

IPP WG Conference Call Minutes

April 18, 2011

Meeting was called to order at approximately 1:00 pm (EST) April 18, 2011.

Attendees

Danny Brennan (IBM)
Nancy Chen (Oki Data)
Justin Hutchings (Microsoft)
Tim McCann (Konica Minolta)
Ira McDonald (High North/Samsung)
Andrew Mitchell (Hewlett Packard)
Ron Nevo (Samsung)
Glen Petrie (Epson)
Michael Sweet (Apple)
Jerry Thrasher (Lexmark)
Paul Tykodi (TCS)
Bill Wagner (TIS)
Rick Yardumian (Canon)
Pete Zehler (Xerox)

Agenda Items

1. IP Policy and Minute Taker
 - a. Policy accepted with Mike taking the minutes
2. Approve IPP minutes from last meeting
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-f2f-minutes-20110405.pdf>
 - b. Note: Defining a general precedent for new extension specifications - register new value(s) for ipp-extensions-supported.
 - c. Justin: Microsoft willing to extend WS-Discovery to support IPP
 - May still have an issue with W3C and WS-Transfer?
 - No IPP XML namespace/binding yet - may need some technical content to join IPP to WS-Discovery
 - Action: Justin and Pete to further investigate using WS-Discovery for IPP
 - d. Accepted as posted
3. JPS3 Review
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext3v10-20110330-rev.pdf>
 - b. Abstract: Expand to include intro and rationale text
 - c. Line 219: Don't reference IPP Everywhere spec, use the section 3 text and reference the IPP Everywhere project instead
 - d. Line 253: Expand based on use cases.
 - e. Add new section 4, "IPP Model Extensions" or something like that
 - Content to provide some background on what the extensions do
 - Model for stepping through large media-col-database values, limits, job ticket coloring of Get-Printer-Attributes, xxx-preferred for Validate-Job
 - Provide block diagrams?
 - Look at PWG 5100.3 for changes in media-col, RFC 3998, PWG 5100.8 for xxx-actual, etc. for inspiration
 - f. Line 326: Forward reference to identify-actions attribute
 - g. Section 5.1.1 first-media-key: Provide reference to model
 - h. Table 1: "display" should use "printer console" instead of "printer control panel" to be consistent
 - i. Table 2: Make "bi-level" REQUIRED?
 - Still some confusion over keywords vs. vendor terminology
 - Implementation of "bi-level" will vary - simple thresholding vs. complex image processing to provide edges, etc.
 - Consensus to keep it OPTIONAL, add note why (implementation-specific, hard to capture)
 - j. Table 2: Make "process-monochrome" conditionally required for color printers
 - Add additional language to process color values
 - k. Issue: Include xxx-preferred job template and operation attributes that we think make sense, and

- provide text explaining the expected reason for use (-preferred is not a policy attribute but is used for conflict)
 - l. Line 803: Backward reference wrong to Identify-Printer operation
 - m. Issue: How should we express an unknown printer-geo-location?
 - n. Issue: Need well-known URIs for standard colorspace profiles
 - o. Issue: How do we register media-col member attributes with IANA?
 - p. Issue: Need to flesh out the conformance requirements for the printer-supply attribute
 - q. Resume at section 5.2.2 in two weeks
4. PWG Raster Review
- a. Did not get to this
 - b. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp raster10-20110327-rev.pdf>
 - c. Issue: Would be nice to have total page count (if known)
 - Proposal: Add PageCount (integer, 0 to 2³¹-1) to page header ("cupsInteger[0]" from CUPS Raster), which is already used by several CUPS Raster printer drivers
 - 0 means "I don't know how many pages"
 - > 0 means "this is how many pages are in the entire document"
 - Every page gets the same value
 - d. Issue: Need coordinate space of image (flip/rotate on back side)
 - Proposal: Add HorizontalTransform(integer, -1 or 1) and VerticalTransform(integer, -1 or 1) to the page header ("cupsInteger[1]" and "cupsInteger[2]" from CUPS Raster)
 - "Normal" pages have values of 1 and 1
 - "Rotated" pages have values of -1 and -1 (180 degree rotation)
 - "Flipped" pages have values of 1 and -1 (vertical flip) or -1 and 1 (horizontal flip)
 - e. Issue: Need bounding rectangle of any content to be imaged on the page (ImageBox)
 - Proposal 1: • Use existing ImagingBBox (4 x integer) from page header - simple bounding box in (integer) points
 - Proposal 2: Add ImageBottom (integer, 0-2³²-1), ImageLeft (integer, 0-2³²-1), ImageRight (integer, 0-2³²-1), and ImageTop (integer, 0-2³²-1) to the page header ("cupsInteger[3]" through "cupsInteger[6]" from CUPS Raster) - simple bounding box in pixels/lines
 - f. Issue: Some confusion about why we need pwg-raster-resolutions-support
 - Will be adding explanatory text to the definition
 - Basically supported raster resolutions can be different than supported hardware resolutions
 - g. Issue: Some confusion about the compression algorithm
 - Will be adding examples for 1-bit grayscale and 32-bit CMYK images to clarify
 - Also have sample raster files available for download
 - h. Samples files:
 - Currently at <http://ftp.easysw.com/pub/cups/examples/PWGRasterSamples.zip>
 - 40MB download, 80MB worth of data
 - 150dpi files for black-1, cmyk-8, sgray-8, sgray-16, srgb-8, and srgb-16
 - Representative documents for email, line art, maps, photos, and web pages
 - Issue: Where to place sample raster files?

Next Steps / Open Actions

- Next IPP WG conference call May 2, 2011 at 1pm (EST)
- Action: Justin and Pete to further investigate using WS-Discovery for IPP
- Action: Mike to post call for use cases to both ipp and cloud ML (COMPLETED)
- Action: Andrew to provide section 4.4 UPNP discovery text (ONGOING)
- 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)