

The `latex-lab-sec` package

Changes related to the tagging of sectioning commands

L^AT_EX Project*

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Abstract

The following code implements a first draft for the tagging of sectioning commands.

1 Limitations

Sectioning commands are in not defined by the format but by the classes. Their implementation vary: some are defined with the help of `\@startsection`, some are like `\chapter` handcrafted, some build with the help of extension packages or as in the KOMA classes with class code that extends the `\@startsection` functionality.

The following code can therefore currently be used *only* with the standard classes or with classes which do not overwrite the changed definitions.

2 Introduction

Tagging of sectioning commands consist of two parts:

- The heading/title text of the section should be surrounded by a heading tag, typically `Hn` with some value of `n`. In theory, one could put the number of the section command in an `Lb1`. However, current AT doesn't handle this well, so we use a tag `section-number` that is mapped to `Span`. The number of the `Hn` tag should reflect the “natural” level. So in an article `\section` will use `H1`, in a book `\chapter` will use `H1` and `\section H2`. Titles of `\part` are a bit out of this system as they are normally not part of the hierarchy: often only some chapters are grouped under a part. Their title is therefore tagged as `Title`.
- The whole section should normally be surrounded by a `Sect` tag. Parts should be surrounded by `Part`. It is a bit unclear if the headings should be inside or outside of these structures—the best practice guide puts them outside—but on the whole it sounds more logical to group the heading with the text inside the `Sect`. For the part this is actually required, as there can be only one `Title` in a structure, so the part title can't be at the same level as the document `Title`.

Starting such an enclosing `Sect` structure is rather easy, but closing it requires code in various place, for example the commands `\mainmatter`, `\backmatter`,

*Initial implementation done by Ulrike Fischer

`\frontmatter` and `\appendix` should typically close everything. Following sectioning commands should close all previous structures with a level equal or higher than their own level.

3 Technical details and problems

The implementation has to take care of various details.

- As sections in L^AT_EX are not environments, the `<Sect>` structures can be wrongly nested with other structures. For example if a document puts a sectioning command into a list or a trivlist or a minipage then it can no longer close previous `<Sect>` structures correctly. The problem can be detected by checking the structure stack and a warning can be issued, but the author then has to close the structures manually before the list or minipage.

Thus there have to be user interfaces to handle such cases. It should also be possible not to create all the `<Sect>` structures automatically but to tag only the headings so that the author can handle special cases manually.

- If `hyperref` is used, targets for links should be inserted, either with `\refstepcounter` or manually with `\MakeLinkTarget`. These targets must be in the correct structure for the structure destinations. They replace some of the current patches in `hyperref`.
- With `lualatex` the mc-commands set attributes *locally*, so the commands must be at the right grouping level.

3.1 Functions and keys

`\tag_tool:n`
`\tagtool`

3.2 TODO

- A dedicated command to close a sectioning unit should be provided.
- A dedicated command to open a sectioning unit should be provided too.
- It should also be possible to suppress the sectioning unit in sectioning commands to allow e.g. to put an epigraph or similar in front.
- The number in `\part` and `\chapter` is currently not correctly tagged as a `section-number` as this requires to redefine the internal (class dependent) commands too.

¹ `<*package>`

4 Implementation

```
2 \ProvidesExplPackage {latex-lab-testphase-sec} {\ltlabsecdate} {\ltlabsecversion}  
3 {Code related to the tagging of sectioning commands}
```

4.1 Surrounding by Sect structures

We use a stack to record the levels of the open `Sect`. The first item has level -100. A sectioning command will take a record from the stack. If its level is greater or equal it closes this structure and takes the next record from the stack. If the record has a smaller level then it puts it back and stops. The stack is compared with the main structure stack, if they don't match it means we can't safely close the `Sect` and so we issue a warning and do nothing.

4.1.1 Loading general kernel changes

[kernel?] Also loaded in the toc-tagging code.

```
4 \RequirePackage{latex-lab-kernel-changes}  
5 </package>
```

4.1.2 Glyphtounicode improvements

As `lualatex` runs with legacy encodings in the test files, we enable and load `glyphtounicode`. For the math we load additional definitions.

```
6 <*kernelchange>  
7 \ifdefined\directlua  
8 \ifnum\outputmode > 0  
9 \pdfvariable gentounicode =1  
10 \protected\def\pdfglyphtounicode {\pdfextension glyphtounicode }  
11 \protected\edef\pdfgentounicode {\pdfvariable gentounicode}  
12 \input{glyphtounicode}  
13 \fi  
14 \fi  
15 \ifdefined\pdfglyphtounicode  
16 \input{glyphtounicode-cmex}  
17 \fi  
18 </kernelchange>
```

4.1.3 updating \@currentHref

[kernel?]

