

# Internet Printing Protocol WG Minutes

## April 28, 2014

Meeting was called to order at approximately 3:00pm ET April 28, 2014.

### Attendees

Smith Kennedy (HP)  
Jeremy Leber (Lexmark)  
Daniel Manchala (Xerox)  
Tim McCann (Konica Minolta)  
Ira McDonald (High North)  
Mike Sweet (Apple)  
Paul Tykodi (TCS)  
Bill Wagner (TIC)  
Rick Yardumian (Canon)  
Peter Zehler (Xerox)  
David Zimmerman ()

### Agenda Items

1. IP Policy and Minute Taker
  - a. Policy accepted with Mike taking the minutes
2. Review previous minutes
  - a. <http://ftp.pwg.org/pub/pwg/ipp/minutes-ippv2-f2f-minutes-20140414.pdf>
  - b. Fix dates at top
  - c. Approved after re-posting posted
3. Status of various IPP documents (Ira/Mike)
  - a. LDAP Printer Schema (Ira)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ldap-printer-schema-07-20140313.pdf>
    - reviewed on 31 March
    - ready for IETF Last Call
  - b. IPP over HTTPS Binding and 'ipps' URI Scheme (Ira)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ipps-uri-scheme-11-20140420.pdf>
    - completed edits from IPP WG review on 14 April
    - ready for IETF Last Call
  - c. IPP Self-Certification (Mike)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20140124-rev.pdf>
    - <http://www.pwg.org/archives/ipp/2014/017935.html>
    - schedule for live PWG web support - late May?
  - d. IPP Shared Infrastructure Extensions (Mike)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsix10-20140226-rev.pdf>

- Prototype draft
- waiting for prototype reports
- e. IPP Finishings v2.0 (Mike)
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20140116-rev.pdf>
  - Ira/Mike still need to cross-check w/ Finisher MIB (RFC 3805)
  - Waiting for Mike to publish a prototype draft
- 4. IPP Scan Service (Pete Zehler)
  - a. <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippscan10-20140421-rev.pdf>
  - b. Pete will include changes based on feedback on the IPP mailing list from Mike Sweet
  - c. Section 8.2.1.1, 8.4.2.5:
    - MUST NOT include document-password, job-password, job-password-encryption
    - SHOULD NOT include attributes for authentication/security
  - d. Section 8.4.2.6:
    - 1setOf keyword
    - list of member attributes that can be included in destination-attributes
    - OPTIONAL instead of "optional"
  - e. Next version of document can be Stable
- 5. Review of IPP Implementor's Guide v2.0 (Smith)
  - a. <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippig20-20140410-rev.pdf>
  - b. Continue at section 4.3
  - c. 4.3:
    - No document-format = unfiltered
    - Mention document-format-varying-attributes attributes in response as a way to determine whether supported attributes/values vary depending on document-format
    - For BETTER: can do two requests or do a single request getting all and then only follow up if document-format-varying-attributes
    - Drop "attribute" after "requested-attributes"
    - Drop "SHOULD" from the BETTER response.
    - Drop current BEST, promote BETTER to BEST
  - d. 4.x: Remove any hidden conformance requirements for Printers - basically this document is about recommendations for existing standards, which define those conformance requirements
  - e. Add IPP web page on potential future work:
    - Get-User-Supported-Values operation
    - other attributes/operations that have been proposed
  - f. 4.4:
    - "Check Constraints Between Chosen Options"
    - Reword intro slightly
    - BAD is do nothing
    - POOR is "use local model-specific data, e.g. PPDs OR using validate-job whenever a control is changed"
  - g. 4.5.1, 4.5.2:

- BETTER: Replace "zombie" with "a job with no documents"
  - Rather than warning about missing last-document, advise to include last-document=true to close the job
  - Add some text in the intro about the advantages of Create-Job over Print-Job/URI and how it allows for more reliable cancellation (with section reference to cancel stuff)
  - Make Close-Job optional - only if last-document has not been specified as true
- h. 4.5.3:
- POOR: Just "do nothing"
  - Drop BETTER
- i. 4.6:
- Line 841: "SHOULD support" -> "can use"
  - Drop unnecessary italic comments in options
  - << time passes >>
  - BEST: Include subscription attributes in Create-Job operation
- j. 4.7:
- Line 918/927: Print/Send with HTTP chunking
  - BEST: Finish current page (even if remainder is blank) so that document data is correctly formed
  - First bullet: "<<client has created a document and is sending document data>>"
  - Reword "via separate connection"; sending IPP Cancel-Job happens before stopping document data
- k. 4.8:
- Line 934-935: Remove last sentence.
  - Drop "sub-par user experience" from BAD
  - Don't use JPS3 or other acronyms.
  - 'Use "printer-supply" attribute if supported by the Printer'
  - Also mention printer-state-reasons for supply levels (marker-supply-low/empty, media-low/empty/needed, etc.)
- l. 4.9:
- Drop "sub-par user experience"
- m. Global: All attributes in double quotes, all keyword values in single quotes
- n. Q: Do we include a server best practices section?
- A: Yes, but just a single section with pointers back to the client stuff (list of attributes/operations)
- o. Stopped at section 5

## Next Steps / Open Actions

- Next IPP conference call April 28, 2014 at 3pm ET
- Joint IPP/Cloud conference call May 5, 2014 at 3pm ET
- IPP face-to-face meetings May 13, 2014 at 2:15pm PT and May 15, 2014 AT 9am PT
- Action: Mike to post draft slides for F2F

- Action: Mike to produce stable draft of IPP FaxOut with flash character for PWG Call for Objections (PENDING)
- Action: Mike to release a prototype draft of FIN2 (PENDING)
- Action: Ira to add comments to Printer MIB for fax-modem-protocol-error and xxx-recoverable-storage-error - suffix dropped from IPP keyword with corresponding suffix (-error, -report, -warning) added depending on the printer state. (PENDING)
- Action: Mike to submit IANA registration for IPP printer-state-reasons updates for fax-modem-protocol and xxx-recoverable-storage (PENDING)
- Action: Ira to submit Printer MIB registration for new xxx-missing PrtAlertCodeTC values (PENDING)
- Action: Mike to propose an approach for deprecation of IPP attributes and values in the IANA registry (ONGOING)
- Action: Ira/Paul/SM workgroup to review values of finishings-col member attributes to make sure we have parity with common JDF values (PENDING)
- Action: Ira and Mike to make sure finishing MIB and Finishings 2.0 are in sync (PENDING)
- Action: Mike to add spec best-practices to WD template, fix abstract wording (PENDING)