

Draft Meeting Minutes

PDF/A Meeting

**Wednesday, November 28, 2007
AIIM Headquarters
Silver Spring, MD**

1. Introductions

The November 28, 2007 meeting of the US PDF/Archive committee was called to order at 9:10 a.m. by Steve Levenson. Those participating in the meeting included:

Mary Abbott	NPES
Steve Abrams (Phone)	Harvard University Libraries
Jane Cohen	DTIC
Ebony Downtin	AIIM
Diana Helander	Adobe Systems
Betsy Fanning	AIIM
Butch Lazorchak	Library of Congress
Steve Levenson	Administrative Office US Courts
David McDowell (Phone)	NPES
Dennis Newman (Phone)	PDF
Leonard Rosenthol	Adobe Systems
Susan Sullivan	NARA

2. Approval of Draft Agenda (PDF/A 2007-007)

The draft agenda (PDF/A 2007-007) for the November 28, 2007 meeting was approved as presented. (Cohen/Sullivan)

3. Approval of Draft Meeting Minutes, August 16, 2007 (PDF/A 2007-005)

The draft meeting minutes (PDF/A 2007-005) for the August 16, 2007 meeting were approved as presented. (Cohen/Sullivan)

4. Review US Comments for PDF/A-2

For the US comments, please refer to the attached comment form as not all comments are addressed below.

6.2.10 Rejected

Discussed that this requirement would mean could build a tool to make PDF/A compliant work with less work but it would make creating a validator more complex. Discussed the record is what the author intended to be rendered. The committee pointed out that records and legal needs are two different things. The object should be made to comply and legally the object is still discoverable. Committee discussed if it was possible to save without – 'Save as'.

6.2.10 Added correction to rephrase the statement better to be CharProc (Character Procedure).

6.3.3.2 Accepted as US comment

6.2.3.3 We want to change this to an informative note.

6.5.3 Conforming reader could reasonably render a page for which a dictionary did not exist. Do not discuss how a conforming reader should behave so the added statement will provide the statement on the behaviour. Discussed that revising provides options for the reader. Need to tie in the use of the N key. This defines the relationship between uncalibrated colour spaces and entries in an annotation dictionary.

6.6.1 Accepted as US comment

6.6.2 can define other actions than JavaScript so revise Note to say such as to make it broader than JavaScript. [get from Leonard]

6.7.2 Accepted as US comment

6.7.3 Table on Crosswalk – Was in the document then decided to remove and re-decided to add to the document but unfortunately put in the wrong table without the fixes from the corrigenda. Need to put the fix in the table.

6.7.9 Too much detail appears about the documents which is not necessary with the reference list – Cleaning up – us comment moves forward

6.7.10 Editorial Accepted as US comment

6.7.11 Editorial accepted as US comment

6.8.2.2 Technical comment relates to changes in PDF Reference – only relevant for PDF/A-1. Introduced a new key, suspects, may have structure but was not validated. Want to disallow content for suspect. Simple check for validators which may make some files not level A compliant but the file would be level B. [get wording from Leonard]
Revised wording: "If the suspects key is present, its value shall be false. Note: These restrictions ensures that tagging is present, valid and correct and does not contain and 'suspect' values. Accepted as US comment

6.10 editorial accepted as US comment

Next 5 comments bring PDF/A into compliance with PDF 1.7

6.1.7 – DL Key is equivalent to the Length key which is the encoded. DL key when present should tell the number of bytes needed to get data back. Additional statement just requiring the values to be exact.

6.1.4 – amended to bring a PDF reference restriction into PDF/A-2 and tie it to cross reference streams. Streams need to be fully compliant. (US (McDowell) to work on wording)

6.1.14 – Alternate presentations – new to part 2, Never in PDF 1 addressed the concept of slide shows in general and the features in early PDF versions. PDF supports transitions much like in slide show. In A-1 we did not prohibit. Committee discussed if needed to be prohibited and if allowed what text needed to be included. If not prohibited in A1 should not prohibit in A2. Backwards compatibility is not broken with the proposed change. US Comment moves forward. If print each transition prints as a page. We don't allow the presStep transitions.

Added note – Note 2: Allowing Trans and Dur does not conflict with the restriction on PresSteps because the page-based visual appearance of the PDF is maintained.

Two new requirements being added with comments for 6.1.16 and 6.1.17:

6.1.16 – number of viewer preference capabilities, in later PDF Ref introduce capabilities that affect both printing and viewing. Two keys relate to rendering on a printer rather than a screen. This will allow compatibility with PDF/E. Discussed that scaling is risky as it restricts the end users use of the material. Scaling applies to the larger format documents. Recommend using PDF/E text (7.13) for this. Requested to validate that the wording from PDF/X was included since now are dealing with user printing. Comment moves forward.

