

Internet Printing Protocol WG Face to Face Minutes February 7, 2012

Meeting was called to order at approximately 1:00pm local time February 7, 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)
Glen Petrie (Epson - call in)
Michael Sweet (Apple)
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. IPP JPS3
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext3v10-20120131-rev.pdf>
 - b. Section 1.3:
 - Q: What about document-password/job-password/job-password-encryption operation attributes?
 - A: Don't allow operation attributes that are not mapped to description attributes, return client-error-bad-request if present
 - Add to Validate-Document
 - Add new Validate-Job additional semantics section for this as well
 - c. Section 2:
 - Add definition for "i th" (i^th)
 - d. Global: change "i th" to "i^th"
 - e. Section 3.4:
 - Requirement 13: "Define new color printing and (ICC) color management attributes;"
 - Recommendation 1: "to support color proofing, identification, localization, and management."
 - f. Section 4.2:
 - Line 660: "and does not ALLOW a 'document-password' or 'document-uri' attribute."
 - Add discussion about document-password not being part of the (public) document object.
 - g. Section 5.2.1:
 - Add reference to RFC 2911 appendix D and rationale (implementation defined behavior)

- abort-job: Change to "cancel-job", 'canceled" state, 'job-canceled-by-system' reason
- stop-job: Change to "pause-job"
- Check for "job-paused-by-system" job-state-reason
- h. Section 5.4.1:
 - Line 949: Fix title for 3995
 - Lines 950-951: "to a subscription request (which may be included as part of a job creation request)."
- i. Section 5.5.1:
 - Lines 974-975: "to a document creation request (which may be part of a job creation request)."
- j. Section 5.5.2:
 - Add forward reference to additional semantics for document-metadata.
- k. Section 5.6.15:
 - Line 1119: Fix table reference
- l. Table 6: Add job-state values
- m. Section 5.6.17:
 - Add reference to Validate-Document operation
- n. Section 5.6.28:
 - Break out profile-name and profile-uri into subsections.
- o. Table 9:
 - Keep notes with table
 - Add SM keywords (like printer-input-tray/printer-output-tray)
- p. Section 5.6.37.2:
 - Fix paragraph style
- q. Section 6.5:
 - In the Operation Attributes group
- r. Section 6:
 - Add Additional semantics for job-password/-encryption for job creation requests
 - Return client-error-bad-request if job-password is invalid (wrong format/syntax) and/or job-password-encryption is not a supported value (no leak of information)
- s. Section 7.2:
 - Remove extra cross-reference not found
- t. Section 7.4.5: Fix table 12 reference.
- u. Table 11: "trim-after-sets"? Investigate interactions with multiple-document-handling
- v. Global: "vice-versa", not "visa-versa"
- w. Section 11.3:
 - Update reference to TLS 1.2
- x. Section 11.4:
 - Talk about caching and cache headers
 - Talk about HTTP proxies
- y. Issue another interim draft, review, then prototype draft
- 3. IPP Everywhere 1.0
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve10-20110201-rev.pdf>
 - b. Action: Justin to provide some WS-Discovery text/table updates for IPP Everywhere 1.0
 - c. Section 2.2:
 - Update IPP Printer definition to include examples of non-print services
 - Line 197 (Job): an IPP Printer (not just "printer"), drop "of a Job"
 - Make sure Logical and Physical Printer definitions refer to RFC 2911 with section.

