Meeting Minutes

PWG MFD Working Group Teleconference
October 4, 2007

Attendees:

Nancy Chen	Oki Data
Mike Fenelon	Microsoft
Ira McDonald	High North Inc.
Glen Petrie	Epson
Craig Whittle	Sharp Lab
Peter Zehler	Xerox

Pete quickly reviewed the resolutions from the last face-to-face meeting with attendees using the Meeting minutes for Sept. 28 –
(Note: Words or statements in red are changes to the resolutions in the last meeting or new from this teleconference.)

- Glen's AI is complete
- Pete will update the schema (estimated completion date: next Monday).
- For storing scan document(s) at user specified Document Repository, the requesting user must administer the Document Repository to allow the Scan Service to write data at the specified location, and protect the document from others' access when appropriate.
- The Scan Service schema will be modified for the scan destination a choice of a directory or an entry (filename) URL in a document repository. A directory will allow multi-documents to be stored.
- The "restricted use" of a template for certain will not be indicated in the template schema. A user is always able to Put, Get, and List the template to which he is allowed. Instead of passing template by reference in CreateScanJob, the template is always passed by value. The policy established at the Scan Service determines the restricted use of the template by certain client.
- A template will be identified by the TemplateName and its TemplateOriginatingUserName for authenticating a user's use of a "restricted use" template. These two names will not override the JobName and JobRequestingUserName.
- RequestingUserName is the required security attribute for the Scan Service protocol. As in IPP, this can be replaced with the most authenticated name if one is available.
- Signing or encrypting a user's 'stored' scan document is outside the scope of Scan Service. The Scan Service should utilize the existing encryption and signing capabilities of the Document Repository for signing/encrypting the stored documents. The need for signing or encrypting documents between the client and the Scan Service must not be the client's intent. The requirement for encryption will have serious issues on how to manage the encryption keys among the three communication entities. We need further investigation to decide how to specify the need for signing or encrypting documents by the Scan Service over communication channel between the client and the Scan Service, and between the Scan Service and the Document Repository. Right now we believe this can be implicit in the destination URL.

- The Scan Service needs to declare the URL schemes it supports to store the scan documents. At least one should be mandatory.
- The XML schema for Scan Service capabilities will be a sequence of local redefinition of the supported processing elements with the same names.
- The Scan Service allows four possible types of documents and files stored for a job:
  A. Single document stored in single file. The scan destination is the file URL.
  B. Single document stored in multiple file (for storing multiple pictures scanned). The scan destination is the directory URL of the files. The Scan Service uses best practices to generate each file name.
  C. Multi-documents, each document is stored in single file.
  D. Multi-documents, each document stores data in multiple files.

  A job has 1~n documents. After documents are stored, document object will be updated with document URL with file location(s).

  It is recommended that at least one of the above must be mandated for interoperability. In addition to URL, MIME type must be specified instead of file type because MIME type has clearer implication of file format.
- Two modes of operations are defined for the Scan Service to serve for document retrieval:
  (1) The Client issues RetrieveScanDocument request, a "PULL" mode to pull documents from the Scan Service.
  (2) The Scan Service "PUSHes" (store) the document data to the destination Document Repository, the Client retrieves the document from the document URL of the Document Repository. A special case of this mode is the Scan Service "PUSHes" data to the Client. The scan destination has a dedicated listener (instead of a Document Repository URL) that allows the Scan Service to push the data.
- The method of retrieving/sending Scan document data can be :
  (1) One file at a time - For a document having multiple files, the client will need to retrieve by a series of "Get" each will return one of the files. Or
  (2) All at once in a ZIP file – This will return a single file with a sub-tree, simplifying the semantics of the operation. "RetrieveScanDocument" is the preferred operation name.

Plan for next week is to get the next version of the working draft and schema updated. Continue to walk through the rest of the use cases.

Next Teleconference: Oct. 11, 2007, 3:00pm EDT.