

1 **PWG MFD Working Group Face-to-Face Meeting Minutes**
2 **At Xerox, Webster, NY**
3 **June 9, 2010**
4

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 Mike Sweet, Apple
11 Jerry Thrasher, Lexmark
12 Bill Wagner, TIC
13 Rick Yardumian, Canon
14 Peter Zehler, Xerox
15 *Phone-in attendee
16

17 **2. Minutes Taker:** Nancy Chen
18

19 **3. PWG IP Policy:**

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

23 **4. Agenda:**
24

25 **Morning -**

26 9:00-9:15 : Introductions, Assign Minute Taker(s)

27 9:15-10:15 : Prototype results for Copy and FaxOut Services

28 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdcopymodel10-20100601.pdf>

29 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdfaxoutmodel10-20100601.pdf>

30 10:15-11:15: Last Call discussion MFD Requirements

31 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdreq10-20100601.pdf>

32 11:15-12:00: Review System Service specification

33 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdsystemservicemodel10-20100601.pdf>

34 Review of Services Operations & Health attribute schema
35

35 **Afternoon –**

36 1:30-2:30 : Continue review of System Service Specification

37 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdsystemservicemodel10-20100601.pdf>

38 2:30-4:45 : Review FaxIn Service specification

39 <ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdfaxinmodel10-20100607.pdf>

40 4:45-5:00 : Next Steps
41

42 **5. Copy Service Review**

43 **5.1. Stable Draft Review**

- 44 • Terminology – removed some residual terms such as Document Ticket, since there is no
45 document internal to Copy service.
 - 46 ○ Agreed that Digital Document should be removed, unless it's referred to as out of
47 scope. The word "Document" should be in lower case throughout the spec.

- 48 • Operations Table – fixed Input and output parameters.
- 49 ○ Agreed that all ElementNaturalLanguage should be changed to
- 50 ElementsNaturalLanguage
- 51 • Agreed that Hold/ReleaseCopyJob are user operations.
- 52 ○ Pete will make sure that all operations are in proper class (user, admin), be
- 53 consistent with the MFD Overall spec.
- 54 • Agreed to change Page 1, line 2: the file name for copy spec “...Copymod...” to
- 55 “...copymodel...” (lower case C).
- 56 ○ Pete will make sure the correct file name is used here for the Stable version.
- 57 • Pete will make sure all external references are included and correct.

59 5.2. Prototype Results

60 Pete reported the results from the prototyping effort in Xerox. The Xerox prototyping group
61 was trying to put all processing instructions of a job ticket in a single sequence and used PWG
62 CopyService’s job ticket model with separated input side and output side. Found no issue with
63 the internal representation of the copy job itself. The prototype effort covered user interfaces
64 for Copy Service: mainly CreateCopyJob, CopyJobTicket.

65
66 Pete will send out email for prototype results report (for both Copy and FaxOut services,
67 including the scope of model and operations prototyped).

69 6. FaxOut Service Review

- 70 • Agreed to Pete reported changes made to the Stable version:
- 71 • Updated FaxOutServiceCapabilities for being aligned with the current schema.
- 72 • JobProcessing element originally had just DestinationURI. But there is an issue with the IETF
- 73 rfc3966 compliant DestinationURI. IETF Rfc3966 superseded rfc2806 and dropped fax
- 74 dialing string and also fax URI scheme; IETF wants URI scheme to represent a resource, not
- 75 how to actually reach the resource. We want to specify the dialing method to the receiving
- 76 fax device URI. Hence added annotations and PreDial- and PostDial-String and
- 77 T33Subaddress to the DestinationURI.
- 78 • Element name in schema is the same as type so to keep away from one of the bug/conflict.
- 79 • There was no problem with using (PreDialString)DestinationURI(PostDialString) syntax in
- 80 prototyping effort.
- 81 • Agreed to add example for DialString syntax in DestinationURI section of the spec.
- 82 • Agreed to fix some inconsistent capitalization of D and S in “DialString”
- 83 • Agreed to fix Line 599 – “sting” to “string”
- 84 • Agreed to add PreDialString, PostDialString, and T33Subaddress in Terminology.
- 85 • Agreed to reword the last paragraph of section 7.3.3.1.
- 86 • Agreed to align all user/admin operations with Overall Doc (put them in the right class).
- 87 • Agreed to changes in Table 1, and remove the Media example from line 416 in section 6.3, and
- 88 remove the “Media” from the spec globally.

90 7. Service Operations Document for MFD Overall Model and Semantics

91 <ftp://ftp.pwg.org/pub/pwg/mfd/white/ServiceOperations-20100517-rev.pdf>

- 92 • Agreed to changes in Table 1 – MFD Common Operations and Antecedents
- 93 • Agreed to changes in Table 2 – Basic MFD Interface Request and Response and Notes

94 **Basic Operations -**

- 95 • Agreed to changes in Section 1.1.1
96 • Agreed to change “Retained Document” to “Retained Job” in section 1.1.1.16.
97 • Agreed to remove “3. The Service does not support the specified URI Scheme, or
98 4.The Job is not found. “ in section 1.1.1.18 Send<service>Document.
99 • Agreed to add “If a document size, format, or compression is not supported” as one of the
100 reason to reject a Send<service>Document request in section 1.1.1.18.
101 • Agreed to also add “If a document size, format, or compression is not supported” as one of the
102 reason to reject a Send<service>URI request in section 1.1.1.19.

