



INTERNATIONAL STANDARD ISO 19005-1:2005 TECHNICAL CORRIGENDUM 2

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Document management — Electronic document file format for long-term preservation —

Part 1: Use of PDF 1.4 (PDF/A-1)

TECHNICAL CORRIGENDUM 2

*Gestion de documents — Format de fichier des documents électroniques pour une conservation à long
terme —*

Partie 1: Utilisation du PDF 1.4 (PDF/A-1)

RECTIFICATIF TECHNIQUE 2

Technical Corrigendum 2 to ISO 19005-1:2005 was prepared by Technical Committee ISO/TC 171, *Document management applications*, Subcommittee SC 2, *Application issues*.

This Technical Corrigendum contains corrections that were discussed by a number of technical experts and at the ISO/TC 171/SC 2 meeting held in Orlando, FL (USA) in October 2009.

These corrections are based on issues that have been raised by numerous implementers of ISO 19005-1:2005 since its publication (and its associated Technical Corrigendum 1 in 2006). In addition, certain changes made to ISO 19005-2:2011 have been incorporated where appropriate.

Page 4, 3.19

Renumber existing 3.19, XMP packet, as 3.20.

Add the following new definition as 3.19:

3.19

XMP extension schema

conforming XMP schema that is not defined in *XMP Specification* nor in this part of ISO 19005

Page 6, 6.1.3

Replace the second sentence of the second paragraph with the following:

In a linearized PDF, if the **ID** keyword is present in both the first page trailer dictionary and the last trailer dictionary, the value to both instances of the **ID** keyword shall be identical.

NOTE 1 *PDF Reference*, F.3.1 advises against having the **ID** keyword in the last trailer dictionary of a linearized PDF.

This provision shall not apply where the value to the **L** key in the linearization dictionary does not match the actual length of the PDF.

NOTE 2 This is based on the definition for the **L** entry in *PDF Reference*, Table F.1.

Renumber the existing NOTE as NOTE 3.

Page 6, 6.1.6

Add the following note after the first paragraph:

NOTE This provision ensures that the final digit of a hexadecimal string is never missing.

Page 6, 6.1.7

In the sentence between NOTE 1 and NOTE 2, replace

FDecodeParams

with

FDecodeParms

Page 7, 6.2.1

Add the following paragraph before the existing paragraph:

A conforming interactive reader may choose to put additional user interface elements around, on top, or below the graphical elements of the page. These user interface elements may be a presentation of other PDF objects (such as bookmarks or page thumbnails) or they may represent non-PDF objects. In all cases, the user interface elements and their contents shall not be required to conform to the requirements of 6.2.2 to 6.2.10.

Page 8, 6.2.3.1

Replace the first paragraph with the following:

All colours, except where used for a thumbnail image (*PDF Reference*, 8.2.3), shall be specified in a device-independent manner, either directly by the use of a device-independent colour space, indirectly through the use of default colour spaces (*PDF Reference* 4.5), or indirectly by the use of an **OutputIntent**. A conforming file may use any colour space specified in *PDF Reference*, except as restricted in 6.2.3.2 to 6.2.3.4.

Page 9, 6.2.10

Add the following after NOTE 2:

Any named resource present in a resources dictionary, but whose name is not referenced from the associated content stream, is not used for rendering and therefore shall be exempt from all requirements of this part of ISO 19005.

Page 10, 6.3.3.1

In the last part of the paragraph, replace “unless the value of the **CMap** dictionary **UserCMap** key is *Identity-H* or *Identity-V*” with the following:

“unless the value of the **Encoding** key in the font dictionary is *Identity-H* or *Identity-V*”

Page 10, 6.3.3.2

At the beginning of the paragraph, replace “For all Type 2 **CIDFonts**” with the following:

“For all embedded Type 2 **CIDFonts** that are used for rendering”

Page 11, 6.3.6

Replace the entire subclause with the following:

For every font embedded in a conforming file and used for rendering, the glyph width information in the font dictionary and in the embedded font program shall be consistent.

NOTE This requirement is necessary to ensure predictable font rendering, regardless of whether a given reader uses the metrics in the font dictionary or those in the font program.

Page 11, 6.3.7

Replace the entire subclause with the following:

All non-symbolic TrueType fonts shall specify *MacRomanEncoding* or *WinAnsiEncoding*, either as the value of the **Encoding** entry in the font dictionary or as the value of the **BaseEncoding** entry in the dictionary that is the value of the **Encoding** entry in the font dictionary. If the value of the **Encoding** entry is a dictionary, it shall not contain a **Differences** entry. All symbolic TrueType fonts shall not specify an **Encoding** entry in the font dictionary, and their font programs' “*cmap*” tables shall contain exactly one encoding.

NOTE These requirements make normative the suggested guidelines described in *PDF Reference*, 5.5.5.

Page 12, 6.3.8

At the end of the first bullet point, delete the following:

“or that use the predefined **Identity-H** or **Identity-V** CMaps”

so that it now reads

“— fonts that use the predefined encodings *MacRomanEncoding*, *MacExpertEncoding* or *WinAnsiEncoding*,”

Page 12, 6.4

Replace the first paragraph with the following:

If an **SMask** key appears in an **ExtGState** dictionary, its value shall be *None*. An **XObject** dictionary shall not contain the **SMask** key.

Add the following requirement to the second paragraph so that it now reads:

A **Group** object with an **S** key with a value of *Transparency* shall not be included in a form **XObject**.
A **Group** object with an **S** key with a value of *Transparency* shall not be included in a page dictionary.

Page 13, 6.5.3

Replace the paragraph between NOTE 2 and NOTE 3 with the following:

For all annotation dictionaries containing an **AP** key, the appearance dictionary that it defines as its value shall contain only the **N** key. If an annotation dictionary's **Subtype** key has a value of *Widget* and its **FT** key has a value of *Btn*, the value of the **N** key shall be an appearance subdictionary; otherwise the value of the **N** key shall be an appearance stream.

Page 13, 6.6.1

Add the following as the third paragraph:

The **Hide** action shall not be permitted.

Page 14, 6.7.1

Replace the first sentence with the following:

6.7.2 to 6.7.11 specify requirements for document-level metadata within conforming files.

Page 14, 6.7.2

Replace the entire subclause with the following:

The document catalog dictionary of a conforming file shall contain the **Metadata** key. The metadata stream that forms the value of that key shall conform to *XMP Specification*. All document-level metadata properties embedded in a file shall be in XMP form except for document information dictionary entries that have no XMP analogues, as defined in 6.7.3.