Internet Printing Protocol Workgroup Meeting Minutes
July 19, 2018

Meeting was called to order at approximately 3pm ET on July 19, 2018.

Attendees

Sean Kau (Google)
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
   - IP policy accepted, Mike taking minutes
2. Review previous minutes:
   - https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20180607.pdf
   - Approved as posted
3. IPP/1.1 to Internet Standard 📣
   - http://www.pwg.org/archives/ipp/2018/019647.html
   - http://www.pwg.org/archives/ipp/2018/019648.html
   - 20 years after publication of RFC 2910/2911...
4. Status/Review of various IPP mailing list notes
   - http://www.pwg.org/archives/ipp/2018/019625.html
     - Canon requests registration of four new IPP media sizes on 06/18/18
     - Approved:
       - oe_square-photo_4x4in
       - oe_square-photo_5x5in
       - om_square-photo_89x89mm
       - oe_business-card_2x3.5in
       - oe_business-card_55x85mm
       - oe_business-card_55x91mm
     - Note potential interoperability issue with om_card_54x86mm (within 1mm)
     - Action: Mike to post approval of Canon sizes to IPP mailing list thread
   - http://www.pwg.org/archives/ipp/2018/019630.html
     - IANA registry issues noted on 06/19/18
     - Approved, corrections on pwg.org, will include in next IANA update

- http://www.pwg.org/archives/ipp/2018/019634.html
    - Registration: Obsolete access-x509-certificate member attributes on 06/20/18
    - Approved, to be included in the next IANA update
- http://www.pwg.org/archives/ipp/2018/019651.html
    - Review/update PWG 5100.7: Standard for IPP: Job Extensions on 06/26/18
    - Obsolete "job-xxx" attributes
    - What to do about ipp-attribute-fidelity and job-mandatory-attributes - should not be exposed in this way
    - Defer remaining discussion to F2F
    - General consensus is to either obsolete this specification or do an errata that obsoletes certain parts
    - Action: Mike to assemble a list of specifications that reference PWG 5100.7
- http://www.pwg.org/archives/ipp/2018/019653.html
    - Editorial Errata Reported: RFC3996 on 06/28/18
- http://www.pwg.org/archives/ipp/2018/019652.html
    - Technical Errata Reported: RFC3996 on 06/28/18
- http://www.pwg.org/archives/ipp/2018/019664.html
    - RFC 8011 Erratum: "referenced-uri-scheme-supported" on 07/17/18
    - Smith has submitted an errata report through the RFC editor page
5. Status of Open Printing WG GSoC 2018 (Ira)
    - https://ftp.pwg.org/pub/pwg/liaison/openprinting/presentations/TheLinuxFoundationGSoC-2018.pdf
    - Good progress on all projects - good questions are all getting resolved
    - DONE - 14 May - GSoC coding begins
    - DONE - 11-15 June - GSoc Phase 1 evaluations by Mentors and Students
    - DONE - 9-13 July - GSoc Phase 2 evaluations by Mentors and Students
    - 6-14 August - GSoC final week
    - 14-21 August - Mentors submit final Student evaluations
    - 22 August - GSoC announces final results
6. Status of AMSC and ISO liaisons w/ PWG (Paul)
    - https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20180702.htm
    - See PWG SC minutes from 2 July 2018
7. Status of Safe G-Code (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-pwgsafegcode10-20180704-rev.pdf
    - http://www.pwg.org/archives/ipp/2018/019661.html
    - Prototype draft - IPP WG review on 7 June 2018
    - Schedule - IPP WG Last Call Q4 2018
8. Status of IPP 3D Printing Extensions v1.1 (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp3d11-20180704-rev.pdf
    - http://www.pwg.org/archives/ipp/2018/019660.html
    - Prototype draft - IPP WG review on 7 June 2018
    - Schedule - PWG Last Call Q4 2018
9. Status of How to Print Using the IPP (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippguide-20180430.html

