

1 **PWG MFD Working Group Face-to-Face Meeting Minutes**

2 **At MPI Tech, Bagsværd, Denmark**

3 **August 3, 2010**

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5 **1. Attendees:**

6 Nancy Chen,	Oki Data
7 Ira McDonald*,	High North (representing Samsung)
8 Joe Murdock,	Sharp Lab America
9 Glen Petrie*,	Epson
10 Ole Skov,	MPI Tech
11 Mike Sweet*,	Apple
12 Jerry Thrasher,	Lexmark
13 Bill Wagner,	TIC
14 Rick Yardumian,	Canon
15 Peter Zehler,	Xerox

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17 *Phone-in attendee

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19 **2. Minutes Taker:** Nancy Chen

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21 **3. PWG IP Policy:**

22 The working group Chair Peter Zehler announced that this meeting is held in accordance with PWG
23 IP policy. No objection.

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25 **4. Agenda:**

26 Session 1 (12:30-2:30): Requirements Document Last Call Comments Review, Overall Specification
27 Review and discussion

28 Session 2 (2:45-4:30): Walk through FaxIn Job Lifecycle, Review and discuss Working Group Last
29 Call Comments for Copy Service and FaxOut specifications

30 Session 1 (4:45-6:30): Review of MFD Model changes for IDS Health and new Cloud requirements

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32 **5. Requirements Document Last Call Comments Review**

33 Link to comment resolutions document:

34 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/mfdreq10-last-call-comment-resolution-20100722.txt>

35 Link to Requirements document updated with the resolutions ready for the PWG final vote:

36 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdreq10-20100722.pdf>

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38 Bill provided a brief summary of the comments and corresponding resolutions. There was no
39 objection to the resolutions for the Last Call comments.

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41 **6. Review of MFD Model and Overall Semantics Document**

42 Link to the document: <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdoverallmod10-20100730-rev.pdf>

43
44 Bill quickly walked attendees through the Overall document.

45 • **Terminology Section:**

46 Bill explained that all the multi-word terms in the terminology table eventually will have all
47 words separated by a space, unless it's a discussion of a XML Schema element.

- 48 Pete added that the element names used in PWG MFD Semantic XML Schema may be different
49 in a vendor-specific name mapping or different encoding. For example, some element names in
50 WS-Print is different from the one in PWG MFD XML Schema. Ira added that CIM mapping of
51 MFD semantic uses “.” to denote the next level element. However for PWG standard
52 conformance, the semantics must be the same.
- 53 ○ Action Items:
 - 54 ○ Destination: remove “(i.e. URI)” from the definition. Destination is a resource
55 location where data is stored.
 - 56 ○ Destination URI: the URI that specifies the recipient of a digital document
57 transmission for FaxOut or EmailOut services. It contains URI, may also contain the
58 URI for the routing of the recipient. It is not an alternative term for Destination.
 - 59 ○ Check the extra vertical line in two tables: page 13 & 15.
 - 60 ● General Note on Page 34: In Liquid XML diagrams, pentagon shaped “Any” element represents
61 the extension of attributes. Rectangular shaped “Any” element is the extension of elements.
 - 62 ● Section 3 Subunits:
 - 63 ○ Action Items:
 - 64 ○ Pete and Bill to align the spec and XML Schema with the latest changes in Power
65 Management specification regarding Power Model elements in subunits. These
66 should be common subunit elements. Ira will provide inputs for required changes
67 to Pete and Bill.
 - 68 ○ Pete to provide missing references for FaxModem in Description table.
 - 69 ● Section 4 Service Model Component Elements
 - 70 ○ Action Items:
 - 71 ○ Pete to rename the Service abstract base class. Rename
72 DefaultImagingServiceTicket to ImagingServiceDefaultJobTicket and add
73 “ImagingServiceAvailableJobTicket” in ImagingServiceType.
 - 74 ○ Changes to Job Identification: currently it’s 32bit integer ID, unique within a service.
75 For cloud and mobile printing applications, a job needs to be unique across all. Now
76 added 64-byte string encoded UUID per RFC4122 (e.g. urn:uuid:string-version-uuid,
77 a 128bit integer). These are mandatory attributes of a job.
 - 78 ○ Same changes to Service Identification for UUID.
 - 79 ○ Mandatory elements in JobType are: Time stamps, identifiers, state information
80 (job state and job state reason).
 - 81 ○ JobUri in IPP defines a transport end point, not unique across domains. Some
82 private implementation use it to send a job operation to a job (as RFC2911 allows
83 but doesn’t clarify).
 - 84 ○ Change DefaultServiceTicket to ImagingServiceDefaultJobTicket
 - 85 ○ Add a subsection for ImagingServiceAvailableJobTicket
 - 86 ○ Pete to add to Schema: ImagingServiceConfiguration
 - 87 ○ DocumentProcessingCapabilities –have only two elements in base class: NumberUp
88 and PresentationDirectionNumberUp.
 - 89 ■ CrossFeed and Feed should be a sequence of integer for datatype.
 - 90 ○ JobDescriptionCapabilities –
 - 91 ■ Job and Resource Description Capabilities table – Remove
92 JobOriginatingPhoneNumber.
 - 93 ○ Pete and Ira: in FaxIn, change SendingPhoneNumber and ReceivingPhoneNumber
94 to Originating/ReceivingUri in in FaxInMetrics which is contained in
95 AvailableFaxInJobTicketEntry.