We must ensure that manual targets (e.g. in unnumbered sections) correctly update `\@currentHref`. For this we extend the kernel definition of `\MakeLinkTarget` TODO: remove after release 2024/11

```
19 <*kernelchange>  
20 \ExplSyntaxOn  
21 \str_if_exist:cF { l__socket_tagsupport/recordtarget_plug_str }  
22 {  
23 \int_new:N\g__kernel_target_int  
24 \RenewDocumentCommand\MakeLinkTarget{s0{}m}  
25 {%  
26 \ifvmode
```

```

27     \special{}%
28     \else
29     \@savsf\spacefactor
30     \smash{}%
31     \spacefactor\@savsf
32     \fi
33     \IfBooleanTF {#1}
34     {
35     \tl_gset:Ne \@currentHref {#3}
36     }
37     {
38     \int_gincr:N\g__kernel_target_int
39     \tl_gset:Ne \@currentHref {target*.\int_use:N\g__kernel_target_int}
40     }
41   }
42 }
43 \ExplSyntaxOff
44 </kernelchange>
45 <*package>
46 <@@=tag>

```

4.1.4 Tagging commands

\g__tag_sec_stack_seq The stack holds the tag, the level and the structure number.

```

47 \seq_new:N \g__tag_sec_stack_seq
48 \seq_gpush:Nn\g__tag_sec_stack_seq {{Document}}{-100}{2}

```

__tag_get_data_current_Sect: This allows to retrieve the number of the current Sect structure (or Document if we are outside any Sect) with `\tag_get:n{current_Sect}`

```

49 \cs_new:Npn \__tag_get_data_current_Sect:
50 {
51   \exp_last_unbraced:Ne\use_iii:nnn{\seq_item:Nn\g__tag_sec_stack_seq{1}}
52 }

```

(End of definition for __tag_get_data_current_Sect:.)

\l__tag_sec_Sect_bool This boolean controls if a Sect structure is opened.

```

53 \bool_new:N \l__tag_sec_Sect_bool
54 \bool_set_true:N\l__tag_sec_Sect_bool

```

__tag_sec_begin:nn This starts a sectioning structure. Currently the tag is fix, either Sect or Part, depending on the level, but this will perhaps change. The second argument is currently unused.

```

55 \cs_new_protected:Npn \__tag_sec_begin:nn #1 #2 %#1 level #2 keyval
56 {
57   \tag_struct_begin:n
58   {
59     tag= {\int_compare:nNnTF {#1}={-1}}{Part}{Sect}}
60   ,#2
61 }

```

```

62   \seq_gpush:Ne \g__tag_sec_stack_seq
63     {{\g__tag_struct_tag_tl}{\int_eval:n{#1}}{\g__tag_struct_stack_current_tl}}
64   }

```

(End of definition for __tag_sec_begin:nn.)

__tag_sec_end:n

```

65 \msg_new:nnn { tag } {wrong-sect-nesting}
66   {
67     The~structure~#1~can~not~be~closed.\\
68     It~is~not~equal~to~the~current~structure~#2~on~the~main~stack
69   }
70
71 \cs_new_protected:Npn \__tag_sec_end:n #1 % #1 level
72   {
73     \seq_get:NN \g__tag_sec_stack_seq \l__tag_tmpa_tl
74     \int_compare:nNnT {#1}<{\exp_last_unbraced:NV\use_ii:nnn\l__tag_tmpa_tl+1}
75     {
76       \seq_get:NN\g__tag_struct_tag_stack_seq \l__tag_tmpb_tl
77       \exp_args:Nee
78         \tl_if_eq:nnTF
79           {\exp_last_unbraced:NV\use_i:nnn\l__tag_tmpa_tl}
80           {\exp_last_unbraced:NV\use_i:nn\l__tag_tmpb_tl}
81         {
82           \seq_gpop:NN \g__tag_sec_stack_seq \l__tag_tmpa_tl
83           \tag_struct_end:
84           \__tag_sec_end:n {#1}
85         }
86         {
87           \msg_warning:nnee {tag}{wrong-sect-nesting}
88           { \exp_last_unbraced:NV\use_i:nnn \l__tag_tmpa_tl }
89           { \exp_last_unbraced:NV\use_i:nn \l__tag_tmpb_tl }
90         }
91     }
92   }

```

(End of definition for __tag_sec_end:n.)

