The l3pdffield-pushbutton module Commands to create pushbutton form fields L4TFX PDF management testphase bundle

The LaTeX Project*

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1 | I3pdffield-pushbutton Introduction

This is the documentation for pushbutton fields, for general information about form fields check the documentation l3pdffield.

Please keep in mind

- Not every PDF viewer supports pushbuttons.
- The handling can depend on settings in the PDF viewer. In adobe reader for example I had to disable an option to avoid that it tries to create an appearance itself
- Standards like pdf/A disable features of form fields too (as you typically can't change the PDF).
- The compilations involving postscript/pdfmark (dvips with ps2pdf or dvips with distiller) can require special setups.

2 Pushbuttons

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2.1Commands

```
\pdffield_pushbutton:n \pdffield_pushbutton:n{\langle key val list \rangle}
```

This creates a pushbutton. Unlike radio buttons and checkboxes pushbuttons don't change their state and they don't store or represent a value. Instead their purpose is to trigger an action. Important actions are for example Submit and Reset.

Interfaces for such actions will be setup in another module later. For now actions should be added through the widget dictionary. The following for example setups a named action.

```
\group_begin:
\pdfannot_dict_put:nnn {widget}{A}{<</S/Named /N/LastPage>>}
\sffamily\bfseries
\pdffield_pushbutton:n
 {name=my/go,
  width=4cm,
  caption=go~to~last~page,
  rollover-caption=click~me!}
\group_end:
```

The list of allowed keys is described below. The (key val list) should at least set the name, without it the default name pushbutton is used.

2.2 The look of the button

Pushbuttons have no value. PDF compensates this by giving much more options to setup the appearance. Beside the standard AP key there are number of settings in the dynamic appearance dictionary MK. Sadly it is quite unclear how all this settings interact (or should interact), and PDF viewers don't honor all of them. I was for example not able to get the down appearance to show off.

By default the code will draw (with 13draw) a button and place the caption and rollover-caption on it. The caption will honor the surrounding font, fontsize and the color, and will be placed on the baseline as described by the height and depth keys.

2.3Kevs

The new pushbutton command accept all field and annot keys from l3pdffield. A few keys are disabled or are forced to specific values. The appearance keys have a more pushbutton specific behaviour, other keys have other defaults than with the basic commands. Additionally there are a small number of keys specific to a pushbutton. For convenience a number of important keys are documented here too, even if they are already in the document from l3pdffield.

Disabled keys are

- V, DV. As a pushbutton has no permanent state, the keys should not be used.
- FT is overwritten.

• For pushbuttons only the field flags ReadOnly, Required and NoExport make sense. Pushbutton is set automatically by the code as this is required for a pushbutton.

preset-pushbutton preset-pushbutton = $\{\langle key-val-list \rangle\}$

This allows to set default keys for a pushbutton.

name name = $\langle partial \ name \rangle$ T = $\langle partial \ name \rangle$

This sets the partial name of the field. The value shouldn't contain a period, be not empty and sensibly consist of simple chars. Additionally the value is used to create the field ID. This means that pushbuttons with the same partial name are annotations with the same field as parent. The field ID is then internal and can not be used to attach another annotation. For explicit control of the field ID use the fieldID key.

fieldID fieldID = $\langle field ID \rangle$

For experts only! This allows to give the pushbutton field a specific ID. This is only useful in the context of a larger fieldset or if you want to attach another annotation to the field with \pdffield_annot:n. If used wrongly you can easily create invalid fieldset. It allows you to create to fields with the same partial name, but if you want to see both you need to ensure that their full names are different—for example by adding some parent fields.

parent parent = $\langle field ID \rangle$

This is only needed if the field should be part of a larger fieldset. The value should be a field ID of a field created previously with \pdffield field:nn.

altname altname = $\langle string \rangle$ TU TU = $\langle string \rangle$

This is sets an alternative name for user interaction. This name can only be set at the first pushbutton instance, when the field is initialized.

