                  \fi
360
361
             \else
                  \setlength{\@tempdimb}{#2}%
362
363
             \addtolength{\@tempdima}{-\@tempdimb}%
364
             \ifdim\@tempdimb<\z@
365
                  \setlength{\@tempdimb}{-\@tempdimb}%
366
                  \expandafter\edef\csname @odd#1shift\endcsname{-\the\@tempdimb}%
367
```

```
368
                        \expandafter\edef\csname @odd#1shift\endcsname{\the\@tempdimb}%
                 369
                      \fi
                 370
                      \ifdim\@tempdima<\z@
                 371
                        \setlength{\@tempdima}{-\@tempdima}%
                 372
                        \expandafter\edef\csname @even#1shift\endcsname{-\the\@tempdima}%
                 373
                 374
                        \expandafter\edef\csname @even#1shift\endcsname{\the\@tempdima}%
                 375
                 376
                 377 }
                 The values of width and shift of head and foot are saved at internal macros.
    \@headwidth
    \0 \ \Qfootwidth 378 \ \newcommand*{\Qheadwidth}{\textwidth}%
 \@oddheadshift 379 \newcommand*{\@oddheadshift}{\z@}%
\verb|\dotdfootshift|| 381 \verb|\newcommand*{\dotdfootwidth}{\textwidth}|,
\label{lem:command*} $$ \operatorname{$382 \newcommand*{\doddfootshift}_{\z0}}_{\command*} $$
                 383 \newcommand*{\@evenfootshift}{\z@}%
```

2.7 Fonts

\pnumfont

We have to define a macro defining the font, used by \pagemark. Because of this macro may already be defined by a KOMA-script-class, we have to do this, using \providecommand

384 \providecommand*{\pnumfont}{\normalfont}

\headfont

There is also a macro used by \@evenhead, \@oddhead and \@evenfoot, \@oddfoot:

```
385 \providecommand*{\headfont}{\normalfont% 386 }
```

2.8 Extended multilanguage formats

\partmarkformat
\chaptermarkformat
\sectionmarkformat

There are some macros to handle languages like Chinese, Japanese or Korean. These macros were defined first by Werner Lemberg at his CJK-bundle. See scrclass.dtx for further information.

```
\subsectionmarkformat 387 \providecommand{\partmarkformat} {\partname\ \thepart.\} 388 \if@chapter 389 \providecommand{\chaptermarkformat} {\@chapapp\ \thechapter.\} 390 \providecommand{\sectionmarkformat} {\thesection.\} 391 \else 392 \providecommand{\sectionmarkformat} {\thesection\quad} 393 \providecommand{\subsectionmarkformat} {\thesubsection\quad} 394 \fi
```

2.9 Configurationfile

Not last and not least we include the local configuration-file scrpage.cfg, if it exists.

2.10 End

\KOMAScript

Das KOMA-Script-Logo wird in allen KOMA-Script-Paketen und -Klassen definiert, falls es nicht bereits definiert ist. Dabei werden die Versalien moderat gesperrt. Es wird jedoch darauf verzichtet, die Versalien etwa einen Punkt kleiner zu setzen, da das Logo aktiv ausgezeichnet erscheinen soll.

```
400 \@ifundefined{KOMAScript}{\\ 401 \DeclareRobustCommand{\KOMAScript}{\textsf{K\kern.05em O\kern.05em\\ 402 M\kern.05em A\kern.1em-\kern.1em Script}}}{\}
403 \langle /scrpage \rangle
```

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

${f Symbols}$		${f C}$
\@@@deftripstyle <u>2</u>	2 <u>47</u> \	\chaptermarkformat 387
\@@deftripstyle $\dots 2$	<u>242</u>	D
\@defpagestyle	,	\def@@@onesidefoot 160
		\def@@@twosidefoot $\dots \dots $
\@evenfootshift 3	<u>878</u> \	\def@@onesidefoot $\dots $ $\overline{160}$
\@evenheadshift 3	<u>878</u> \	\def@@twosidefoot $\dots \dots 148$
\@footwidth \dots 3	<u>878</u> \	\def@@twosidehead $\dots \dots 107$
\@headwidth 3	878 \	\def@onesidefoot $\dots \dots \underline{160}$
$\ensuremath{\texttt{Qnewpagestyle}}\ \dots \ \underline{1}$		\def@twosidefoot $\dots \dots 148$
\@oddfootshift <u>3</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	\def@twosidehead $\dots \dots 107$
\@oddheadshift <u>3</u>) ((\defpagestyle $4, \underline{32}$
\@providepagestyle 2	(22)	\deftowidthof $\dots \dots 275$
\@renewpagestyle 2	/I IX	\deftripstyle $2, \underline{234}$
	'	\deftripstyle* 2
В		${f F}$
\botfoot@rule <u>1</u>	.73 f	footexclude (Option) $\dots 2$

\footfont	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
I	${f R}$
lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:	\renewpagestyle $5, \underline{204}$
K KOMAScript $\underline{400}$	\sectionmarkformat \frac{387}{\set@hf@width \frac{275}{\setfootwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \frac{275}{\setheadwidth \qua
\newpagestyle	\settowidthof $\underline{275}$ \subsectionmarkformat $\underline{387}$
Optionen: footexclude $\dots 2$	T \topfoot@rule <u>168</u>
Change History	
2020/02/27 General: comment and guide changes only	increased
v1.0b	changed 6 v1.2a
\@defpagestyle: Dot deleted after number at chapter- and sectionmark	\@renewpagestyle: Avoid to define pagestyle as \relax if it wasn't defined (Thanks to Bernd)
\subsectionmark 7	\@evenfootshift: New 16
v1.1	$\ensuremath{\verb{Qevenheadshift:}}$ New 16
General: \hbox to changed into	\@footwidth: New 16
\hb@xt@6	\@headwidth: New 16 \@oddfootshift: New 16
\chaptermarkformat: Space after chapternumber	\@oddfootshift: New 16 \@oddheadshift: New 16
increased 16	\def@@twosidehead: Use of
\sectionmarkformat: Space	\@headwidth instead of
after sectionnumber increased 16	\textwidth 9 \def@onesidefoot: Use of
\subsectionmarkformat: Space after subsectionnumber	\@footwidth instead of

$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	"paper", "text",
\ @footwidth instead of	'textwidthmarginpar" 13
\textwidth 10	v1.3e
\hf@rule: New, third parameter	V1. 3 e
"boxwidth" 10	\@defpagestyle : usage of
\set@hf@width: New 13	\if@mainmatter fixed 7
\setfootwidth: New 13	General: removed from
\setheadwidth: New 13	
v1.3a	KOMA-Script 6
\set@hf@width: symbolic values	\partmarkformat: New 16