

Internet Printing Protocol WG Minutes

August 6, 2013

Meeting was called to order at approximately 2:30pm PT August 6, 2013.

Attendees

Nancy Chen (call in)
Daniel Dressler (call in)
Gyaneshwar Gupta (Oki Tokyo)
Justin Hutchings (Microsoft - call in)
Smith Kennedy (HP - call in)
Daniel Manchala (Xerox)
Ira McDonald (High North - call in)
Matsutoshi MURATA (Oki Data)
Joe Murdock (Sharp)
Glen Petrie (Epson - call in)
Brian Smithson (Ricoh)
David Sponable (Xerox)
Alan Sukert (Xerox - call in)
Mike Sweet (Apple - call in)
Paul Tykodi (TCS - call in)
William Wagner (TIC)
Rick Yardumian (Canon)

Agenda Items

1. IP Policy and Minute Taker
 - a. Policy accepted with Mike taking the minutes
2. Slides
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/slides/ipp-wg-agenda-august-13.pdf>
 - b.
3. IPP Everywhere Self-Certification
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippselfcert10-20130731-rev.pdf>
 - b. New mailing list for self-certification questions: ippeveselfcert@pwg.org
 - c.
4. IPP Implementors Guide 2.0
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippig20-20130722-rev.pdf>
 - b. Description of ipp-attribute-fidelity, job-mandatory-attributes, pdl-override-supported are correct.
 - Include in IIG2
 - c. Client should assume “pdl-override-supported=‘attempted’” is equivalent to ‘not-attempted’
 - Client SHOULD provide document data of the correct size, etc. to avoid overrides

- Server SHOULD support 'guaranteed' for at least JPEG and PWG Raster
- Can't do strong recommendations here, no good - better - best here
- d. Clients SHOULD NOT unconditionally specify ipp-attribute-fidelity=true all the time
 - Side effects - scaled output, etc.
 - "job-mandatory-attributes" may not be supported, often silently ignored if not supported
 - Add ipp-features-supported keyword for this?
 - Or add job-mandatory-attributes-supported boolean attribute?
 - Q: How does 'job-mandatory-attributes' help for the attempted/not-attempted?
 - A: Printer might be able to override things like media but not finishings or sides
 - Go through existing IPP extension specs, find other cases where we don't have a corresponding -supported attribute
 - Issue errata if we are just adding a -supported boolean with PWG process (WG last call, PWG Call for Objection)
 - 5100.7: Add job-mandatory-attributes-supported boolean
 - GOOD: Use ipp-attribute-fidelity=true when the user wants specific output intent
 - BETTER: Discover whether printer supports job-mandatory-attributes (however that ends up happening) and use it if supported (just list media or other attributes that the client/user indicates are required)
 - Printers SHOULD support job-mandatory-attributes/-supported and pdl-override-supported = 'guaranteed'
- e. multiple-document-handling vs. job-collate
 - Don't use job-collate
 - Use multiple-document-handling, per IPP Everywhere
- f. Best practices for detecting features, attributes, values, and constraints
 - Use ipp-features-supported for high-level features
 - Use xxx-supported for individual attributes/operations
 - job-creation-attributes-supported
 - printer-settable-attributes-supported
 - operations-supported
 - job-constraints-supported/job-resolvers-supported
- g. Action: Mike to add spec best-practices to WD template
 - Include XxxSupported attributes/elements
 - Include ipp-features-supported keywords for new high-level features
 - Features/elements/attributes/values must be discoverable by clients
 - "Design patterns" - naming, grouping, value types, etc.
 - When to use enums vs. keywords vs. names vs. integers/ ranges

