

1 **Meeting Minutes**  
2 **PWG MFD Working Group Teleconference**  
3 **January 24, 2008**

4 **Attendees:**  
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Nancy Chen	Oki Data
Lee Farrell	Canon
Mike Fenelon	Microsoft
Ira McDonald	Blue Roof Music / High North Inc.
Glen Petrie	Epson
Bill Wagner	TIC
David Whitehead	Lexmark
Peter Zehler	Xerox

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- 7 ○ The meeting minutes for January 10, 2008 which we forgot to approve in the last teleconference was  
8 approved without change.
  - 9 ○ January 17, 2008 meeting minutes was approved with the following changes:
    - 10 ○ **ElementCharset and ElementNaturalLanguage should be DELETED from the Document**  
11 **object (but kept at the Job object level). The DocumentCharset/NaturalLanguage properties**  
12 **(which describe the document \*content\*, not the document metadata) should be kept at the**  
13 **Document level.**
  - 14 ○ We continued discussion on remaining issues raised on the MFD email list in the updated file:  
15 [ftp://ftp.pwg.org/pub/pwg/mfd/wd/MFDIssues\\_011708.pdf](ftp://ftp.pwg.org/pub/pwg/mfd/wd/MFDIssues_011708.pdf).
  - 16 ○ `ScanDocument.ScanDocumentTicket.ScanDocumentProcessing.NumberUp` and  
17 `ScanDocument.ScanDocumentTicket.ScanDocumentProcessing.PresentationDirectionNumberUp`  
18 Will remain optional properties in Scan Document. Although this maybe considered imaging post-  
19 processing/transformation by low-end devices, there are high end devices using this property. The  
20 NumberUp processing in Scan Service can still be shared by Copy or Fax or Transform Service.  
21 However if it's only available in Transform Service, a separate job submission by Client will be  
22 required. Scan Service should be allowed to do any image processing an atomic service should do,  
23 however should not output to anything other than a Scan Destination URL.
  - 24 ○ **`ScanDocument.ScanDocumentTicket.ScanDocumentProcessing.PageRanges` will be moved back in**  
25 **Scan Document.** Users would like to stack up document inputs and only want a range of pages  
26 digitized.
  - 27 ○ **`ScanJob.ScanJobStatus.CompletedFinisherJobs` will be investigated further by Peter Zehler** to see  
28 whether the Counter class can be restructured to remove this Finisher count because there is no  
29 finisher for Scan Service in most cases. It's too difficult to restructure the Counter class, this  
30 Finisher count will remain in Scan Service and it will be documented that it's optional for implement  
31 Finisher. However, all other Services have a finisher and references this counter in Counter Class;  
32 therefore the Counter Class has this element and Scan Service currently simply inherited from the  
33 class structure.
  - 34 ○ `ScanJob.ScanJobStatus.ScanServiceCounters.FullColorImages` will remain as it is. The 'FullColor'  
35 term is used to differentiate from "HighlightColor" in print – often implies different media path is  
36 used.
  - 37 ○ Values for Rotation: (0,90,180,270) will be used for DocumentProcessing. Vendors are free to  
38 extend this set of values. No other useful values can be used.

- 1 ○ **We decided to defer the resolution on the semantics of Magnification and OutputDocumentSize at**  
2 **the next face-to-face meeting.** Magnification is currently defined as an integer and the unit is percent.  
3 There were many questions raised regarding the definition of magnification and NumberUp – where  
4 is the origin from which the image is magnified; does it include scaling and cropping; does the final  
5 image have to fit into output page size; does NumberUp include scaling to match the input document  
6 size which might imply loosing of original resolution? As a home work, please read IPP production  
7 printing semantics about signatures.
- 8 ○ **Sharpness remains and Focus may be added.** Sharpness has been used in many UIs, but not “focus”.  
9 Focus is actually used for some devices to actually move the lense to improve optical resolution of  
10 the scanned image, for scanning a negative. **It still needs to be clarified whether the lense could be**  
11 **adjusted on per job bases, and could be implied by the type of the original.** WIMS may consider to  
12 add this semantics in Scan.
- 13 ○ **Capability of “light source” and “document type” will be added** – the light source used can be  
14 different depending on the type of original document type (paper, transparency, negative).
- 15 ○ [optional] AutoSkewCorrection [Boolean: On, Off] had been added to Schema.
- 16 ○ [optional] DocumentPageElementDetect[Boolean:On, Off][Type: Image, Graphs, Text, Barcode,  
17 Form-Elements (CheckBox, etc), All] – **We need clear definition of DocumentPageElementDetect in**  
18 **order to get members’ consensus.**
- 19
- 20 ○ Next Steps:
  - 21 ○ Nancy and Pete will update the draft and split into Requirement document and Model and  
22 Semantics document by next Thursday for member’s review for face-to-face meeting.
  - 23 ○ Peter Zehler will provide a list of issues to be discussed and the agenda of the face-to-face  
24 meeting.
  - 25 ○ We will continue to discuss all issues raised so far in the next teleconference.
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27 **No Teleconference Next Week.**