__tag_tool_para_split: Runin-sectioning command must separate the heading from the following text.

```

93 \cs_new_protected:Npn \__tag_tool_para_split:
94   {
95     \tag_mc_end:
96     \tag_struct_end:
97     \tag_struct_begin:n{tag=\l__tag_para_tag_default_tl}
98     \tag_mc_begin:n{
99     \__tag_setup_restore_para_default:
100   }

```

(End of definition for __tag_tool_para_split:.)

__tag_setup_restore_para_default: We change the para tagging in the sectioning code. This here restores the default. Currently it only resets the the tag, but perhaps more will be needed later.

```

101 \cs_new_protected:Npn \__tag_setup_restore_para_default:
102   {

```

```

103 \tl_set:Nn \l__tag_para_main_tag_tl {text-unit}
104 \tl_set_eq:NN\l__tag_para_tag_tl\l__tag_para_tag_default_tl
105 }

```

(End of definition for __tag_setup_restore_para_default:.)

`__tag_sec_end_display:`

```

106 \cs_new_protected:Npn \__tag_sec_end_display:
107 {
108   \tag_struct_end: %P = Hn
109   \__tag_setup_restore_para_default:
110 }

```

(End of definition for __tag_sec_end_display:.)

Open sec structures should be closed at the end of the document. This should be done before tagpdf closes the Document structure.

```

111 \hook_gput_code:nnn{tagpdf/finish/before}{tagpdf/sec}{\__tag_sec_end:n{-10}}
112 \hook_gset_rule:nnnn {tagpdf/finish/before}{tagpdf/sec}{before}{tagpdf}

```

The commands `\mainmatter`, `\backmatter`, `\frontmatter` and `\appendix` close all `Sect` and `Part` structures.

```

113 \AddToHook{cmd/frontmatter/before}{\par\__tag_sec_end:n{-10}}
114 \AddToHook{cmd/mainmatter/before} {\par\__tag_sec_end:n{-10}}
115 \AddToHook{cmd/backmatter/before} {\par\__tag_sec_end:n{-10}}
116 \AddToHook{cmd/appendix/before}  {\par\__tag_sec_end:n{-10}}

```

4.2 Tagging tools

We need to provide user and package level commands

```

117 \cs_if_free:NT \tag_tool:n
118 {
119   \cs_new_protected:Npn \tag_tool:n #1
120   {
121     \tag_if_active:T { \keys_set:nn {tag / tool}{#1} }
122   }
123   \cs_set_eq:NN\tagtool\tag_tool:n
124 }
125 \keys_define:nn { tag / tool}
126 {
127   ,sec-start-part .code:n =
128   {
129     \bool_if:NT\l__tag_sec_Sect_bool
130     {
131       \__tag_sec_end:n {-1}
132       \__tag_sec_begin:nn{-1}{tag=Part}
133     }
134     \tag_struct_begin:n{tag=part,title=#1}

```

We remap here the text-unit from the paragraph to `NonStruct`. It would be better to suppress it completely as with the other sectioning commands, but this would require to redefine `\@spart` and `\@part`, as there is the grouping, and these commands are all slightly different in the standard classes. So this is delayed to the time when sectioning commands are redefined with templates.

```

135 \tl_set:Nn\l__tag_para_main_tag_tl {NonStruct}

```

```

136     \tl_set:Nn\l__tag_para_tag_tl {Span}
137   }
138   ,sec-stop-part .code:n = {\__tag_sec_end_display:}
139   ,sec-start-chapter .code:n =
140   {
141     \bool_if:NT\l__tag_sec_Sect_bool
142     {
143       \__tag_sec_end:n {0}
144       \__tag_sec_begin:nn{0}{tag=Sect}
145     }
146     \tag_struct_begin:n{tag=chapter,title=#1}

