

Internet Printing Protocol WG Face-to-Face Minutes

August 3, 2011

Meeting was called to order at approximately 9:00am local August 3, 2011.

Attendees

Danny Brennan (call in)
Nancy Chen (Oki Data)
Justin Hutchings (Microsoft)
Adrian Lannin (Microsoft)
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)
Jerry Thrasher (Lexmark)
Bill Wagner (TIC)
Rick Yardumian (Canon)
Marc Yousey (HP - call in)
Pete Zehler (Xerox)

Agenda Items

1. IP Policy and Minute Taker
 - a. Policy accepted with Mike taking the minutes
2. IPP Status
 - a. IANA registries have been updated through IPP/2.0 First Edition
 - IPP/2.0 SE and JPS2 will be submitted shortly
 - b. MIB updates are for Charset MIB
3. Interoperability
 - a. Q: Is the proposed solution using ipptool acceptable?
 - A: Yes, improvement over no testing, no objections in principle
 - b. Action: Pete to ask Xerox legal about LGPL
 - c. Action: Mike to post update with tests for IPP/2.1 and IPP/2.2
 - d. Action: Mike to ask Apple legal about releasing ipptool under alternate license
 - e. Q: How much testing?
 - Cover all required operations
 - Cover all attributes
 - Not necessary to cover all operations and attributes
 - Add tests for undefined operation codes and attribute/group tags (needs code change)
 - f. Ira volunteers to review test files and possibly write tests for optional operations
 - g. Call for additional volunteers to review or write tests - contact Mike Sweet if you wish to volunteer
 - h. Schedule: tool, tests, and instructions and details of what is being tested available by October 2011 F2F
 - i. Send results to Mike Sweet, who will provide an anonymized report at the December 2011 F2F
 - j. Ira, Danny, Jerry will beta test tool and tests prior to October 2011 F2F

4. PWG Media Standardized Names Second Edition
 - a. <ftp://ftp.pwg.org/pub/pwg/general/wd/wd-pwgmsn20-20110802-rev.pdf>
 - b. Make sure we have US English descriptive names for all media names.
 - c. Title page: "defined" instead of "currently presented", use RFC 3805 for Printer MIB, provide link to process 3.0, "for all PWG and other standards that reference particular media." not a supplement, authoritative lists, rewrite this
 - d. Title: PWG Media Standardized Names 2.0 (MSN2)
 - e. Fix two-digit year in headers
 - f. All tables: Remove "standardized" or "standard" from captions
 - g. Look at updating intro based on abstract feedback.
 - h. Section 1: Add subsection about localization; common source names are listed in the media tables. Custom sizes can be formatted, etc. The media names are for the protocol, not for humans (already some text at the bottom of 1.1, but make it its own subsection Localization Considerations, provide cross reference link in I18N Considerations
 - i. Section 1.1: Update since we do address roll-fed media and don't want "may be added in the future"
 - j. Roll fed media - how to do continuous print?
 - Recommendation for continuous print - media length 0, submit jobs for each segment, use finishing option to cut (trim) on last page
 - Naming in MSN2, how to do it in JPS3
 - k. Section 2: Drop ASCII, IETF, ISO, add RFC reference for ABNF, US ASCII [ISO646-IRV]
 - l. Section 2: Drop "human-readable name" from definitions -> standard name
 - m. All references: Update to PWG/RFC form
 - n. All tables: Keyword -> Name
 - o. Media type table:
 - Add cardboard, cardboard-foo
 - Add disc, disc-foo
 - Add metal, metal-foo
 - Change "t-shirt" to "transfer", mention CUPS
 - JDF uses cd and dvd, no Bluray
 - JTAPI just has disc
 - Action: Ira and Glen to send additions from JDF and JTAPI to Mike
 - p. Drop Ref column, just include [REF] for applicable items
 - q. Section 3.1: Change to "vendor-media-type-com.example-xxx"
 - r. Section 4: Need JTAPI media color names
 - Action: Glen to color names and values to Mike
 - s. Section 4.1: Change to "vendor-media-color-com.example-xxx_RRGGBB[AA]"
 - t. Section 4.2: Change to "custom-media-color-xxx_RRGGBB[AA]"
 - Optional alpha to cover transparency
 - u. Section 5.1: Add "vendor", fix integer-part to allow for leading 0.
 - v. Section 5.1.1: Need to move to informative references, complete ABNF at a durable link, etc.
 - Update class to include roll and vendor
 - w. Authors: reduce to name and email for Ron and Tom, fix Harry Lewis, see if Jim is still at Sun (Oracle) and Roelof
 - x. Section 12: Clean up, drop last sentence from first paragraph
 - y. media-material: remove
 - In registration for PWG 5100.5 IANA registration, but never defined
 - Action: Ira to remove media-material definition from IANA registration
 - z. JPS2 also added media-type values - sync with registry
 - a. Add media-back-coating, media-front-coating, media-grain, media-source, and

