







**Formatting the Month and Day in the return value.** These keys are not needed unless in your `formatstring` you use MMM, MMMM, DDD, or DDDD. These should be consistent with the calendar headings as well. You don't want English days of the week on a German calendar. The key `monthnamesLong` is used with MMMM and `monthnamesShort` with MMM. Similarly, `daynamesLong` is used for formatting DDDD and `daynamesShort` is used with DDD. The values of each of these keys is a comma-delimited list of month or day names, for example

`monthnamesLong`  
`monthnamesShort`  
`daynamesLong`  
`daynamesShort`

```

daynamesLong={Sonntag, Montag, Dienstag, Mittwoch, Donnerstag, %
Freitag, Samstag},
daynamesShort={So, Mo, Di, Mi, Do, Fr, Sa},
monthnamesLong={Januar, Februar, März, April, Mai, Juni, Juli, %
August, September, Oktober, November, Dezember},
monthnamesShort={Jan, Feb, Mrz, Apr, Mai, Jun, Jul, Aug, Sep, %
Okt, Nov, Dez},

```

```

37 \define@key{ddp}{monthnamesLong}[]{\def\ddp@monthnamesLong{#1}}
38 \define@key{ddp}{monthnamesShort}[]{\def\ddp@monthnamesShort{#1}}
39 \define@key{ddp}{daynamesLong}[]{\def\ddp@daynamesLong{#1}}
40 \define@key{ddp}{daynamesShort}[]{\def\ddp@daynamesShort{#1}}

```

`halign` The keys `halign`, `valign`, `hoffset`, and `voffset` determine the positioning of the floating windows when it opens. The default is the center of the window (for versions > 9), for version 9, this key is ignored and the window appears in the upper-right of the application window. See the documentation of the `rmannot` package for more detail.

`valign`  
`hoffset`  
`voffset`

```

41 \define@key{ddp}{halign}[center]{\def\ddp@halign{#1}}
42 \define@key{ddp}{valign}[center]{\def\ddp@valign{#1}}
43 \define@key{ddp}{hoffset}[0]{\def\ddp@hoffset{#1}}
44 \define@key{ddp}{voffset}[0]{\def\ddp@voffset{#1}}

```

**Setting the dimensions of the window.** The dimensions of the floating window are determined by `widthOfWindow` and `heightOfWindow`.

`widthOfWindow`  
`heightOfWindow`

```

45 \define@key{ddp}{widthOfWindow}[180]{\def\ddp@widthOfWindow{#1}}
46 \define@key{ddp}{heightOfWindow}[180]{\def\ddp@heightOfWindow{#1}}

```

`\setPickerOpts`

can be used to globally set picker options.

```

47 \newcommand{\setPickerOpts}[1]{\let\ddp@bsSAVE\let\ddp@uSAVE\u
48 \def\{\eqbs\eqbs}\def\u{\u}%
49 \edef\x{\noexpand\setkeys{ddp}{#1}}\x
50 \let\ddp@bsSAVE\let\u\ddp@uSAVE
51 }

```

`\setPickerOptsToDefaults`

resets picker options back to their original defaults.

```

52 \newcommand{\setPickerOptsToDefaults}{\let\ddp@bsSAVE\let\ddp@uSAVE\u
53 \setkeys{ddp}{formatstring,daynames,monthnames,firstday,halign,%
54 valign,hoffset,voffset,widthOfWindow,heightOfWindow,%
55 monthnamesLong,monthnamesShort,daynamesLong,daynamesShort}%
56 \let\ddp@bsSAVE\let\u\ddp@uSAVE

```

```

57 }
58 \setPickerOptsToDefaults
\dpBtnAction sets the action of the icon push button. When pressed, it simply activates the
RMA, when shift-clicked, it resets the field and closes the RMA.
59 \def\dpBtnAction#1{%
60   var annot = this.getAnnotRichMedia(this.pageNum,"#1");\r
61   if (event.shift){\r\t
62     this.resetForm(["txt#1"]);\r\t
63     annot.activated=false;\r
64   } else
If widget is already activated close it, otherwise open it.
65     annot.activated=( annot.activated )?false:true;
66 }

```

`\datepicker` is the primary command for this package. It produces a readonly text field to hold the chosen date, a rich media annotation that holds the flash widget (SWF), `datepickerN.swf`, and a push button containing script to activate the annotation.

