

Internet Printing Protocol Meeting Minutes

September 15, 2022

Meeting was called to order at 3pm EDT on September 15.

Attendees

Benjamin Gordon (Google - ChromeOS)
Smith Kennedy (HP)
Ira McDonald (High North)
Anthony Suarez (Kyocera)
Michael Sweet (Lakeside Robotics)
Jimmy Wu (Microsoft)
Steven Young (Canon)

Agenda Items

1. Antitrust and IP policies, minute taker
 - https://www.pwg.org/chair/membership_docs/pwg-ip-policy.pdf
 - https://www.pwg.org/chair/membership_docs/pwg-antitrust-policy.pdf
 - Antitrust and IP policies accepted, Mike taking minutes
2. Review previous minutes:
 - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20220901.pdf>
 - Approved as posted
3. Status of AMSC and ISO liaisons w/ PWG (Paul)
 - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20220627.htm>
 - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20220725.htm>
 - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20220822.htm>
 - See PWG Steering Committee minutes from 06/27/22, 07/25/22, 08/22/22
4. Status of PWG and IPP WG Formal Approvals and Last Calls (All)
 - IPP Everywhere Printer Self-Certification Tools v1.1 Update 4 (Mike)
 - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert11-20220510-rev.pdf>
 - Note: rename to ippeveselfcert20, this document is the current 2.0 draft
 - <https://www.pwg.org/archives/ipp/2022/021227.html>
 - PWG F2F discussion on 16 August 2022
 - IPP WG discussion on 1 September 2022
 - IPP WG Last Call started 08/19/22 and ended 09/02/22
 - Approved and Released on 2 September 2022
 - IPP Production Printing Extensions v2.0 (Mike)
 - <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippppx20-20220708.pdf>
 - <https://www.pwg.org/archives/ipp/2022/021221.html>
 - Stable draft - for a Candidate Standard

- PWG F2F discussion on 16 August 2022
 - IPP WG discussion on 1 September 2022
 - IPP WG Last Call started on 08/25/22 and ended on 09/09/22
 - Schedule - PWG Last Call in Q3 2022
 - Action: Mike to post PWG Last Call of PPX, ending Oct 13th
5. Linux Plumbers Conference 2022 - OpenPrinting - recap (Mike)
- <https://lpc.events/event/16/sessions/142/#20220914>
 - <https://ftp.pwg.org/pub/pwg/liaison/openprinting/presentations/lpc-cups-2022.pdf>
 - <https://ftp.pwg.org/pub/pwg/liaison/openprinting/presentations/lpc-printing-ci-2022.pdf>
 - <https://ftp.pwg.org/pub/pwg/liaison/openprinting/presentations/lpc-printing-docs-2022.pdf>
 - <https://osseu2022.sched.com/event/15zCi/how-we-built-ubuntu-distroless-containers-valentin-viennot-canonical?iframe=yes&w=100%&sidebar=yes&bg=no>
 - Wonderful OP micro-conference on 09/14/22
 - Mike presented on CUPS / Piotr presented on OAuth2
 - Continuous Integration / OP Documentation / Sandboxing
 - Valentin Viennot (Canonical) presented on "Chisseled" Distroless Containers
 - (see link above to Valentin's Linux Open Source Summit talk on 09/15/22)
 - CUPS:
 - Tentatively first beta in March 2023, but may not have access to resources to do OAuth UI work until May 2023 - probably later in 2023
 - Ubuntu will be distributing CUPS as snap (containerized package) without driver support starting in Ubuntu 23.04
 - OAuth:
 - Google will be releasing a paper describing their OAuth implementation on ChromeOS
 - Should update Client security considerations for "oath-authorization-server-uri (uri)" attribute - require trusted OAuth server list and/or End User confirmation/TOFU, don't just use blindly to avoid disclosure of credentials
 - Experimental Google client is also coming soon
6. IPP Driverless Printing Extensions v2.0 - status (Smith/Mike)
- <https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippnodriver20-20220902-rev.pdf>
 - <https://www.pwg.org/archives/ipp/2022/021228.html>
 - <https://www.pwg.org/archives/ipp/2022/021229.html>
 - Stable draft - for a Candidate Standard
 - Mike reported on prototyping on 30 August 2022
 - IPP WG review on 1 September 2022
 - Mike reported feedback on "client-info" on 12 September 2022
 - Benjamin: Any guidance on which client-info values to send (both WRT limits/priority and in general)
 - Mike: Not a big fan of sending lots of Client/User info but

- understand diagnostic value of the info, probably OS and application information most important
 - Smith: Preferred information depends on use case
 - Ira: Historical problem has been names and versions are not well standardized
 - Benjamin: Can we have a lower limit?
 - Mike: Yes, just add "max-client-info-supported integer(N:MAX)" Printer Description attribute, where N is a small number to handle the anticipated minimum useful information (3 for OS, driver, and application?)
 - ~2369 bytes per collection maximum
 - Benjamin: Make N=4 to cover the four keywords: 'app', 'driver', 'os', and 'other'.
 - Ira: How to convey type of information for prioritization?
 - Smith: Add "client-type (type2 keyword)" member attribute for OS, driver, application, other, etc?
 - Mike: How useful is this if we define a lower bound for the number of values?
 - Mike: Also, how to identify component types (which level of driver?)
 - Benjamin: Useful for identifying that "ChromeOS" is an operating system name vs. application name
 - Add "printer-requested-client-type (1setOf type2 keyword)" Printer Description attribute
 - Can require (mandatory) client-info, but *can't* require a particular type of information (might not have it)
 - Benjamin: Might use "other" data for admin-defined routing/metadata info
 - Smith/Ira: Should we make client-type a type2 enum?
 - Consensus: No objections
 - "client-type (type2 enum)"
 - "printer-requested-client-type (1setOf type2 enum)"
 - 3 = Application
 - 4 = Operating System
 - 5 = Driver
 - 6 = Other
 - Schedule - PWG Last Call in Q4 2022
8. OAuth2 - continue discussion from PWG F2F and IPP WG (Mike)
- <https://ftp.pwg.org/pub/pwg/ipp/slides/ipp-wg-agenda-august-22.pdf>
 - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-f2f-minutes-20220816.pdf>
 - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20220825.pdf>
 - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20220901.pdf>

Next Steps / Open Actions

- Next conference calls on September 29 and October 13, 2022 at 3pm
- Action: Mike to post PWG Last Call of PPX, ending Oct 13th