



Errata for the PDF Reference, sixth edition, version 1.7

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This document describes errors and omissions in the *PDF Reference, sixth edition, version 1.7*.

Chapter 3, Syntax

Page 90

Append the following to section 3.3.9, "Crypt Filter":

If a stream specifies a crypt filter, then the security handler does not apply Algorithm 3.1 (page 119) to the key prior to decrypting the stream. Instead, the security handler decrypts the stream using the key as is. Section 3.3, "Filters" explains how a stream specifies filters.

Chapter 5, Text

Page 406

In Table 5.5, "Text-positioning operators," change the description for the **T*** entry to the following:

OPERANDS	OPERATOR	DESCRIPTION
—	T*	Move to the start of the next line. This operator has the same effect as the code $0 -T_l T_d$ where T_l is the current leading parameter in the text state. The negative of T_l is used here because T_l is the text leading expressed as a positive number. Going to the next line entails decreasing the y coordinate.

Page 466

In Table 5.23, “Embedded font organization for various font types,” in the description for the **FontFile3** key **OpenType** subtype, replace the existing entry with the following entry:

KEY	SUBTYPE	DESCRIPTION
FontFile3	OpenType	<p>(PDF 1.6) OpenType font program, as described in the <i>OpenType Specification v.1.4</i> (see the Bibliography). OpenType is an extension of TrueType that allows inclusion of font programs that use the Compact Font Format (CFF).</p> <p>A FontFile3 entry with an OpenType subtype can appear in the font descriptor for the following types of font dictionaries:</p> <ul style="list-style-type: none"> • A TrueType font dictionary or a CIDFontType2 CIDFont dictionary, if the embedded font program contains a “glyf” table. In addition to the “glyf” table, the font program must include the following tables: “head”, “hhea”, “hmtx”, “loca”, and “maxp”. The “cvt ” (notice the trailing space), “fpgm”, and “prep” tables must also be included if they are required by the font instructions. • A CIDFontType0 CIDFont dictionary, if the embedded font program contains a “CFF ” table (notice the trailing space) with a Top DICT that uses CIDFont operators (this is equivalent to subtype CIDFontType0C above). In addition to the “CFF ” table, the font program must include the “cmap” table. • A Type1 font dictionary or CIDFontType0 CIDFont dictionary, if the embedded font program contains a “CFF ” table without CIDFont operators. In addition to the “CFF ” table, the font program must include the “cmap” table. <p>The <i>OpenType Specification</i> describes a set of required tables; however, not all tables are required in the font file, as described for each type of font dictionary that can include this entry.</p> <p>Note: The absence of some optional tables (such as those used for advanced line layout) may prevent editing of text containing the font.</p>

Page 468 and 469

Remove the paragraph that begins on the bottom of the page and continues onto the next page. This paragraph begins with the phrase: Like TrueType, OpenType font programs contain a number of tables ...

Also remove the note that follows that paragraph. That note begins with the phrase: Other tables, such as those used for advanced line layout ...

The removed paragraph and the note duplicate the information provided in the revised description for the **FontFile3** key with a subtype of **OpenType**.

Chapter 8, Interactive Features

Page 607

In Table 8.15, the description for the **Border** entry contains a note. Replace that note with the following:

Note: In PDF 1.2 or later, the dictionaries for some annotation types (such as free text and polygon annotations) can include the **BS** entry. That entry specifies a border style dictionary that has more settings than the array specified for the **Border** entry. If an annotation dictionary includes the **BS** entry, then the **Border** entry is ignored; see implementation note 82 in Appendix H.

Pages 615, 647, and 1115

The document *PDF Redaction: Addendum for the PDF Reference, sixth edition, version 1.7* describes redaction annotations, which are added with PDF 1.7.

Page 624

In Table 8.25, “Additional entries specific to a free text annotation,” replace the **CL**, **IT** and **LE** descriptions with the following. Notice that the **LE** type has changed.

