PWG MFD Working Group Teleconference Meeting Minutes
January 14, 2010

Attendees:

Nancy Chen,	Oki Data
Lee Farrell,	Canon
Ira McDonald,	High North, Inc.
Bill Wagner,	TIC
Peter Zehler	Xerox

1. **Identify Minute Taker –** Nancy Chen

2. **PWG process**
   Attendees were informed that the meeting is held in accord with the PWG Intellectual Property Policy. There was no objection.

3. **Approval of minutes**
   The last teleconference meeting minutes: ftp://ftp.pwg.org/pub/pwg/mfd/minutes/pwg-mfd-minutes-2009120107.pdf was approved without change.

4. **Agenda**
   1. Identify Minute Taker
   2. Approval of minutes from last meeting
   ftp://ftp.pwg.org/pub/pwg/mfd/minutes/pwg-ftf-mfd-minutes-20100107.pdf
   3. Agenda bashing
   4. Review MFD Overall specification
   ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdoverallmod10-20100111.pdf
   5. Review service operations
   ftp://ftp.pwg.org/pub/pwg/mfd/white/MFD-IPP-Operations5.pdf
   6. Next steps

   We agreed to review service operations before MFD Overall specification.

5. **Review Service Operations**

   - General: We agreed that all MFD services should have homogenous interface; i.e. if a service has an operation, all services that have the applicable function should have the same operation.
   - Agreed that Activate/Deactivate operations are Printer/PrintService only. They are not even very useful operation in Print.
   - Agreed that all listed Cancel job operations are applicable for all services.
   - Agreed that any service that has multi-document job may include Cancel-Document. This is not applicable to CopyService because CopyService does not expose Document.
   - Agreed that Delete-Document/Job destroys accounting, will not be included in MFD Services.

45   o **AI**: Ira to ensure IPP WG to deprecate/not to implement these operations in IPP
46   semantics.
47   • Agreed to include Enable/Disable\<service\>Service for all services, originated from
48   Enable/Disable-Printer.
49   • Agreed to include the followings for all services:
50   o Get\<service\>Document/JobElements: get all attributes of a document/job. This
51   operation is from Get-Document-Attributes/Get-Job-Attributes in IPP.
52   o Get\<service\>DocumentElements: get summary information of all documents; it
53   originated from Get-Documents in IPP.
54   ▪ **AI**: Pete to create appropriate schema for the operation.
55   o GetActive\<service\>Jobs, Get\<service\>JobHistory: get a summary of all jobs; it
56   originated from IPP Get-Jobs.
57   o Get\<service\>ServiceElements: get the attributes of a Service; it originated from
58   IPP Get-Printer-Attributes.
59   o Get\<service\>ServiceElements(\<service\>ServiceCapabilities): get the capabilities
60   of a service; it originated from IPP Get-Printer-Supported-Values.
61   o Hold\<service\>Job: originated from IPP Hold-Job
62   o HoldNew\<service\>Jobs: originated from IPP Hold-New-Jobs
63   o Pause\<service\>Service: originated from IPP Pause-Printer
64   o Pause\<service\>ServiceAfterCurrentJob: originated from IPP Pause-Printer-After-
65   Current-Job
66   o Promote\<service\>Job with optional parameter for promoting a job to run after
67   another job; it originated from Promote-Job in IPP.
68   o ReleaseNew\<service\>Jobs/Release\<service\>Job: originated from IPP Release-
69   Held-New-Jobs/Release-Job.
70   o Reprocess\<service\>Job: originated from IPP Reprocess-Job (copy from a job ID).
71   (Note: later this operation is replaced by Resubmit\<service\>Job without job
72   processing attributes.)
73   o Restarte\<service\>Service: originated from Restart-Printer.
74   o Resubmit\<service\>Job: reprocess job with submitting job processing attributes.
75   Since Resubmit Job without the optional job processing attribute is the same as
76   Reprocess Job, Reprocess\<service\>Job is redundant.
77   o Resume\<service\>Job/Service and Suspend\<service\>Job/Service
78   o IPP's Schedule-Job-After is semantically the same as Promote\<service\>Job with
79   optional JobID parameter.
80   o Send\<service\>Document/URI: originated from IPP Send-Document/URI
81   o Set\<service\>Document/Job/ServiceElements: originated from IPP Set-
82   Document/Job/Printer-Attributes
83   o Shutdown/Startup\<service\>Service: originated from IPP Shutdown/Startup-
84   Printer
85   o Validate\<service\>Document/JobTicket: originated from IPP Validate-
86   Document/Job.
87   ▪ **AI:** Pete to add Validate\<service\>Document in all services.
88   • Discussion: Cancel-subscription/Create-Job/Subscription/Create-Printer-
89   Subscription/Get-Notification/Get-Subscriptions/Get-Subscription-Attributes/Renew-
90   Subscriptions can all be implemented by WS-Eventing. Though we do need the

