Cloud Face-to-Face Minutes  
August 2, 2011

Meeting was called to order at approximately 9:00am local August 2, 2011.

Attendees
Danny Brennan (call in)  
Nancy Chen (Oki Data)  
Tim McCann (Konica Minolta - call in)  
Ira McDonald (High North/Samsung - call in)  
Joe Murdock (Sharp)  
Ron Nevo (Samsung)  
Glen Petrie (Epson - call in)  
Amir Shahindoust (Toshiba - call in)  
Michael Sweet (Apple)  
Anil Thakkar (Thinxstream Technologies)  
Jerry Thrasher (Lexmark)  
Bill Wagner (TIC)  
Rick Yardumian (Canon)  
Pete Zehler (Xerox)

Agenda Items

1. IP Policy and Minute Taker
   a. Policy accepted with Mike taking the minutes
   b. Changing agenda to talk about PWG Semantics first
2. Cloud Job Ticket Mapping Effort (in parallel with PWG Job Ticket Document done by SM WG)
   a. XPS mapping depends on PSF (Print Schema Framework) schema
      - Grandchild of DEVMODE
      - Really mapping MS XPS job ticket; OpenXPS doesn't have a job ticket, it is just a document format.
      - Can't work on this until the legal issues are addressed (action item for Justin, answer expected after F2F)
   b. Google documents that they are using OpenXPS for capabilities, but there are no capabilities in OpenXPS?
      - Need to get clarification from Google.
   c. JDF subset/sparse mapping as well?
      - Action: Ira to investigate necessary subset of JDF for cloud
   d. PPD mapping
      - PageSize/PageRegion/InputSlot/MediaType/MediaColor -> media/media-col
      - ColorModel -> print-color-mode
      - Resolution -> printer-resolution
      - PrintQuality -> print-quality
      - Duplex (and others) -> sides
      - cupsIPPFinishings -> finishings
      - Collate -> multiple-document-handling or job-collate?
      - Strategy: Define how to do it right rather than focusing on backwards compatibility, map to/from PPD to PWG
      - Action: Pete to send Ron/cloud list a table with all of the PWG Job Ticket elements
      - First table: PWG to JDF, PPD, PSF
      - Remaining tables XXX to PWG with footnotes/text
      - Rationale:
        - Existing Cloud Printing solutions use PPD, PSF, and JDF for capabilities and job tickets. Because the mapping of these elements to the PWG Semantic Model is not one-to-one, we need a best practices document to define the mapping for interoperability. (or something like that)
   e. Schedule:
      - Mike and Pete to provide information by August 12th
      - Move next cloud concall to August 22 (swap with IPP)
- Ron to have preliminary draft/skeleton document with PWG and PPD by the August 22 concall
- Action: Mike to send Ron the current PWG document template
- Have Prototype Draft/Last Call by October 2011 F2F
- Formal vote by December 2011 F2F

3. PWG Job Ticket
   a. Suitable subset
      - Document should define the full job ticket
      - Let the device determine which elements are used
      - Common subset description/examples for mapping and job ticket specs
        - Non-normative appendix in job ticket spec for that subset
        - Mapping spec will focus on subset
        - Correlate examples between two specs
   b. Late binding/processing:
      - For the PWG Job Ticket spec, require use of Job Receipt as the place to store what elements have been applied/processed - that is the only read/write data for the job and document
      - Still need to address this in the Cloud Model spec as well (later)
   c. Job Ticket/Job Data Bundling
      - Work for the SM WG
      - Put in Job Ticket spec as a normative appendix

4. Cloud Imaging Model and Requirements (outline)
   a. Section 4: Cloud Imaging Model
   b. Pull in content from December 2010 and Feb 2011 BOF slides
   c. Ron will be keeper of the document
   d. Update charter to have separate First Edition and Second Edition model documents (print and multifunction)
   e. Action: Bill to update the Cloud charter and post a draft for review
      - Separate print and multifunction model documents
      - Mapping document
      - Milestones: push all model/binding work back to 2012/2013
      - Mapping document for 2011
   f. Use Cases
      - Registration use case: Talk about Client and Cloud Imaging Manager registering to a common Cloud Service so that they are Visible to each other
      - Selection: Cloud and Using Properties
      - Action: Mike to edit and post final version of Use Case document with edits from BOF
      - Print: Pick key ones that identify cloud-specific design requirements
        - Print Document
        - Variation of Print Document where Printer pulls from cloud
        - Print by Reference
        - Variation of Print by Reference where Printer pulls from URI (include authentication requirements, granting temporary access to URIs, etc.)
        - Print on Loaded Media
        - Variation of Loaded Media for Printer to Cloud
        - Print and Select at Device
        - Variation of Print and Select at Device for Printer to Cloud
        - Print Through a Conduit
          - Document data is encrypted using a negotiated key and not accessible to cloud
          - Key exchange out-of-band (and out-of-scope)
          - Key identifier passed in job ticket or document
          - Manager/Device decrypts using out-of-band key
        - Print to Recipient
        - Variation of Print to Recipient for Printer to Cloud
      - Status Monitoring/Notifications
        - All from the use case document
        - Sending notification to recipient on job completion/availability
      - Exceptions
        - All from the use case document
        - Document access error for print-by-reference
   g. Security Considerations
      - Include integrity/protection in flight and at rest/privacy/etc. statement/requirement
Next Steps / Open Actions

- Next conference call August 22, 2011 at 1pm Eastern Time (swap with IPP)
- Action: Bill to update the Cloud charter and post a draft for review
- Action: Ira to investigate necessary subset of JDF for cloud
- Action: Mike to send Ron the current PWG document template
- Action: Mike to edit and post final version of Use Case document with edits from BOF
- Action: Pete to send Ron/cloud list a table with all of the PWG Job Ticket elements
- Action: Justin to look into XPS schema licensing/issues (ONGOING)
- Action: Mike to post PPD to PWG mapping table to cloud list (ONGOING)
- Action: Mike to maintain a word document containing all use cases - post as PWG best practices (DONE - work stopped per Use Case BOF)