```

similar to part we remap to NonStruct for now ...

```

147     \tl_set:Nn\l__tag_para_main_tag_tl {NonStruct}
148     \tl_set:Nn\l__tag_para_tag_tl {Span}
149   }
150   ,sec-stop-chapter .meta:n = { sec-stop-part}
151   ,sec-start .code:n = % #1 is a name like "section"
152   {
153     \bool_if:NT\l__tag_sec_Sect_bool
154     {
155       \__tag_sec_end:n {\cs_if_exist_use:c{toclevel@#1}+0}
156       \__tag_sec_begin:nn {\cs_if_exist_use:c{toclevel@#1}+0}{tag=Sect}
157     }
158     \tl_set:Nn\l__tag_para_tag_tl{#1}
159   }
160   ,sec-start .value_required:n = true
161   ,sec-split-para .code:n = {\__tag_tool_para_split:}
162   ,restore-para .code:n = {\__tag_setup_restore_para_default:}
163   ,sec-stop .code:n =
164   {
165     \par\__tag_sec_end:n {\cs_if_exist_use:c{toclevel@#1}+0}
166   }
167   ,sec-stop .value_required:n = true
168   ,sec-add-grouping .bool_set:N = \l__tag_sec_Sect_bool
169 }

```

5 Sectioning commands

5.1 \part and \chapter

\part and \chapter are defined by the classes. To tag them we redefine the user commands. This will probably break with various classes and with titlesec. The tagging inside relies on the para tagging. We do not yet use keyval in the optional argument, as this requires latex-dev and the naming of the keys and their key family is unclear.

```

170 \AddToHook{class/after}
171 {
172   \@ifundefined{chapter}
173   {

```

This redefines \part in article class.

```

174   \@ifundefined{part}{}
175   {

```

```

176     \RenewDocumentCommand\part{ s 0{#3} m }
177     {
178         \if@noskipsec \leavevmode \fi
179         \par
180         \addvspace{4ex}%
181         \@afterindentfalse

```

This are the tagging commands needed at the begin. They open a Part structure and the structure for the title of the heading.

```

182     % tagging start commands
183     \tag_tool:n {sec-start-part=#2}
184     % end tagging start commands

```

This adds a manual target if the part is unnumbered or starred. It replaces the hyperref patches.

```

185     \bool_lazy_any:nT
186     {
187         { #1 }
188         {
189             \int_compare_p:nNn {\c@secnumdepth}<{-1}
190         }
191     }
192     {
193         \MakeLinkTarget [part] {}
194     }

```

The main call to the underlying commands.

```

195     \IfBooleanTF
196     {#1}
197     { \@spart {#3} }
198     { \@part [{#2}]{#3} }

```

and now the closing command for the tagging of the title.

```

199     \tag_tool:n {sec-stop-part}
200     }
201 }
202 }

```

Redefinitions for book and report

```

203 {
204     \RenewDocumentCommand\chapter{ s 0{#3} m }
205     {
206         \if@openright\cleardoublepage\else\clearpage\fi
207         \thispagestyle{plain}%
208         \global\@topnum\z@
209         \@afterindentfalse

```

This are the tagging commands needed at the begin. They open a Sect structure and the structure for the title of the heading.

```

210     \tag_tool:n { sec-start-chapter= #2 }

```

This adds a manual target if the chapter is unnumbered or starred. It replaces the hyperref patches.

```

211     \bool_lazy_any:nT
212     {
213         { #1 }

```



```

214     {
215     \int_compare_p:nNn {\c@secnumdepth}<{0}
216     }
217     {
218     %in book target also needed in frontmatter
219     \bool_lazy_and_p:nn
220     { \cs_if_exist_p:c { @mainmattertrue } }
221     { ! \legacy_if_p:n { @mainmatter } }
222     }
223     }
224     {

```

The relation target-struct is stored internally by the MakeLinkTarget commands

```

225     \MakeLinkTarget[chapter]{}
226     }

```

The main call to the underlying commands.

```

227     \IfBooleanTF
228     {#1}
229     { \schapter {#3} }
230     { \@chapter [{#2}]{#3} }

```

and now the closing command for the tagging of the title.

```

231     \tag_tool:n {sec-stop-chapter}
232     }

```

and similar for \part

```

233     \RenewDocumentCommand\part{ s O{#3} m }
234     {
235     \if@openright
236     \cleardoublepage
237     \else
238     \clearpage
239     \fi
240     \thispagestyle{plain}%
241     \if@twocolumn
242     \onecolumn
243     \@tempwattrue
244     \else
245     \@tempwafalse
246     \fi
247     \null\vfil

```

This are the tagging commands needed at the begin. They open a Part structure and the structure for the title of the heading.

```

248     \tag_tool:n {sec-start-part=#2}

```

This adds a manual target if the part is unnumbered or starred. It replaces the hyperref patches.

```

249     \bool_lazy_any:nT
250     {
251     { #1 }
252     {
253     \int_compare_p:nNn {\c@secnumdepth}<{-1}
254     }
255     {

