

# Internet Printing Protocol WG Minutes

## January 19, 2015

Meeting was called to order at approximately 3:00pm ET January 19, 2015

### Attendees

Daniel Manchala (Xerox)  
Ira McDonald (High North)  
Mike Sweet (Apple)  
Paul Tykodi (TCS)  
William Wagner (TIC)

### 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-concall-minutes-20150105.pdf>
  - c. Approved as posted
3. Status of various IPP documents (Ira/Mike)
  - a. IETF IPP over HTTPS Binding and 'ipps' URI Scheme (Ira)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ipps-uri-scheme-18-20141218.pdf>
    - Stable draft - updated per IESG Approval comments on 4 December 2014
    - IETF standards-track sponsored by Barry Leiba (IETF Apps AD)
    - IESG approved on 7 January 2015 - IANA actions completed on 12 January 2015
    - Schedule - TBD per RFC Editor - waiting for RFC Editor comments
  - b. IETF LDAP Printer Schema (Ira)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ldap-printer-schema-09-20140928.pdf>
    - Stable draft - sent to RFC Editor Independent Stream per Barry Leiba (IETF Apps AD)
    - Sent to RFC Editor Independent Stream per Barry Leiba (IETF Apps AD)
    - Comments from Alexey Melnikov via Nevil Brownlee (RFC ISE) on 17 December 2014
    - Schedule - TBD per RFC Editor - waiting for update by Ira/Mike
  - c. IPP Everywhere Printer Self-Certification (SELCERT) (Mike)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20140826-rev.pdf>
    - Prototype draft - prototype reports from HP and 8 & 14 January

- 2015
  - Reviewed by IPP WG on 08/28
  - Beta tools released on 08/28 (OS X/Linux) and 09/02 (Windows)
  - Schedule - PWG Last Call Q1 2015 - waiting for update by Mike
- d. IPP Shared Infrastructure Extensions (INFRA) (Mike)
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippinfra10-20141118-rev.pdf>
  - Stable draft - prototype report at PWG F2F in November
  - IPP WG last call ended on 12/05
  - Schedule - Mike to post PWG Last Call to span February 2015 F2F
- e. IPP Finishings 2.0 (FIN) (Mike)
  - <http://ftp.pwg.org/pub/pwg/candidates/cs-ippfinishings20-20141219-5100.1.pdf>
  - published on 6 January 2015
  - PWG Candidate Standard - PWG 5100.1-2014
- 4. Review of IPP IANA Registry Policy (Mike)
  - a. <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp-registry-policy-20150106-rev.pdf>
  - b. Stable draft - updates from previous review
  - c. Reviewed by IPP WG on 10/19
  - d. Approved by PWG SC
  - e. Minor edit: MUST BE -> MUST be
  - f. Also fix final filename
  - g. Action: Mike to post IPP registration policy to FTP server
- 5. Review of IPP WG Charter (Ira)
  - a. <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp-charter-20150118-rev.pdf>
  - b. Stable draft - updates for IPP/1.1, Transform, Resources, milestones
  - c. Line 33: Add "IETF" before "Standard", drop trailing "status" - rewrite to look like line 47
  - d. Lines 103-107: Expand acronyms
  - e. Lines 103-113: Start as new list for potential new work/investigation, with CBOR at bottom, break out long hyphenated sentences into sub bullets
  - f. Clean up other hyphenated bullets (K & L)
  - g. Ira to post an update with changes
- 6. Review of IPP System Control Service (Mike/Ira)
  - a. <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20141102-rev.pdf>
  - b. Interim draft - resume review at section 4
  - c. Need to add Resource ops, Register/Deregister, Get-Printer-Attributes
  - d. Reviewed at PWG F2F in November - stopped at end of section 3.5
  - e. Schedule - Prototype draft in Q2 2015
  - f. Section 4:
    - Add reference to RFC 3995 for Subscription and Event Notification objects
    - Add reference to PWG 5100.5 for Document object
    - Add reference to PWG 5100.7 for Job object extensions
    - Add reference to PWG 5100.INFRA for Proxy
    - Add reference to PWG 5108.03 for Resource objects
    - Add reference to PWG 5100.12 for IPP/2.0
    - Reword accordingly

- g. Section 4.3:
  - Add example for IPP Scan as extension service?
- h. Section 4.4:
  - Add reference to PWG 5100.7
- i. Section 4.5:
  - Reference PWG 5100.5
- j. Add section 4.x for Event Notifications
- k. Add section 4.x for Resource object
- l. Add top level sections for System Object, Resource Objects, and System Service?
- m. Section 5: Attributes?
- n. Section 5.1:
  - Yes, add system-attributes-tag (tentatively assigned as 0x0a)
  - Also bring back resource-attributes-tag (0x08)
  - Title: "Attribute Group Tags"
- o. Section 5.2:
  - Yes, add system-uri as an operation attribute
  - Title: "Operation Attributes"???
- p. Section 5.3:
  - Title: "System Description Attributes"
  - Make owner-uri RECOMMENDED
- q. Section 5.4
  - Title: "System Status Attributes"
  - Add configured-ipp-features as a roll up union of ipp-features-supported for all configured services/printers
  - "device-uuid" - do we need it as distinct from System service?
    - We only have one system service, we may have multiple output devices.
    - Drop device-uuid
    - output-devices are reported by services, but add "configured-output-devices" to list all output devices used by all services (names + UUIDs)
    - Q: Do we need a way to associate subunits with output-device-uuid (for fanout)?
      - A: Would be nice to know \*which\* Tray 1 is low on paper, etc., but not so simple since the same input tray could be used by multiple marking engines
      - Really needs new operation like Get-Output-Device-Attributes from IPP INFRA, so for now let's just document that we don't handle subunits for fanout to external hardware/services
      - Maybe also export output-device-state/state-reasons in configured-output-devices?
- r. Global: Drop any XML schema figures that are the same as the corresponding tables/lists (3 & 4, etc.)
- s. Stopped after table 2 in section 5.4

## Next Steps / Open Actions

- Next joint Cloud/IPP conference call January 26, 2015 at 3pm ET
- To WG Last Call of IPP Implementor's Guide 2.0 (IG)
- Continue reviewing IPP System Service
- Action: Mike to post IPP registration policy to FTP server
- Action: Mike to post PWG Last Call of IPP INFRA to span February 2015 F2F (PENDING - to be posted ASAP)
- Action: Mike to send Ira description and examples of Register-System operation (PENDING)
- Action: Mike to post updated registration process per Oct 20 concall (DONE)
- Action: Ira to add comments to Printer MIB TC in 5107.3 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. (CLOSED - in updated charter)
- Action: Ira to submit Printer MIB registration for new xxx-missing PrtAlertCodeTC values in 5107.3 (CLOSED - in updated charter)