Internet Printing Protocol Meeting Minutes
January 13, 2022

Meeting was called to order at 3pm EDT.

Attendees

Smith Kennedy (HP)
Jeremy Leber (Lexmark)
Ira McDonald (High North)
Anthony Suarez (Kyocera)
Michael Sweet (Lakeside Robotics)
Bill Wagner (TIC)
Uli Wehner (Ricoh)

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. Approve previous minutes
   - https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20211209.pdf
      - Approved as posted
3. Status/Review of various IPP mailing list notes
   - https://www.pwg.org/archives/ipp/2021/021059.html
      - Fwd: [TLS] Fwd: [Uta] WGLC for draft-ietf-uta-rfc7525bis-04 (Ira)
   - https://www.pwg.org/archives/ipp/2021/021061.html
      - Canon's feedback to NODRIVER v2 - 6.4.1 client-info (Steven)
      - Ira: Do we want to register OS names?
         - Mike: Did make it type2 keyword, but need clear guidance for different versioning/identification schemes
      - Ira: version/OS naming is a rathole
         - Mike: If we did something like media standardized name format
      - Bill: Why does the printer need to know the client OS?
         - Smith: Some accounting use cases (to diagnose printing problems) could make use of it
         - Bill: but for troubleshooting the client address is known
         - Mike/Ira: address isn't stable, and should be randomized for IPv6 link local
      - Ira: What is client-name? And what about different client software submitting from the same client?
         - Smith: client-info is 1setOf and client-key is a machine-

readable OS, Application, or Client name
- Bill: Uncomfortable making this REQUIRED
    - Mike: REQUIRED to accept, OPTIONAL to send
    - Bill: OK if it is clear that it isn't mandatory to supply and the printer scope is limited to copying to the corresponding Job Status attribute
    - Identify that it is for Job Accounting
        - Mike: Should we make this conditionally required for job accounting?
- Uli: Ok to drop client-key, other strings are consistent with existing PJL, etc. information
- Explicitly say that information cannot be used to make job processing decisions (too easy to cause problems/breakage)
- Consensus: drop client-key, provide recommendations for client-name, link patches/version member attribute to HCD attributes (PWG 5110.1)
- Also need to include a job accounting use case with a reference to the Job Accounting with IPP Best Practice
- Should say something about PII for client-info
- Examples?
- Mike: Most often all you need to know is the OS+client/driver software used, some specialized applications (Adobe, etc.) do their own PDL generation instead of using the default OS PDL generation
- Uli: Typical accounting wants to see source application (e.g. PowerPoint can print in color, others just in B&W, etc.)
    - https://www.pwg.org/archives/ipp/2021/021063.html
        - Fwd: I-D Action: draft-ciphersuites-in-sec-syslog-00.txt
4. Status of AMSC and ISO liaisons w/ PWG (Paul)
    - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20211129.htm
    - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20211213.htm
    - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20220110.htm
    - See PWG Steering Committee minutes from 11/29/21, 12/13/21, 01/10/22
5. Status of PWG and IPP WG Formal Approvals and Last Calls (All)
    - https://www.pwg.org/archives/ipp/2021/021045.html
        - IPP WG Last Call: Deprecating IPP Print by Reference v1.0
        - Started 2 November 2021 ended 15 December 2021 - no comments
        - Mike published final version of registration on January 13, 2022:
            - https://ftp.pwg.org/pub/pwg/ipp/registrations/reg-ippdepuri10-20211215.pdf
6. Status of various IPP documents (All)
    - IPP 2.0, 2.1, and 2.2 Update (Mike/Ira)
        - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippbase23-20211020.pdf
        - Prototype draft - for a PWG Standard
        - PWG review at PWG Virtual F2F in November 2021 - completed
        - Schedule - next Prototype draft in Q1 2022

