

# Internet Printing Protocol Workgroup Meeting Minutes July 18, 2019

Meeting was called to order at approximately 3pm ET on July 18, 2019.

## Attendees

Cihan (Kyocera)  
Smith Kennedy (HP)  
Ira McDonald (High North)  
Michael Sweet (Apple)  
Bill Wagner (TIC)  
Rick Yardumian (Canon)

## Agenda Items

1. IP Policy and Minute Taker
  - [http://www.pwg.org/chair/membership\\_docs/pwg-ip-policy.pdf](http://www.pwg.org/chair/membership_docs/pwg-ip-policy.pdf)
  - IP policy accepted, Mike taking minutes
2. Approve IPP minutes from previous meetings
  - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20190627.pdf>
  - Approved as posted.
3. Status/Review of various IPP mailing list notes
  - <https://www.pwg.org/archives/ipp/2019/020170.html>
  - <https://www.pwg.org/archives/ipp/2019/020178.html>
    - Fwd: [art] Modern Network Unicode - RFC 5198 Network Unicode update
  - <https://www.pwg.org/archives/ipp/2019/020172.html>
    - RFC: max-page-ranges-supported (integer(1:MAX)) Printer Description Attribute
    - Consensus: register now, add as recommended to IPP Everywhere v1.1
4. Status of AMSC and ISO liaisons w/ PWG (Paul)
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20190617.htm>
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20190701.htm>
  - See PWG Steering Committee minutes from 06/17/19 and 07/01/19
5. Status of IPP Authentication Methods (Smith)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippauth-20190702-rev.pdf>
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/lcrc-ippauth-r2.txt>
  - Stable draft - for a Best Practice
  - IPP WG LCRC review on 27 June 2019
  - PWG Formal Vote started 17 July 2019 and ends 16 August 2019
1. Quick Review of IPP Job Extensions v2.0 (Mike)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobext20-20190624-rev.pdf>

- <https://ftp.pwg.org/pub/pwg/ipp/wd/lcrc-ippjobext20.txt>
  - Stable draft - for a Candidate Standard
  - PWG Last Call started 24 May 2019 ended 21 June 2019
  - Section 5.3.1.15:
    - No quotes around Letter or A4, single quotes around MSN values
  - Action: Mike post an updated stable draft of JOBEXT and then start PWG Formal Vote ending August 16
  - Schedule - ready for PWG Formal Vote in Q3 2019 after LCRC review
2. Quick Review of IPP System Service (Ira/Mike)
- <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20190626-rev.pdf>
  - Stable draft - for a Candidate Standard
  - IPP WG Last Call ended 31 May 2019 w/ 1 comment
  - 1 remaining DISCUSS comment
    - Reduce Xxx Job and Xxx Service to a generic Job and Service definition with unadorned [PWG5100.x] references (which point to the service-specific definitions)
  - Section 2.3:
    - "... terms are imported or referenced from ..."
    - Add pointers to STD92, IPP 3D, Scan, and FaxOut to Imaging Service definitions
  - Section 4: Extra blank line
  - Section 4.3: Extra blank line in bullet list
  - Schedule - PWG Formal Approval in Q3 2019 after LCRC review
3. Quick Review of IPP Enterprise Printing Extensions v2.0 (EPX) (Smith)
- <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippepx-20190614-rev.pdf>
  - Interim draft - PWG F2F review in April 2019
  - Schedule - Prototype draft Q3 2019
  - Filename: wd-ippepx20-yyyymmdd.ext
  - Title: Add "v2.0"
  - Abstract:
    - Remove reference to JPS2 here, that should be in section 1
    - "Proof Job Feature" or "Job Proof Feature"?
    - "Stored Job Feature" or "Job Storage Feature"?
    - "Protected Job Feature" or "Job Protection Feature"?
    - Some consensus on using the "Job" prefix on the names
  - Global: Update feature names ("Job Proof Feature", etc.)
  - Section 1:
    - Include government in the list of environments
    - Need to be clear whether this specification is deprecating or obsoleting something (and if not then it doesn't need to say anything about it...)
    - Q: Do we use current attribute with Resubmit-Job, or do we have a new attribute that pauses the job after a single copy?
      - Both are supportable in the state model
      - Resubmitting the job works a lot like job storage for a limited time and can be activated from either the client or printer console