- https://github.com/istopwg/pwg-books
- IPP WG review during PWG F2F May 2018
- Current HTML draft available in Github repository
- Schedule - TBD
10. Status of IPP HTTP Authentication white paper (Smith)
    - https://ftp.pwg.org/pub/pwg/ipp/whitepaper/tb-ippauth-20180629.pdf
    - Interim draft - Last IPP WG review during PWG F2F May 2018
    - Schedule - TBD
11. Status of IPP Encrypted Jobs and Documents (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipptrustnoone10-20180328-rev.pdf
    - http://www.pwg.org/archives/ipp/2018/019613.html
    - https://lists.gnupg.org/pipermail/gnupg-users/2018-May/060315.html
    - Interim draft - IPP WG review during PWG F2F May 2018
    - Good news - PGP-based path forward on 06/04/18!
    - Schedule - Mike to work on updated draft w/ just PGP this fall
12. Status/Review of IPP System Service (Ira/Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20180701-rev.pdf
    - http://www.pwg.org/archives/ipp/2018/019657.html
    - https://github.com/istopwg/ippsample/projects/1
    - Prototype draft - IPP WG review during PWG F2F May 2018
    - Prototyping tasks being tracked as a Github project
    - Schedule - prototype in "ippserver" - Stable draft in Q3/Q4 2018
13. Review of IPP Reprint Password (Smith)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippreprintpwd-20180620-rev.pdf
    - http://www.pwg.org/archives/ipp/2018/019631.html
    - Stable draft - IPP WG review during PWG F2F May 2018
    - PWG process check - shouldn't this have been a Prototype draft?
        - Yes, use "prototype" for registrations that are ready, "stable" for last call
    - Section 1:
        - Line 140: Fix first sentence ("the IPP ATTRIBUTES defined to support ..."?)
    - Section 3:
        - Rewrite trailing sentence on line 172 (no quotes around "processes"?)
        - Figure 1:
            - 1. Drop "specifying 'save-only'
            - 2. Job is processed and saved to storage
            - 3. Job 1 Copied from Storage for Reprint as Job 2 (note that the User is requesting reprint from console)
            - Job 1' should be Job 2
            - Maybe have a separate processing diamond for Job 2 (since the job is printed) and don't loop
        - Lines 173-179: Present tense, drop second sentence ("Since it is an operation..."), merge paragraphs, maybe reword things a little.
    - Section 5.1:
        - Split out Fetch-Job requirements Printers that conform to IPP

Shared Infrastructure Extensions (INFRA) [PWG5100.21]
- For Fetch-Job, job-reprint-password will cause a copy of the job to be stored locally
    - But another printer connected to the same cloud service does a Resubmit-Job request, which should throw the job-reprint-password[-encryption] attributes away
- Add section on amended Resubmit-Job semantics
    - Remove "job-reprint-password" and "job-reprint-password-encryption" from copied Job so that the new Job is not automatically re-stored
- Stopped at section 5.1
- Status: Prototype
14. Status of IPP Everywhere Printer Self-Certification 1.0 Update 3?
    - http://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-f2f-minutes-20180515.pdf
    - Goals, ipptool and ippfind updates
    - Now have code signing certificate!
    - Schedule - Mike to release beta of update 3 for testing soon
15. Status of IPP Everywhere 1.1 (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeve11-20180704-rev.pdf
    - Prototype - IPP WG review during PWG F2F May 2018
    - Schedule - Q3/Q4 2018
16. Status of IPP Everywhere 1.1 Self-Certification Manual 1.1 (Mike)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert11-20180704-rev.pdf
    - Prototype draft - IPP WG review during PWG F2F May 2018
    - Schedule - Q3/Q4 2018

Next Steps / Open Actions

- Next IPP WG conference call on Thursday, August 2, 2018 from 3:00-4:30pm ET
- PWG virtual F2F on August 15 and 16, 2018
- Action: Mike to post approval of Canon sizes to IPP mailing list thread
- Action: Mike to assemble a list of specifications that reference PWG 5100.7
- Action: Mike to post registration template obsoleting access-x509-certificate (DONE)
- Action: Smith to post diagrams showing different encrypted job topologies (PENDING)
- Action: Mike to investigate IPPS issue in Wireshark - "ipp" filter not working (PENDING)
- Action: Smith to follow-up on the 3MF liaison agreement (IN PROGRESS - Alexander Auster (Autodesk) will be taking over, Kurt Hunter has retired from Microsoft, Adrian is now shepherding things)