103 **Administrative Operations**

- 104 • Agreed to replace the text of Cancel<service>Job & CancelMy<service>Job with the new text
105 from IPP JPS2 spec.
106 • Agreed that in Table X – “**Legal Transitions Effected by Cancel<service>Jobs Operation**”, all
107 “Failure” should be changed to “Success”. The only time this operation fails is when you don’t
108 have appropriate permission/privilege.
109 • Agreed that in Table10 – In IPP the mandatory HoldNewJobs is a state reason, not first class
110 attribute. JPS2 does so too. Remove the "<service>Status" element "IsHoldingNewJobs" and
111 make sure a "<service>StateReason" value of ' HoldNewJobs' exists in the Schema. The text
112 description for HoldNew<service>Jobs operation should be corrected accordingly.
113 • Agreed that in the MFD Overall document, there should be description about Job State Reasons,
114 Service State Reasons and they are extensible; they work in tandem with Job State and Service
115 State to represent the state of a job or service. MFP Job State Reasons is a super set of IPP’s.
116 Fault code should not be included, which is tool-dependent in WSDL binding.
117

118 **8. MFD Requirements Document Review**

- 119 • Agreed with the added Terminology section – a subset from Overall.
120 • Agreed that Section 1 – Table of Content should be regenerated
121 • Agreed to remove the Objective section (Section 4)
122 • Agreed to delete the Antecedents in Table 2 – only list operation names and reference rfc2911
123 only.
124 • Bill will update the document and post the Stable version to call for PWG-wide Last Call
125 tomorrow (June 10).
126

127 **9. SystemService Initial Draft Review**

- 128
129 • Agreed that Line 16 – change “extends” to “will extend”. PWG Semantic Model Version 2 does
130 not exist yet.
131 • Agreed that in XML Schema, replace “MFDSERVICE”with “SystemService”
132 • Agreed to add the distinction between System Object and System Service, in section System
133 Model Overview.
134 • Agreed to clarify that there is no reason to bind this model to XML in section 4.3.
135 • Agreed to leave conformance terminologies out, leaves them in Overall document and put in
136 correct reference to Overall document only.
137 • Agreed to add to Rationale: for design requirement, use cases, etc., see MFD Requirements.
138 • Agreed to remove #3 in section 4.2. Out of scope.
139 • Agreed to change the document title to “System Object and Service Model and Semantics”
140 • Agreed to the Schema: System object should keep Services, SystemCapabilities,
141 SystemConfiguration, SystemDescription, and SystemStatus, but SystemService (was

- 142 MFDService) should inherit from Imaging Service base type, but remove
143 SystemServiceCapabilities, SystemServiceCapabilitiesReady, and DefaultSystemJobTicket
144 (because SystemService does NOT create Jobs).
- 145 • System object at System level has SystemCapabilities that provides allowed values for system
146 operations. Currently we have power management capabilities only.
 - 147 • Agreed to separate System object and system service capabilities. Do the same for all others –
148 SystemDescription, SystemStatus, ...etc.
 - 149 • Agreed to add ListServices operation – this gets endpoint URI, service status, service type for
150 SystemService and every other service hosted on the system.
 - 151 • **Issue regarding the ConditionTable:** There is a ConditionTable under the root (i.e.
152 System.SystemStatus.ConditionTable) and under the SystemService (i.e.,
153 System.Services.SystemService.SystemServiceStatus.ConditionTable). It is not clear to Pete if
154 the SystemService ConditionTable is a service specific view or if it is system wide. If it is service
155 specific we need a way for an operation(s) to differentiate. If it is system wide, the
156 ConditionTable under SystemService is redundant. Perhaps the ConditionTable should be
157 factored out of the base class and added to every service except SystemService. Then
158 SystemService will present a view of the system wide ConditionTable.
 - 159 • Agreed that the Restart operation provides two parameters to specify whether the service is
160 disabled, and /or paused. The default is what's previously documented,. i.e. IsAcceptingJob and
161 Disabled are true.
 - 162 • Agreed that for Startup – IsacceptingJob default to false (disabled) after the system comes up as
163 Idle. The operation provides parameter IsacceptingJob for optionally being set to true so that
164 the service is disabled ater system is started up. This can allow reconfiguration before accepting
165 jobs.
 - 166 • Agreed to the change of each entry of XriSupported to include XriUri, XriAuthentication,
167 XriSecurity.
 - 168 • Agreed that SystemDescription (for System object)
 - 169 - Delete XriSupported and VersionsSupported (The Services element contains the details of
170 the service instances including their XriSupported.)
 - 171 - AvailableResource contains resources available to the system
 - 172 - RepertoireSupported is a subset of character set, should be deleted
 - 173 - ServicesSupported and XriSupported should be combined so that multiple URL's per service
174 can be enumerated and URLs can be bound to service types
 - 175 • Comment: Table 1 – RequestedElements: could be different for difference service instances
176 even for the same type of service.

