

# Internet Printing Protocol Workgroup Meeting Minutes October 19, 2015

Meeting was called to order at approximately 3:00pm PT October 19, 2015.

## Attendees

Smith Kennedy (HP)  
# Jeremy Leber (Lexmark)  
Ira McDonald (High North)  
Mike Sweet (Apple)  
William 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-20151005.pdf>
  - Approved as posted
  - Action: Mike to post IPP F2F slides to list for discussion
    - Topics: IPP System, IPP/2.0, IPP/1.1, IPP Self-Cert
3. Status of various IPP documents (Ira/Mike)
  - IETF IPP/1.1 Updates (Mike/Ira)
    - <http://tools.ietf.org/html/draft-sweet-ietf-ipp-1.1-01>
    - <http://tools.ietf.org/html/draft-sweet-ietf-ipp-1.1-02>
    - changes for new IETF Proposed Standard
    - Barry Leiba (IETF ART AD) will be AD sponsor - note on 07/12/15
    - Reviewed by IPP WG on 08/31/15 - waiting for new draft
    - Schedule - IETF Last Call Q4 2015 / Q1 2016
  - IPP/2.0 (Mike/Ira)
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp20-20150922.pdf>
    - <http://ftp.pwg.org/pub/pwg/ipp/wd/lcrc-ipp20.txt>
    - PWG Formal Vote started on 09/29/15 - ends on 10/30/15
4. Review of registration of SHA3 and SHAKE hash functions (Mike)
  - <http://www.pwg.org/archives/ipp/2015/018621.html>
  - Posted on 10/09/15 by Mike Sweet
  - Q: What about 512/224 variants?
    - A: Yes, add 'sha2-512\_224' and 'sha3-512\_224'
  - Action: Mike to post updated hash registration including 512/224 variants
  - Approved with changes for 512/224
5. Review of registration of PDL override guaranteed attribute (Mike)
  - <http://www.pwg.org/archives/ipp/2015/018629.html>

- Posted on 10/19/15 by Mike Sweet
- Approved as posted
- 6. Review of IPP Job Password Repertoire" (Smith)
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wp-job-password-repertoire-20151012-rev.pdf>
  - Reviewed by IPP WG on 09/21/15
  - Plan is to register stand-alone (without enclosing IPP spec)
  - Schedule - IPP WG review and IANA registration Q4 2015
  - Global: "Suggests" -> "Proposes"
  - Remove table of new hash algorithms, but list hash functions that should be deprecated (md\* and sha)
  - Section 4.1:
    - Value of 0 means password can be empty.
    - Add reference to PWG 5100.11 (JPS2)
    - Change to "job-password-input-supported (rangeOfInteger(0:MAX))"
    - Clarify that this reflects the number of characters entered by the user (on the Client or Printer)
    - Upper range MAY be different than job-password-supported since that attribute refers to the number of octets in the password that are hashed vs. the number of characters
      - Client truncates string to job-password-supported before hashing, as needed
    - Reference job-password-repertoire as also restricting input
  - Section 4.2:
    - 'registry\_encoding\_range' is the format, 'vendor\_encoding\_range' for vendor ranges, give example 'vendor\_us-ascii\_lowercase' for all lowercase.
    - Drop "name" syntax
    - 'iana\_us-ascii\_digits' (0x30-0x39)
    - 'iana\_us-ascii\_letters' (0x41-0x5A, 0x61-0x7A)
    - 'iana\_us-ascii\_complex' (0x30-0x39, 0x41-0x5A, 0x61-0x7A)
    - 'iana\_us-ascii\_any' (0x20-0x7e)
    - 'iana\_utf-8\_digits'
    - 'iana\_utf-8\_letters'
    - 'iana\_utf-8\_complex'
    - 'iana\_utf-8\_any'
    - Add Unicode references for 'digits', 'letters', 'complex', and 'any' ranges (properties) mean
      - Talk about normalization form - Network Unicode (RFC 5198)
  - Section 4.3:
    - Drop name from syntax
  - Section 5.1:
    - Make this a list of deprecated hash algorithms
    - Don't need to say anything about SHA-0, just 'sha' indicated SHA-1 but is deprecated.
  - Add 8.1 Informative References

7. Review of IPP Everywhere Printer Self-Certification (SELFCERT) (Mike)
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20151009-rev.pdf>
  - Stable draft - with new PWG process updates
  - Reviewed by IPP WG on 10/05/15
  - Dropped license agreement - use membership agreement instead
  - Schedule - PWG Last Call start during November F2F
  - Did not get to this
  - Action: Mike to start WG Last Call on IPP Everywhere Self-Cert
8. Review of IPP System Service (Ira/Mike)
  - <http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippssystem10-20151018-rev.pdf>
  - Interim draft - need to add operation and attribute details
  - Reviewed by IPP WG on 10/05/15 - stopped at section 7.2
  - Schedule - Prototype draft in Q4 2015 / Q1 2016
  - Did not get to this

## **Next Steps / Open Actions**

- Face-to-face session November 4 from 9am to 4pm ET
- Next conference call November 16, 2015 at 3pm ET
- Continue discussion and scoping of System Service operations and attributes
- Action: Mike to post IPP F2F slides to list for discussion
- Action: Mike to post updated hash registration including 512/224 variants
- Action: Mike to start WG Last Call on IPP Everywhere Self-Cert
- Action: Mike to post SHA-3 registration template for job-password-encryption to IPP WG list (DONE)
- Action: Mike to start WG Last Call of Self-Cert and ISTO Review (PENDING - today or tomorrow)
- Action: Everyone to post their list of user operations for the system service to the IPP WG list (PENDING - finalize discussion at F2F)
- Action: Ira to post an issue on the PWG web site for PWG 5100.11's convoluted definition of 'guaranteed'. (DONE - reviewed today)