- d. Section 2.3:
 - Lines 220-222 (Visible): 'submit imaging job creation requests, and so forth.'
 - Add section on Secure Print
 - Base on JPS2 definition
 - Add discussion about document-password - orthogonal but might be used with...
- e. Section 3.1:
 - Line 255: fix numbering of items
 - Lines 265-266: fix numbering of items
- f. Section 3.2.1:
 - Line 275: "can be a Logical Printer (i.e. Service) or a Physical Printer."
- g. Global: Replace "driverless printing" with "printing with generic drivers" (like in IPPS URI scheme)
- i. Section 4.2.2:
 - Action: Randy to supply updated wording for section 4.2.2 on DNS LOC records
- j. Section 4.2.3:
 - First paragraph is heading
 - Rest of paragraph is on lines 553-555 after section 4.2.3.2.
 - Remove extra copies of "air" and "pd!"
 - Talk about common truncation to 512 octets for unicast
 - Prioritize key/value pairs
 - Document error handling for truncated packets
- k. Table 2: Fix references for "air" and "pd!"
- l. Sections 4.2/4.3: Add forward references to a normative appendix on smart truncation of strings, add reference to IETF Unicode normalization reference.
- m. Section 4.3:
 - Make the list of examples a list of subsections defining the correct behavior.
- n. Section 5.1: HTTP Requirements
 - Add cache header info
 - Add proxy info
 - Subsection for each header.
- o. Section 5.2:
 - Put "e.g. cancellation" in parenthesis
- p. Update title to "IPP Everywhere" (without version)
- q. Action: Mike to update charter: Media Names, IPP Everywhere, IPP Multifunction
- r. Table N - work on notes "Required in addition to those operations defined for the IPP/2.0 conformance level", etc.
- s. Table N - **CONDITIONALLY REQUIRED** for printers that support ...
- t. Table N: Add "required" to titles
- u. Add "Paid Imaging Services" to terminology (coordinate with JPS3 terminology)
- v. Section 5.3.1:
 - Drop DESCRIPTION as a required part of 1284 device IDs
 - "truncate the Device ID string at a key/value boundary without ..." with cross-reference to normative appendix
 - "followed by the optional and vendor key/value pairs prioritized by Client software requirements."
 - "often have lower limits" instead of hard limits
 - Break required and recommended order of key/value pairs into a list
- w. Table 5: Add job-password-supported, job-password-encryption-supported, **CONDITIONALLY REQUIRED** on Secure Print feature
- x. Table 6: Add reference for document-name 5100.5 and 2911
- y. Table 6: Add job-password, job-password-encryption, **CONDITIONALLY REQUIRED**

- on Secure Print feature
- z. Table 6: Drop JPEG from note 4 list
- a. What about additional attribute for document-password
 - Not necessary
 - JPS3: Expand on document-password description to include clear text password, OAuth token, etc.
 - SM/PJT: Change DocumentPassword back to Base64Binary
- b. Table 8: Remove all xxx-preferred attributes
- c. Section 7.1: "ipp-everywhere" (no version number)
 - Update in registration info as well
- d. Section 8.1: Drop version number from keyword
- e. Section 8.2:
 - Fix cross references to sections
 - Break into numbered lists
 - Add document-password
 - Move job-password/-encryption requirements to separate named feature list
 - "Paid Print Services"
 - Review updated tables for other required/conditionally required attributes
- 4. IPP over HTTPS Transport Binding and "ipps" URI Scheme
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ipps-uri-scheme-04.pdf>
 - b. Make sure IPPEVE reference points to the IPP WG web page
 - c. Section 3.1/3.2: Don't forget missing "to" in "connection TO the target endpoint"
 - d. Section 4.2: Fix indentation of note
 - e. Check conformance requirements and security considerations for 2817
 - 2817 is listed on line 773
 - This would be extending 'ipp' URI scheme, not appropriate for this one, right?
 - Just informative references to 2817
- 5. PWG Media Names 2.0
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-pwgmsn20-20120201-rev.pdf>
 - b. Title: "PWG Media Name (MSN)"
 - c. Version number in filename
 - d. Add vendor and custom naming conventions for other kinds of media names (coating, grain, source, tooth)
 - e. Add all of the existing media names with localized names
 - f. Abstract: Add coating, grain, source, and tooth
 - g. Add disc sizes
 - h. Section 1.1:
 - Line 167: Characteristics or properties instead of attributes
 - Line 175: "no accommodation is made" (instead of affordance)
 - Line 178: "or the inner and outer diameters of a disc"
 - Move first sentence to top of paragraph, "Except for roll paper sizes,"
 - Maybe break this up into cut sheets, discs, and rolls
 - Add additional media names (coatings, etc.)
 - Line 179: "color property", "set of Media Color Names", etc.
 - i. Section 1.2:
 - Line 184: Drop second half of sentence (end at "program to program communications.")
 - Line 248: "This specification defined standard English localizations", move to front of paragraph.
 - Add sRGB information for color names
 - Fallback presentation? Maybe recommended presentation?
 - Add initial localization example (key-word = Key Word)
 - j. Table 1: Add a footnote about initial localization -> key-word becomes Key Word