KEY	TYPE	VALUE
CL	array	<i>(Optional; meaningful only if IT is FreeTextCallout; PDF 1.6)</i> An array of four or six numbers specifying a callout line attached to the free text annotation. Six numbers $[x_1\ y_1\ x_2\ y_2\ x_3\ y_3]$ represent the starting, knee point, and ending coordinates of the line in default user space, as shown in Figure 8.4. Four numbers $[x_1\ y_1\ x_2\ y_2]$ represent the starting and ending coordinates of the line.
IT	name	<i>(Optional; PDF 1.6)</i> A name describing the intent of the free text annotation (see also the IT entry in Table 8.21). The following values are valid: <ul style="list-style-type: none"> • FreeText, which means the annotation is intended to function as a plain free-text annotation. A plain free-text annotation is also known as a text box comment. • FreeTextCallout, which means that the annotation is intended to function as a callout. The callout is associated with an area on the page through the callout line specified in CL. See the implementation note on page 6. • FreeTextTypeWriter, which means that the annotation is intended to function as a click-to-type or typewriter object and no callout line is drawn. Default value: FreeText
LE	name	<i>(Optional; meaningful only if CL is present; PDF 1.6)</i> A name specifying the line ending style to be used in drawing the callout line specified in CL . The name specifies the line ending style for the endpoint defined by the pairs of coordinates (x_1, y_1) . Table 8.27 shows the possible line ending styles. Default value: None .

Page 641

In Table 8.39, “Additional entries specific to a widget annotation,” add the following entry:

KEY	SUBTYPE	DESCRIPTION
Parent	dictionary	<i>(Required if this widget annotation is one of multiple children in a field; absent otherwise)</i> An indirect reference to the widget annotation’s parent field. A widget annotation can have at most one parent; that is, it can be included in the Kids array of at most one field.

Page 696

The following sentence appears toward the end of the second paragraph on this page.

Signature fields that are not intended to be visible should have an annotation rectangle that has zero height and width.

Replace the above sentence with:

Signature fields that are not intended to be visible should have an annotation rectangle that has zero height and width. Viewer applications must treat such signatures as not visible. Viewer applications should also treat signatures as not visible if either the **Hidden** bit or the **NoView** bit of the **F** entry is true. The **F** entry is described in Table 8.15, and annotation flags are described in Table 8.16.

Page 697

In Table 8.83, “Entries in a signature field seed value dictionary,” change the description for the **Reasons** entry, as described in the following table row. Only the second bullet item has changed.

KEY	TYPE	VALUE
Reasons	array	<p><i>(Optional)</i> An array of text strings that specifying possible reasons for signing a document. If specified, the reasons supplied in this entry replace those used by viewer applications. The Ff entry specifies whether one of the reasons in the array must be used in the signature.</p> <ul style="list-style-type: none"> • If the Reasons array is provided and the Ff entry indicates that Reasons is a required constraint, one of the reasons in the array must be used for the signature dictionary; otherwise, signing must not take place. If the Ff entry indicates Reasons is an optional constraint, one of the reasons in the array can be chosen or a custom reason can be provided. • If the Reasons array is omitted or contains a single entry with the value period (“.”) and the Ff entry indicates that Reasons is a required constraint, the Reason entry must be omitted from the signature dictionary (see Table 8.102).

Page 735

In the **Form** entry in Table 8.105, “Entries in the UR transform parameters dictionary,” add the following names to the list of valid names defined in PDF 1.5:

- Add** Permits the user to add form fields to the document
- Delete** Permits the user to delete form fields from the document

Chapter 10, Document Interchange

Page 907

Replace the paragraph that begins with the phrase, “A link element may contain several link annotations ...” with the following paragraphs, example, and note.

When a **Link** structure element describes a span of text to be associated with a link annotation and that span wraps from the end of one line to the beginning of another, the **Link** structure element must include a single object reference that associates the span with the associated link annotation. Further, the link annotation must use the **QuadPoint** entry to denote the active areas on the page.

Example 1.1 *Wrapping active area associated with a link annotation*

Here is some text [with a link](#) inside.

In the above example, the **Link** structure element references a link annotation that includes a **QuadPoint** entry that boxes the strings “with a” and “link”. That is, the **QuadPoint** entry contains 16 numbers: the first 8 numbers describe a quadrilateral for “with a”, and the next 8 describe a quadrilateral for “link”.

Note: Beginning with PDF 1.7, use of the **Link** structure element to enclose multiple link annotations is deprecated.

Appendix H, Compatibility and Implementation Notes

Page 1114

After the section titled, 8.4.5, “Annotation Types” (Link Annotations), add the following section heading and implementation note:

8.4.5, “Annotation Types” (Free Text Annotations)

In Acrobat 7 and later versions, a failure may occur when Acrobat re-draws a free text annotation whose **IT** entry has a value of **FreeTextCallout** and whose **CL** entry is omitted.

Bibliography

Page 1152

Replace the document title *OpenType Font Specification* with *OpenType Specification v.1.4*.