Internet Printing Protocol WG Minutes January 5, 2015

Meeting was called to order at approximately 3:00pm ET January 5, 2015

Attendees

Smith Kennedy (HP)
Daniel Manchala (Xerox)
Ira McDonald (High North)
Mike Sweet (Apple)
Paul Tykodi (TCS)
Rick Yardumian (Canon)

Agenda Items

- 1. IP Policy and Minute Taker
 - a. Policy accepted with Mike taking the minutes
- 2. Review previous minutes:
 - a. http://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20141208.pdf
 - c. Approved as posted
- 3. Status of various IPP documents (Ira/Mike)
 - a. IETF IPP over HTTPS Binding and 'ipps' URI Scheme (Ira)
 - http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ipps-urischeme-18-20141218.pdf
 - Stable draft updated per IESG Approval comments on 4 December 2014
 - IETF standards-track sponsored by Barry Leiba (IETF Apps AD)
 - Schedule TBD per RFC Editor waiting for IESG final review
 - b. IETF LDAP Printer Schema (Ira)
 - http://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ldap-printer-schema-09-20140928.pdf
 - Stable draft sent to RFC Editor Independent Stream per Barry Leiba (IETF Apps AD)
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 - Comments from Alexey Melnikov via Nevil Brownlee (RFC ISE) on 17 December 2014
 - Schedule TBD per RFC Editor waiting for update by Ira/Mike
 - c. IPP Everywhere Printer Self-Certification (SELFCERT) (Mike)
 - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20140826rev.pdf
 - Prototype draft waiting for prototype and beta test reports
 - Reviewed by IPP WG on 08/28

- Beta tools released on 08/28 (OS X/Linux) and 09/02 (Windows)
- Schedule PWG Last Call Q1 2015
- d. IPP Shared Infrastructure Extensions (INFRA) (Mike)
 - http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippinfra10-20141118-rev.pdf
 - Stable draft prototype report at PWG F2F in November
 - IPP WG last call ended on 12/05
 - Schedule Mike to post PWG Last Call to span February 2015 F2F
- 4. Review of IPP Finishings/2.0 (Mike)
 - a. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20141219-rev.pdf
 - b. Stable draft prototype report on 06/19
 - c. PWG Formal Vote ended on 12/19
 - d. Schedule review on 01/05 for publication as Candidate Standard
 - e. Q: Why the reverse-DNS keywords ("com.xerox-foo") for finishing-template? Why not just "vendor-foo"?
 - A: For consistency with many standards bodies. But this is just a recommendation and any keyword can be registered.
 - 5.2.1, line 653: Move localization sentence to front of paragraph, and then provide recommendation on keyword values. Also talk about registering keywords
 - f. 6.10:
 - Last paragraph, make it clear that finishings-col-default's value is 'no-value'.
 - g. Global: "reported" -> "returned"
 - h. Action: Mike to update IPP Finishings 2.0 and post final candidate standard
- 5. Review of IPP WG Charter (Ira)
 - a. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ipp-charter-20150104-rev.pdf
 - b. Initial draft updates for IPP/1.1, Transform, Resources, milestones
 - c. Schedule review on 01/05
 - d. Keep IETF IPP/1.1 as two RFCs: Encoding and Transport, Model and Semantics (rfc2910bis and rfc2911bis) with merged content from 3382
 - Keep the single milestone for IPP11, but change description to be two documents
 - e. Potential new protocol binding of IPP over CBOR?
 - RFC 7049 (out of the IETF ACE WG which is doing IoT stuff)
 - Related to CoAP (RFC 7252)
 - f. INTEROP-4: fix spelling of implementations
 - g. Add INTEROP for Scan and Transform
 - h. SYSTEM-2: Q4 2015
 - i. IPPSTATE-2 and MFDALERTS-2: Q2/Q3
 - j. Be sure to include the closed action items below for the IPPSTATE and MFDALERTS updates
- 6. Review of IPP Implementor's Guide v2.0 (IG) (Smith)
 - a. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ig-20141113-rev.pdf
 - b. Prototype draft prototype report on 12/08
 - c. FILENAME is wrong should be "wd-ippig20-yyyymmdd..."
 - d. Reviewed by IPP WG on 12/08 stopped before section 9