- k. Check if there is an IANA registry for RFC 2534 values...
 - RFC 2506 has media features lists
 - Probably not an issue based on preliminary investigation
- l. Global: Use "org.pwg" for all vendor name examples.
- m. Section 3.x:
 - Add new Derived Media subsection
 - "derived_user-name_standard-name"
- n. Action: Mike to update media name ABNF and provide regular expressions for validation
- o. Table 2:
 - Dark Mustard: Drop "mmmmmm"
 - Change to Color (Qualifier)
 - Investigate adding color swatches to table
 - Action: Glen to research dark gray and light silver issues identified in draft of MSN2
- p. Section 4: Additional text for Printer MIB colorant name usage?
- q. Section 4.1:
 - Update ABNF to allow for multiple _RGB[A] values
- r. Section 4.2:
 - Update ABNF to allow for multiple _RGB[A] values
- s. Section 5.1:
 - Lines 552-553: Conforming implementations MUST ...
 - Add "disc" to ABNF
- t. Global: Search and destroy "shall"
- u. Section 5.1.1:
 - Add "vendor" and "disc"
- v. Table 3:
 - Replace Government Letter/Legal with dimensional names
 - US Letter (Extra), etc. (qualifier in parenthesis)
 - European Fanfold -> Fanfold (European)
 - A, A Plus, Super A, B, B Plus, Super B, D, E, F -> Dimensional names
 - Add Envelope to 10x13, etc. envelope sizes
 - Add Engineering to C/D/E/F
 - Wide Format => dimensional name
- w. Table 4:
 - A4 Tab, A4 Extra -> A4 (Tab), A4 (Extra)
 - A4 xN -> A4xN (no space between name and x)
- x. Table 5:
 - Folio Special -> Folio (Special)
- y. Table 6:
 - Oufuku -> Oufuku Reply Postcard
- z. Table 7:
 - Dai Pa Kai -> Chinese 8k (Large)
 - Pa Kai -> Chinese 16k (Large)
 - Juuro Ku Kai -> Chinese 4k (Large)?
- a. Section 11:
 - Add Glen as a contributor

Next Steps / Open Actions

- Next IPP conference call February 27, 2012 at 1:00pm (ET)
- Post updated IPP over HTTPS Transport Binding and "ipps" URI Scheme draft and request

IESG Last Call

- Post updated JPS3 (prototype) draft
- Post updated IPP Everywhere (prototype) draft
- Post updated MSN2 (interim) draft
- Action: Glen to research dark gray and light silver issues identified in draft of MSN2
- Action: Randy to supply updated wording for section 4.2.2 on DNS LOC records
- Action: Justin to provide some WS-Discovery text/table updates for IPP Everywhere 1.0
- Action: Mike to update media name ABNF and provide regular expressions for validation
- Action: Mike to update charter: Media Names, IPP Everywhere, IPP Multifunction
- Action: Mike to send Justin questions WRT MSPS license (ONGOING)
- Action: Ira to post updated LDAP Schema RFC before February 2012 F2F (ONGOING)
- Action: Mike to post PWG Raster for PWG Last Call (ONGOING - some time early this week)
- Action: Ira to ask steering committee to approve PWG last call not spanning F2F due to large gap between Feb/April F2F (DONE - moving directly to PWG Last Call for PWG Raster)
- Action: Mike to add "media-size-name" member attribute to "media-col" in JPS3 (ONGOING)
- Action: Pete to generate XML spy picture for Figure 4 PwgRasterDocument elements (ONGOING)
- Action: Mike to adopt CONDITIONALLY REQUIRED in JPS3, PWG Raster, and IPP Everywhere 1.0 (ONGOING)
- Action: Mike to add job-error-action Job Template attribute to JPS3 (ONGOING)
- Action: Mike to fix operations table in IPP registry (ONGOING)
- Action: Mike to add Validate-Document operation to JPS3 based on Validate-Job (no document content but optional URI) (ONGOING)
- Action: Mike to make HTTP If-Modified-Since header support REQUIRED in IPP Everywhere (ONGOING)
- Action: Mike to update ABNF references to [STD68] in all drafts (ONGOING)
- 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: Mike to send Ira the new XML and a diff (ONGOING - this week)
- Action: Mike to add printer-charge-info to table in IPP Everywhere 1.0, add conformance requirements for LDAP, note LDAP/SLP limitations on string lengths (127 or 255 octets) (ONGOING)
- Action: Mike to add note for DNS-SD TXT record limits (ONGOING)
- Action: Mike to add printer-device-id discussion to require required key/value pairs first to avoid issues with truncation by directory services (ONGOING)
- Action: Ira to check matching rule OIDs on lines 1766-1772 of the LDAP schema RFC (ONGOING)
- Action: Ira and Mike to work with IANA to update registry to include a "set allowed" column for attributes (ONGOING)
- Action: Ira and Glen to send additions from JDF and JTAPI to Mike (ONGOING - Glen sent a bunch, Ira will send as part of mapping work)
- Action: Mike and Paul to reach out to label/portable printer vendors to join IPP WG discussions (ONGOING - both to send summary to ipp list and details to SC list)