```

```

256         %in book target also needed in frontmatter
257         \bool_lazy_and_p:nn
258         { \cs_if_exist_p:c { @mainmattertrue } }
259         { ! \legacy_if_p:n { @mainmatter } }
260     }
261 }
262 {
263     \MakeLinkTarget[part]{}
264 }

```

The main call to the underlying commands.

```

265     \IfBooleanTF
266     {#1}
267     { \@spart {#3} }
268     { \@part [{#2}]{#3} }

```

and now the closing command for the tagging of the title.

```

269     \tag_tool:n{sec-stop-part}
270 }
271 }
272 }

```

5.2 Sectioning commands based on \@startsection

The tagging relies again on the para tagging: we simply exchange the tag name by the one given as #1. This assumes that a tag with the name of the sectioning type is defined. We don't try to pass the title, this will be done together with the new keyval handling in the user command.

5.2.1 Hyperref code

hyperref has to insert anchors. If the sectioning is numbered this is done by `\refstepcounter` (and so in vmode). For unnumbered section hyperref injects the anchor in hmode before the text, it also inserts a kern to compensate the indent.

This means that the target of numbered and unnumbered sectioning commands differ, both regarding the location and in relation to the tagging structure: The anchor from the `\refstepcounter` is outside of the structure created by the heading title if the para tags are used, while the other anchors are inside and so the structure destinations are different.

We unify this by suppressing the anchor from the `refstepcounter`. Also we only go back if the indent is positive.

At first suppress all hyperref patches related to sectioning:

```

273 \def\hyper@nopatch@sectioning{}

```

`\@hyp@section@target@nnn`

A simple internal command. There is no need for something public, as packages defining their own version of `\@startsection` will probably need something slightly different based on `\MakeLinkTarget`.

```

274 \cs_new_protected:Npn \@hyp@section@target@nnn #1 #2 #3 %#1 optarg #2 name/counter, #3 indent
275 {
276     \makebox[0pt][l]
277     {
278         \skip_set:Nn \@tempkipa {#3}
279         \dim_compare:nNnF {\@tempkipa}<{0pt}{\kern-\@tempkipa}

```

```

280     \MakeLinkTarget#1{#2}
281   }
282 }

```

(End of definition for `\hyp@section@target@nmm`. This function is documented on page ??.)

5.3 Adaption of the heading commands

We add to `\@startsection` the commands to open the Sect structure and to change the para tag.

```

283 \def\@startsection#1#2#3#4#5#6{%
284   \ifnoskipsec \leavevmode \fi
285   \par
286   \@tempskipa #4\relax
287   \@afterindenttrue
288   \ifdim \@tempskipa <\z@
289     \@tempskipa -\@tempskipa \@afterindentfalse
290   \fi
291   \ifnobreak
292     \everypar{}%
293   \else
294     \addpenalty\@secpenalty\addvspace\@tempskipa
295   \fi
296   \tag_tool:n { sec-start=#1}%new
297   \@ifstar
298     {\@ssect{#3}{#4}{#5}{#6}}%
299     {\@dblarg{\@sect{#1}{#2}{#3}{#4}{#5}{#6}}}

```

To be able to correctly tag the number we need a special `\@hangfrom` variant. This is a bit tricky: As the paragraph starts after the `\setbox` luatex attributes are not set yet and numbers are unmarked if one doesn't pay attention. The code assumes that we are in vmode! 2025-01-20: Until the redefinition is gone from tagpdf we have to empty the hook:

```

300 \RemoveFromHook{package/latex-lab-testphase-sec/after}[tagpdf]
301 \cs_new_protected:Npn \@kernel@tag@hangfrom #1
302   {
303     \tagstructbegin{tag=\l__tag_para_tag_tl}
304     \cs_if_exist_use:N \__tag_gincr_para_begin_int:
305     \tagstructbegin{tag=section-number}
306     \setbox\@tempboxa
307       \hbox
308         {

```

In lua mode we have to set the attributes inside the box!

```

309         \bool_lazy_and:nnT
310           {\tag_if_active_p:}
311           {\g__tag_mode_lua_bool}
312           {\tagmcbegin{tag=section-number}}
313         {#1}
314       }

```

We stop tagging now, to avoid that the `\noindent` triggers the paratagging. We do not disable paratagging completely, to avoid that the numbering goes wrong.

```

315   \tag_suspend:n{hangfrom}

```

```
316 \hangindent \wd\@tempboxa\noindent
```

Restart tagging and insert the box.

```
317 \tag_resume:n{hangfrom}
318 \tagmcbegin{}\box\@tempboxa\tagmcbegin\tagmcbegin{}
```

