

# IPP WG Conference Call Minutes

## May 2, 2011

Meeting was called to order at approximately 1:00 pm (EST) May 2, 2011.

### Attendees

Nancy Chen (Oki Data)  
Rich Gray (Plus Technologies)  
Justin Hutchings (Microsoft)  
Tim McCann (Konica Minolta)  
Ira McDonald (High North/Samsung)  
Andrew Mitchell (Hewlett Packard)  
Glen Petrie (Epson)  
Jim Sommer (Monotype Imaging)  
Michael Sweet (Apple)  
Jerry Thrasher (Lexmark)  
Paul Tykodi (TCS)  
Bill Wagner (TIC)  
Rick Yardumian (Canon)  
Pete Zehler (Xerox)  
Roy Samuel (Celstream)

### 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-concall-minutes-20110418.pdf>
  - b. Bill Wagner: "TIC" not "TIS"
  - c. Accepted as posted
3. JPS3 Review (continued)
  - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext3v10-20110330-rev.pdf>
  - b. Resumed at section 5.2.2
  - c. Section 5.3.1: The job-uuid MUST NOT be used as a Job identifier in IPP job operations but MAY be used as a Job identifier for other protocol bindings. The job-uuid SHOULD be used for accounting and auditing of Jobs.
  - d. Section 5.4.1: The subscription-uuid MUST NOT be used as a Subscription identifier in IPP operations but MAY be used as a Subscription identifier for other protocol bindings. The subscription-uuid SHOULD be used for accounting and auditing of Subscriptions.
  - e. Section 5.4.1: Make conditionally required if notifications are supported.
  - f. Document Object: add document-uuid patterned on Job and Subscription, conditionally required on document object support.
  - g. Q: Job Template vs. Job Ticket
    - A: Job Ticket in the PWG SM is Job Template + Job Description
    - Some IPP Job Description attributes come from operation attributes
    - May need some clarification in PWG SM/Print Service...
    - Add Job Ticket, Job Template, Job Description, and operation to terminology with references to RFC 2911 and PWG SM to clarify
  - h. Section 5.5.6: "lists the operations that support the..."
  - i. Q: Conformance requirements, do we ever downgrade or cherry-pick?
    - A: No, we always require everything in the spec; we may upgrade things to recommended or required as needed for design requirements/use cases
  - j. Section 5.5.14: Make OPTIONAL for JPS3, REQUIRED for IPP Everywhere
  - k. Issue: How should we express an unknown printer-geo-location?
    - Can't use an empty string - not a valid URI
    - Use "unknown" out-of-band value tag (also use for other new attributes)
    - Add text documenting this to Section 5.5.14.
    - For IPP Everywhere, need to discuss importance of location information
  - l. Issue: How do we know the source of the geo-location information?

- printer-geo-location-source (auto/manual/continuous)?
  - Does it really matter?
  - Discuss as known issue, out-of-scope for JPS3
  - m. Issue: How do we know how up-to-date the location and other printer information is?
    - Do we want to address it?
    - printer-description-change-time and -date-time? Included in printer-config-change notification
    - Add to JPS3 as RECOMMENDED
  - n. Action: Mike to issue new draft of JPS3 with changes accepted up to section 5.5.14
  - o. Issue: Need well-known URIs for standard colorspace profiles
  - p. Issue: How do we register media-col member attributes with IANA?
  - q. Issue: Need to flesh out the conformance requirements for the printer-supply attribute
  - r. Section 6.2: verify that we cover "not administrative", etc.
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 2<sup>31</sup>-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, 0-2<sup>32</sup>-1), ImageLeft (integer, 0-2<sup>32</sup>-1), ImageRight (integer, 0-2<sup>32</sup>-1), and ImageTop (integer, 0-2<sup>32</sup>-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-supported
    - 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 16, 2011 at 1pm (EST)
- Action: Mike to issue new draft of JPS3 with changes accepted up to section 5.5.14
- Action: Mike to prepare draft slides for IPP sessions for next concall
- Action: Justin and Pete to further investigate using WS-Discovery for IPP (COMPLETED - OK to use)
- Action: Andrew to provide section 4.4 UPNP discovery text (ONGOING - for next F2F)
- 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)