**Naming conventions.** Argument #2 is the base name passed by the author. The name of the RMA is `name=#2`; the field name of the input text field is `txt#2` and the field name of the push button is `btn#2`. There is also a hidden text field named `htxt#2`.

```

67 \newcommand{\datepicker}[4] [] {\begingroup
68   \def\{\eqbs\eqbs}\def\u{\u}

```

Expand #1 then get options. Useful if options are passed as a macro.

```

69   \edef\x{\noexpand\setkeys{ddp}{#1}}\x

```

Set window related parameters.

```

70   \setWindowDimPos{width={default=\ddp@widthOfWindow},%
71     height={default=\ddp@heightOfWindow},%
72     position={halign=\ddp@halign,valign=\ddp@valign,
73     hoffset=\ddp@hoffset,voffset=\ddp@voffset}}%

```

This hidden field holds the date selected in a standard format of MM/DD/YYYY, this helps me to highlight the date when the user opens the date picker again.

```

74   \makebox[0pt][l]{\textField[\F{\FHidden}\BC{} \BG{} \W0
75     ]{htxt#2}{1bp}{1bp}}%

```

The text field that holds the date selected by the user through the date package.

```

76   \expandafter\textField\expandafter[\dp@pickerInputOpts\Ff{\FfReadOnly}
77     \AA{\AAValidate{%
78       this.getAnnotRichMedia(this.pageNum,"#2").activated=false;}
79     ]}{txt#2}{#3}{#4}\makebox[0pt][r]{%

```

Followed by the SWF widget, very small, invisible, transparent, and hidden by the text field.

```

80   \rmAnnot[invisible,transparentBG,deactivated=pageclose,
81     passcontext,\dp@pickerOpts,windowed,name=#2,
82     flashvars={field=txt#2&formatstring=\dp@FormatStr

```

```

83 \ifx\ddp@DayNames\@empty\else
84 &daynames=\ddp@DayNames\fi
85 \ifx\ddp@MonthNames\@empty\else
86 &monthnames=\ddp@MonthNames\fi
87 \ifnum\ddp@FirstDayOfWeek=0 \else
88 &firstday=\ddp@FirstDayOfWeek\fi
89 \ifx\ddp@monthnamesLong\@empty\else
90 &monthnamesLong=\ddp@monthnamesLong\fi
91 \ifx\ddp@monthnamesShort\@empty\else
92 &monthnamesShort=\ddp@monthnamesShort\fi
93 \ifx\ddp@daynamesLong\@empty\else
94 &daynamesLong=\ddp@daynamesLong\fi
95 \ifx\ddp@daynamesShort\@empty\else
96 &daynamesShort=\ddp@daynamesShort\fi
97 }
98 ]{4bp}{4bp}{dppDatePicker}}\kern\pickersep

```

Finally, the push button that has an icon for its appearance.

```

99 \expandafter\pushButton\expandafter[\dpp@iconBenOpts\TU{\dpp@ToolTip}
100 \H{0}\S{S}\BC{\BG{\FB{true}\I{null}\TP{1}
101 \A{\JS{\dppBtnAction{#2}}}]
102 ]{btn#2}{\dp@iconWidth}{\dp@iconHeight}\endgroup
103 }

```

**Installing the picker icon.** We use `\declareMultiImages` from AeB Pro to create a simplified method of installing the picker icon.

`\setpickerIcon` The command takes two arguments, the path to the icon, and the names of the date picker fields.

```
\setpickerIcon{icons/dp_icon2.pdf}{PickADate,GERDate}
```

The second argument is a comma-delimited list picker names (the first argument of the `\datepicker` command).

```

104 \newcommand{\setpickerIcon}[2]{% #1=path, #2=placement
105 \let\@thesetoks\@empty
106 \for\@dppName=#2\do{\edef\@thesetoks{\@thesetoks btn\@dppName,}}%
107 \def\stripOffComma##1,\@nil{\def\@placeIcons{##1}}%
108 \expandafter\stripOffComma\@thesetoks\@nil
109 \declareImageAndPlacement{name=dppIcon,path=#1,%
110 placement={\@placeIcons}}%

