

# Internet Printing Protocol Workgroup Meeting Minutes

## February 27, 2020

Meeting was called to order at approximately 3pm EST.

### Attendees

Cihan Colakoglu (Kyocera Document Solutions)  
Smith Kennedy (HP)  
Jeremy Leber (Lexmark)  
Ira McDonald (High North)  
Michael Sweet (Lakeside Robotics)  
Rick Yardumian (Canon)  
Bill Wagner (TIC)  
Uli Wehner (Ricoh)

### Agenda Items

1. IP Policy and Minute Taker
  - [https://www.pwg.org/chair/membership\\_docs/pwg-ip-policy.pdf](https://www.pwg.org/chair/membership_docs/pwg-ip-policy.pdf)
  - IP policy accepted, Mike taking minutes
2. Review previous minutes
  - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20200213.pdf>
  - Approved as posted
  - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20200220.pdf>
  - Approved as posted
3. Status/Review of various IPP mailing list notes
  - <https://www.pwg.org/archives/ipp/2020/020422.html>
    - Canon issues about suggested job accounting fields - "Source-document-name(s)" and "Client host network identifier(s)"
  - <https://www.pwg.org/archives/ipp/2020/020425.html>
    - IPP WG Approved: IPP Label Printing Extensions v1.0
    - Registered in IANA IPP Registry on 18 February 2020
  - TLS 1.2 -> TLS 1.3 question:
    - TLS 1.2 puts the client time in the CHELO message, TLS 1.3 removed it
    - Some embedded implementations lack a battery-backed RTC, were using it to set their time initially
    - Q: How to deal with that?
      - Issues: Creation of self-signed certs requires date/time info, for creation time and expiration time, also validation of certs at negotiation time
      - Might be able to use product release date as the default

- date?
  - Some printers ask for date and time when turned on
  - What is the typical lifetime for printer certs? 10 years is typical, some as much as 20 years
    - PWG 5199.10 (IPP Auth), section 7.3 has guidance of at least 5 years
  - Consensus is to research this offline
  - Action: Mike/Smith/Ira to research how to deal with TLS before the date/time is set on printer
- <https://www.pwg.org/archives/ipp/2020/020433.html>
  - Canon request for client's job submission date and time
  - \*if\* we add an attribute of this kind, need to document things clearly that the value is purely informational (to give you an idea of QoS or delays on the client side vs. server side), no way to authenticate/validate/attest the client date/time.
  - Need to understand the use case better
  - What time would the client use as its creation? When the user clicks "print"? When the client sends the Job Creation request?
  - Mike: Time zone could be used as poor-man's geolocation (to restrict printing to daytime hours, etc.) - not too comfortable with that usage
- <https://www.pwg.org/archives/ipp/2020/020438.html>
  - Fwd: [Cbor] RFC 8742 on Concise Binary Object Representation (CBOR) Sequences
  - MIME type for IETF RATS (remote attestation) content
- 4. Status of AMSC and ISO liaisons w/ PWG (Paul)
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20200127.htm>
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20200210.htm>
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20200224.htm>
  - See PWG Steering Committee minutes from 01/27/20, 02/10/20, 02/24/20
- 5. Status of IPP Everywhere 1.1 (Mike)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve11-20200219-rev.pdf>
  - Stable draft - for a Candidate Standard errata update
  - IPP WG review on 13 February 2020
  - IPP WG Last Call ends on 12 March 2020
  - Schedule - PWG Call for Objections Q1 2020
- 6. Status of IPP Everywhere Self-Certification Manual v1.1 (Mike)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert11-20200219-rev.pdf>
  - Stable draft - for a Candidate Standard errata update
  - IPP WG review on 13 February 2020
  - IPP WG Last Call ends on 12 March 2020
  - Schedule - PWG Call for Objections Q1 2020
- 7. Status of IPP Everywhere v1.1 Printer Self-Certification Tools (Mike)
  - <http://www.pwg.org/archives/ipp/2020/020428.html>
  - Beta release - for IPP WG member review on 19 February 2020
  - IPP WG review on 13 February 2020
  - Schedule - Approval w/ IPP Everywhere v1.1 in Q1/Q2 2020

- Mike has posted several updates
  - Code signing and notarization on macOS require an Apple-issued certificate
  - Smith is working to get a PWG developer account
  - Mike can sign the tools using his company developer account in the interim
  - Tools will continue to be hosted on ftp.pwg.org
- 8. Review of IPP Transaction-Based Printing Extensions v1.1 (Mike)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipptrans11-20200226-rev.pdf>
  - Stable draft - errata update for PWG 5100.16-2013
  - Schedule - Start PWG Call for Objections after Feb 27 concall
  - Action: Mike to start PWG Call for Objections of IPP TRANS ending March 27
- 9. Review of IPP Driverless Printing Extensions v2.0 (Smith)
  - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippnodriver20-20200204-rev.pdf>
  - Interim draft - Candidate Standard update for PWG 5100.13-2013 (JPS3)
  - PWG F2F review on February 5-6, 2020 ended at section 6.2
  - Resuming at section 6.6.17
  - Section 6.6.17:
    - Delete extra space between "lists" and "the"
    - Drop second sentence (unconditionally required)
    - Drop "If this attribute is supported and" since this attribute is always supported.
    - "SHOULD provide an ICC profile for all UNREGISTERED keywords to allow a ..."
    - Maybe turn the SHOULDs into a bulleted list
  - Global: Use "registered" and "unregistered" instead of "standard" and "non-standard"
    - Or drop "standard", as in table 8 "print-color-mode" Keyword Values
    - Line 1210 (6.2.5 print-color-mode) can just be "Keyword values defined in this specification are shown in Table 8"
  - Section 6.6.18:
    - Simplify - just reference section 4.5 (ICC Color Profiles)
    - Move discussion of differences to section 4.5
    - "unique" -> "distinct", "Printers MUST use a distinct "print-color-mode" value for each collection in the set." (or something like that)
  - Add definition of Site Local to section 2.4
  - Section 6.6.18.2:
    - Recast as Printer requirements (not value requirements)
    - "... ICC color profile and MUST be an "https:" or "http:" scheme URI. Printers SHOULD follow the Printer resources best practices in section 12.2 when generating the URI value."
  - Section 6.6.19:
    - "This OPTIONAL attribute lists the Job Template attributes that control parameters that affect output quality."
    - Reword the rest.
    - Need to clearly state what the purpose is, what the Client should do

- with the value?
- Mike: Do we need this?
  - PPD groups in CUPS turned into an unusable mess (Gutenprint has dozens of panes to hold all of their options and groups)
  - Rename to "print-quality-attributes-supported"
  - Move discussion of UI best practices to an 12.x appendix ("how to build a print dialog") which can talk about both print-quality-attributes-supported vs. job-creation-attributes-supported
  - Drop attribute syntax restrictions?
- Section 6.6.23.2:
  - Fix conformance of values (conformance of printers)
- Stopped at section 6.6.26
- Schedule - Prototype draft in Q2 2020

## **Next Steps / Open Actions**

- Next conference calls March 12 and 26, 2020 at 3pm
- Action: Mike/Smith/Ira to research how to deal with TLS before the date/time is set on printer
- Action: Mike to start PWG Call for Objections of IPP TRANS ending March 27
- Action: Mike to propose alternate implementation of eliminate-margins using imposition-template (PENDING)
- Action: Mike to provide Smith with the color.jpg file showing overprint (DONE)
- Action: Mike and Ira to contact UK GovPrint for current status (PENDING)
- Action: Mike, Smith, and Ira to provide 3D printing liaison slide updates (PENDING - need to talk with Paul to determine which slides these are)