

Internet Printing Protocol WG Minutes

December 16, 2013

Meeting was called to order at approximately 3:00pm ET December 16, 2013.

Attendees

Smith Kennedy (HP)
Tim McCann (Konica Minolta)
Ira McDonald (High North)
Mike Sweet (Apple)
William Wagner (TIC)
Rick Yardumian (Canon)
Pete Zehler (Xerox)

Agenda Items

1. IP Policy and Minute Taker
 - a. Policy accepted with Mike taking the minutes
2. Review of previous minutes
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/minutes/ippv2-concall-minutes-20131202.pdf>
 - c. Approved as posted
3. Status of various IPP documents (Ira/Mike)
 - a. IETF LDAP Printer Schema (Ira)
 - <ftp://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ldap-printer-schema-05-20130919.pdf>
 - pending edits per IETF Apps Area review by Alexey Melnikov (email 18 November)
 - review Alexey's comments and decide on appropriate edits
 - Ira will post proposed response to the apps area review to the IPP list
 - b. IETF IPP over HTTPS Binding and 'ipps' URI Scheme (Ira)
 - <ftp://ftp.pwg.org/pub/pwg/ipp/wd/draft-mcdonald-ipps-uri-scheme-09-20131105.pdf>
 - edits in response to IETF Apps Area review by Tom Petch
 - awaiting IETF Apps Area WG feedback and further IETF reviews
 - c. IPP Fax Out (Mike)
 - <ftp://ftp.pwg.org/pub/pwg/candidates/cs-ippfaxout10-20131115-5100.15.pdf>
 - PWG Approved - PWG Candidate Standard 5100.15-2013
 - e. IPP Transaction-based Printing Extensions (Mike)
 - <ftp://ftp.pwg.org/pub/pwg/candidates/cs-ipptrans10-20131108-5100.16.pdf>
 - PWG Approved - PWG Candidate Standard 5100.16-2013
 - f. IPP Shared Infrastructure Extensions (Mike)

- <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsex10-20131209-rev.pdf>
 - Prototype draft
 - waiting for prototype reports
 - g. IPP Self-Certification (Mike)
 - <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippeveselfcert10-20131014-rev.pdf>
 - waiting for new draft from Mike (from October F2F review)
4. Review of IPP Scan Service (Pete Zehler)
- a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippscan10-20131105.pdf>
 - b. continue review at section 7.3 (from 2 December)
 - c. 7.4 InputRegionsSupported missing an N
 - d. 7.4.1:
 - Fix spelling of destination-uri-schemes-supported (rui -> uri)
 - Update wording of tel/sip/sips prohibition - MUST NOT support, Clients MUST use a FaxOut service or MUST direct to an IPP destination (scan to print or scan to fax indirectly through an IPP Printer)
 - CONDITIONALLY REQUIRED "ftp", "ftps", "http", "https", SHOULD support "ipp", "ipps", "mailto", and "smb".
 - "The CONDITIONALLY REQUIRED ...", "Printers that support Push Scan MUST support this attribute."
 - "Consistently ignore" fax URI scheme, since IETF rejected it. That will go into IIG2.
 - The CONDITIONALLY REQUIRED "destination-uri-schemes-supported" Scan Service attribute lists the supported "destination-rui" URI schemes. Printers that support Push Scan MUST support this attribute and the values "ftp", "ftps", "http", and "https" and SHOULD support "ipp", "ipps", "mailto", and "smb".
 - Separate paragraph to talk about fax URI schemes
 - e. 7.5.1:
 - Reference PWG 5100.8 section 3 for how the -actual values are generated.
 - f. 8.2: Add a keyword to indicate that the user needs to do something at the scanner
 - g. 11: Maybe reference security considerations from SM Scan service spec, otherwise pull in content from Nancy's prior work on MFD Model / Scan
 - Action: Bill/Ira to find Nancy's security considerations for Scan
5. Review of IPP Implementor's Guide v2.0 (Smith)
- a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippig20-20131002-rev.pdf>
 - b. continue review at section 7 (from October F2F)
 - c. 6: Add reference to RFC 3196
 - d. 7:
 - 7 new HTTP/1.1 RFCs in final review, probably will get published early next year
 - <http://tools.ietf.org/wg/httpbis/>
 - Also updates to HTTP Basic/Digest authentication:
 - <http://tools.ietf.org/wg/httpauth/>

