

# Internet Printing Protocol WG Minutes

## June 16, 2014

Meeting was called to order at approximately 3:00pm PT June 16, 2014.

### Attendees

Daniel Manchala (Xerox)  
Tim McCann (Konica Minolta)  
Ira McDonald (High North)  
Mike Sweet (Apple)  
Paul Tykodi (TCS)  
Bill Wagner (TIC)  
Rick Yardumian (Canon)  
Pete Zehler (Parc)

### Agenda Items

1. IP Policy and Minute Taker
  - a. Policy accepted with Mike taking the minutes
2. Approve IPP minutes from previous meetings
  - a. <ftp://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20140602.pdf>
  - b. Approved as posted
3. Status of various IPP documents (Ira/Mike)
  - a. IETF LDAP Printer Schema (Ira)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ldap-printer-schema-07-20140313.pdf>
    - IPP WG reviewed on 31 March
    - ready for IETF Last Call
  - b. IETF IPP over HTTPS Binding and 'ipps' URI Scheme (Ira)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ipps-uri-scheme-12-20140420.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-ippeveselfcert10-20140509-rev.pdf>
    - Prototype draft - waiting for prototype reports
    - reviewed at PWG F2F in May
    - schedule: July-ish for beta tools, spec update, and web site, definitely by August F2F
  - 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
    - NOT reviewed at PWG F2F in May

- schedule: as per F2F
- 4. IPP Scan Service (Pete Zehler)
  - a. <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippscan10-20140509-rev.pdf>
  - b. Stable draft - completed IPP WG last call
  - c. reviewed at PWG F2F in May
  - d. SC has approved PWG Last Call to not span the August F2F
  - e. Proposal for adding destination auth info
    - Mike objected to sparse array and proposed an alternative
    - Will have separate member attributes for each auth element
      - access-user-name (name(MAX))
      - access-password (octetString(MAX))
      - access-pin (octetString(MAX))
      - access-x509-certificate (1setOf octetString(MAX))
      - access-oauth-token (octetString(MAX))
      - access-kerberos-token (octetString(MAX))
      - etc.
    - Action: Mike to post updated proposal for destination-accesses
- 5. "job-password-encryption-supported in PWG 5100.11 (Smith Kennedy)
  - a. <http://www.pwg.org/archives/ipp/2014/018028.html>
  - b. current keyword 'sha' is ambiguous (does this mean 'sha1' or what???)
  - c. SHA-0 withdrawn in 1996 by US NIST
  - d. SHA-1 deprecated in 2010 and withdrawn in 2013 by US NIST
  - e. SHA-2 has no known practical attacks at present
  - f. SHA-3 (Keccak) selected in 2012 by US NIST
  - g. Daniel suggested many keyword including hash output lengths
  - h. Mike suggested looking at IANA registries (e.g., TLS algorithms registry)
  - i. Ira doesn't like embedded hash output length in these keywords
  - j. How to deal with "sha"?
    - Deprecate
    - Document that "sha" means SHA1
    - Add "sha2-224", "sha2-256", "sha2-384", "sha2-512", "sha2-512\_256"
    - Future: "sha3-NNN" and "shake-NNN" (with bit length/variants) - pending on US NIST draft
- 6. "printer-output-tray" in PWG 5100.13 (Jeremy Leber)
  - a. <http://www.pwg.org/archives/ipp/2014/018037.html>
  - b. <http://www.pwg.org/archives/ipp/2014/018025.html>
  - c. ABNF error for "output-stacking-order" and "output-page-delivery"
  - d. Should both move from "output-opt" to "output-req" production
    - Yes, pending errata for JPS3
- 7. IPP Finishings/2.0 and SM JDFMAP (Rick, Ira, Mike)
  - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20140509-rev.pdf>
  - b. Prototype draft - waiting for prototype reports
  - c. Reviewed at PWG F2F in May
  - d. Schedule - PWG Last Call Q3 2014
  - e. <ftp://ftp.pwg.org/pub/pwg/sm3/wd/wd-smjdfmap10-20140604-rev.pdf>
  - f. Mike sent proposed "finishings-col" mappings for JDFMAP to SM3 WG list

- Coating
    - May map as a separation (as part of the marking process, vs. a finishing process in IPP/SM)
    - Also 7.6 ColorIntent specifies coatings, might be combined with separations?
    - Also Varnish
    - Needs more discussion with Rainer
  - Maybe import JDF coating types? Mike will review
  - TrimmingType
    - Also maps to multiple JDF Groups (Scoring and a couple others besides Cutting and Perforating)
  - Folding - forgot to fill in the rest but there is a fairly direct mapping
    - FoldingOffset -> /@Travel
    - FoldingReferenceEdge -> /@From (front or left vs. top, left, bottom, right)
8. New HTTP/1.1 RFCs published (Mike)
    - a. <http://www.pwg.org/archives/ipp/2014/018023.html>
    - b. All PWG Editors - begin to use these references immediately
  9. printer-state-reasons
    - a. Severity codes:
      - Not deprecated, required by 2911
      - Mapped directly from prtAlert severity, vendors should always include suffix in printer-state-reasons and in printer-alert values
    - b. Media empty on bypass tray
      - Should not normally report it since the tray is usually empty (not an alert)
      - Vendor can provide configuration option for customers that use bypass tray as a regular media source (always have labels loaded, etc.)
      - Something to include in the Implementor's Guide 2.0
  10. output-bin values:
    - a. Add more values?
      - Vendors can propose new values on the IPP list
      - Once approved we just push an update to the IANA registry

## Next Steps / Open Actions

- Next IPP conference calls June 30 and July 14, 2014 at 3pm ET
- Action: Mike to post updated proposal for destination-accesses
- Action: Pete to post proposal for destination authentication information to IPP list (DONE)
- Action: Mike to post media size summary to IPP and add to registry (PENDING - need to add to registry)
- 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)