- e. Section 9.x:
 - Use Server when talking about HTTP issues, Printer when talking about IPP issues
- f. Section 9.1, 9.2:
 - Maybe add pointers to major sections that address security issues/ fields/attributes/etc.
- g. Section 9.1.1:
 - Put examples in list (a, b, c)
 - "SHOULD send the HTTP/1.1 Expect:" for first sentence, reword rest accordingly
 - a. First HTTP request (singular) for a connection
 - b. First IPP request for a connection
 - c. Any request that contains potentially sensitive data
 - "connection" instead of "session" (without quotes)
- h. Section 9.1.2:
 - Actually reference RFC 2817 and 2818 for HTTP Upgrade and HTTPS, respectively
 - "Clients and Servers MAY be implemented ..."
 - "Clients and Servers SHOULD support TLS encryption via HTTP Upgrade [RFC2817] and/or HTTPS [RFC2818]."
- i. Section 9.1.3:
 - Title: Using the IPP Validate-Job Operation
 - Drop first sentence
 - Line 2024: "SHOULD use the Validate-Job IPP operation to test whether ..."
- i. Section 9.1.4:
 - Title: Preferring the "ipps" URI Scheme
 - Drop colon when talking about URI scheme (scheme doesn't contain the colon)
 - Line 2028: "favor" -> "prefer" or "use"
 - Drop everything after the first sentence.
- k. Section 9.1.5:
 - Drop
 - Smith will possibly post a white paper on document encryption and exposing encryption of document data at rest...
- I. Section 9.2.1:
 - a Printer MUST support the expect header (required for HTTP/1.1), reference RFC 7230
- m. Section 9.2.2:
 - Line 2044: "Client" instead of "client"
- n. Section 9.2.3:
 - RFC-IPPS instead of RFC-TBD
 - Drop second sentence and second paragraph.
 - Have clients that probe an IP address try IPPS first, then do IPP if IPPS fails.
- o. Section 9.2.4:
 - Drop it

- p. Add new section 9.2.4:
 - Title: DNS Rebinding Attacks
 - Reference IPP Everywhere spec
 - Printers SHOULD validate the HTTP Host header to protect against DNS rebinding attacks
- q. Stopped at section 10
- r. Next draft status should be STABLE we have prototype experience and we are content-complete.
- s. Start WG last call as soon as stable draft posted
- t. Schedule PWG Last Call to span Feb 2015 F2F
- 8. Review of IPP System Control Service (Mike/Ira)
 - a. http://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsystem10-20141102-rev.pdf
 - b. Interim draft resume review at section 4
 - c. Need to add Resource ops, Register/Deregister, Get-Printer-Attributes
 - d. Reviewed at PWG F2F in November stopped at end of section 3.5
 - e. Schedule Prototype draft in Q2 2015
 - f. Did not get to this

Next Steps / Open Actions

- Next IPP conference calls January 19 and (joint) 26, 2015 at 3pm ET
- To WG Last Call of IPP Implementor's Guide 2.0 (IG)
- Review IPP System Service
- Action: Mike to post PWG Last Call of IPP INFRA to span February 2015 F2F (PENDING)
- Action: Mike to send Ira description and examples of Register-System operation (PENDING)
- Action: Mike to post updated registration process per Oct 20 concall (ONGOING - try for next IPP concall)
- Action: Ira to add comments to Printer MIB TC in 5107.3 for fax-modem-protocolerror and xxx-recoverable-storage-error - suffix dropped from IPP keyword with corresponding suffix (-error, -report, -warning) added depending on the printer state. (CLOSED - in updated charter)
- Action: Ira to submit Printer MIB registration for new xxx-missing PrtAlertCodeTC values in 5107.3 (CLOSED in updated charter)