Meeting was called to order at approximately 9:00am PT, February 8, 2012.

Attendees

Danny Brennen (GTS Services Delivery - call in)
Nancy Chen (Oki Data)
Justin Hutchings (Microsoft - call in)
Ira McDonald (High North/Samsung - call in)
Joe Murdock (Sharp)
Ron Nevo (Samsung)
Glen Petrie (Epson - call in)
Brian Smithson (Ricoh - call in)
Michael Sweet (Apple)
Anil Thakkar (Celstream - call in)
Jerry Thrasher (Lexmark)
Randy Turner (Amalfi)
Paul Tykodi (TCS - call in)
Larry Upthegrove (End User - call in)
Bill Wagner (TIC)
Jay Wang (Toshiba)
Rick Yardumian (Canon)
Pete Zehler (Xerox)

Agenda Items

1. IP Policy and Minute Taker
   a. Policy accepted with Mike taking the minutes
2. Review of previous minutes:
   c. Approved as posted
3. Review PWG Job Ticket and Printer Associated Capabilities comments
   b. DocumentPasswordEncryption: No
   c. DocumentPassword lifecycle: to be added to JPS3, as long as the job is retained (with document data) so the job can be resubmitted
   d. DocumentMessage changes: no changes needed
   e. ImpositionTemplate + Z-Fold: Not at this time, needs to be defined in its own spec
   f. InsertSheet -> InsertSheetCol? No, IPP calls it insert-sheet, keep it InsertSheet (xxx-col/XxxCol is only used when xxx/XXX was already used for a keyword attribute/element)
   g. Why no XxxType: focus on elements, not on types (which are an artifact of XML encoding)
   h. Margin information: stick with how they are defined in JPS3
   i. Should OrientationRequested be required? Yes, printers report their supported values, and existing conflict/unsupported attribute mechanisms allow the printer to tell the client what can't be done, add "None" well-known value
      - Action: Mike to add "none" enum value for orientation-requested in JPS3
      - Action: Pete to add "None" value to OrientationRequested in PJT
   j. MediaInputTrayCheck->MediaSourceCheck? No, but add some descriptive text explaining why we use a mix of input-tray and source (historical Printer MIB naming).
      - Action: Mike to add InputTray/Source history to JPS3
   k. MediaColSupported/Database: Explaining differences and cleaning up MediaCol definition
   l. JobPassword/Supported: Where to put? Move to DocumentGenerationElements renamed as JobCreationElements
   m. PrinterCapabilities: Change to PrintServiceJobCapabilities, add text explaining what it is
   n. Use complex type only when reused: Done
   o. Pete will issue a stable draft with a note about awaiting completion of "JPS3" and "Raster"; will go to formal vote once those specs enter formal vote.
4. Cloud Mobile Print Solutions Spreadsheet

b. AirPrint:
   - Wide-area Bonjour (traditional infrastructure DNS) allows access beyond subnet
   - Not cloud solution

c. Google Cloud Print:
   - HP demonstrates email gateway/federation through GCP ("Oracle" acting on behalf of the user)

d. Dropbox hot-folder

e. Looking at VPN-based solutions/configurations with Cloud servers

f. Summary:
   - Lots of applications using email/ePrint/AirPrint/hot folders to print
   - Also server-side bits are available
   - Might be useful to provide some initial guidance on how to build a cloud print service from existing components/protocols
   - "Bring feeling of safety" to cloud printing?

g. How is security information conveyed?
   - Job/document password are passed as operation (non-sticky) attributes/elements over a secure channel
   - Service/Printer is responsible for security of the job/document
   - OAuth v2 or other authorization frameworks can be used for fine-grained access control, authorization, federation, usage, retention, etc.

5. MS Print Schema Specification
a. Document Types: PrintCapabilities and PrintTicket
b. PrintTicket is basically a subset of PrintCapabilities
   - Pick supported values from PrintCapabilities to use in PrintTicket
c. Both should map fairly cleanly to PJT
d. Constraints are handled by iteration with coloring of PrintCapabilities by the PrintTicket
   - Client requests PrintCapabilities with PrintTicket
   - Returned capabilities only show allowed values
e. PrintCapabilities describes parameters for things like job-password (PIN) and custom media sizes
   - Integer/alphanumeric
   - Number of digits
   - Range of allowed values
f. Property = groups of values - dimensions of media, etc.
g. Some color stuff won't map

6. Next steps
a. Larry is generating a skeleton document for the Cloud Imaging Model and Requirements
b. Editors for Model:
   - Larry (overall/skeleton)
   - Ira (operations)
   - Randy (location, authorization, registration)
   - Pete (schema)
   - Ron (general contributions)
c. Editors for IPP Binding: "IPP Shared Infrastructure Extensions (IPPSIX)"
   - Ira (primary)
   - Mike (backup)
   - Action: Mike to add "IPP Shared Infrastructure Extensions (IPPSIX)" to IPP Everywhere charter (phase 2)
   - Action: Ira to tweakerize cloud charter for bindings in corresponding WGs
   - Action: Pete to align SM with proposed IPPSIX operations
   - Equivalent additions will be added to SM 2.0 document
d. Primary changes to SM for Cloud:
   - Cloud to Printer
   - Registration
   - Security model
f. Fetch-Jobs/Reply-To-Jobs/Fetch-Documents/Reply-To-Documents -> singular

Next Steps / Open Actions
• Next conference call February 20, 2012 at 1pm Eastern Time
• Finish mapping document
• All members to work with Larry to fill out Cloud Printing spreadsheet (ONGOING - sending out a call for specific items)
• Continue Mapping of PWG Semantic Model elements into PPD, MSPS, and JDF formats (Best Practices Document)
  - Ira to work with Justin on MSPS mapping (PENDING)
• Action: Ira to tweakerize cloud charter for bindings in corresponding WGs
• Action: Mike to add "none" enum value for orientation-requested in JPS3
• Action: Mike to add InputTray/Source history to JPS3
• Action: Mike to add "IPP Shared Infrastructure Extensions (IPPSIX)" to IPP Everywhere charter (phase 2)
• Action: Pete to add "None" value to OrientationRequested in PJT
• Action: Pete to align SM with proposed IPPSIX operations
• Action: Mike to add more examples to IPPTOOL.txt for January 2012 release of ipptool (DONE)
• Action: Justin to work with Microsoft Legal on the appropriate citation/reference to MSPS based on the new license for inclusion with the MSPS content in the mapping document, and any process for the PWG to make a formal request (ONGOING - working on wording)
• Action: Ron or Bill to post a call for wider participation of driver developers for the XPS/MSPS stuff (ONGOING - now unstuck)
• Action: Mike to prepare new draft of PPD Mapping whitepaper (ONGOING - pending table updates)