6.1.17 – viewers only display those things that are recognized. Forbidding Requirements key since it serves no purpose. Make the second statement of the recommended change as a note: Note: This key is used to define features of a reader required to view. As all PDF/A-2 conforming readers must support all features of PDF 1.7, as modified by this part of ISO 19005, this key is unnecessary.

Nara question – in introduction, the first sentence spins the standard as being developed to handle new features and be able to preserve them.

Discussed the Introduction and providing the delta between Part 1 and 2 on the wiki.

Add to Annex B that takes best practices out of the Introduction and includes information as to when to use PDF/A-2 and what to do with PDF/A.

Have the public relations committee work on the FAQ and include what to do with old files or if have an older version of PDF.

Discussed the basis for part 2, the ballot has several options. Discussed the timeline for the document. CD in January with hopefully a DIS in October. Discussed if anyone has tried to develop product based on part 2. PDF/A Competence Center has not done anything with that as they are still working on PDF/A-1

5. Logistics – Orlando Meeting (January)

Ebony Dowtin reviewed the hotel arrangements with the committee and reminded committee members that they needed to have their reservations to her no later than December 12, 2007. She also noted that it was critical to provide all requested information so that the reservations could be made without issue.

The US delegation to the SC2 WG5 meeting in Orlando includes:

- Mary Abbott
- Diana Helander
- Steve Levenson
- David McDowell
- Dennis Newman
- Leonard Rosenthol
- Susan Sullivan

The US spokesperson for the Orlando meeting will be Steve Levenson.

6. Discussion on US position on PDF/A-3

The committee discussed features to be included in the next version of PDF/A using the base list created in Berlin at the SC2 WG5 meeting in Berlin as a starting point.

The committee recommended the work from TC46 on persistent URLs be reviewed.

The need to preserve drawings and keep information encapsulated in the file after being opened without appearance that things are being discarded was discussed.

The committee also discussed including multimedia in Part 3. NARA has guidance on the use of multimedia at <http://www.archives.gov/records-mgmt/initiatives/dav-faq.html>. NARA has also created a toolkit which can be found at <http://toolkit.archives.gov/pls/htmldb/f?p=102:1:4854791361369477198>. The NARA guidance on PDF/A is located at <http://www.archives.gov/records-mgmt/initiatives/pdf-faq.html>.

It was noted that the Library of Congress has information on Sustainable formats at http://www.digitalpreservation.gov/formats/content/text_curator.shtml.

It was noted that there is a need to archive PDF/E documents containing 3D images as well as live documents or documents of records such as "live forms" (especially those with JavaScript/Business rules).

New discussion topics:

- Use cases
 - Archiving of PDF/E (esp. 3D)
 - Archiving of "complete forms" (Esp. JavaScript/Biz Rules)
 - Not just presentation, but also biz rules, list choices, etc.
 - Scripts must be stored uncompressed (to be easily discoverable/processable)
 - PDF/A as "live document in workflow"
 - External references (esp. for file size saving)
 - Collections (as defined by archivists)
- Conforming Reader vs. File Format restrictions
 - Eg. Allow JavaScript in file, but not execute it
- GIS/Maps

- PDF/E also has uses in this regard as well
 - Will require PDF file format changes (ISO 32000)?
- Subsume PDF/UA as "Level A Conformance"
 - Or at least adopt more functionality/best practices
- Multimedia
 - Problem
 - External dependencies (file format & players)
 - Open Standards
 - IP issues
 - At least state something in the standard about why we're still not tackling it yet
- Collaboration with TC46 and "Handles"
 - Persistent URLs

Leonard Rosenthol offered to prepare a draft scope statement for circulation to the committee by December 14, 2007.

7. Status US Commitments from Berlin Meeting

The US commitments from the Berlin meeting were reviewed. Diana Helander will check with Scott Foshee on the progress of his task. Progress on the ad hoc committee for certification is slow but progressing.

8. Other Business

There was no other business discussed. Ebony Dowtin was thanked for her organization and handling of the logistics of the meeting.

9. Meeting Schedule

The meeting schedule will be determined at a later time. Committee members should expect a meeting in April.