- media-tooth (assuming there are new values).
 - b. Make sure we have media-preprinted and media-recycled values are reflected in media-type.
 - c. Note that the current list of registered names are maintained by IANA
- 5. PWG Character Repertoire Supported
 - a. Make this as an errata to do the IANA registration
 - b. Ira volunteers to take care of this.
- 6. PWG Raster
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp raster10-20110730-rev.pdf>
 - b. Section 2.3: line 221: RFC 5234 not 2119
 - c. Add CUPS Raster [CUPSRASTER] reference at the beginning of each section.
 - d. Section 3.1: PWG IPP Everywhere project (without spec references)
 - e. Section 3: Reiterate rationale for selection of CUPS Raster here.
 - f. Also include discussion of OpenXPS.
 - g. Section 3.2:
 - Add use case for low-resource Client
 - Add use case for per-page overrides (embedded job ticket)
 - Add use case for printing over legacy interface (with out-of-scope for connectivity/transport/security/etc.)
 - h. Section 3.4: Fix numbering of design requirements
 - i. Start Section 4 on a new page
 - j. Add PWG element column to table 1
 - k. Section 4.3.2.1: Drop compatible resolution language, and PwgRasterDOCUMENTResolutionsSupported
 - l. Section 4.3.2.4: PwgRasterDOCUMENTTypesSupported
 - m. Section 4.3.3.5: Consider removing Margins and recommend usage of ImageBox.
 - n. Missing Collate from job ticket fields
 - Action: Pete to investigate what SM element to use for collation
 - MultipleDocumentHandling, SheetCollate, JobCollationType?
 - o. Section 4.3? Document how overrides are handled
 - Document how pages are grouped into sets based on job ticket info
 - Also explain that 0 = ignore for a job
 - p. Section 4.3.3.13: Fix reference title to MSN
 - q. Section 5: "This specification defines three new PWG Semantic Model elements in the <service>ServiceDescription group."
 - r. Section 5: Also update WKV's to use PwgRasterDocument*WKV
 - s. PwgRasterDocumentTypeWKV (no "s")
 - t. PwgRasterDocumentBackside -> PwgRasterDocumentSheetBack
 - u. Separate the 5.1 list of keyword values for readability
 - v. Figure 5: switch to crooked smiley version and add arrow or some other indication of the feed direction/edge. Client vs. printer origin. Top of physical sheet.
 - w. Focus on "you just have to draw it this way"
 - x. Action: Mike to post the whitepaper on compression performance
 - y. Include compression stats in section 1.
 - z. Section 6: update attribute names.
 - a. Section 6: Add client/printer requirements for alternate bindings
 - b. Section 6.4: If the IPP Client supports receipt of scan data....
 - Move this to a separate alternate binding use case.
 - IPP Client for Printing
 - Client for Printing and Facsimile
 - Client for Scanning
- 1. IPP Job and Printer Extensions - Set 3
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext3v10-20110802-rev.pdf>

- b. Issue: Localization support for clients
 - Localize Values operation? May not scale, complicated?
 - Attribute(s) pointing to a printer-resident URIs for standard and
 - Is there a standard (XML-based) message catalog format?
 - maybe as simple as "attribute=string\n" and "attribute.value=string\n"
 - .value can be integer as a string for enums.
 - Both attributes optional, languages == generated-natural-languages-supported
 - Get-Printer-Attributes with attributes-natural-language controls which set of URIs are returned.
 - Seems to apply mostly to media keywords.
 - c. Section 1.1:
 - Line 239 change "iPP" to "IPP"
 - Provide advice on client and printer implementation; deterministic order of objects/values, and look at state/config change time to determine if list needs to be re-fetched
 - Line 248: "the NEW first-index" and "the EXISTING limit operation"
 - d. Section 4.1, line 374: drop "or print something".
 - e. Section 5.1.1: Add references to additional semantics for each operation.
 - f. Line 439: "Note: This specification ..."
 - g. Drop ipp-discovery-supported
 - h. Section 5.6.5:
 - Change ipp-extensions-supported to ipp-features-supported
 - Add page-overrides with corresponding reference.
 - i. Section 5.6.18: Make printer-config-change-time, printer-state-change-time required for IPP Everywhere
 - j. Add by-pass-tray to media-source
 - k. Stopped at 5.6.23
2. IPP Everywhere First Edition
- a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve10-20110803-rev.pdf>
 - b. Did not get to this document.

Next Steps / Open Actions

- Action: Pete to ask Xerox legal about LGPL
- Action: Mike to post update with tests for IPP/2.1 and IPP/2.2
- Action: Mike to ask Apple legal about releasing ipptool under alternate license
- Action: Glen to color names and values to Mike (DONE)
- Action: Ira and Glen to send additions from JDF and JTAPI to Mike
- Action: Ira to remove media-material definition from IANA registration
- Next Cloud Imaging WG conference call August 22, 2011 at 1:00pm (EST)
- Next IPP WG conference call August 15, 2011 at 1:00pm (EDT)
- Action: Mike to post draft slides for IPP session prior to next IPP concall (DONE)
- Action: Mike to post updates to common use cases, IPP Everywhere, JPS3, and PWG Raster by F2F (ONGOING)
- Action: Paul and Ira to solicit DLNA assistance for UPNP discovery (ONGOING - will work with Marc)
- 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)