 $\begin{array}{ll} {\tt mappingname \ \, mappingname \ \, = \ \langle string \rangle} \\ {\tt TM} & {\tt TM \ \, = \ \langle string \rangle} \end{array}$

This is sets an alternative name for export. This name can only be set at the first pushbutton instance, when the field is initialized.

width width = \langle dim expression \rangle
height height = \langle dim expression \rangle
depth depth = \langle dim expression \rangle

These keys allow to set the dimensions of the pushbutton instance. The value should be a dimension expression. By default width is 3 cm, height uses 1.05\normalbaselineskip, and depth is 0.45\normalbaselineskip.

AP/N appearance AP/R

 $AP/N = \langle appearance name \rangle$ appearance = \(\lambda appearance name \rangle \) $AP/R = \langle appearance name \rangle$

rollover-appearance rollover-appearance = \(\appearance \ name \)

AP/D

down-appearance

 $AP/D = \langle appearance name \rangle$ down-appearance = \langle appearance name \rangle

This keys sets the normal appearance, the rollover appearance (when the mouse hovers over the pushbutton) and the down appearance (when the mouse clicks). They take as value a (appearance name) and expects that one form Xobjects with this name has been created before. It depends on the PDF viewer if such appearances are shown. adobe reader for example ignores the down appearance.

action action =

This key doesn't exist yet. It will (probably) be added when a interface for actions are added.

2.4 Using with hyperref

The \Pushbutton command from hyperref also adds a label. Something like this could more or less fake it. But be aware that the options are not identical.

\ExplSyntaxOn\makeatletter

\def\@PushButton[#1]#2{\LayoutPushButtonField{#2}{\pdffield_pushbutton:n {name=#2,#1}} \ExplSyntaxOff\makeatother

3 **I3pdffield-pushbutton** Implementation

- 1 (*package)
- $\langle @@=pdffield \rangle$

Variables

A variable to store the appearance code, and two dimensions for the appearances. We can't use a single default appearance, so we use a count.

A pushbutton can setup the appearance only after the texts are known, so the code is stored and executed later.

```
3 \tl_new:N
              \l_pdffield_pushbutton_appearance_code_tl
```

- \l_pdffield_pushbutton_linewidth_dim 4 \dim_new:N
- \l_pdffield_pushbutton_totalht_dim
- 6 \int_new:N \g__pdffield_pushbutton_cnt_int

(End of definition for \l__pdffield_pushbutton_appearance_code_tl and others.)

3.2Appearances

The default appearances are a rectangular frame with some text.