10. Adjournment

The US committee for PDF/Archive adjourned at 4 p.m. (Rosenthol/Helander)

Template for comments and secretariat observations

Date:	Document:
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1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
US	Introduction	bullet 4	Ed	Line break before JPEG2000	Fix unwanted line break	Accepted
US	Introduction	Bullet 5	Ed	Should be an informative note	Make it a note	Accepted in principle – should just be “plain text”
US	Introduction		Ed	Introduction is starting to get overloaded with introductory material as well as “what’s new”	Break the introduction into multiple sections (0.1, 0.2, etc.) representing the various logical aspects.	Accepted
US	Introduction	Bullet 5, para 6	Ed	Discussion on “when to use part 1 vs. part 2” doesn’t belong in the introduction	Move to Annex B and expand (be sure to include list of issues that invalidate subset of Part 1 files)	Accepted
US	Introduction	Bullet 5	Te	Missing information about small set of part 1 files not conformant with part 2	Add text to one of the new sections to address this issue (NOT technical or specific, just generalized concerning improvements in reliability)	
US		Footer	Ed	Copyright is 2006	Should be 2007 (or even 2008, at this point)	Rejected in principle – not necessary to submit (ISO editor will correct)
US	2	12	Ed	Part 7 is PDF/X-4	Change X-1a -> X-4 & 1.4->1.6	Accepted
US	2	13	Ed	24517 is PDF/E, not PDF/A	Changes A-2 -> E & complete document title	Accepted
US	2	22	Ed	Remove the X’s	Get correct date & name	Accepted
US	2	23	Ed	Remove the X’s	Get correct date & name	Accepted
US	6.1.2	1	Te	doesn’t say what is (or isn’t) allowed on the file header line	Add “The file header line shall consist of the characters %PDF-1. Followed by a number from 0 through 7.	Accepted
US	6.1.3	2	Te	Description of linearization and trailer dictionaries is inconsistent and confusing for implementations, and doesn’t gain anything in implementation. It is believed to be a remnant for older requirements that were removed before part 1 was finalized.	Remove 2 nd sentence (In a linearized....shall be identical”).	Accepted
US	6.1.4	3	Te	PDF 1.5 introduced xref streams and we need to take those into consideration here as well	Add “or in a xref stream” after “table” and before “shall”	Accepted

1 **MB** = Member body (enter the ISO 3166 two-letter country code, e.g. CN for China; comments from the ISO/CS editing unit are identified by **)

2 **Type of comment:** **ge** = general **te** = technical **ed** = editorial

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US	6.1.7	3	Ed	3D comment doesn't fit with the following note	Move the 3D sentence after the informative note and add an associated informative note about it.	Accepted
US	6.10	5	Ed	ISO standards don't use page numbers	P385 -> 4.10.3 ("Determining the State of Optional Content Groups")	Accepted
US	6.1.10.1	Note 2	Ed	bad copy/paste job from PDF/X-4	Remove the Note – not relevant for PDF/A	Accepted
US	6.1.11	1	Ed	Missing word	Add " <i>Reference</i> " after " <i>PDF</i> "	Accepted
US	6.1.15	2	Ed	Missing boldface	Bold " DocMDP " since it's a dictionary key	Accepted
US	6.1.15	2	Ed	Missing italics	<i>PDF Reference</i> should be italicized	Accepted
US	6.1.15	2	Te	Add informative note about UR3 and Object Digests	"NOTE 2: These restrictions are present to ensure that functionality such as obsolete versions of the "User Rights" dictionary and the entire "Object Digest" functionality do not appear in a PDF/A-2 compliant document."	Accepted
US	6.2.2	Note 3	Ed	Incorrect spelling of color	replace color with colour	Accepted
US	6.2.3.2	Note 2	Ed	ISO standards use section references not page numbers	Replace p229 with "Section 4.5.6"	Accepted
US	6.2.3.3	1	Te	first sentence is not correct when considering Default color spaces	add "unless device independent default colour spaces are provided" to the end of the first sentence.	Accepted
US	6.2.3.3	2	Ed	Paragraph is a duplicate of 6.5.3 # 3	Remove it from here	Accepted in principle. Instead, replace with "NOTE: Section 6.5.3 defines the relationship between uncalibrated colour spaces and entries in an annotation dictionary"
US	6.2.3.3	5	Te	does not address rendering when in the presense of Default colour spaces	add "unless a device independent default colour space is provided, in which case that default colour space shall be used" at the end of the	Accepted

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					sentence.	
US	6.2.3.4	Note 3	Ed	Spelling error	Adding->added Remove ‘,’ from before the ‘.’	Accepted
US	6.2.8	(end)	Te	Add conforming reader requirements about flatness handling	Add “A conforming reader shall ignore any FL values in ExtGState dictionaries. It shall also ignore the i operator in content streams”	Accepted
US	6.2.10	(end)	Te	Add requirement on unused resources	Add “A content stream may have an associated resource dictionary that lists other objects, such as images and fonts, necessary to fully render the stream. However, not all objects listed in a resource dictionary may actually be used by the content stream for a variety of reason. As such, any object listed in a resource dictionary but never actually referenced from a content stream shall be considered exempt from all PDF/A provisions”	Rejected
US	6.2.10	Note 1	Ed	Rephrase for better English	replace “character proc(edure)” with “ CharProc (character procedure)”	Accepted
US	6.3.3.2	1	Ed	Table was renumbered between PDFRef 1.4 & 1.7	5.13->5.14	Accepted
US	6.3.9	1	Ed	Misc. typos	Add full stop (.) to end of paragraph Remove extra space between sentences Bold “.notdef”	Accepted
US	6.5.3	before 4	Te	Need to address rich text strings in annots	Add the following paragraphs “If an annotation dictionary contains an RC or RV entry, the annotation dictionary shall also include an AP dictionary” “NOTE: This ensures a consistent rendering of	Accepted

