Proposed Resolutions for Comments for Resource Service Spec

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.

Proposed Resolution:
I think the following points are not clear in the abstract: (1) Template – a job ticket pre-configured with user's intent (including the use of other job resources) is a very important resource that Resource Service will store and retrieve for effectual job submission of other MFD services. (2) When other job resources such as specific fonts, logos, forms are prescribed in the Template, the Resource Service will be served for these resource retrievals by the intended MFD job-related service. (3) The Resource Service also can be used to store or install resources by users or administrators before retrieval for job processing by other services.

Here is proposed text for the revised Abstract:
"In this document, we define the term Resource as MFD job resources for other MFD job-related services, many of them need to be licensed or professional prepared thus are preferred to be cost effectively shared across enterprise network users and services. These resources include Executable Resources such as Software and Firmware, Static Resources such as Font, Form, Image, Logo, ICCProfile, and Template. Template is a job ticket pre-configured with user's intent (including the use of other aforementioned job resources). Template is a very important resource that Resource Service will store and retrieve for effectual job submission of other MFD services. When other job resources such as specific fonts, logos, forms are prescribed in the Template, the Resource Service will be served for these resource retrievals by the intended MFD job-related service. The Resource Service also can be used to store or install resources by users or administrators before retrieval for job processing by other services. This document defines a service that manages these aforementioned resources."

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"

Proposed Resolution:
"IsAcceptingJob" is an attribute of imaging service status for the PWG generic Imaging Class semantics. In Resource Service or Print/Scan Service, the ResourceServiceStatus simply reuses this state in both the abstract model and the XML schema mapping. But the semantics of "IsAcceptingJob" state in Resource Service a little different. This state indicates the Resource Service is accepting resource storage and retrieval requests along

with other type of requests. When "NOT IsAcceptingJob", the Resource Service can only accept other resource service status, description information, listing resource, getting resource information requests. So "IsAcceptingResourcesStorageAndRetrieval" may be a better name for this state in the transition diagram? I welcome other suggestions.

For consistency, should we also change "EndJob" in 6.5.10.2.2 to "EndRequest" ?

3. If we agree in general that paths to and from Testing are implementation dependent, I suggest that the "test" operation be removed and perhaps that the Testing state be removed from 6.5.10.2.1 and 6.5.10.2.2

Resolution: discuss and get consensus from the group.

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?

Yes, Resource Service is completely independent, and can support all requests for storing or retrieving resources from multiple other services and clients simultaneously.

a. Are the basic service operations described in Section 7.1 the inter-service operations as well setup and configuration operations with a Client/User?

Yes, conceptually they are all service interfaces from a Resource Service Client that can be used by other services and Client/User as well.

b. Is there but one access path, so that in the Idle State, it is handling neither client or Service requests? And in the Processing state, it is handling requests from a either client or another Service?

The access path to the Idle State or any other state of Resource Service is through the "GetResourceServiceElementsRequest" interface and pass in ResourceServiceStatus as one of the RequestedElements (see 7.1.4). I can see that as soon as the Resource Service received this request in Idle State, it should immediately transit out of Idle State to handle the request, then it's not in Idle State any more. However as far as Resource Service States concern, Idle State is a legitimate state. Only that perhaps users/clients/other services can never see this state.

Ira is the expert in machine/service states and state transitions, would Ira please comment?

c. When it is Down and offline with respect to clients, is it also offline with respect to responding to other services, perhaps in the same device?

Yes.

Ira, do you have other comments?

5. SetResourceElements (7.1.11) and all of the Administrative Resource Service Operations (7.2) are not indicated as Required or Optional.

These are OPTIONAL operations as indicated by (8.2.2) in Resource Service Conformance Requirements. I will make sure they are labeled “OPTIONAL” or “REQUIRED” in the semantics of each operation in (7.1.11) and (7.2).

6. 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.

Resolution: The Client Conformance Requirement (8.1) is for “any client of a MFD”, the client could be internal or external to MFD. For a MFD service to make a Resource Service request, I would think it better to make the request through a nearest MFD client that supports Resource Service interfaces. In many cases if multiple MFD services need Resource Service, I would think it’s more practical for a MFD to support a MFD client for service efficiency, instead of having each individual MFD service support some of the Resource Service interfaces it needs. The latter may also cause redundant implementation of Resource Service interfaces in each individual MFD service. Of course, not all MFD system requires a Resource Service. But if one does, it’s a good idea to have all Resource Requests come from a Resource Client that supports the required interfaces.