- IPP Driverless Printing Extensions v2.0 (Smith)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippnodriver20-20211102-rev.pdf
    - Interim draft - for a Candidate Standard
    - PWG review at PWG Virtual F2F in November 2021 - completed
    - Next draft should be Prototype status
    - Waiting for prototyping in ippsample
    - Schedule - Prototype draft in Q1 2022
- IPP Encrypted Jobs and Documents v1.0 (Mike/Smith)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipptrustnoone10-20210519-rev.pdf
    - Prototype draft - for a Candidate Standard
    - PWG discussion at PWG Virtual F2F in August 2021
    - Waiting for prototyping in ippsample
    - Schedule - Stable draft in Q1 2022
- IPP Enterprise Printing Ext v2.0 (Smith)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippepx20-20211101-rev.pdf
    - Prototype draft - for a Candidate Standard
    - IPP WG review on 7 October 2021 - completed
    - Need to add missing storage attributes from draft registration
        - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippstorage10-20210129.docx
        - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippstorage10-20210129.pdf
    - Waiting for prototyping in ippsample
    - Schedule - Stable draft in Q1/Q2 2021
- IPP Everywhere v2.0 (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve20-20211021-rev.pdf
    - Major update - for a Candidate Standard
    - Add TLS/1.2 and/or TLS/1.3, Privacy, Job Accounting as Mandatory
    - Add Feature definitions for "vertical solution" use cases
    - Define tests to certify standard common features
    - PWG review at PWG/OP Virtual F2F in November 2021
    - Schedule – Prototype draft in Q3 2022
- IPP Finishings v3.0 (Smith)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings30-20211119-rev.pdf
    - Prototype draft - for a Major update
    - IPP WG review on 9 December 2021 - completed
    - Smith to send ippserver .conf file and updated ipptool test file for Finishings 3.0
    - Mike to commit these to ippsample repo under examples directory
    - Next draft to Stable status
    - Schedule - Stable draft in Q1 2022
- IPP Production Printing Ext v2.0 (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippppx20-20211020-rev.pdf
    - Prototype draft - for a Candidate Standard

- PWG review at PWG Virtual F2F in August 2021 - completed
- Waiting for prototyping in ippsample
- See Mike's PDFio library to enable prototyping in ippsample in OP news below
- Schedule - Stable draft in Q1 2021
- Cloud Registration with X.509 Certificates (Cihan/Mike)
    - Registrations or Updates to IPP INFRA and IPP System Service
    - Gathering a list of potential improvements/extensions
    - PWG discussion at PWG/OP Virtual F2F in May 2021
    - Schedule - TBD
7. Open Printing update (Ira)
    - https://ftp.pwg.org/pub/pwg/liaison/openprinting/minutes/OP-Minutes-20211207.htm
    - https://openprinting.github.io/OpenPrinting-News-November-2021/
    - https://openprinting.github.io/OpenPrinting-News-December-2021/
    - https://developers.google.com/open-source/gsoc/timeline
    - https://github.com/OpenPrinting/cups/releases/tag/v2.4.0
    - https://github.com/OpenPrinting/cups-filters/releases/tag/1.28.10
    - https://github.com/michaelrsweet/pappl/releases/tag/v1.1b3
    - https://github.com/michaelrsweet/pdfio/releases/tag/v1.0.0
    - https://github.com/michaelrsweet/lprint/releases/tag/v1.1.0
    - OP Monthly Steering Committee (no minutes yet) from 01/04/22 (Ira)
    - See OP Monthly Steering Committee minutes link from 12/07/21 (Ira)
    - See OP Monthly news links from 11/13/21 and 12/10/21 (Till)
    - GSoC 2022 major changes (Till)
        - Eligible Contributors - not only Students
        - From now on it will not be required to be a university/college student
        - Anyone 18 years old can participate
        - Mentoring organization application deadline is 02/21/22
    - See OP CUPS v2.4 release notes link from 11/29/21 (Zdenek Dohnal, RedHat)
    - See CUPS Filters v1.28.10 release notes link from 08/17/21 (Till)
    - See PAPPL v1.1b3 release notes link from 11/04/21 (Mike)
    - See PDFio v1.0.0 release notes link from 12/14/21 (Mike)
        - Simple C library for reading and writing any version of PDF files
    - See LPrint v1.1.0 release notes link from 12/23/21 (Mike)
        - Switched to using PAPPL!
    - OP Steering Committee
        - OP monthly calls 12/07/21, 01/04/22, and upcoming 02/15/22

Next Steps / Open Actions

- Next conference call January 27, 2022 at 3pm ET
- Next F2F meeting February 8-9, 2022
- Action: Mike to post note about Get-Printer-Attributes not allowing authentication

to IPP mailing list for discussion (PENDING)
- Action: Mike and Smith to get new code signing cert for Windows (PENDING)
- Action: Mike to post approved DEPURI after Dec 15th (DONE)
- Action: Mike to update templates to use datatracker URLs (PENDING)
- Action: Mike to post definitions of Enterprise, Production, and Workgroup printers to mailing list (PENDING)
- Action: Paul to provide Mike with a list of important 3D organizations and projects for 2021-2022 (PENDING - Mike will ping...)
- Action: Paul to reach out to Pat at ASTM to determine contacts for IPP expansion (PENDING)
- Action: Mike, Ira, and Smith to develop IPP Everywhere value proposition content (PENDING, part of pending SC article content)