```

We then write a `execJS` environment to a CUT file, then input it back in immediately. Here, I'm using the `write handle` from the `comment` package, brought in by AeB Pro. At this moment, it is not being used.

```

111 \immediate\openout\CommentStream=ddpdocassmby.cut
112 \immediate\write\CommentStream{\string\begin{execJS}{dppicons}}%
113 \immediate\write\CommentStream{\string\insertPreDocAssembly}%
114 \immediate\write\CommentStream{\string\end{execJS}}%
115 \immediate\closeout\CommentStream

```

```

116 \input{ddpdocassembly.cut}%
117 }
118 \@onlypreamble\setpickerIcon

```

`\pickerIconWidth` and `\pickerIconHeight` set the width and the height, respectively, of the icon picker icon. The default to 6bp.

```

119 \newcommand\pickerIconWidth[1]{\def\dp@iconWidth{#1}}
120 \pickerIconWidth{10bp}
121 \newcommand\pickerIconHeight[1]{\def\dp@iconHeight{#1}}
122 \pickerIconHeight{12bp}

```

## 4 Supporting Document JavaScript

The `popDateField` is called from the Flash widget to pass the date from the widget to the input field.

```

123 \begin{insDLJS}{dppdljs}{JavaScript for Date Picker Pro}

```

`setDateField` The `setDateField` function is called by the widget to set the field value. The widget passes three arguments: `fname` (the field name that is the target of the date), `value` is the value of the field that will appear to the user, and `svalue` is the value formatted using the date template `MM/DD/YYYY`. This latter value is used to highlight this date if the user returns to the same calendar to change the date.

```

124 function _dppConvUnicode(v){
125   var fm,re,str=v;
126   re=/\\u([0-8A-Fa-f]{4})/g
127   while ((fm=str.search(re))!=-1) {
128     str=str.substring(0,fm)
129     +eval("String.fromCharCode(0x"
130     +str.substring(fm+2,fm+6)+")")
131     +str.substring(fm+6);
132   }
133   return str;
134 }
135 function setDateField(fname,value,svalue) {
136   %console.println("setDateField: fname="+fname
137   %   +", value="+value+", svalue="+svalue);
138   var f = this.getField(fname);
139   var g = this.getField("h"+fname);
140   if (f !=null ) {
141     f.value = _dppConvUnicode(value);
142     g.value = svalue;
143   }
144 }

```

`getDateValue` The JavaScript function `getDateValue` is also called by the widget to get the current values of the target field. The return value is an object containing these two values.

```

145 function getDateValue(fname) {

```

```

146 %console.println("getDateValue: fname="+fname);
147 var f = this.getField(fname);
148 var g = this.getField("h"+fname);
149 var value;
150 if ( f != null )
151     value = { value: f.value, svalue: g.value };
152 return value;
153 }
154 \end{insDLJS}

```

We wait until after the preamble to see if the document author chooses a version for FLEX. We also check to see if a path to the widget has been set. The document author is required to define a path to the datepicker SWF with the name of `\dppPath`:

```

\definePath{\dppPath}{C:/Users/Public/Documents/My TeX Files/%
    tex/latex/aeb/aebpro/datepicker_pro/swf}

155 \def\dpp@initdpp{%
156   \@ifundefined{dppPath}{\PackageError{datepicker-pro}
157     {You must specify the path to datepicker\flexVer.swf\MessageBreak
158     by defining \string\dppPath\space in the configuration file\MessageBreak
159     dp-pro.cfg, see documentation}{}}
160     {\saveNamedPath{dppDatePicker}{\dppPath/datepicker\flexVer.swf}}%
161 }
162 \AtBeginDocument{\dpp@initdpp}

163 \InputIfFileExists{dp-pro.cfg}{}{}
164 \</package>

```



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## 6 Change History

v1.1 (2016/05/07)		v1.3 (2018/07/02)	
General: Added the configuration file		General: Handle non-ascii glyphs with unicode	
dp-pro.cfg, used for specifying the path to		representation	7
SWF.	8	v1.4 (2020/08/07)	
v1.2 (2016/05/17)		General: Package author declares this package is	
General: Added \iconBenOpts access to custom		obsolete as of December 2020, this is the	
options for btn	2	month Adobe withdraws support for Flash	
Added access to custom options for btn	6	Player (FLV,SWF, etc).	1