- Pausing the job doesn't allow for proof jobs on different media or sides values (for example), and how do you resume processing?
  - but that is an existing HP feature
- Apple wouldn't use either ("we just send multiple jobs")
- A: Maybe have a separate "sample-print" (or something) attribute to pause processing after the first copy
- proof-print lives on
- new "sample-print" attribute for "pause after first copy"?
  - "job-pause-after (type2 keyword)" attribute? ('first-media-sheet', 'first-set', etc.)
  - "Job Preview Feature"?
- job-save-disposition is obsoleted
- Q: Seems like a lot of overlap between features (Smith)
  - A: Yes, although some of that overlap is fortuitous since it simplifies implementation of higher-level features
- Does proof print belong in PPX 2.0?
  - Maybe?

#### 4. Status of various IPP documents (All)

- IPP Job and Printer Extensions Set 3 v1.1 (Smith)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippjobprinterext3v11-20190710-5100.13.pdf>
  - <https://www.pwg.org/archives/ipp/2019/020175.html>
  - Initial draft - for a Candidate Standard
  - Fixed all errata
  - Added PWG Message Catalog Help Extensions (HELPME)
  - To be added HP Print Quality Customization
  - See Mike's comments in IPP mailing list archive
  - Schedule - TBD
- IPP Production Printing Ext v2.0 (Mike)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippppx20-20190626-rev.pdf>
  - Errata update of PWG 5100.3-2001
  - Interim draft - for a Candidate Standard
  - IPP WG review on 24 June 2019
  - Non-production attributes moved to IPP Job Extensions v2.0
  - Schedule - PWG Last Call in Q3 2019
- IPP Job Accounting v1.0 (Mike)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippaccounting10-20190418.pdf>
  - Initial draft - for a Best Practice
  - Schedule - TBD
- IPP Everywhere 1.1 (Mike)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve11-20190627-rev.pdf>
  - Stable draft - for a Candidate Standard
  - PWG F2F discussion in April 2019
  - Defer IPP WG Last Call until IPP Everywhere Self-Cert v1.1 is ready

- Schedule - Stable working drafts/beta tools in Q3 2019
  - IPP Everywhere Self-Certification Manual v1.1 (Mike)
    - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert11-20180704-rev.pdf>
    - Prototype draft - for a Candidate Standard
    - PWG F2F discussion in April 2019
    - Update and start IPP WG Last Call together w/ IPP Everywhere v1.1
    - Schedule - Stable working drafts/beta tools in Q3 2019
  - IPP Encrypted Jobs and Documents (Mike)
    - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipptrustnoone10-20190418-rev.pdf>
    - Interim draft - for a Candidate Standard
    - PWG F2F review in April 2019
    - Updated to change from Registration to Specification
    - Schedule - Prototype draft Q3 2019
5. Open Printing update (Ira)
- OP monthly calls (06/04/19) and (07/09/19)
  - OP website renovation major progress using Jekyll - delay until September
  - GSoC 2019 Accepted student proposals announced (05/06/19)
  - All five OP projects received GSoC 2019 slots and have assigned students
  - GSoC 2019 coding started on 27 May 2019
  - GSoC Phase 1 Evaluation on 28 June 2019
  - Both IPP test suite projects are going well

## Next Steps / Open Actions

- Next conference calls on August 1 and 15, 2019 at 3pm ET
- Action: Mike post an updated stable draft of JOBEXT and then start PWG Formal Vote ending August 16
- Action: Smith to review and sign INCITS liaison agreement if ISTO and Smith are OK with it (IN PROGRESS - current agreement is a membership agreement)
- Action: Smith to post email with plain text for new section 3.5 to reflector (DONE)
- Action: Smith to post new draft of IPP Authentication Methods ready for Formal Vote that adds section 3.5 once consensus has been reached on its content, and has accepted all the changes (DONE)
- Action: Smith to query IPP WG via the reflector on whether extending the message catalog file format requires a specification (DONE)
- Action: Smith to ask Mike for clarifications about how // URLs work (DONE - review to continue in JPS3)