\l pdffield pushbutton appearance code tl \l pdffield pushbutton linewidth dim \l pdffield pushbutton totalht dim \g pdffield pushbutton cnt int This defines the standard appearances. They are setup at the first use of a pushbutton, and will adapt to the font family in use then.

```
7 \dim_set:Nn \l__pdffield_pushbutton_linewidth_dim {0.4pt}
8 \color_set:nn {pdffield/push/text}{black}
9 \color_set:nn {pdffield/push/border}{black!95!white}
10 \color_set:nn {pdffield/push/bordertop}{yellow!5!white}
11 \color_set:nn {pdffield/push/borderbot}{black!50!white}
12 \color_set:nn {pdffield/push/fill}{black!20!white}
    \cs_new_protected:Npn \__pdffield_pushbutton_default_appearances:
14
15
16
              \int_gincr:N \g__pdffield_pushbutton_cnt_int
              \exp_args:Ne
              \pdffield_appearance:nn {pdffield/pushbutton/default-\int_use:N \g__pdffield_pushbutton_
19
                       \draw_begin:
20
                       \color_set:nn {pdffield/push/text}{.}
21
                      \dim_set:Nn \l__pdffield_pushbutton_totalht_dim
22
                           {\l__pdffield_annot_ht_dim + \l__pdffield_annot_dp_dim}
                       \draw_linewidth:n {\l__pdffield_pushbutton_linewidth_dim}
                       \draw_path_rectangle_corners:nn
                             {0.5\1_pdffield_pushbutton_linewidth_dim,0.5\1_pdffield_pushbutton_linewidth_dim
                               \l_pdffield_annot_wd_dim-0.5\l_pdffield_pushbutton_linewidth_dim,
                              \l__pdffield_pushbutton_totalht_dim-0.5\l__pdffield_pushbutton_linewidth_dim
30
31
                       \color_fill:n {pdffield/push/border}
                       \draw_path_use_clear:n { fill }
32
                       \draw_path_rectangle_corners:nn
33
                             {2\l_pdffield_pushbutton_linewidth_dim,2\l_pdffield_pushbutton_linewidth_dim}
34
35
                                 \l__pdffield_annot_wd_dim-2\l__pdffield_pushbutton_linewidth_dim,
36
                                 \label{local_pushbutton_totalht_dim-2}l__pdffield_pushbutton_linewidth_dim
                       \color_fill:n {pdffield/push/bordertop}
                       \draw_path_use_clear:n { fill }
40
                       \draw_path_moveto:n
41
42
                          ₹
                               2\l_pdffield_pushbutton_linewidth_dim,
43
                               2\l__pdffield_pushbutton_linewidth_dim
44
45
                       \draw_path_lineto:n
46
                          {5\l_pdffield_pushbutton_linewidth_dim,5\l_pdffield_pushbutton_linewidth_dim}
47
                       \draw_path_lineto:n
                               \l__pdffield_annot_wd_dim-5\l__pdffield_pushbutton_linewidth_dim,
50
                               \l__pdffield_pushbutton_totalht_dim-5\l__pdffield_pushbutton_linewidth_dim
51
52
                       \draw_path_lineto:n
53
                          {
54
                               \l__pdffield_annot_wd_dim-2\l__pdffield_pushbutton_linewidth_dim,
55
                               \verb|\label{locality} $$ \label{locality} $$ l_pdfield_pushbutton_totalht_dim-2\locality pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-pdffield_pushbutton_linewidth_dim-psffield_pushbutton_linewidth_dim-psffield_pushbutton_linewidth_dim-psffield_pushbutton_linewidth_dim-psffield_pushbutton_linewidth_dim-psffield_pushbutton_linewidth_dim-psffield_pushbutton_linewidth_dim-psffield_pushbutton_linewidth_dim-psffield_pushbutton_
56
                          }
57
                      \draw_path_lineto:n
```

```
{
                                 \l__pdffield_annot_wd_dim-2\l__pdffield_pushbutton_linewidth_dim,
 60
                                 2\l_pdffield_pushbutton_linewidth_dim
 61
                             }
 62
                         \draw_path_close:
 63
                         \color_fill:n {pdffield/push/borderbot}
                         \draw_path_use_clear:n { fill }
                         \draw_path_rectangle_corners:nn
                                 1.5\l_pdffield_pushbutton_linewidth_dim,
                                 1.5\l__pdffield_pushbutton_linewidth_dim
                             }
 70
                             {
 71
                                 \l__pdffield_annot_wd_dim-1.5\l__pdffield_pushbutton_linewidth_dim,
                                 \l__pdffield_pushbutton_totalht_dim-1.5\l__pdffield_pushbutton_linewidth_dim
 73
 74
 75
                         \color_stroke:n {pdffield/push/border}
                         \draw_path_use_clear:n {    stroke }
 76