91	semantics for these WS-* protocols. We need Notification and Subscription objects,
92	perhaps under System object, in a Subscription Service. Not sure how the eventing can
93	be implemented in REST web services. This subject will be open for further discussion
94	in the February face-to-face meeting.
95	• Agreed that Print-Job and Print-URI will not be included in MFD services. These are
96	convenient operations for combining Create-Job, Send-document, Send-URI, Close-Job
97	in IPP.
98	• The definition of Purge-Jobs is to recursively delete the jobs; this will not be included in
99	all services. WS-Scan does not have PurgeJobs either.
100	• Agreed that IPP WG to deprecate Restart-Job, not to be included in other MFD services.
101	
102	6. **Review MFD Overall Specification**
103	
104	• Page 13: Agreed to delete "<service>" from ActiveJob definition.
105	• Page 23: Section 2.3 is consistent with the current Schema: ContentRegion complex type
106	is used by ScanRegion and ImageBox.
107	• Page 34: Accepted the new text additions.
108	• Page 36: In Table 5, PowerMonitor needs update from the latest Schema version 1.88.
109	• Page 39: In Table 7, currently CoverSubunitType does not have a datatype.
110	○ **AI:** Pete will add appropriate extensible enumerations to the CoverSubunitType
111	in the Schema.
112	• Page 52: In Table 17, currently FeedDirection does not have a datatype. This has been
113	fixed in the Schema. This is the same as FeedOrientation in Print of type keywords
114	ShortEdgeFeed and LongEdgeFeed. FeedDirection is a better name.
115	• Page 90: Added DelayOutputUntil and DelayOutputUntilTime in Table 34. The Schema
116	has added these elements. Keywords are the same as those for JobHoldUntil.
117	○ Bill to update the JobProcessingCapability diagram
118	• Section 5.2.3.1 and 5.2.3.2: The actual descriptions/definitions for DelayOutputUntil and
119	DelayOutputUntilTime will be discussed in Feb. face-to-face meeting.
120	○ **AI:** All please bring your comments to face-to-face meeting.
121	• Section 7.3 Service Operations: Question on whether the discussion of IPP operation
122	attributes and errors should be added –
123	○ The eventual error codes from all services should not be limited to IPP's. It
124	maybe better to just state that there is a standard set of errors that all service can
125	use, and that the document can reference in the future.
126	• Section 7.3.1: The missing text of the very last sentence in the first paragraph on line
127	1715 of the PDF version needs to be fixed.
128	• General Question on Section 7.3: How to identify the service instance the service
129	operation is to apply to? For example Disable/Enable a specific instance of service when
130	there are multiple instances of the same type of service.
131	○ Each instance of service is on its unique transport end point, through which you
132	can only tell the service to disable/enable itself.
133	○ Currently at the System level, there are only Disable/Enable<service>Services,
134	and Pause/Resume<service>Services (to all services). When desirable, we can
135	add ServiceType and ServiceID as parameter to these system level operations for
136	targeting on only one service instance.

137 • Section 7.3.2.18:
138   o Question on whether a job in Processing-Stopped state can be suspended
139   ▪ A job can go into Processing-Stopped state because the lack of resources,
140   therefore it should be not a problem to suspend the job. The job is then in
141   Processing-Stopped state with "Job-Suspended" as the state reason.
142   ▪ It is not the job state that determines whether the job can be suspended,
143   it's whether the job state is encoded with its job state reason.
144   o Question on whether the statement is applicable when the optional JobID contains
145   only one JobID: "If more than one job is in the 'Processing' or 'processing-
146   stopped' state, all of them are suspended."
147   ▪ Pete thought SuspendCurrent<service>Job does not allow JobIDs as input
148   parameter.
149   ▪ Bill thought this operation has an JobID as an optional parameter.
150   ▪ **AI:** Pete will investigate to determine the correct semantic.
151
152 7. **Next Step**:
153   • Next teleconference in two weeks: January 28, Thursday, at 3pm EDT.
154   • Pete to update MFD service specs to synchronize with Bill's new update in Overall
155   spec.
156   o Scan/FaxOut service specs are in very good shape
157   o Copy Service spec is in fine shape
158   • Pete will update the MFD white paper and distribute to PWG-announce list.