

# 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 (Thinstream 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)