

# Internet Printing Protocol Meeting Minutes

## April 27, 2023

Meeting was called to order at 3pm EST.

### Attendees

Benjamin Gordon (Google)  
Smith Kennedy (HP)  
Jeremy Leber (Lexmark)  
Ira McDonald (High North)  
Piotr Pawliczek (Google)  
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-ip-policy.pdf)
  - [https://www.pwg.org/chair/membership\\_docs/pwg-antitrust-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
  - <https://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20230413.pdf>
  - Approved as posted
3. Status of AMSC and ISO liaisons w/ PWG (Paul)
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20230306.htm>
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20230320.htm>
  - <https://ftp.pwg.org/pub/pwg/general/sc/pwg-sc-call-minutes-20230417.htm>
  - See PWG Steering Committee minutes from 03/06/23, 03/20/23, 04/14/23
4. F2F Meeting prep
  - Reduce afternoon time for IPP/2.0 and IPP Everywhere 2.0 to 1 hour (3-4pm)
5. PWG Media Standardized Names v2.0 - update (Mike, Steven)
  - <https://ftp.pwg.org/pub/pwg/candidates/cs-pwgmsn20-20130328-5101.1.pdf>
  - <https://www.pwg.org/dynamo/issues.php?L+Z19> (Errata)
  - Update for Errata and vendor registrations since 2013 version
  - Action: Mike to post initial MSN 2.1 draft for May F2F
6. OAuth2 - review Trust Relationships (Smith)
  - <https://www.pwg.org/archives/ipp/2023/021380.html> (Trust Relationships)
  - <https://ftp.pwg.org/pub/pwg/ipp/slides/OAuth-2.0-Trust-Relationships-and-Resource-Identifiers-2023-04-11.pdf> (Trust Relationships slides)

- Review update on Trust Relationships posted on 03/28/23 (Smith)
  - Email discussion thru 04/11/23 (Mike)
  - Slide 3: "Authorization Service"
  - Slide 11:
    - Printer URI doesn't need to be globally unique - for Enterprise and Home it just needs to be locally unique ("foo.unit.company.com", "barXXxxXXxxXXxx.local", etc.)
    - Trust between multiple parties needs trusted root certificates - TOFU falls apart with large numbers of devices
      - Smith: If printer could provide self-signed cert to AUTHX, then it could be used for Client to validate the printer's certificate when doing token exchange
      - Mike: But currently that OAuth extension does not exist (if it did, then we could support self-signed certs)
      - Ira: OAuth best practices draft, "sender-constrained access tokens" talks about this?
        - RFC 8705: OAuth 2.0 Mutual-TLS Client Authentication and Certificate-Bound Access Tokens
        - Mike: Focus is on Client, not Printer/Resource server registration, doesn't directly apply
    - Mike: Very much want to work with existing AUTHX implementations since otherwise it won't be supportable - Microsoft/Google client implementations depend on their respective AUTHX implementations
    - Ira: The only use of UUIDs/URNs in OAuth is in the proof-of-possession draft - not used for resource IDs
  - Smith: Can we add "out of scope" section to the end of the IPPOAUTH draft?
    - Mike: Yes, I'll add it to the next draft
7. Javascript support (Google/Benjamin)
- Missing IPP post from March 23rd
    - Looks like Benjamin got bumped from the IPP list
  - Google would like to standardize a mapping of IPP to/from Javascript/JSON
  - Mike: Existing Javascript API has some holes but it is straight-forward

## Next Steps / Open Actions

- Next conference call on May 11, 2023 at 3pm
- F2F sessions on May 17 and 18, 2023
- Action: Mike to post initial MSN 2.1 draft for May F2F
- Action: Mike to update WD templates to use "Security and Privacy Considerations" (PENDING)
- Action: Smith to create IPP Everywhere 2.0 slides showing changes (PENDING - started on it)

- Action: Mike to update IPP Everywhere 2.0 test files (PENDING)