177

178 **10. FaxIn Service Review**

- 179 • Agreed to remove "Document" completely from the spec. There is only user data.
- 180 • FaxIn does not have a Document. Only its data may need to be sent to a repository.
- 181 • FaxIn data comes in, a FaxIn Document object (only one) is created. The disposal of the
182 document data is configurable.
- 183 • Agreed to delete the out of scope item #1 from Rationale section.
- 184 • Agreed to remove "Enterprise" and "Network connected" from all spec (FaxOut and FaxIn).
- 185 • Comment: a FaxIn Service can have different queues (for network FaxIn, telephone FaxIn), or a
186 MFD may have multiple FaxIn Service instances, each has a different type of queue.

- 187 • FaxInJobTicketAvailable is a sequence of choice of either a FaxInmatrices or a FaxInJobticket
- 188 which is now a sequence of FaxInJobTicketEntry, which is a mandatory faxInMatrix for a job
- 189 ticket to apply to an incoming job.
- 190 • In FaxInMatrices,
- 191 - Agreed to change DateTime to TimePeriod (working hour, evening hour, weekend, ..., etc.)
- 192 - There can be multiple matrices (a sequence) for binding a job ticket to a particular job.
- 193 - Agreed to delete OCR for now: for vendor extension. Currently it's not clear how to specify
- 194 this for filtering incoming fax job for OCR (barcode, cuecode, special text string, ... for
- 195 routing information).
- 196 - Agreed to add Color (binary, grayscale, or color), for whether you want to print in color in
- 197 DocumentProcessing element.
- 198 • Agreed to keep Job level and document level DocumentProcessing element. But there is only
- 199 one Document object.
- 200 • DefaultFaxInJobTicket is used when job is created – MUST be supplied. In other service this is
- 201 optional. FaxInJobTicketReady is the one has matched with FaxInMatrices.
- 202 • Agreed: Update all Scan and other service spec to mandate DefaultJobTicket. But it does not
- 203 have to be populated (an empty container), an administrator can set the contents.
- 204 • Agreed: In ImagingJobDescriptionType, Make JobOriginatingUserName, JobName mandatory
- 205 • Agreed In ImagingJobStatustype , change JobStateReasons from optional to Mandatory and
- 206 could have None or infinite number of entries. Change DateTimeAtCreation to Mandatory in
- 207 accord with IPP. Also change DateAtTimeCompleted and DateTimeAtProcessing to mandatory
- 208 and if it's empty, the state has never reached. Move Ticks and Uptime elements to Print service
- 209 mandatory only, optional for other services.
- 210 • An attribute that can be naturalized, must include ElementsNaturalLanguage. Pete and Ira to
- 211 correct FaxOut, FaxIn, Copy, System specs for the above changes accordingly.
- 212 • Pete to change FaxIn Service Schema – Make sure there is only 0-1 Document.
- 213 • Update FaxInJobTicketAvailable with Pete's updated ticket Schema.
- 214 • Agreed to move FaxInDefaultJobTicket to top service element level. Move
- 215 FaxInJobTicketAvailable to top level too, and rename to "AvailableFaxInJobTicket".
- 216 • Agreed that In Table 2, remove all Multiplexxx... elements, and DefaultFaxModem (need for
- 217 FaxOut only), must accommodate both e-fax (mailto:) and PSTN fax (tel:).
- 218 • Agreed that In FaxInJobStatus – need incoming efax channel ID and modem ID over which an
- 219 incoming fax is receive and distinguish whether efax channel vs. PSTN fax modem is used.
- 220 • Agreed that In FaxOut, Currently there is nothing represents different fax types other than URI –
- 221 leave it that way.
- 222 • Agreed that change StateReasons of ImagingServiceStatusType to Mandatory to be consistent
- 223 with previous discussion.
- 224 • Agreed that Schema change ServiceName, OperationsSupported, ServiceVersion to mandatory
- 225 in FaxInServiceDescriptionType.
- 226 • Agreed that in FaxIn Job Model, JobHistory is mandatory. Add these in Schema for both FaxIn
- 227 and FaxOut services, unlike for other services, it's optional.
- 228 • FaxInJobStatus – added Job Channel for receiving fax job (something like originating URI and
- 229 subunit ID), TimeAtxxx should be removed, JobStateReasons should be mandatory.
- 230 • Agreed that FaxInJob counters does not distinguish the counts for different faxIn type (channel
- 231 vs. modem) – can use different FaxIn Service to count different faxin type jobs.
- 232
- 233

11. Next Steps

- 234 • Bill Wagner will update the Requirement document, and start PWG last call tomorrow.
- 235 • Pete will update FaxOut and Copy Services with schema changes for working group last call.
- 236 • Next teleconference in 3 weeks – July 1, 2010, 3pm EDT.
- 237