This command is used to tag the numbers of runin. We do not try to avoid the empty container from the paratagging, this would require more changes.

```
319 \cs_new_protected:Npn \@kernel@tag@svsec
320 {
321 \tag_mc_end_push:
322 \tag_struct_begin:n{tag=section-number}
323 \tag_mc_begin:n{
324 \@svsec
325 \tag_mc_end:
326 \tag_struct_end:
327 \tag_mc_begin_pop:n{
328 }
```

\@sect is only changed to replace the hyperref patches and to use the new \@kernel@tag@hangfrom and \@kernel@tag@svsec

```
329 <@=@>
330 \def\@sect#1#2#3#4#5#6[#7]#8{%
331 \ifnum #2>\c@secnumdepth
332 \def\@svsec{\NoCaseChange{\@hyp@section@target@nnn{[section]}{#3}}}
333 \else
334 \LinkTargetOff
335 \refstepcounter{#1}%
336 \LinkTargetOn
337 \protected@edef\@svsec{\NoCaseChange{\@hyp@section@target@nnn}{#1}{#3}}\@secntformat{#1}
338 \fi
339 \@tempskipa #5\relax
340 \ifdim \@tempskipa>\z@
341 \begingroup
342 \tagtool{para-flattened=true} % or \bool_set_true\l_@_para_flattened_bool
343 #6{%
344 \ifnum #2>\c@secnumdepth
345 \@hangfrom {\hskip #3\relax\@svsec}%
346 \else
347 \@kernel@tag@hangfrom{\hskip #3\relax\@svsec}%
348 \fi
349 \interlinepenalty \@M #8\@par}%
350 \endgroup
351 \csname #1mark\endcsname{#7}%
352 \addcontentsline{toc}{#1}{%
353 \ifnum #2>\c@secnumdepth \else
354 \protect\numberline{\csname the#1\endcsname}%
355 \fi
356 #7}%
357 \else
358 \def\@svsechd{%
359 #6{\hskip #3\relax
360 \ifnum #2>\c@secnumdepth
361 \@svsec
362 \else
```

```

363     \@kernel@tag@svsec
364     \fi #8}%
365     \csname #1mark\endcsname{#7}%
366     \addcontentsline{toc}{#1}{%
367     \ifnum #2>\c@secnumdepth \else
368     \protect\numberline{\csname the#1\endcsname}%
369     \fi
370     #7}}%
371 \fi
372 \@xsect{#5}

```

similar for \@ssect

```

373 \def\@ssect#1#2#3#4#5{%
374   \@tempskipa #3\relax
375   \ifdim \@tempskipa>\z@
376     \beginingroup
377     \tagtool{para-flattened=true}
378     #4{%
379     \@hangfrom{\hskip #1\relax\NoCaseChange{\@hyp@section@target@nnn{[section]}-}{#1}}%
380     \interlinepenalty \@M #5\@@par}%
381     \endgroup
382   \else
383     \def\@svsechd{#4{\hskip #1\relax\NoCaseChange{\@hyp@section@target@nnn{[section]}-}{#3}}%
384     \fi
385     \@xsect{#3}

```

At last \@xsect needs code in two places. For display headings it has to restore the default para code, for run in headings it has to separated the heading from the following text.

```

386 \def\@xsect#1{%
387   \@tempskipa #1\relax
388   \ifdim \@tempskipa>\z@
389     \par \nobreak
390     \vskip \@tempskipa
391     \tag_tool:n {restore-para}
392     \@afterheading
393   \else
394     \@nobreakfalse
395     \global\@noskipsecttrue
396     \everypar{%
397     \if@noskipsec
398       \global\@noskipsecfalse
399       {\setbox\z@\lastbox}%
400       \clubpenalty\@M
401       \beginingroup \@svsechd \endgroup
402       \unskip
403       \tag_tool:n {sec-split-para}
404       \@tempskipa #1\relax
405       \hskip -\@tempskipa
406     \else
407       \clubpenalty \@clubpenalty
408       \everypar{}}%
409     \fi}%
410 \fi
411 \ignorespaces}

```

```
412 </package>
413 <*latex-lab>
414 \ProvidesFile{sec-latex-lab-testphase.ltx}
415     [\tlabsecdate\space v\tlabsecversion\space latex-lab wrapper sec]
416 \RequirePackage{latex-lab-testphase-sec}
417 </latex-lab>
```