                         \draw_path_rectangle_corners:nn
                             {4\l_pdffield_pushbutton_linewidth_dim,4\l_pdffield_pushbutton_linewidth_dim}
                                 \l__pdffield_annot_wd_dim-4\l__pdffield_pushbutton_linewidth_dim,
 80
                                 \l__pdffield_pushbutton_totalht_dim-4\l__pdffield_pushbutton_linewidth_dim
 81
 82
                             \color_fill:n {pdffield/push/fill}
 83
                           \draw_path_use_clear:n { fill }
 84
                           \color_fill:n {pdffield/push/text}
                           \draw_transform_shift:n
                               {0.5 \l_pdffield_annot_wd_dim, \l_pdffield_annot_dp_dim }
                           \hbox_set:Nn \l_tmpa_box { \makebox[0pt]{\l__pdffield_caption_tl} }
                           \draw_box_use:N \l_tmpa_box
 90
                         \draw_end:
                    }
 91
 92
              \exp_args:Ne
              \pdffield_appearance:nn {pdffield/pushbutton/defaultrollover-\int_use:N \g__pdffield_push
 93
                    {
 94
                         \draw_begin:
 95
                         \dim_set:Nn \l__pdffield_pushbutton_totalht_dim
 96
                             {\l_pdffield_annot_ht_dim + \l_pdffield_annot_dp_dim}
                         \draw_linewidth:n {\l__pdffield_pushbutton_linewidth_dim}
                         \draw_path_rectangle_corners:nn
                               \{0.5\ldot 1\_pdffield\_pushbutton\_linewidth\_dim,0.5\ldot 1\_pdffiel
                                 \l__pdffield_annot_wd_dim-0.5\l__pdffield_pushbutton_linewidth_dim,
                                 \l__pdffield_pushbutton_totalht_dim-0.5\l__pdffield_pushbutton_linewidth_dim
104
                         \color_fill:n {pdffield/push/border}
105
                         \draw_path_use_clear:n { fill }
106
                         \draw_path_rectangle_corners:nn
107
                               {2\l__pdffield_pushbutton_linewidth_dim,2\l__pdffield_pushbutton_linewidth_dim}
108
                                    \verb|\l_pdffield_annot_wd_dim-2\l_pdffield_pushbutton_linewidth_dim|,
111
                                    \label{locality} $1__pdffield_pushbutton_totalht_dim-2\l_pdffield_pushbutton_linewidth_dim
```

```
\color_fill:n {pdffield/push/borderbot}
113
                          \draw_path_use_clear:n { fill }
114
                          \draw_path_moveto:n
115
                              {
116
                                   2\l__pdffield_pushbutton_linewidth_dim,
                                   2\l_pdffield_pushbutton_linewidth_dim
118
119
                          \draw_path_lineto:n
120
                              {5\l_pdffield_pushbutton_linewidth_dim,5\l_pdffield_pushbutton_linewidth_dim}
                          \draw_path_lineto:n
123
                                   \l__pdffield_annot_wd_dim-5\l__pdffield_pushbutton_linewidth_dim,
124
                                   \verb|\lower| 1 - pdffield_pushbutton_totalht_dim-5 \\ 1 - pdffield_pushbutton_linewidth_dim-5 \\ 1 - pdffield_pushbutton_linewidth_dim-6 \\ 1 - pdffield_pushbut
125
126
                          \draw_path_lineto:n
127
                              {
128
                                   \label{local_pdf} $$\lim_2\leq \sup_{x\in \mathbb{R}^n} dx = 0.
129
                                   \l__pdffield_pushbutton_totalht_dim-2\l__pdffield_pushbutton_linewidth_dim
130
                              }
                         \draw_path_lineto:n
                                   \verb|\label{locality} $$ l_pdffield_not_wd_dim-2\locality pdffield_pushbutton_linewidth_dim, $$
134
                                   2\l__pdffield_pushbutton_linewidth_dim
135
                              }
136
                          \draw_path_close:
                          \color_fill:n {pdffield/push/bordertop}
138
                          \draw_path_use_clear:n { fill }
139
140
                         \draw_path_rectangle_corners:nn
141
                                   1.5\l__pdffield_pushbutton_linewidth_dim,
143
                                   1.5\l_pdffield_pushbutton_linewidth_dim
                              }
144
145
                                   \l__pdffield_annot_wd_dim-1.5\l__pdffield_pushbutton_linewidth_dim,
146
                                  \l__pdffield_pushbutton_totalht_dim-1.5\l__pdffield_pushbutton_linewidth_dim
147
148
                          \color_stroke:n {pdffield/push/border}
149
                          \draw_path_use_clear:n {    stroke }
150
                          \draw_path_rectangle_corners:nn
