Internet Printing Protocol Meeting Minutes
September 12, 2024

Meeting was called to order at 3:00pm ET.

Attendees

 Charles Armstrong (Canon)
 Benjamin Gordon (Google)
 Smith Kennedy (HP)
 Jeremy Leber (Lexmark)
 Ira McDonald (High North)
 Piotr Pawliczek (Google)
 Anthony Suarez (Kyocera)
 Mike Sweet (Lakeside Robotics)
 Uli Wehner (Ricoh)

Agenda Items

1. PWG IP policy, minute taker, administrivia
2. Review IPP minutes from previous meetings:
   - https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20240829.pdf
   - Approved as posted
3. Pending IPP WG documents:
   - IPP/2.x Fourth Edition (BASE)
     - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippbase23-20240829-rev.pdf
     - Section 7, table 2: Close-Job is C. REQUIRED, Create-Job is RECOMMENDED
     - Section 8.2/8.3: Add note to tables about media-col being recommended for IPP/2.0 for historical reasons
     - Section 8.3.1: Add "Client software can use this value as the default printer display name" or something to that effect.
     - Consensus is for Mike to post a quick update and start IPP workgroup last call
     - Action: Mike to post IPP/2.x 4th Edition draft for IPP WG last call ending September 26
   - IPP Wi-Fi Configuration Extensions v1.0 (WIFI)
     - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippwifi10-20240807-rev.pdf
     - IPP WG last call ends today
     - Consensus is to approve and publish
     - Action: Mike to publish WIFI registration and submit to IANA
4. Brief discussion of IPP FaxOut
   - Ira noted there is another errata update we wanted to do to synchronize FaxOut and Scan handling of input and output formats.

- Mike and Ira will work offline to file an errata against FaxOut
5. Review IPP Firmware Update Extensions v1.0 (FWUPDATE)
    - https://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfwupdate-20240911-rev.pdf
    - Section 4:
        - Drop "defined by the manufacturer" from first sentence.
        - Split out the rest as the first method "4.1 Client Managed Firmware Updates"
        - Adopt the subsections for each scenario, show either how the scenario is handled or not handled by IPP (either in this registration or another spec)
        - Mike: For completely autonomous updates, it is useful for the Printer to report when it has updated the firmware even if the Client has no control over the process
        - Make section and figure titles consistent (without "scenario" since we start each section with 'in this scenario')
        - Mike: Also add a subsection for the Client to query the availability of a firmware update without triggering?
        - Mike: From a model standpoint, you have the push (from client to printer) and the pull (printer from site/manufacturer) with some sort of printer policy for updates (automatic or wait for client to authorize) and the ability for the client to query the update status
    - Section 6.2:
        - "The Printer responds immediately and the Client monitors using Get-Printer-Attributes [STD92] or IPP Notifications [RFC3995]"
        - Move access rights to end of description
        - Also return printer status attributes in the response
        - Mike: Might be useful to just have a single "printer-firmware-update-time (dateTIme | no-value)" Printer Status attribute to tell the client when the update will be installed
    - Consensus is that for this registration we will have a single firmware update image
        - Should say something in the introduction to section 4 that more complex scenarios (with multiple firmware images) are out of scope, etc.
    - Also out of scope: check schedule, auto-update schedule
    - Ira: Do we have what we need for notifications?
        - Mike: Yes, printer-state-changed event with the "firmware-update-available" printer-state-reasons keyword
    - Will continue discussion for model changes/diagrams on the IPP list
        - Smith will post the updated diagrams to the IPP list

Next Steps / Open Actions

- Next conference calls on September 26 and October 10, 2024 at 3pm
- Talk about more "Strong Device Identity" at future (soon) concall, determine

requirements/use cases
- Action: Mike to post IPP/2.x 4th Edition draft for IPP WG last call ending September 26
- Action: Mike to publish WIFI registration and submit to IANA
- Action: Mike to work with Smith to ensure PNG and .strings file tests are possible with new ipptool (DONE, mostly yes)
- Action: Mike to file errata for 5100.7 to make Close-Job CONDITIONALLY REQUIRED (DONE)
- Action: Mike to start IPP WG last call of WIFI, ending September 12th (DONE)
- Action: Smith to file enhancement request against the ippregistry project for ipptool test generator (DONE)
- 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)