PWG MFD Working Group Teleconference Meeting Minutes
January 29, 2009

1. Attendees:

Shah Bhatti,	Samsung
Nancy Chen,	Oki Data
Lee Ferrell,	Canon
Ira McDonald,	High North, Inc.
Bill Wagner,	TIC
Dave Whitehead,	Lexmark

2. Identify Minute Taker – Nancy Chen

3. Approval of minutes from last teleconference
ftp://ftp.pwg.org/pub/pwg/mfd/minutes/pwg-mfd-minutes-20090115.pdf

No objection to the minutes.

4. PWG IP Policy
Attendees were called attention to be aware of the PWG IP policy. There was no objection.

5. Agenda

1) Discuss syntax of JobPhoneNumber on line 2182 of Scan specification

2) Discuss open ended REQUIREMENT governed by a third party (End User) policy on line 2788-2790 of Scan specification

3) Discuss Bill's comments on in Resource Service
      a) Proposed Resolution by Nancy
< ftp://ftp.pwg.org/pub/pwg/mfd/white/nancy-Proposed-Resolution-for-Bill-W-comments-for-Resource-Service-20090127.pdf >
      b) Discussion of Testing State, transition in and out, and method of transition   Part of both Resource and Scan Service discussion)

4) Discussion on Scan Service State and proposed change to section 10 of the specification

      a) Chose between the existing text, proposed text or arrive at some other consensus.

        Existing text is section 10
        < ftp://ftp.pwg.org/pub/pwg/mfd/wd/lcrc-mfdscanmodel10-20090122.pdf >

        Proposed change is available at
        < ftp://ftp.pwg.org/pub/pwg/mfd/white/ScanServiceTheoryOfOp.pdf >

1   5) Discuss any comments on the Resource Service interim draft.
2   Objective is to move to the Last Call version for review at the Face to
3   Face.
4
5   < ftp://ftp.pwg.org/pub/pwg/mfd/wd/wd-mfdresourcemodel10-20090115.pdf >
6
7   6) Next steps
8
9

6. Discuss syntax of JobPhoneNumber on line 2182 of Scan specification

- Ira said telephone number syntax has been standardized by RFC2xxx as tel:URI that also covers the syntax fax:URI for fax. Pete thought fax:URI has been dropped from the latest RFC. Ira said but it still remains registered in standard RFC thus has been in IETF fax implementations.
- Resolution: Use tel:URI or fax:URI and give RFC references.

7. Discuss open ended REQUIREMENT governed by a third party (End User) policy on line 2788-2790 of Scan specification

- The issue is with the statement "For protection of the Documents transmitted over the network between a Scan Service and a Document Repository or a Scan Client, the Scan Service SHALL support the secure communication protocols required by the End User's site policy, which may require signing and/or encryption of the transmitted Document." Since we don't know what user's site policy is, there is no way to know what must be supported. Pete said the intent of the statement in that paragraph is to say "the Documents transmitted over the network between a Scan Service and a Document Repository or a Scan Client can be secure". We agreed that if we state "SHALL support" those, we need to name the list of those. It is recommended that the minimum list of secure transmission protocol should be recommended for security interoperability instead of required.
- Resolution: Remove the 3rd paragraph. But the abstract spec should recommend to add HTTPS as a supported URI scheme in the URISchemeSupported attribute for interoperable security.

8. Discuss Bill's comments on in Resource Service

    1) "It is common usage that a Job is submitted to the Service. This is
in Abstract to the Resource Service and at various places in the text. I
have used the expression extensively in working on the General document. But
in the model that is being defined, the user/client submits a CreateJob
request, and perhaps he submits a document, but the Service creates the job.
At least that is my understanding. Since this aspect of the model is
different from common usage, I suggest we avoid the terminology of
"submitting a job" in that it would reinforce a concept contrary to the
Model."

- We agreed that Imaging Job Services "create a job" but not "being submitted a job". The proposed new text for the Abstract is a little too detailed.

- Resolution: Use the existing Abstract, replace "job submission" to "request for job creation". This will be updated accordingly throughout the document.

2) "I have trouble with saying that the Resource Service is accepting Jobs (para 6.5.10.2.1 et al). From my understanding of the overall model, it does not accept, create or deal with jobs. It accepts and provides information about accepted resources to a user/client. It provides resources to other Services. Should this be "is accepting and supplying resources""

- "IsAcceptingJob" works for all other services except for Resource Service. It should be "IsAcceptingResource" which means it will accept new resource storage/retrieval requests. It is used in base image class for all services. But it can be changed to a choice between "IsAcceptingResource" or "IsAcceptingJob".
- Resource Service should not have "Stopped" state. Stopped state can only be entered through "Pause" operation which is not needed in Resource Service. Critical condition could cause job service to stop, but for Resource Service it will simply make "processing" failed.
- Resolution:
  - Pete will change the Schema to a choice of "IsAcceptingResource" or "IsAcceptingJob"
  - Change "IsAcceptingJob" in the state transition table to "IsAcceptingResource".

3) Discussion of Testing State, transition in and out, and method of transition.   (Part of both Resource and Scan Service discussion)

- Testing state does make sense for both Scan and Resource Services, but currently there is no test() operation defined to enter the state.
- "Stopped" should not be a state in Resource Service, there is no such thing as delaying the response of Resource Service like other job services by a "pause" then a "resume" operation. Resource Service processing is like a TCP/IP request, once started it's either completed successfully or in failure. Resource Service does not have "pause" or "resume" operation, it has "disable" operation that stop accepting resource strage/retrieva; requests, only sets the IsAcceptingResource condition to false, there is no state associated with the condition. When there is a critical event while in "processing", the processing should fail but not change to stopped state.
- Should E.endJob be changed to "E.endRequest" for example to be consistent with removing 'Job' from "IsAcceptingJob"?
- Resolution:
  - Remove test() operation from state transition table and diagram. Make a note to state that currently there is not test operation defined in the service protocol.
  - Remove "Stopped" state from the state transition table and state transition diagram.
  - Change E.endJob to "E.endRequest".
  - Rework the service transition diagram to reflect the change.

4) The sole purpose is to provide resources to other services. Yet are we considering the Resource Service to be completely independent and separate from the Job Processing services?

- Resource Service is completely independent and separate from the Job Processing services. There are no Resource Service operations directly to other services. The operations defined are for Resource Service and its client/user. A local job service that requires a resource for job processing must act as a client to retrieve the resource from Resource Service.

5) In the compliance section (8), requirements are placed on clients and Resource Service. If the operations listed also apply to the supported Services, are these Services also Resource Service clients? If so, I suggest that it is not reasonable to require them to support all of the "required" operations.

- If a job service needs to use Resource Service, it should implement a Resource Service client interface. How much of the client interface is needed is implementation dependent. Every job service may have its own partial Resource Service client interface. Multiple job services may share the same Resource Service client component. These are all implementation dependent.
- Resolution:
  - Remove the paths between the Resource Service and all other job services in the MFD system overall architecture reference diagram.
  - In Resource Service operational interface section, clarify that a job service may implement a Resource Service client interface to use any of the operations to use the Resource Service. To use a common Resource Service client for all job services or a separate client for each job service is the implementer's decision.

9. Next Steps

- The next teleconference is on January 12, 2009, Thursday, 3pm EDT.
  We will discuss all issues need to be resolved before the next face-to-face meeting.
- The issue around section 10 (Theory of Operation) for Scan Service will be discussed through MFD email list. Pete will send out email note right after the meeting minutes.