                              {4\l_pdffield_pushbutton_linewidth_dim,4\l_pdffield_pushbutton_linewidth_dim}
                                   \l__pdffield_annot_wd_dim-4\l__pdffield_pushbutton_linewidth_dim,
                                   \l__pdffield_pushbutton_totalht_dim-4\l__pdffield_pushbutton_linewidth_dim
                              }
156
                              \color_fill:n {pdffield/push/fill}
                            \draw_path_use_clear:n { fill }
158
                            \color_fill:n {pdffield/push/text}
159
                            \draw_transform_shift:n
160
                                {0.5 \l_pdffield_annot_wd_dim, \l_pdffield_annot_dp_dim }
161
                            \hbox_set:Nn \l_tmpa_box { \makebox[Opt]{\l__pdffield_rollover_caption_tl} }
162
                            \draw_box_use:N \l_tmpa_box
164
                          \draw_end:
                     }
165
166
                 \exp_args:Ne
```

```
\pdffield_appearance:nn {pdffield/pushbutton/defaultdown-\int_use:N \g__pdffield_pushbut
167
          {
168
            \draw_begin:
169
            \dim_set:Nn \l__pdffield_pushbutton_totalht_dim
              {\l_pdffield_annot_ht_dim + \l_pdffield_annot_dp_dim}
            \draw_linewidth:n {\l__pdffield_pushbutton_linewidth_dim}
            \draw_path_rectangle_corners:nn
               {0.5\l__pdffield_pushbutton_linewidth_dim,0.5\l__pdffield_pushbutton_linewidth_dim
174
                \l__pdffield_annot_wd_dim-0.5\l__pdffield_pushbutton_linewidth_dim,
177
                \l__pdffield_pushbutton_totalht_dim-0.5\l__pdffield_pushbutton_linewidth_dim
178
            \color_fill:n {pdffield/push/border}
179
            \draw_path_use_clear:n { fill }
180
            \draw_path_rectangle_corners:nn
181
               {2\l__pdffield_pushbutton_linewidth_dim,2\l__pdffield_pushbutton_linewidth_dim}
182
183
                 \label{locality} $$1__pdffield_pushbutton_linewidth_dim,
184
                 \label{locality} $1__pdffield_pushbutton_totalht_dim-2\l_pdffield_pushbutton_linewidth_dim
            \color_fill:n {pdffield/push/borderbot}
            \draw_path_use_clear:n { fill }
188
            \draw_path_moveto:n
189
190
              ₹
                2\l_pdffield_pushbutton_linewidth_dim,
191
                2\l_pdffield_pushbutton_linewidth_dim
192
              }
193
194
            \draw_path_lineto:n
              {5\l_pdffield_pushbutton_linewidth_dim,5\l_pdffield_pushbutton_linewidth_dim}
195
            \draw_path_lineto:n
                \l__pdffield_annot_wd_dim-5\l__pdffield_pushbutton_linewidth_dim,
199
                \l__pdffield_pushbutton_totalht_dim-5\l__pdffield_pushbutton_linewidth_dim
              }
200
            \draw_path_lineto:n
201
              {
                \l__pdffield_annot_wd_dim-2\l__pdffield_pushbutton_linewidth_dim,
203
                \l__pdffield_pushbutton_totalht_dim-2\l__pdffield_pushbutton_linewidth_dim
204
              }
            \draw_path_lineto:n
              {
                \l__pdffield_annot_wd_dim-2\l__pdffield_pushbutton_linewidth_dim,
                2\l__pdffield_pushbutton_linewidth_dim
              }
            \draw_path_close:
            \color_fill:n {pdffield/push/bordertop}
            \draw_path_use_clear:n { fill }
            \draw_path_rectangle_corners:nn
214
              {
                1.5\l__pdffield_pushbutton_linewidth_dim,
216
                1.5\l__pdffield_pushbutton_linewidth_dim
              }
              {
219
                \l__pdffield_annot_wd_dim-1.5\l__pdffield_pushbutton_linewidth_dim,
```

```
\l__pdffield_pushbutton_totalht_dim-1.5\l__pdffield_pushbutton_linewidth_dim
            \color_stroke:n {pdffield/push/border}
223
            \draw_path_use_clear:n { stroke }
224
            \draw_path_rectangle_corners:nn
225
              {4\l_pdffield_pushbutton_linewidth_dim,4\l_pdffield_pushbutton_linewidth_dim}
226
                \l__pdffield_annot_wd_dim-4\l__pdffield_pushbutton_linewidth_dim,
228
                \l__pdffield_pushbutton_totalht_dim-4\l__pdffield_pushbutton_linewidth_dim
              }
230
231
              \color_fill:n {pdffield/push/fill}
             \draw_path_use_clear:n { fill }
             \color_fill:n {pdffield/push/text}
             \draw_transform_shift:n
234
               {0.5 \l_pdffield_annot_wd_dim, \l_pdffield_annot_dp_dim }
235
             \hbox_set:Nn \l_tmpa_box { \makebox[0pt]{\l__pdffield_down_caption_tl} }
236
             \draw_box_use:N \l_tmpa_box
            \draw_end:
238
         }
      }
```