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					the rich text by all conforming readers"	
US	6.5.3	4	Te	No conforming reader requirements about how to render an annotation	Add to end of sentence, "When present, that stream shall be used to render the annotation. When no AP dictionary is present, the rendering of the annotation may be dependent on the conforming reader."	Accepted
US	6.6.1	1	Ed	Table moved in PDFReference	8.74->8.61	Accepted
US	6.6.2	Note	Ed	Actions can be more than just JavaScript	Change sentence one to be "These additional-actions dictionaries define arbitrary actions, such as JavaScript." Change sentence two to be "The explicit prohibition of the AA entry has the implicit effect of disallowing actions which complicate preservation efforts, such as external references and changes to visible appearance."	Accepted
US	6.7.2	1	Ed	extraneous characters	Remove the 4's after each instance of XMP Specification	Accepted
US	6.7.3	Table 2	Ed	for Subject, it should be Text and not bag Text	Copy/Paste error during editing process to restore this table between WD4 & WD5	Accepted
US	6.7.9	1	Ed	Too much detail on items listed in Normative Refs	Remove specifics on XML & RDF specs	Accepted
US	6.7.10	1	Ed	Some leftovers from previous edit	remove the last 8 words, since they values are now in multiple schemas (based on changes between WD4->WD5)	Accepted
US	6.7.11	7	Ed	missing boldface	Bold " pdfaid:corr "	Accepted
US	6.8.2.2	1	Ed	Change to allow for entries	Change to "The document Catalog dictionary shall include a MarkInfo dictionary containing the Marked key with a value of true."	Accepted
US	6.8.2.2		Te	Add stipulation about use of "tag suspects" (PDF 1.6)	Add "If the Suspects key is present, its value shall be	Accepted

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					false.” NOTE: These restrictions ensures that tagging is present, valid and correct and does not contain any ‘suspect’ values”.	
US	6.10	5	Ed	ISO standards use section references not page numbers	Pg385 -> 4.10.3	Accepted
US						
US	6.1.7	(after) 2	Te	Add handling for DL key (PDF 1.5)	Add “If present, the value of the DL key shall be the number of bytes provided by the decoding of the data in the stream.”	Accepted
US	6.1.4	(end)	Te	Don't allow PDF/A-2 writers to use a deprecated method described in the PDF Reference	Add “A PDF/A-2 conforming writer that creates cross reference streams shall not use the method described in <i>PDF Reference</i> , 3.4.7 (“Compatibility with Applications That Do Not Support PDF 1.5”)”	Accepted
US	6.1.14		Te	Add handling for conforming viewers and Trans/Dur	Add “A PDF/A-2 conforming interactive reader may provide a ‘presentation or slide show mode’ (as described in <i>PDF Reference</i> 8.3.3). If this functionality is provided, the conforming reader shall use the Trans and Dur values in the Page dictionary and shall implement all transitions and options listed in <i>PDF Reference</i> , Table 8.13” NOTE 2: Allowing Trans and Dur does not conflict with the restriction on PresSteps because the page-based visual appearance of the PDF is maintained.”	Accepted
US	6.1.16		Te	Add new section about the Print “Viewer Preferences” from PDF 1.6 & 1.7	Add the following from 24517-1 (7.13) Print scaling	Accepted

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					<p>A PDF/A-2 compliant reader shall obey the contents of the PrintScaling key in the viewer preferences dictionary (<i>PDF Reference</i>, 8.1). If the PrintScaling key is present in the dictionary and set to</p> <p><i>None</i>, the behaviour of readers shall be:</p> <p> Non-interactive printing readers shall only print the document if all the pages can be printed without performing any scaling. If the document cannot be printed, the non interactive printing reader may issue an error.</p> <p> Interactive readers shall not allow any scaling factor when performing a print operation.</p>	
US	6.1.17		Te	Add new section about Document Requirements	<p>Add</p> <p>"The document Catalog shall not contain the Requirements key.</p> <p>NOTE: This key is used to define features of a reader required to view the document. As all PDF/A-2 conforming readers must support all features of PDF 1.7, as modified by this part of ISO 19005, this key is unnecessary."</p>	Accepted
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