Internet Printing Protocol Workgroup Meeting Minutes
September 21, 2015

Meeting was called to order at approximately 3:00pm PT September 21, 2015.

Attendees

Smith Kennedy (HP)
Daniel Manchala (Xerox)
Ira McDonald (High North)
Mike Sweet (Apple)
Paul Tykodi (TCS)
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-20150831.pdf
   - Approved as posted
   - Re: new attribute for pdl-override-supported='guaranteed' list of attributes
     - Q: Do we need pdl-override-supported with the new attribute, or just deprecate it with recommendations?
     - Q: Do we include "guaranteed" in the attribute name?
     - Attribute could have the value 'none' (which corresponds to 'not-attempted') or a list of attribute names (which corresponds to 'guaranteed')
3. Status of various IPP documents (Ira/Mike)
   - IETF IPP/1.1 Updates (Mike/Ira)
     - http://tools.ietf.org/html/draft-sweet-rfc2910bis
     - http://tools.ietf.org/html/draft-sweet-rfc2911bis
     - 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 Everywhere Printer Self-Certification (SELFCERT) (Mike)
     - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20150415-rev.pdf
     - http://www.pwg.org/archives/ipp/2015/018553.html
     - Reviewed by PWG F2F on 04/29/15
     - Schedule - PWG Last Call Q3 2015 - waiting for ISTO feedback
     - Action: Mike to post stable draft and start PWG Last Call of IPP

            Everywhere Printer Self-Certification Manual
- IPP Implementor's Guide v2.0 (IG) (Smith)
    - http://ftp.pwg.org/pub/pwg/candidates/cs-ippig20-20150821.docx
    - http://ftp.pwg.org/pub/pwg/candidates/cs-ippig20-20150821.pdf
    - PWG Formal Vote completed August 21, 2015 (pass)
    - To be published as PWG 5100.19-2015
4. PWG IPP/2.0, 2.1, 2.2 Updates (Mike/Ira)
    - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp20-20150921.pdf
    - DM1: Update the last sentence to start with "In addition, values of ..." to separate the media-color/type constraints a bit.
    - Action: Mike to start call for objections to IPP 2.0 Last Call process in the SC, ending Sept 25th
    - Action: Mike to post stable draft of IPP 2.0 and start PWG Formal Vote from 9/25 to 10/23
5. Review of "job-password-format" (Smith)
    - http://ftp.pwg.org/pub/pwg/ipp/wd/wp-job-password-format-20150909-rev.pdf
    - Title: IPP Job Password Repertoire
    - Q: Do we intend to make this a mini 5100.x standard?
        - A: Possibly, could be folded into System Service or as a mailing list registration (if simple enough)
        - Defer decision on this until we know the scoping
        - Advantage of including in a spec is that it will get more eyes and more recognition.
    - Section 3: Update to "Rationale for IPP Job Password Repertoire"
        - Avoid use of normative/conformance verbiage, e.g., "Suggests deprecation of" instead of "Deprecates", "Suggests" instead of "Defines", etc.
    - SHA-3 has been published
        - Put together registration template for job-password-encryption for the new values
    - Don't use "job-password-limits", use "job-password-minimum-length" with "job-password-supported" (existing)
    - Section 4.2:
        - "job-password-formats-supported" => "job-password-repertoire-supported"
        - Values should be "prefix_name" where prefix is "ascii" or "unicode", name comes from Unicode TR with the character class database names/aliases
            - http://www.unicode.org/charts/
            - See PWG 5101.2: RepertoireSupported Element
            - Action: Mike to update IANA IPP registry for repertoire-supported attribute and values
        - Q: Do we want a system/site-defined value?
            - A: We can make this "1setOf (type2 keyword | name)", with names for vendor repertoire
            - Still doesn't allow client to know what to do with the vendor

- values, but vendor-specific clients would know what to do
  - Q: Do we need multiple values?
    - Original purpose was to tell client the 1 password format that is acceptable for job-password values
    - Important to convey capabilities (only have a numeric keypad)
    - Impossible to validate values when job-password is encrypted
    - A: Want a separate job-password-repertoire-configured Printer attribute that specifies the repertoire to use at the client end, job-password-repertoire-supported Printer attributes lists all of the (currently) available repertoire (for use by admin to configure the -configured value)
  - job-password-repertoire-supported (1setOf (type2 keyword | name))
  - job-password-repertoire-configured (type2 keyword | name)
  - Semantic Model: -supported would be put in the Capabilities group
  - Use case: Client requests configured password repertoire to determine range of characters to allow for user input.
  - For unicode_complex, look at Unicode code charts to define properly
  - Maybe add indic/arabic digits
- Section 4.3:
  - Drop this
- Section 5.1:
  - Add references
  - Make keyword values lowercase, normalize (sha1, sha2-NNN, sha2-NNN_MMM, etc.)
    - Existing IANA registry for hash functions - maybe re-use value?
  - Better table format so that deprecations are clearly next to keywords
  - MD5 -> uses the MD2 hash algorithm?
  - Reference NIST spec for guidance on when to stop supporting hash functions
    - Use as justification to deprecate MD2, MD4, MD5, and SHA1
1. Review of IPP System Service (Ira/Mike)
   - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20150920-rev.pdf
   - Interim draft - need to add operation and attribute details
   - Reviewed by IPP WG on 08/31/15 - stopped at section 6.9.1
   - Did not get to this
   - Schedule - Prototype draft in Q4 2015
   - Re: user vs. system operations for system service
     - Most are system (admin/operator) operations
     - Focus on "what are the user operations"
     - Q: Should a user be able to read the roll-up counters from the system service?

- Action: Everyone to post their list of user operations for the system service to the IPP WG list

Next Steps / Open Actions

- Next conference calls October 5 and 19, 2015 at 3pm ET
- Continue discussion and scoping of System Service operations and attributes
- Action: Mike to start call for objections to IPP 2.0 Last Call process in the SC, ending Sept 25th
- Action: Mike to post stable draft of IPP 2.0 and start PWG Formal Vote from 9/25 to 10/23
- Action: Mike to update IANA IPP registry for repertoire-supported attribute and values
- Action: Everyone to post their list of user operations for the system service to the IPP WG list
- Action: Mike to post stable draft and start PWG Last Call of IPP Everywhere Printer Self-Certification Manual (PENDING)
- Action: Smith/Mike/Ira to prepare final Candidate Standard text for IPP IG 2.0 (DONE)
- Action: Ira to post an issue on the PWG web site for PWG 5100.11's convoluted definition of 'guaranteed'. (PENDING - perhaps add new attribute to list what is guaranteed)