Internet Printing Protocol WG Minutes
December 6, 2012

Meeting was called to order at approximately 9:00am PT December 6, 2012.

Attendees

Russell Brudnicki (Kyocera)
Nancy Chen (Okidata)
Randy Turner (Amalfi)
Matthew Hansen (Toshiba)
Kelly Lucas (Google)
Daniel Manchala (Xerox)
Ira McDonald (High North - call in)
Smith Kennedy (HP - call in)
Joe Murdock (Sharp)
Glen Petrie (Epson - call in)
Brian Smithson (Ricoh)
Michael Sweet (Apple - call in)
Paul Tykodi (TCS - call in)
Larry Upthegrove (End-User - call in)
Bill Wagner (TIC)
Rick Yardumian (Canon)
Peter Zehler (Xerox - call in)

Agenda Items

1. IP Policy and Minute Taker
   a. Policy accepted with Mike taking the minutes
2. IPP FaxOut
   a. ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfaxout10-20121128-rev.pdf
   b. Section 2.2:
      - Add Imaging Device definition
      - Add reference to Imaging Device in Printer definition
      - Add Spooling Device and Streaming Device
   c. Section 3.2:
      - Add use case for selection with identification
   d. Section 3.4:
      - Break item 5 into two requirements (streaming and resubmission), Imaging Device instead of Printer
      - Add identification requirement
   e. Section 4.1.x:
      - Spooling Device, Streaming Device
      - Add "for PSTN fax" after retransmission
      - Add subsection for strategy of mapping of SM FaxOut
         - Different endpoints for each service
         - Reusing IPP operation codes
      - Add subsection for destination URIs
         - Talk about tel:, mailto:, ipp:, and ipps:, and their capabilities
   f. Section 4.1.2:
      - Check terminating state in SM FaxOut for partial transmission
      - aborted if nothing gets out
      - completed with errors if at least one page got out
         - Move to separate 4.1.x subsection to define terminating states; not specific to streaming case
   g. Section 4.2
      - Add Identify-Printer

- Drop Print-Job
- Add column for SM FaxOut operation names
- Expand to show optional operations
- Add note that Print-Job and Print-URI are not allowed
- Q: ADF and glass sources - any URIs?
    - A: Need to look at SM FaxOut spec
    - Possibly expose list of URIs as a Printer attribute
    - Add REQUIRED Add-Hardcopy-Document operation
- Verify we match up to operation requirements in SM FaxOut spec

   h. Section 4.3:
- Add note about this: negotiated between device and receiver, device needs to fold color to grayscale
- color-supported and pwg-raster-document-types-supported define color support of imaging device
- Add copies-supported, copies-default, note that the value is always 1
- Add subsection to talk about other job template -supported/-default attributes (number-up, etc.) and their application in different destination URIs
- Missing new Printer attributes for FaxOut
- Add note for printer-get-attributes-supported must support destination-uri to filter capabilities by URI scheme

   i. Section 4.5:
- Add new note for copies
- Fix note 1 (no JPEG)
- Add subsection for other job template attributes (number-up)
- Add note for number-of-retries, retry-interval, retry-timeout - conditionally required for Spooling Devices

   j. Section 5:
- Add list of legacy MIME media types for fax
- Note that negotiation might not allow the requested format to be used.

   k. Section 6.1.2:
- Make conditionally required for devices with PDF/OpenXPS support

   l. Section 6.1.2.8:
- Move over to printer description attributes

   m. Section 6.1.3.x:
- Not just "tel" URIs
- Talk about mailto, ipp, and ipps URIs

   n. Section 6.1.4, 6.1.5, 6.1.6: Conditionally required for Spooling Devices

   o. Section 6.3.10, 6.3.11, 6.3.12: iTH value corresponds to the iTH value of the others

   p. ISSUE RESOLVED: Do not expose more SM FaxOut read-only values

   q. Section 10:
- Add something about logging?
- Check security considerations of SM FaxOut - copy/reference as needed
- Action: SM WG to generate errata for SM FaxOut spec for section 10 security considerations (faxin -> faxout)

   r. Q: Do we require/recommend a standard resource path for printer URIs, e.g., "/ipp/faxout"?
- A: Yes, require "/ipp/faxout". For servers/printers with multiple FaxOut service instances, "/ipp/faxout/instance" is used for each instance, with "/ipp/faxout" being a roll-up/ combined service instance.

   s. Q: Can FaxOut and Print be supported by the same service instance?
- A: No, different capabilities, need to be separated.

3. IPP Best Practices
   a. ftp://ftp.pwg.org/pub/pwg/ipp/whitepaper/tb-ipp-best-practices-20121125.pdf
   b. MEH -> POOR
   c. Discovery: how many hops/radius? Causes issues, for example company-wide SNMP, SLP, etc.
   d. Page 5:
- Get-Printers -> Get-Services
- Each entry returned identifies the service type
    - or have another parallel set of values identifying the service type (meh!)

     e.   Section 2.2:
- Second one should be GOOD

     f.   Section 2.3:
- Bad -> Poor
- Meh -> Good

     g.   What about doing a Validate-Job operation after selection of the printer but before choosing options?
- Add a new section "User Selection of a Printer"

     h.   Will continue review at the next IPP concall

Next Steps / Open Actions

- Next IPP conference call is January 14, 2013 at 3pm ET
- Action: SM WG to generate errata for SM FaxOut spec for section 10 security considerations (faxin -> faxout)
- Action: Mike to post MSN2 for PWG Last Call (DONE)
- Action: Mike to start message thread on IPP mailing list with outline of PWG Certification of IPP Everywhere (PENDING)
- Action: Ira/Bill to submit technical errata to RFC 3805 to replace CR with CR + LF to be consistent with 5198 and others (PENDING)
- Action: Ira/Mike to contact IETF ADs to get IPPS URI schema RFC pushed through (ONGOING - waiting for response)
- Action: Ira and Mike to review 5100.x specs to remove action items, fix boilerplate copyright text in early specs, fix header/footer/document titles as needed, and fix normative references to drafts, etc. (ONGOING)
- Action: Ira and Mike to work with IANA to update registry to include a "set allowed" column for attributes and improve the plain text formatting (ONGOING)
- Action: Mike and Paul to reach out to label/portable printer vendors to join IPP WG discussions (ONGOING - Paul to send out before next concall)