Internet Printing Protocol Meeting Minutes
June 20, 2024

Meeting was called to order at 3:00pm EST on June 20.

Attendees

Charles Armstrong (Canon)
Jeremy Leber (Lexmark)
Ira McDonald (High North)
Chris Rizzo (Xerox)
Anthony Suarez (Kyocera)
Michael Sweet (Lakeside Robotics)
Bill Wagner (TIC)
Uli Wehner (Ricoh)
Michael Ziller (Microsoft)

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. IPP minutes from previous meetings
   - IPP April 25, 2024 Meeting:
     - https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20240425.pdf
     - Approved as posted
   - PWG May 2024 F2F:
     - https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-f2f-minutes-20240507.pdf
     - Approved as posted
3. IPP mailing list posts:
   - May 9: "printing job with different finishings"
     - https://www.pwg.org/pipermail/ipp/2024/021593.html
     - Takeaways:
       - Mike: User needed to submit separate jobs to get part of a document printed with finishings and part without (cover letter + stapled report) - functionality that is important for the overrides use case
       - Bill: Also there are no standard clients that support specifying overrides like this
   - June 7: "Fwd: New Non-WG Mailing List: ssh -- to allow discussions on improving aspects of the Secure Shell (SSH) protocol"

- https://www.pwg.org/pipermail/ipp/2024/021607.html
- One message thus far urging adoption of ssh-agent update, plus lively discussions elsewhere in the IETF security area...
- June 11: "What value do IPP Printers provide for "printer-name"?"
    - https://www.pwg.org/pipermail/ipp/2024/021608.html
    - Chris: Are we going to try to standardize this?
        - A: No, more curiousity
        - AirPrint/IPP Everywhere only require specific values for printer-make-and-model and printer-dns-sd-name
        - Bill: We might suggest a default? And recommend that the value be settable?
        - Uli: If there was a recommendation that would more strongly influence firmware design decisions
        - Mike: Not used by CUPS clients
            - Uli: Windows seems to default to using the printer-name value
            - Michael: I'll check
        - Ira: IIG2.0 says nothing about printer-name
            - Maybe file errata for IIG 2.0?
            - Mike: IIG can talk about client recommendations, IPP Everywhere 2.0 can talk about printer recommendations
        - Bill: What's the point of requiring printer-name if nobody uses it?
            - Mike: It has been required since IPP/1.0, and if we take a longer view maybe we could have something useful in the future?
    - Mike: Maybe IPP Everywhere 2.0 can make some recommendations/requirements
        - Bill: Suggest defaults
        - Mike: Also require it to be settable (EWS, Console, and/or Set-Printer-Attributes), not blank and not the resource path, etc. from the URI
    - Action: Mike to post a summary to the printer-name message thread
4.   Status: AMSC and ISO liaisons w/PWG (Paul)
    - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20240610.htm
    - PWG 3D/IPP article development:
        - Recent Additive Construction webinar - new "framework standard", including 3D printing
        - They may be able to help us to "tune" our presentation on Safe G-Code
    - ICAM 2024 - Additive Construction track that Paul may be able to attend on behalf of PWG
    - PWG 3D PR Opportunities
        - Paul to condense content for PWG August 2024 F2F, focus on ICAM

5. Status: IPP Charter Update
   - https://ftp.pwg.org/pub/pwg/ipp/charter/ch-ipp-charter-20240510.pdf
   - Successfully completed PWG Call for Objections on May 10, 2024
   - PWG SC approved process during June 10, 2024 meeting
   - Ira published on June 12, 2024
   - Bill: How to discover which IPP attribute corresponds to a MIB object/property?
     - Ira: There is currently no cross-reference dictionary
     - Mike: Is this important to have?
       - Bill: Yes, some groups are looking for this information
     - Mike: Would a table on the IPP WG page be useful?
       - Bill: That would be a good start
     - Action: Mike to generate a web page off the IPP and WIMs WG pages that provides an IPP-SNMP mapping table
6. Status: IPP Document Object v1.2 (DOCOBJECT)
   - https://ftp.pwg.org/pub/pwg/candidates/cs-ippdocobject12-20240517-5100.5.pdf
   - Successfully completed PWG Call for Objections on May 17, 2024
   - PWG SC approved process during June 10, 2024 meeting
   - Mike published on June 12, 2024
7. Status: IPP OAuth Extensions v1.0 (OAUTH)
   - https://www.pwg.org/pipermail/ipp/2024/021626.html
   - Mike's prototyping experience with CUPS/mOAuth
   - Bill: Why would you trust DHCP/DNS-SD values?
     - Mike: Those are part of infrastructure, DNS-SD would only use regular DNS which can be encrypted/signed, and you trust them for everything else anyways when you connect to the network. Also, the client still does X.509 validation when connecting to the server.
   - Q: OK to move this document to stable status?
     - A: Yes, make proposed changes and continue development
   - Next status: stable
8. Discussion:
   - Priorities, schedule, and prototyping of remaining documents
   - Priorities (1 = least, 5 = most):
     - IPP Encrypted Job and Documents: 1
     - IPP Everywhere v2.0: 3
     - IPP Everywhere Printer Self-Certification Manual v2.0: 3
     - IPP OAuth Extensions v1.0: 5
     - IPP Shared Infrastructure Extensions v1.1: 5
     - IPP System Service v1.1: 5
     - IPP/2.x Fourth Edition: 4
     - IPP Wi-Fi Configuration Extensions v1.0: 2

Next Steps / Open Actions

- Next conference calls on July 18, 2024 at 3pm
- Talk about more "Strong Device Identity" at future (soon) concall, determine requirements/use cases
- Action: Mike to post a summary to the printer-name message thread
- Action: Mike to generate a web page off the IPP and WIMs WG pages that provides an IPP-SNMP mapping table
- Action: Mike to update the IPP How-To Guide and post to IPP list for discussion (PENDING)
- Action: Paul to review existing 3D use cases and identify any gaps (PENDING)
- Action: Mike to update IPP Everywhere 2.0 test files (PENDING - started work on it)