 $(End\ of\ definition\ for\ _pdffield_pushbutton_default_appearances:\ and\ others.)$

3.3 Creating the field

A field should be created if the name doesn't exist

```
\verb|\__pdffield_pushbutton_field:n|
```

3.4 Assembling the Pushbutton

fieldID=,

name=pushbutton,

width = 3 cm,

257

258

259

```
\__pdffield_pushbutton:n
```

```
260
           height = 1.05\normalbaselineskip,
           depth = 0.45\normalbaselineskip,
261
262
Value keys should be undefined.
       \keys_set:nn { pdffield }{__pdffield/preset/pushbutton,#1}
       \keys_set:nn { pdffield }
         {
265
            , V=
266
            ,DV=
267
            ,setFf={Pushbutton}
268
            ,FT= Btn
269
         }
       \tl_if_empty:NT\l__pdffield_fieldID_tl
            \pdfdict_get:nnN {l__pdffield/field}{T}\l__pdffield_fieldID_tl
           \tl_put_left:Nn \l__pdffield_fieldID_tl {__pdffield/pushbutton/}
274
275
      \tl_if_empty:NT\l__pdffield_pushbutton_appearance_code_tl
276
            \__pdffield_pushbutton_default_appearances:
278
            \exp_args:Nne
279
            \keys_set:nn {pdffield}
280
281
                                      = pdffield/pushbutton/default-\int_eval:n{ \g_pdffield_push
                 appearance
                                      = pdffield/pushbutton/defaultdown-\int_eval:n{ \g_pdffield}
                 down-appearance
                 rollover-appearance = pdffield/pushbutton/defaultrollover-\int_eval:n{ \g__pdffield}
              }
         }
286
       \l__pdffield_pushbutton_appearance_code_tl
287
       \__pdffield_pushbutton_field:V\l__pdffield_fieldID_tl
       \__pdffield_annot:
289
       \group_end:
290
291
(End of definition for \__pdffield_pushbutton:n.)
```

3.5 Keys

Most keys are inherited from the generic field and annot keys. We only need to handle the appearance in a special way.

```
_pdffield_pushbutton_appearance_handler:nnn
```

```
\cs_new_protected:Npn \__pdffield_pushbutton_appearance_handler:nnn #1 #2 #3 %name, type, ter
293
    {
       \tl_put_right:Nn \l__pdffield_pushbutton_appearance_code_tl
294
295
           \pdfxform_if_exist:nTF { #1 }
296
              ₹
297
                \pdfannot_dict_put:nne {widget/AP}{#2}{\pdfxform_ref:n{#1}}
298
              }
299
              {
300
                  \msg_error:nnnn{pdffield}{appearance-missing}{#1}{#3}
301
              }
```

```
303  }
304  }
(End of definition for \__pdffield_pushbutton_appearance_handler:nnn.)
```

3.6 user commands

\pdffield_pushbutton:n

```
_{\rm 305} \cs_set_eq:NN \pdffield_pushbutton:n \__pdffield_pushbutton:n _{\rm 306} \langle/package\rangle
```

 $(\mathit{End}\ of\ definition\ for\ \verb|\pdffield_pushbutton:n.|\ \mathit{This}\ function\ is\ documented\ on\ page\ 2.)$

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

A action	\draw_path_use_clear:n
AP/N 4 AP/R 4 appearance 4	F fieldID 3
C color commands:	H height 3
\color_fill:n	$$\mathbf{M}$$ mappingname
\color_stroke:n 75, 149, 223	N nome
D	name
denth 3	
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