- Add one sentence/paragraph about HTTP/2.0 work-in-progress?
- e. 7.1:
 - Break up client and server into 7.1.1 and 7.1.2
 - Switch to numbered listed instead of bulleted lists
 - Line 1041/1042: "allows the HTTP client to check the authentication requirements of the HTTP server before sending the complete HTTP message body."
 - Line 1043: "In its first request to a HTTP server, the HTTP client SHOULD:"
 - Line 104-1045: Merge: "Include "Expect: 100-continue" in the request headers and wait up to 1 second for a response from the HTTP server, and ..."
 - Numbered list for 1046-106: Numbered list
 - "continue sending the message body"
 - Lines 1049-1051: If a HTTP 301 Moved Permanently or 302 Moved Temporarily status code is returned for a POST or PUT request, the HTTP client SHOULD fail the request as this is likely a configuration error. If a HTTP 301 Moved Permanently or 302 Moved Temporarily status code is returned for a GET or HEAD request, the HTTP client SHOULD redirect its request to the new URI unless doing so would result in a downgrade from a secure transport, e.g., "https://", to a non-secure transport, e.g. "http://".
 - Line 1058: "re-send the HTTP request. This HTTP server is non-conforming..."
 - Line 1060: "If a HTTP 401 Unauthorized status code is returned, re-send the HTTP request ..."
 - Line 1062: "403 Forbidden", "the HTTP client SHOULD fail..."
 - Line 1063: "If a HTTP 417 Expectation Failed status code is returned, the HTTP client SHOULD re-send the HTTP request without the Expect header."
 - Line 1064: "If a HTTP 426 Upgrade Required status code is returned and the Upgrade response header contains a TLS identifier, the HTTP client SHOULD upgrade the connection to TLS [RFC2817] and then re-send the HTTP request."
 - Any other status code is a hard error, HTTP client SHOULD terminate the current connection and SHOULD NOT continue to send requests to this HTTP server
 - Line 1067: "The HTTP server SHOULD:"
 - Server stuff:
 - Numbered lists, re-word using If structure,
 - Talk about reasons why not to use redirection
 - 200 means HTTP request is OK, parenthetically mention that IPP request message might not be authorized/valid/etc.)
 - 401 for authentication-required (WWW-Authenticate contains the list)
 - 403 for authenticated but not allowed or not allowed from client

- ...
- Make sure all of the client status codes are mirrored here
- Add 304 to client and server
- f. Maybe talk about reporting https:// URIs for an ipps:// Printer - not so much about securing icons, etc. but authenticating the Printer
- g. 7.2: Add ", such as HTML links and URIs in IPP response attributes".
- h. 7.3:
 - Only for GET/HEAD
 - Line 1083: "allows a HTTP client", "a particular resource (icon, etc.)", "last time the HTTP client requested it."
- i. Stopped at 7.4
- 1. Review of IPP Finishings v2.0 (Mike)
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfinishings20-20130814.pdf>
 - b. continue review at section 5.1 (from 23 September)

Next Steps / Open Actions

- Next IPP conference calls January 13, 2014 and January 27, 2014 at 3pm ET
- Next IPP F2F session February 5, 2014 at 9am PT
- Continue reviewing updated IIG2
- Continue reviewing FIN2
- Action: Bill/Ira to find Nancy's security considerations for Scan
- Action: Mike to publish IPP FaxOut Service as PWG 5100.15 (DONE)
- Action: Mike to provide IPP xxx-missing keyword registrations (DONE)
- Action: Ira to submit Printer MIB registration for new PrtAlertCodeTC values (PENDING)
- Action: Mike to propose an approach for deprecation of IPP attributes and values in the IANA registry (ONGOING)
- Action: Mike/Ira to ask Microsoft for WS-Discovery test script (PENDING)
- Action: Mike to ask Justin about WS-Discovery probe response example (PENDING)
- Action: Ira/Paul/SM workgroup to review values of finishings-col member attributes to make sure we have parity with common JDF values (PENDING)
- Action: Ira and Mike to make sure finishing MIB and Finishings 2.0 are in sync (PENDING)
- Action: Mike to update IPPSIX to include device-name/uuid as a potential operation attribute for Identify-Printer (PENDING)
- Action: Ira/Joe to issue errata on IDS Attributes for multi-valued FirmwarePatches (DONE - working being done in IDS)
- Action: Mike to add spec best-practices to WD template (PENDING)
- Action: Ira and Mike to review 5100.x specs to remove action items, fix boilerplate copyright text in early specs, fix header/footer/document titles as needed, and fix normative references to drafts, etc. (ONGOING)
- Action: Paul to reach out to label/portable printer vendors to join IPP WG discussions (ONGOING - Paul to send out list ASAP)