Internet Printing Protocol Workgroup Meeting Minutes
March 16, 2017

Meeting was called to order at approximately 3pm ET on March 16, 2017.

Attendees

Smith Kennedy (HP)
Ira McDonald (High North)
Mike Sweet (Apple)
Paul Tykodi (TCS)
Bill Wagner (TIC)
Rick Yardumian (Canon)

Agenda Items

1. IP Policy and Minute Taker
   - IP policy accepted, Mike taking minutes
2. Approve previous minutes:
   - http://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20170302.pdf
   - Approved as posted.
3. Status of IPP Finishings 2.1 (Smith)
   - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings21-20170217-rev.pdf
   - Stable draft - PWG Approved on 02/17/17
   - Publish with line numbers off, "Candidate Standard", "Status Approved", updated document URLs, etc.
4. Status of IPP 3D Printing Extensions (Mike)
   - http://ftp.pwg.org/pub/pwg/candidates/cs-ipp3d10-20170210-5100.21.pdf
   - Published on March 16
5. Possible pwgraster-lint tool (Smith/Mike)
   - email discussion on 03/14/17
     - Smith will forward message thread to IPP mailing list
   - Issue #29 in ippsample project:
     - https://github.com/istopwg/ippsample/issues/29
   - Discussion:
     - Also use for a future IPP Transform service, using a generic "lint report" MIME media type so that (in theory) any document format could be validated.
     - Have OpenPrinting volunteers to write code as needed for different formats.
     - Known issues with reporting problems with PDF/PostScript since it is hard to report on where the problem is (page number or PDF object number are more feasible than file offsets)
       - Will talk with Artifex developers for their feedback

6. TLS 1.3 is in WG last call
   - https://tools.ietf.org/html/draft-ietf-tls-tls13-19
   - http://www.pwg.org/pipermail/ipp/2017/019129.html
   - http://www.pwg.org/pipermail/ipp/2017/019130.html
   - Going to get fast tracked
   - Also DTLS 1.3 drafts in development
7. Review of PWG 3D Print Job Ticket (Mike)
   - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-smpjt3d10-20170303-rev.pdf
   - http://ftp.pwg.org/pub/pwg/sm3/schemas/smpjt3d10-20170303.zip
   - Interim draft
   - Schedule - Stable draft Q2 2017
   - Add appendices for:
     - Sample Print3DJobTicket
     - Sample Print3DJobTicketCapabilities
     - IPP Mapping (if needed)
   - Section 1:
     - Talk a bit about the abstraction away from hardware for safety, etc. reasons
   - Section 2.2:
     - Add definition of Service
   - Schema:
     - Bill: Not clear how the ticket or capabilities are defined/referenced
     - Add a README file to the schema archive
     - Add information to the spec about the schema (file) organization to the beginning of section 4.
     - "Roadmap" needed
     - Define what the namespace URL should be
     - Add DocumentMetadata element as a sequence with an extension point - that would allow arbitrary metadata (e.g. Dublin Core)?
       - Look at how that maps to/from IPP's document-metadata attribute
   - Add reference to PJT
   - Hopefully next interim draft will be content-complete, then we can move to Stable and do a WG last call
   - Paul will share latest draft with NIST
     - When discussing interfaces, printer is a "black box" where all of the safety, electrical, mechanical, etc. interfaces are NOT exposed
     - PWG model is intent-based, not process-based.
   - Mike will update 3D landing page to include links to the current draft PJT3D stuff
8. Review of IPP WG Charter (Ira)
   - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp-charter-20170314-rev.pdf
   - Interim draft
   - Add PJT3D to current projects
   - PWG Semantic Model Maintenance:
     - Is this just updating existing schema or auto-generated or ???
     - Update wording to "update automatically-generated PWG Semantic

Model schema (e.g. 'Print3D') as required to align with IPP updates"
- Add "PWG Semantic Model Schemas for Other Services" to potential IPP WG projects section
    - Would basically involve adding a service association field in the registry so the regtosm tool can pull the attribute associations from the registry instead of from a plain text file (what is done today)
- IPP Concise:
    - IETF CBOR WG has been re-chartered to add new types and update CDDL
    - Ira will forward messages to the IPP WG list
    - Mike's prototyping shows CBOR is less compact than application/ipp
    - Focus should be on gateway/management/monitoring/control applications and not as a replacement for IPP in general (what is the compelling use case for using CBOR to carry IPP messages?)
    - Update all references
- Schedule - PWG approval Q2 2017 (PWG SC or formal vote?)
9. Review of IPP System Service (Ira/Mike)
    - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20170314-rev.pdf
    - Interim draft
    - Reviewed by IPP F2F on 02/14/17
    - Schedule - Prototype draft in Q2/Q3 2017
    - Did not get to this
10. WebEx Discussion (Smith)
    - Q: Do we want to start using the individual conference #'s for IPP instead of the old dial-in numbers?
        - Need more local access numbers listed for other countries (new international members)
        - Would be nice since a) that allows VOIP access as well as announcements
        - A: Yes, let's switch over and provide links to all local access numbers
        - Will discuss further in steering committee

Next Steps / Open Actions

- Next IPP WG conference calls on Thursday, March 30, 2017 and April 13, 2017 from 3:00-4:30pm ET
- Action: Mike to post deprecation template for 'jog-offset' finishings/finishing-template values, with reasons (PENDING)
- Action: Mike to document ippserver setup on Raspberry Pi for 3D (PENDING)
- Action: Mike to develop ipptool tests for IPP 3D (PENDING)
- Action: Mike to look at document template to fix level 3 headings which are not bold (ONGOING - template was correct, Mike will look at the System Service document instead)