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- JobProcessingCapabilities –
 - Remove Destination & DestinationUriSchemes (list of strings), move to DocumentProcessingCapabilities.
 - Pete to make sure DestinationUriSchemes is in any service that stores digital document at a location.
 - Bill to include DestinationUriSchemes in JobProcessing(for FaxOut), JobProcessingCapabilities, DocumentProcessing(for FaxIn, EmailIn, Scan), DocumentProcessingCapabilities, and also in CapabilitiesReady and Tickets.
 - Agreed that Destination is in DocumentProcessingCapabilities
 - Agreed that CoverSheetInfo is in JobProcessingCapabilities
 - Agreed that JobAccountingSheets is in Print Service’s JobProcessing of JobTicket, must be in JobProcessingCapabilities also, and common to several services.
 - AI: Pete to make sure everything in JobProcessing of JobTicket is represented in JobProcessingCapabilities.
 - Agreed that JobSaveDisposition is common to several services for resubmit-job operation.
 - AI: Pete to add JobSaveDisposition to JobProcessing and JobProcessingCapabilities of Print, Copy, FaxOut, EmailOut services.
 - Agreed that JobSheets applies to any service that handles hardcopy output.
 - Agreed that MultipleSetOriginals applies to Scan and Copy.
 - Agreed that NumberOfRetries applies to FaxOut and EmailOut, and should be at both Service and Job level for both administrative and user control.
 - Agreed to add another group element (RetryInfo?) that includes NumberOfRetries, RetryInterval, and RetryTimeout at the Service level.
 - Service Description –
 - The title: “ServiceDescription” should be separate words.
 - Agreed to add two new elements to the Base Class: MessageFromOperator and ServiceGeoLocation.
 - GetEventLife: Agreed to the definition “the time after that event is available to be reported”. In RFC3996, it’s a printer attribute to specify the event value that the printer assigns to each event. It’s the minimum time an event is guaranteed to last for a “Get Event Notification” request in IPP.
 - Agreed to add the description to DeviceId: “IEEE 1284 Device ID”.
 - AI: Pete and Bill to add RetryInfo to ServiceDescription.
 - Pete will update the MFD XML Schema and provide Bill with changes needed for the Overall document.
 - Service Status –
 - Table 38: agreed to remove “unique with a scan service” from the description of ID. Add “It’s unique to the containing System”.
 - Section 5 Job Model
 - Job Status –
 - Agreed to add JobUuid in Element table.
 - Job Description –
 - Agreed to remove “JobOriginatingUserUri” from Job Description XML Diagram and add “JobOriginatingUri” to Job Status Element table.
 - Agreed to move “JobOrignatingUserName” from Job Description to Job Status.

- 192 ○ Job-Save and Resubmit-Job do not apply to FaxIn job. Resubmitting a saved FaxIn job might
193 have the job DateTime changed which would violate regulatory compliance. A FaxIn
194 document, if not printed according to document processing instruction, should be saved
195 internally by FaxIn Service, and can be reprinted later, which is processed as a new Print
196 Service job, with the original FaxIn header information burned into the FaxIn document
197 data. A FaxIn Service can cache a FaxIn job internally and have both Destination for
198 document storage (archiving the FaxIn document) and Destination URI (for emailing out the
199 FaxIn document to recipients). Hence, there is a result status for each FaxIn job which can
200 be logged for regulatory compliance, then the FaxIn document can be printed, or emailed
201 as a new job. JobSave applies to FaxOut job, which can be resubmitted to retry the FaxOut
202 job, e.g. for FaxOut failed the first time.
- 203 ○ AI: Pete and Ira to work on FaxIn operations and additional Power Management elements
204 required in subunits of MFD System.
- 205 ○ AI: Pete to create WSDL file for FaxIn.
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207 **9. Next Steps**

- 208 ○ Next teleconference is August 26, Thursday, 2010, 3pm EDT.