- Format guidelines
 - Tables of elements/groups
 - Figures
 - Lists of enums vs. keywords vs. requirements
- h. Section 5.1:
 - Add example: media vs. media-default, default media might be different at print time than submission time
 - Separate example for IPP Printer: media-actual = media from client or media-default from printer
- i. Q: Format with Client and Printer recommendations together, or separate into client and printer?
 - A: Prefer together since it provides context/rationale
 - Maybe add subsections for client and printer recommendations?
 - 5.x: rationale/context, 5.x.1 client recommendations, 5.x.2 printer recommendations
- j. Section 5.4:
 - Hard to recommend finishings-col over finishings right now because finishings-col is not fully-specified
 - 5100.1 update will add finishing-template-supported and other member attributes to prefer finishings-col
- k. Section 5.5:
 - Also job-creation-attributes-supported
- l. Stopped at section 5.5
- 5. Semantic Model/Schema Tool
 - a. SM WG needs to decide on a tool.
 - b. Mike will figure out how to purchase a copy of the tool for the editor(s)
- 6. Semantic Model/IPP Hardcopy Document Discussions
 - a. Don't redefine Hardcopy Document
 - But there are Scanned Documents
 - b. Rename operation to Add<service>DocumentImages
 - InputElements provide source of scanned images
 - New InputElements group in the request is as specified in the CopyInput DocumentProcessing group.
 - InputElements then also becomes an optional part of the DocumentProcessing group of each Document object
 - c. What format do document images use?
 - This is implementation-defined. In fact, document images do not need to exist as file and could be streamed from the scanner, much like documents submitted using Send<service>Document can be streamed.
- 7. IPP FaxOut Service
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippfaxout10-20130730-rev.pdf>
 - b. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/lcrc-ippfaxout10.txt>
 - c. Adopt new Add-Document-Images operation name
 - Expand input-attributes to include all SM CopyInput elements
 - Pull
 - d. Make Add-Document-Images RECOMMENDED

- e. Add input-attributes-actual Job and Document Description attributes
- f. DM3:
 - Remove date-time
- g. Section 7.1.3: Job Terminating State
 - Make sure this is consistent with existing RFCs/PWG standards
 - Mike did not see any discussion of this in SM FaxOut, RFC 2911, or MFD Model
- h. DM6/LW3: Make RECOMMENDED
- i. ipp-attribute-fidelity vs. capabilities of receiver
 - “completed-with-warnings” if receiver doesn’t support color, etc.
- j. SK6: Drop pages-per-minute/-color
- k. SK10: Add logo-uri-formats-supported attribute with image/jpeg as minimum format
 - Also in logo-uri member attribute description mention what happens if the printer cannot access or process it
- l. Continue discussions of terminating state on mailing list
- n. After making changes, do a second WG last call
- 8. IPP Shared Infrastructure Extensions (IPPSIX)
 - a. <ftp://ftp.pwg.org/pub/pwg/ipp/wd/wd-ippsix10-20130730-rev.pdf>
 - b. Notes from Cloud session:
 - Review cloud service operations to make sure that Table 4 Infrastructure Printer operations match (MAY for service operations, MUST NOT for device operations)
 - c. Did not get to this
- 9. IPP Multifunction Approach
 - a. Leave IPP Everywhere along
 - b. Do individual service binding specs a la IPP FaxOut
 - c. Eventually do an IPP Multifunction spec that points to the service specs a la IPP Everywhere
 - d. What about read-only vs. read-write attributes?
 - Need to show this in IANA the registry
 - Do a short spec reclassifying read-only attributes as Job Status, Document Status, and Printer Status attributes
 - e. Specs to do:
 - IPP Scan
 - IPP FaxIn
 - IPP EmailIn/EmailOut
 - IPP Transform? (but not if a private service?)
 - IPP Copy? (tentatively no)
 - IPP Finishings 2.0
 - IPP Health Assessment Attributes Extension (or part of System Control)
 - IPP System Control
 - IPP Status Group Definitions
 - IPP Resource
 - f. Errata to do:
 - PWG 5100.3 (drop finishings-col/-default-supported and related

- attributes)
- PWG 5100.7 (add job-mandatory-attributes-supported boolean)

Next Steps / Open Actions

- Next IPP conference call is August 19, 2013 at 3pm ET
- Action: Mike to add spec best-practices to WD template
- Action: Mike to post last call review draft of IPP FaxOut (DONE)
- Action: Mike to post initial draft of IPP Finishings Extensions (update of 5100.1) (PENDING)
- Action: Paul to post summary of finishing-template investigation to IPP WG list (PENDING)
- Action: Mike to issue PWG Last Call of IPP Transaction-Based Printing Extensions (DONE)
- Action: Mike to add finishing-template-supported (1setOf name(MAX)) Printer attribute to IANA registry (PENDING)
- Action: Ira to capture job terminating state wording from IPP FaxOut for SM FaxIn (PENDING)
- Action: Mike to setup certification mailing list on new server (DONE - ippeveselfcert@pwg.org)
- Action: Ira to update milestones and add new documents to IPP WG charter (PENDING)
- Action: Ira/Bill to submit technical errata to RFC 3805 to replace CR with CR + LF to be consistent with 5198 and others (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: Ira and Mike to work with IANA to update registry to include a "set allowed" column for attributes and improve the plain text formatting (ONGOING)
- Action: Paul to reach out to label/portable printer vendors to join IPP WG discussions (ONGOING - Paul to send out list before July 22)